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- Abrams, Daniel, to Simplex Equipment Corp. Compatible picture projection and sound reproduction system and apparatus therefor. 2,924,660, 2-9-60, Cl. 179-1.
- Abrams, Fred, and J. C. Walters, to Vizofilm Mfg. Corp. Method of forming a sales package. 2,929,180, 3-22-60, Cl. 53-29.
- Abrams Instrument Corp.: *See*—  
 Schmidt, Louis F. 2,944,169.
- Abrams, Irving M.: *See*—  
 Patterson, James A., and Abrams. 2,953,547.
- Abrams, Leo M. Orthopedic wedge. 2,932,912, 4-19-60, Cl. 36-76.
- Abrams, Milton. Combined vapor, moisture and insect protection of buildings. 2,952,938, 9-20-60, Cl. 43-131.
- Abrams, Morris, to Arrow Fastener Co., Inc. Table type hand operated stapler. 2,939,146, 6-7-60, Cl. 1-3.
- Abrams, Ralph, to Cambridge Thermionic Corp. Electric insulating devices. 2,931,007, 3-29-60, Cl. 339-213.
- Abrams, Ralph, to Cambridge Thermionic Corp. Electrically insulating devices. 2,931,008, 3-29-60, Cl. 339-213.
- Abrams, Ralph, to Cambridge Thermionic Corp. Electric meter probe. 2,934,738, 4-26-60, Cl. 339-108.
- Abrams, Ralph, to Cambridge Thermionic Corp. Battery holder. 2,951,107, 8-30-60, Cl. 136-173.
- Abrams, Ralph, D. W. Comins, Jr., and W. A. Melanson, to Cambridge Thermionic Corp. Impedance assembly. 2,946,029, 7-19-60, Cl. 336-136.
- Abrams, Victor R., to W. F. and John Barnes Co. Apparatus for processing foods. 2,935,930, 5-10-60, Cl. 99-356.
- Abramsen, Finn B. Machine for straightening round workpieces. 2,940,503, 6-14-60, Cl. 153-108.
- Abramson, Albert. Stereoscopic color television system. 2,931,855, 4-5-60, Cl. 178-5.2.
- Abramson, Ernest L., to The New York Air Brake Co. Staged turbine pump for liquefied gases. 2,935,026, 5-3-60, Cl. 103-96.
- Abramson, Hugo. Powder cases for use in breechless anti-recoil arms. 2,919,629, 1-5-60, Cl. 89-17.
- Abramson, Hugo. Anti-recoil arms. 2,925,014, 2-16-60, Cl. 89-17.
- Abramson, Hugo, and S. V. Akselson, to Forsvarets fabriksstyrelse (Directorate of Swedish Defense Factories). Finless hollow charge projectile. 2,927,535, 3-8-60, Cl. 102-50.
- Abrasive & Metal Products Co.: *See*—  
 Gregor, John R., and Van Orden. 2,939,777.  
 Gregor, John R., and Van Orden. 2,940,841.
- Abresch, Carel F., to General Electric Co. Domestic appliance. 2,942,444, 6-28-60, Cl. 68-17.
- Abolson, Eric W., to Gloster Aircraft Co. Ltd. Shut-off valves for controlling flow of liquid from tanks. 2,939,476, 6-7-60, Cl. 137-195.
- Abt, Clifford F., R. Y. Miner, and A. Spitalny, to American Bosch Arms Corp. Ordnance calculating apparatus. 2,949,824, 8-23-60, Cl. 89-41.
- Acara, Nancy A.: *See*—  
 Breck, Donald W., and Acara. 2,950,952.  
 Breck, Donald W., and Acara. 2,962,355.
- Accesso Systems, Inc.: *See*—  
 Sorenson, Stanley E. 2,926,237.
- Accumulatoren-Fabrik Aktiengesellschaft: *See*—  
 Dassler, Adolf. 2,934,551.
- Accumulatorenfabrik "Varta" N.V.: *See*—  
 Beusker, Gerardus H., and Schneider. 2,925,456.
- Ace Fastener Corp.: *See*—  
 Pankonin, William G. 2,937,375.
- Aceto, Nicholas C.: *See*—  
 Sinnamon, Howard I., Aceto, and Eskew. 2,964,407.
- Acetylene Cylinder Corp.: *See*—  
 Muller, Nathan W., and Long. 2,944,911.
- Achilles Corp.: *See*—  
 Miller, Anthony P. 2,924,223.
- Achner, Martin. Salving-bag. 2,931,043, 4-5-60, Cl. 2-69.5.
- Achuff Railway Supply Co.: *See*—  
 Wells, Arthur M. 2,933,258.
- Acker, Norbert K. Phonograph record players. 2,937,026, 5-17-60, Cl. 274-10.
- Acker, Norman J., and E. P. Blomquist, to Basic Products Corp. Transfer mechanism for heat treating apparatus. 2,965,369, 12-20-60, Cl. 266-4.
- Acker, Walter L., and L. H. Curkin, to United Aircraft Corp. Etching bath for corrosion and heat resistant alloys and process of etching. 2,940,837, 6-14-60, Cl. 41-42.
- Ackerbauer, Carl F., to Johnstown Research Associates, Inc. Tobacco pellet for pipes. 2,935,987, 5-10-60, Cl. 131-3.
- Ackerman, Bernard, and D. Swern, to United States of America, Agriculture. Dialkyl acyloxyalkylphosphonates. 2,929,831, 3-22-60, Cl. 260-461.
- Ackerman, Charles B., and R. M. Bird, to Motorola, Inc. Alloying apparatus for transistors. 2,933,787, 4-26-60, Cl. 22-75.
- Ackerman, George H. Tethered ring games. 2,942,886, 6-28-60, Cl. 273-99.
- Ackerman, Hans, and G. Schetty, to J. R. Gely A.-G. Azo dyestuffs containing chromium bound in complex linkage. 2,921,061, 1-12-60, Cl. 260-147.
- Ackerman, Harry J. End gate for a wagon box. 2,951,726, 9-6-60, Cl. 296-51.
- Ackerman, Herman, to Railtrack Equipment Corp., S.A. Railbase and railweb grinding machine. 2,926,460, 3-1-60, Cl. 51-3.
- Ackerman, Herman A., to Socony Mobil Oil Co., Inc. Apparatus for determining horizontal and vertical gradients of gravity. 2,926,842, 3-1-60, Cl. 235-61.
- Ackerman, Joseph F., and J. F. Jones, to The B. F. Goodrich Co. Mucilaginous composition comprising salt of cross-linked carboxylic polymer and method of preparing same. 2,923,692, 2-2-60, Cl. 260-174.
- Ackerman, Sanford S., and R. A. Di Taranto, to Westinghouse Electric Corp. Dampened blade structure. 2,920,868, 1-12-60, Cl. 253-77.
- Ackerman, Wilbert E. Drying mixtures of coarse and fine particles. 2,959,869, 11-15-60, Cl. 34-135.
- Ackermann, Wolfgang. Vertebral trephine biopsy instruments. 2,919,692, 1-5-60, Cl. 128-2.
- Ackles, Virgil E. Doughnut frying machine. 2,931,289, 4-5-60, Cl. 99-354.
- Ackley, Charles, to R. H. Hartnett Co. Marking machines. 2,931,292, 4-5-60, Cl. 101-37.
- Ackley, Edward, to Julian B. Slevin Co., Inc. Apparatus for fastening cartons. 2,937,486, 5-24-60, Cl. 53-374.
- Ackley, Thomas, to John J. Donovan. Outrigger fishing pole supports. 2,958,491, 11-1-60, Cl. 248-42.
- Ackroyd, Gordon C.: *See*—  
 Penny, Francis D., and Ackroyd. 2,957,339.
- Acme Appliance Mfg. Co.: *See*—  
 Preston, Don F. 2,919,966.  
 Preston, Don F. 2,939,167.
- Acme Die Casting Corp.: *See*—  
 Vakos, Peter, and Glenn. 2,955,584.
- Acme Electric Corp.: *See*—  
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- Acme Industries, Inc.: *See*—  
Weatherwax, Kenneth A., Smith, and Pearson. 2,929,408.
- Acme Pallet Co., Inc.: *See*—  
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- Acme Process Equipment Co.: *See*—  
Placek, Adolph. 2,932,559.
- Acme Steel Co.: *See*—  
Coleman, Bestor P. 2,944,337.  
Falck-Pedersen, Kjell A. 2,933,261.  
Hager, Robert E. 2,959,118.  
Hall, Marchand B., and Fogg. 2,964,295.  
Hall, Marchand B., and Winkler. 2,943,558.  
Hausknecht, William E. 2,960,695.  
MacChesney, Chester M., and Wilson. 2,940,732.  
Quednau, Walter C. 2,962,720.  
Wilson, Allen B. 2,925,757.  
Wilson, Allen B. 2,948,049.  
Wilson, Allen B., and Stanius. 2,944,503.  
Winkler, Alvin L. 2,941,782.
- Acme Visible Records, Inc.: *See*—  
Colo, Peter M. 2,946,638.  
Deinlein, Victor E. 2,959,877.
- Accomb, Byron H., to Union Carbide Corp. Apparatus for gas borne powder distribution. 2,953,411, 9-20-60, Cl. 302-17.
- Accomb, Frederick G. Merchandising display package. 2,950,004, 8-23-60, Cl. 206-78.
- Acorn Advertisers: *See*—  
Magyar, Louis L. 2,962,956.
- Acorn Aluminum Products Co.: *See*—  
Rich, Samuel. 2,964,344.
- Acosta, Tracy. Citrus fruit reamer. 2,944,576, 7-12-60, Cl. 146-3.
- Acoustica Associates, Inc.: *See*—  
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- Aera Electric Corp.: *See*—  
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- Acro Welder Mfg. Co.: *See*—  
Stolz, Desmond, and Bruss. 2,958,757.
- Acrow (Engineers) Ltd.: *See*—  
Crook, Eric G. B. 2,953,836.
- Activa Ibero: *See*—  
Darche, Albert A. A. 2,934,418.
- Acton, Frank J.: *See*—  
Glomb, Frank A., Acton, and Mercanti. 2,951,398.  
Schueder, George M., Sturdy, Acton, and Glomb. 2,929,339.  
Schueder, George M., Sturdy, Acton, and Glomb. 2,963,991.
- Acton Laboratories, Inc.: *See*—  
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- Actuation Research Corp.: *See*—  
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- Adair, John A. Method of making a dielectric core and resistor. 2,936,516, 5-17-60, Cl. 29-155.68.
- Adair, Walter E.: *See*—  
Hartwick, Ralph C. 2,941,438.
- Adam, Helmut, to Robert Bosch G.m.b.H. Butterfly valves. 2,946,553, 7-26-60, Cl. 251-188.
- Adam, Hermann, and F. Neumann, to Phoenix Naemaschinen AG. Baer & Rempel. Articulated presser foot for sewing machines. 2,919,668, 1-5-60, Cl. 112-235.
- Adam, Howard W., and C. C. Cook, to International Minerals & Chemical Corp. Drying method and apparatus. 2,926,428, 3-1-60, Cl. 34-17.
- Adamek, Miroslav, Z. Duben, and M. Pavlasek, to CKD Ceska Lipa Narodni Podnik. Apparatus for automatic arc welding circular seams. 2,930,883, 3-29-60, Cl. 219-125.
- Adami, Frederick W., Jr.: *See*—  
Pierce, Melbourne H., Perry, and Adami. 2,946,457.
- Adami, James W. Combined collapsible music stand and carrying case. 2,935,812, 5-10-60, Cl. 45-121.
- Adamik, Walter J.: *See*—  
Edelman, Leonard E., Runk, and Adamik. 2,956,613.
- Adams, Andrew C., to Saco-Lowell Shops. Slashers. 2,927,364, 3-8-60, Cl. 28-28.
- Adams, Arthur, and R. Slack, to May & Baker Ltd. Isonicotinyl hydrazide derivatives. 2,940,970, 6-14-60, Cl. 260-240.
- Adams, Arthur B. Combined cigarette package and ash tray. 2,958,417, 11-1-60, Cl. 206-41.
- Adams, Benjamin F., to Armstrong Cork Co. Cellular surface coverings having an embossed appearance. 2,920,977, 1-12-60, Cl. 117-15.
- Adams, Benjamin F., Jr., to E. I. du Pont de Nemours and Co. Batt formation. 2,933,774, 4-26-60, Cl. 19-144.
- Adams, Bertram C. Dynamic short locator. 2,933,680, 4-19-60, Cl. 324-51.
- Adams Carbide Corp.: *See*—  
St. Clair, Leo J. 2,930,111.
- Adams, Carl B. Driving mechanism for cotton carding machines. 2,928,139, 3-15-60, Cl. 19-98.
- Adams, Cecil C. Cigarette dispensing device. 2,954,143, 9-27-60, Cl. 221-24.
- Adams, Cecil S., and L. A. Deal, to Adams, Inc. Ring frame control device. 2,930,180, 3-29-60, Cl. 57-81.
- Adams, Charles J., and R. E. Cooper, to General Electric Co. Electric time delay apparatus. 2,935,621, 5-3-60, Cl. 307-88.
- Adams, Chester E., and D. H. Meyer, to Standard Oil Co. Halomethylation. 2,951,100, 8-30-60, Cl. 260-651.
- Adams, Chester E., and J. P. O'Brien, to Standard Oil Co. Vinyl chloride polymer plasticized with N,N,N',N' tetraalkylphthalimide and process of making. 2,952,654, 9-13-60, Cl. 260-32.6.
- Adams, Clarence R., to Boeing Airplane Co. Butterfly check valves. 2,934,084, 4-26-60, Cl. 137-527.4.
- Adams, Clarence R., to H. E. Metcalf, deceased; by C. R. Metcalf, administratrix. Motion converter. 2,936,635, 5-17-60, Cl. 74-89.
- Adams, Clark E.: *See*—  
Kimberlin, Charles N., Jr., Adams, and Taff. 2,926,129.
- Adams, Daniel M., L. P. Garvey, and C. J. Griswold, Jr., to General Motors Corp. Automobile door latching system. 2,936,843, 5-17-60, Cl. 180-82.
- Adams, David J.: *See*—  
Webb, Carl J., and Adams. 2,959,864.
- Adams, Dennis A. W., and A. K. Sarkar, to Hickson & Welch Ltd. Pyrazolo-triazole optical brighteners. 2,928,830, 3-15-60, Cl. 260-240.
- Adams, Donald D., and R. G. Brant, to Prentice Machine Works, Inc. Apparatus for positioning wood pieces in the manufacture of consolidated wood sheet product. 2,928,442, 3-15-60, Cl. 144-281.
- Adams, Donald F., F. C. Gossett, and J. G. Hainsworth, to Don Baxter, Inc. Enema container. 2,923,296, 2-2-60, Cl. 128-227.
- Adams, Donald W., and G. K. Weber, to General Motors Corp. Fluid pressure engine starting system. 2,953,127, 9-20-60, Cl. 123-179.
- Adams, Dustin S., and J. F. Bowling, to E. I. du Pont de Nemours and Co. Strand processing. 2,936,877, 5-17-60, Cl. 203-1.
- Adams, Dustin S., A. Ernst, and R. S. Prengle, to E. I. du Pont de Nemours and Co. Process for producing shaped oriented polyester articles having a metallic luster. 2,948,583, 8-9-60, Cl. 18-54.
- Adams, E. A., & Son, Inc.: *See*—  
Evans, Andrew J. 2,948,041.  
Kettell, Philip E. 2,961,854.
- Adams, Edmond, and W. M. Hubbard, to United States of America, Navy. Magnetic flake core. 2,937,964, 5-24-60, Cl. 148-105.
- Adams, Edward, to Aro Equipment Corp. Valve structure for a demand oxygen regulator. 2,920,637, 1-12-60, Cl. 137-64.
- Adams, Elmer L., and R. C. Gasmire, to Owens-Illinois Glass Co. Apparatus for trimming excess plastic from blown plastic articles. 2,943,349, 7-5-60, Cl. 18-5.
- Adams, Ernest A., 1/2 to R. Adams. Doughnut making machine. 2,966,126, 12-27-60, Cl. 107-14.
- Adams, Ernest C. Badge fastener. 2,938,253, 5-31-60, Cl. 24-103.
- Adams, Frank L., to Youngstown Sheet and Tube Co. Reaming tool for large diameter tubes. 2,956,457, 10-18-60, Cl. 77-73.
- Adams, Frederic H.: *See*—  
Hardy, William B., and Adams. 2,959,472.
- Adams, Frederick J., to Hydrosteer Ltd. Steering mechanism. 2,926,541, 3-1-60, Cl. 74-388.
- Adams, Frederick J., to Hydrosteer Ltd. Steering mechanism. 2,964,019, 12-13-60, Cl. 121-41.
- Adams, Gail D., Jr.: *See*—  
Balkwell, William R., Jr., and Adams. 2,936,372.
- Adams, George L., to The Salem Tool Co. Multiple head coal mining auger. 2,940,740, 6-14-60, Cl. 262-26.
- Adams, George M., to George Sheldon (Walsall) Ltd. Portable jewel cases. 2,962,156, 11-29-60, Cl. 206-45.14.
- Adams, George P., and T. T. Bunch, to Western Electric Co., Inc. Apparatus for stripping a sheath from a core. 2,951,402, 9-6-60, Cl. 81-9.51.
- Adams, George P., E. N. Crotty, and W. J. Hyde, to Western Electric Co., Inc. Strand take-up apparatus. 2,962,242, 11-29-60, Cl. 242-158.4.
- Adams, Harold E. Vacuum pump and compressor. 2,940,657, 6-14-60, Cl. 230-79.
- Adams, Harold E., to Nash Engineering Co. Fuel pump. 2,952,214, 9-13-60, Cl. 103-113.
- Adams, Harold E., to Nash Engineering Co. Booster pumps. 2,956,504, 10-18-60, Cl. 103-113.
- Adams, Harold E., to Nash Engineering Co. Fuel booster pumps. 2,961,130, 11-22-60, Cl. 222-333.
- Adams, Inc.: *See*—  
Adams, Cecil S., and Deal. 2,930,180.  
Bailey, Felton B. 2,930,179.
- Adams, James S.: *See*—  
Tava, Alben J., Adams, and Van Aken. 2,949,594.
- Adams, John, and M. D. Dudley, to Ferranti, Ltd. Flying-spot scanning systems. 2,951,948, 9-6-60, Cl. 250-217.
- Adams, John E.: *See*—  
Kirkham, Don, and Adams. 2,923,148.
- Adams, John E., to Sylvania Electric Products Inc. Drive circuit for counting tubes. 2,949,564, 8-16-60, Cl. 315-84.6.
- Adams, John G. Inhibitor applicator. 2,941,500, 6-21-60, Cl. 118-408.
- Adams, John N.: *See*—  
Barnhill, George B. 2,946,155.
- Adams, John Q. Swine feeder. 2,959,154, 11-8-60, Cl. 119-52.
- Adams, John Q., and W. J. Howe, to Becton, Dickinson and Co. Sheath and method of manufacturing same. 2,940,445, 6-14-60, Cl. 128-218.



- Adams, John R., Jr., and V. S. Salvin, to Celanese Corp. of America. Yellow diphenylamine dyes. 2,921,945, 1-19-60, Cl. 260—397.7.
- Adams, John R., Jr., and V. S. Salvin, to Celanese Corp. of America. Yellow sulfonamide dyestuff. 2,922,796, 1-26-60, Cl. 260—397.7.
- Adams, Kenneth C., and R. G. Honeyager, to Allis-Chalmers Mfg. Co. Lubrication of transmission clutch disks. 2,935,889, 5-10-60, Cl. 74—467.
- Adams, L., Ltd.: See—  
Voss, Waldemar E. 2,950,898.
- Adams, Leon M.: See—  
Wadsworth, Francis T., and Adams. 2,953,609.
- Adams, Lorenzo J.: See—  
Kennedy, Anthony, Jr., Adams, Kirby, and Steinbronn. 2,936,507.
- Adams, Lytle S., to F. L. Poirrier. Radiant heating panel and construction for buildings and the like. 2,932,711, 4-12-60, Cl. 219—19.
- Adams, Marion F., to Inland Container Corp. Fibreboard fork lift containers. 2,937,799, 5-24-60, Cl. 229—14.
- Adams, Max M., to Phillips Petroleum Co. Electronic engine analyzer. 2,941,396, 6-21-60, Cl. 73—35.
- Adams, Milton B.: See—  
Goldberg, Cox, Kautz, and Adams. 2,920,820.
- Adams, Norman C.: See—  
Wilson, Porter C., and Adams. 2,966,356.
- Adams, Orville A. Power operated pipe wrench. 2,933,961, 4-26-60, Cl. 81—53.
- Adams, Paul R.: See—  
Busignies, Henri G., Adams, and Rogoff. 2,927,501.
- Adams, Paul R., B. Alexander, and R. I. Colin, to International Telephone and Telegraph Corp. Aerial navigation indicator. 2,938,204, 5-24-60, Cl. 343—102.
- Adams, Paul R., G. B. Speen, and C. C. Miller, Jr., to International Telephone and Telegraph Corp. Gyroscopes, gyroscope stabilized systems and gas bearings for the same. 2,940,318, 6-14-60, Cl. 74—5.
- Adams, Phillip: See—  
Beinfest, Sidney, Adams, and Halpern. 2,934,559.
- Adams, Ralph G., Jr., and G. A. Phelan, to Bendix Aviation Corp. Generator protective system. 2,934,692, 4-26-60, Cl. 322—28.
- Adams, Raymond C. Display stand base. 2,940,710, 6-14-60, Cl. 248—174.
- Adams, Richard F., to Olin Mathieson Chemical Corp. Apparatus for forming hollow sheet metal panels. 2,949,875, 8-23-60, Cl. 113—44.
- Adams, Richard F., to Olin Mathieson Chemical Corp. Method of making heat exchanger. 2,944,328, 7-12-60, Cl. 29—157.3.
- Adams, Richard W. Cigar holder. 2,956,569, 10-18-60, Cl. 131—187.
- Adams, Robert E., to Gifford-Wood Co. Vibratory driving mechanism for conveyors and the like. 2,922,309, 1-26-60, Cl. 74—61.
- Adams, Robert J.: See—  
Van Atta, Lester C., Adams, and Kelleher. 2,922,160.
- Adams, Robert K. Portable insulated container. 2,927,720, 3-8-60, Cl. 229—14.
- Adams, Robert P., to Minneapolis-Honeywell Regulator Co. Oscillator. 2,935,698, 5-3-60, Cl. 331—113.
- Adams, Robert P., to Minneapolis-Honeywell Regulator Co. Electrical regulating apparatus. 2,964,694, 12-13-60, Cl. 323—7.
- Adams, Robert T.: See—  
Sichak, William, and Adams. 2,924,703.
- Sichak, William, and Adams. 2,951,152.
- Adams, Robert T., to International Telephone and Telegraph Corp. Gyroscope. 2,947,178, 8-2-60, Cl. 74—5.7.
- Adams, Robert T., J. R. B. Ellis, and J. A. Robbers, to California Research Corp. Processes for separating hydroperoxides into phenol and other products. 2,957,921, 10-25-60, Cl. 260—621.
- Adams, Rose: See—  
Adams, Ernest A. 2,966,126.
- Adams, Rowland K., to E. I. du Pont de Nemours and Co. Two-zone mononitration of toluene. 2,947,791, 8-2-60, Cl. 260—645.
- Adams, Roy M.: See—  
Schechter, William H., and Adams. 2,930,743.
- Schechter, William H., Adams, and Huff. 2,938,923.
- Adams, Roy M., and W. H. Schechter, to Callery Chemical Co. Recovery of trimethyl borate from sodium tetramethoxyborate. 2,937,195, 5-17-60, Cl. 260—462.
- Adams, Rudolph R. Conveyor system. 2,945,453, 7-19-60, Cl. 104—172.
- Adams, Thomas D., to Lockheed Aircraft Corp. Inclino-meter. 2,928,183, 3-15-60, Cl. 33—206.
- Adams, Thomas O., to E. W. Bliss Co. Work feed console. 2,934,194, 4-26-60, Cl. 198—19.
- Adams, Wallace C., to Apex Jewelry Co. Earring clamp. 2,947,054, 8-2-60, Cl. 24—248.
- Adams, Warren E., and G. C. Wilder, to Personal Products Corp. Display device. 2,942,831, 6-28-60, Cl. 248—307.
- Adams, Wiley J. Dental prosthetic device. 2,935,791, 5-10-60, Cl. 32—2.
- Adams, William D.: See—  
Null, Fay E., and Adams. 2,955,777.
- Adams, William E. Fish lure placement apparatus. 2,958,976, 11-8-60, Cl. 43—43.12.
- Adams, William L., and T. F. Jones, Jr., to Addressograph-Multigraph Corp. Apparatus for image reproduction. 2,932,690, 4-12-60, Cl. 178—6.6.
- Adamson, Arthur W.: See—  
Russell, Edwin R., Adamson, and Boyd. 2,942,937.
- Adamson, Elmer A., to Chicago Rawhide Mfg. Co. Oil seal loading spring. 2,934,368, 4-26-60, Cl. 288—2.
- Adamson, Elmer A., to Chicago Rawhide Mfg. Co. Oil seal. 2,950,135, 8-23-60, Cl. 288—3.
- Adamson, James D. Acceleration conveyor. 2,959,271, 11-8-60, Cl. 198—110.
- Adamson, Phil A., H. L. Engel, and E. C. Nelson, to Hughes Aircraft Co. Electronic digital computer. 2,936,116, 5-10-60, Cl. 235—165.
- Adamson, Robert M. Latch mechanisms. 2,930,647, 3-29-60, Cl. 292—166.
- Adcock, Kenneth. Tool for roughening walls of bowling ball finger holes. 2,949,064, 8-16-60, Cl. 90—12.
- Adcock, Willis A., and W. C. Lake, to Pan American Petroleum Corp. Process for preparation of carbon disulfide and carbonyl sulfide. 2,935,380, 5-3-60, Cl. 23—203.
- Adcox, Robert A., Jr. Automatic starting device for internal combustion engines. 2,936,348, 5-10-60, Cl. 200—35.
- Addicks, Mentor C. Safety device for car unloading machines. 2,922,624, 1-26-60, Cl. 254—173.
- Addicks, Mentor C. Automatic shoveling machines and the like. 2,924,675, 2-9-60, Cl. 200—5.
- Addie, Albert N., H. A. Williams, Jr., and H. C. Lafferty, to General Motors Corp. Power plant control. 2,949,541, 8-16-60, Cl. 290—40.
- Addie, Albert N., and C. H. Patrie, to General Motors Corp. Pressure compensated flexible pipe. 2,960,354, 11-15-60, Cl. 285—228.
- Addressograph-Multigraph Corp.: See—  
Adams, William L., and Jones. 2,932,690.
- Cheeseman, Leslie H. 2,944,483.
- Colyer, Edwin C., Moe, and Schultz. 2,958,463.
- Colyer, Edwin C., and Schultz. 2,919,779.
- Colyer, Edwin C., and Schultz. 2,951,571.
- Freedson, Joseph. 2,944,649.
- Glogaud, Pierre J. E. 2,925,032.
- Gruver, John H. 2,945,088.
- Gruver, John H. 2,950,341.
- Janke, Edward J. 2,927,528.
- Nau, Wilmer H., and Dorn. 2,932,548.
- Patalon, Francis R. 2,925,029.
- Sallach, Max E. 2,920,310.
- Schwebel, Charles H. 2,951,442.
- Seifried, Lyle W., and Erickson. 2,953,988.
- Van Dusen, Charles H., Jr., and Howe. 2,958,146.
- Adee, Raymond A., to Hesston Mfg. Co., Inc. Differential and transmission mechanism. 2,924,994, 2-16-60, Cl. 74—722.
- Adelaar, Hans H., to International Standard Electric Corp. Automatic starting circuit for electrical pulse distributors. 2,928,939, 3-15-60, Cl. 250—27.
- Adelaar, Hans H., to International Standard Electric Corp. Electrical pulse distributors. 2,960,623, 11-15-60, Cl. 315—84.5.
- Adell, Franklin Z.: See—  
Adell, Robert. 2,929,656.
- Adell, Marvin M.: See—  
Adell, Robert. 2,929,656.
- Adell, Robert. Container for alcoholic beverages. 2,923,404, 2-2-60, Cl. 206—56.
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- Adelman, Barnet R., to Phillips Petroleum Co. Rocket propellant igniter. 2,937,493, 5-24-60, Cl. 60—35.6.
- Adelman, Barnet R., to Phillips Petroleum Co. Molding of propellants. 2,939,176, 6-7-60, Cl. 18—30.
- Adelman, Barnet R., to Phillips Petroleum Co. Rocket grain. 2,939,396, 6-7-60, Cl. 102—98.
- Adelman, Barnet R., and J. D. Burke, to United States of America, Army. Explosive separation device. 2,945,442, 7-19-60, Cl. 102—49.
- Adelphi Research & Mfg. Co.: See—  
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- Ader, Milton, and H. H. Hyman, to United States of America, Atomic Energy Commission. Recovery of americium. 2,934,403, 4-26-60, Cl. 23—14.5.
- Ader, Philmore S., and A. E. Sapp, to Vestaglas, Inc. Window structure. 2,939,185, 6-7-60, Cl. 20—11.
- Adey, Wilfred M.: See—  
Houdry, Eugene J., and Adey. 2,965,583.
- Adey, Wilfred M., to Oxy-Catalyst, Inc. Cooking apparatus. 2,933,080, 4-19-60, Cl. 126—25.
- Adirondack Bowls, Inc.: See—  
Condon, Robert S. 2,939,498.
- Adjustable Anchor Corp.: See—  
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- Mayer, Richard. 2,940,297.
- Adkins, John S. Gyroscope. 2,919,586, 1-5-60, Cl. 74—5.44.
- Adkins, Orel D. Spare tire rack. 2,931,549, 4-5-60, Cl. 224—42.24.



- Adlake Co., The: *See*—  
 Hagerty, Andrew T. 2,926,515.  
 Hagerty, Andrew T. 2,938,247.  
 Kinkaide, Ross B. 2,935,587.
- Adler, Alan D., and W. J. Steele. Atomic units for molecular models. 2,942,357, 6-28-60, Cl. 35-18.
- Adler, Alan D., and W. J. Steele. Atomic units for molecular models. 2,953,860, 9-27-60, Cl. 35-18.
- Adler, Benjamin H. Changeable letter construction. 2,956,360, 10-18-60, Cl. 40-140.
- Adler, Bernard: *See*—  
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- Adler, Charles. Chair seat and back. 2,934,134, 4-26-60, Cl. 155-187.
- Adler, Charles, Jr. Beacon lights. 2,938,192, 5-24-60, Cl. 340-25.
- Adler, Clarence E., to Toledo Scale Corp. Indicator scanning device. 2,938,126, 5-24-60, Cl. 250-219.
- Adler, Clarence E., and G. T. Gray, to Toledo Scale Corp. Printer. 2,922,361, 1-26-60, Cl. 101-95.
- Adler, Harold. Microfilm camera. 2,964,994, 12-20-60, Cl. 88-24.
- Adler, Irwin L., and E. L. Earle, Jr., to General Foods Corp. Process for preparing a decaffeinated soluble coffee extract. 2,933,395, 4-19-60, Cl. 99-71.
- Adler, John. Chair brace. 2,952,306, 9-13-60, Cl. 155-197.
- Adler, Karl G. Dispensing machines. 2,949,993, 8-23-60, Cl. 194-2.
- Adler, Karl G. Machines for dispensing heated comestibles. 2,950,024, 8-23-60, Cl. 221-15.
- Adler, Leon. Liquid-brushing device. 2,926,374, 3-1-60, Cl. 15-140.4.
- Adler, Orville E., to National-Standard Co. Reinforcing wire. 2,939,207, 6-7-60, Cl. 29-195.
- Adler, Ralph M.: *See*—  
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- Adler, Robert, to Zenith Radio Corp. Frequency halving synchronized oscillator. 2,922,119, 1-19-60, Cl. 331-77.
- Adler, Robert, to Zenith Radio Corp. Remote control system. 2,923,918, 2-2-60, Cl. 340-171.
- Adler, Robert, to Zenith Radio Corp. Parametric amplifier modulation expander. 2,959,740, 11-8-60, Cl. 330-5.
- Adler, Robert, to P. G. S. Mero, d.b.a. Electrowriter Co. Simultaneously transmitting and receiving follow-up system and apparatus. 2,965,714, 12-20-60, Cl. 178-18.
- Adler, Robert, to P. G. S. Mero, d.b.a. Electrowriter Co. Follow-up systems and apparatus. 2,965,715, 12-20-60, Cl. 178-20.
- Adler, Simon: *See*—  
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- Admiraal, Daniel J. H., and A. J. V. Van Oordt, to North American Philips Co., Inc. Switching device controllable by a light source. 2,931,944, 4-5-60, Cl. 315-83.
- Admiral Corp.: *See*—  
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 Carlson, Reuben C. 2,926,291.  
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- Adok, S.A.: *See*—  
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- Adolphi, Heinrich: *See*—  
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- Adolphson, Carl: *See*—  
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- Adolphson, Evert W.: *See*—  
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- Adolphson, Roy T.: *See*—  
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- Adox Kamerawerk G.m.b.H.: *See*—  
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- Adrig, Vernon E.: *See*—  
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- Ads Corp.: *See*—  
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- Advance Products Corp.: *See*—  
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- Advance Transformer Co.: *See*—  
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- Advanced Design and Development Co.: *See*—  
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- Advanced Research Associates, Inc.: *See*—  
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- Aebersold, Frederick C., to Chrysler Corp. Eccentric slip friction vibration damping mount. 2,925,973, 2-23-60, Cl. 248-9.
- Aebersold, Frederick C., and F. G. Sullivan, to Chrysler Corp. Eccentric slip friction vibration damping mount. 2,925,974, 2-23-60, Cl. 248-9.
- Aegidius, Paul E. Apparatus for determining the germination capacity of seeds. 2,921,598, 1-19-60, Cl. 137-205.
- Aelony, David, to General Mills, Inc. Non-tacky acid salts of polyamide resins. 2,955,951, 10-11-60, Cl. 106-287.
- Aeon Industries, Inc.: *See*—  
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- Aeppli, Otto T.: *See*—  
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- Aerialmatic Co. Ltd.: *See*—  
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- Aero Supply Mfg. Co. Inc.: *See*—  
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- Aerojet-General Corp.: *See*—  
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- Aerol Co., Inc.: *See*—  
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- Aeronautical Communications Equipment, Inc.: *See*—  
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- Aeroquip Corp.: *See*—  
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- Aerosol Techniques, Inc.: *See*—  
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- Aerosyntronics Corp.: *See*—  
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- Aerotec Industries, Inc.: *See*—  
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- Aerotec Industries, Inc., The: *See*—  
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- Aerovent Fan Co., Inc.: *See*—  
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- Aerovox Corp.: *See*—  
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- Aeschlimann, John A., and A. Stempel, to Hoffman-La Roche Inc. 1-terphenyl-3-arylsulfonylureas. 2,928,871, 3-15-60, Cl. 260-533.



- Aeschlimann, John A., and B. Tabenkin, to Hoffmann-La Roche Inc. Animal feeds, animal feed supplements, and methods. 2,941,884, 6-21-60, Cl. 99-2.
- Aeschmann, Nicholas, to Omega, Louis Brandt & Frere S.A. Timepiece. 2,961,587, 11-22-60, Cl. 318-132.
- Aetna Steel Products Corp.: See—
- Karlstrom, Karl R. M. 2,955,688.
- Afdal, Torbjörn. Fastening device for cupboards, cabinets and similar furniture. 2,931,686, 4-5-60, Cl. 312-245.
- Affelder, Charles J. Audio level governing device. 2,948,860, 8-9-60, Cl. 330-134.
- Affleck, John H., III: See—
- De Santis, Vincent J., and Affleck. 2,945,150.
- Africano, Alfred, and C. W. Chilson, to United States of America, Air Force. Cooling system for a rocket engine. 2,933,888, 4-26-60, Cl. 60-35.6.
- Africano, Alfred, and C. W. Chilson, to United States of America, Air Force. Fuel injection apparatus. 2,962,858, 12-6-60, Cl. 60-35.6.
- Aftandilian, Victor D., to E. I. du Pont de Nemours and Co. Decaborane adducts with pyridines and their preparation. 2,961,444, 11-22-60, Cl. 260-290.
- Aga Steel Radiators of Canada Ltd.: See—
- Persson, Severus. 2,930,591.
- Agar, William O.: See—
- Morgan, Mervyn, and Agar. 2,923,001.
- Agarwal, Jagdish C., to United States Steel Corp. Fluidized-bed reduction of ore. 2,921,848, 1-19-60, Cl. 75-26.
- Agarwal, Jagdish C., F. Kraus, and T. R. Roszkowski; said Agarwal assor. to United States Steel Corp., and said Kraus and Roszkowski, assors. to The Lummus Co. Method and apparatus for handling gases in a direct reduction process. 2,929,703, 3-22-60, Cl. 75-26.
- Agee, Charles T. Combination fire extinguisher, ash tray and refuse receptacle. 2,951,488, 9-8-60, Cl. 131-256.
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- Nisbet, William R., and Agee. 2,928,886.
- Agee, William P., Jr. Key container. 2,931,210, 4-5-60, Cl. 70-456.
- Agency of Industrial Science and Technology, Ministry of International Trade and Industry: See—
- Nagai, Torao. 2,959,738.
- Agens, Maynard C., to General Electric Co. Electrical conductor having an oil-modified polyester resin coating. 2,936,253, 5-10-60, Cl. 117-232.
- Agens, Maynard C., to General Electric Co. Process of stabilizing autocatalytic copper plating solutions. 2,938,805, 5-31-60, Cl. 106-1.
- Agens, Maynard C., to General Electric Co. Photosensitive compositions. 2,949,361, 8-16-60, Cl. 96-115.
- Agfa Aktiengesellschaft: See—
- Biedermann, Friedrich, and Bestenreiner. 2,956,488.
- Coenen, Max, Gotze, Grisar, Riester, Stracke, and Zietan. 2,930,694.
- Engelsmann, Dieter. 2,920,542.
- Frost, Paul. 2,949,070.
- Frost, Paul, and Kaden. 2,948,259.
- Kiper, Gerd. 2,954,099.
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- Lings, Alfred, Biedermann, and Wick. 2,961,921.
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- Prill, Alphons, and Brück. 2,941,901.
- Riester, Oskar. 2,944,896.
- Weyde, Edith, and Berger. 2,937,945.
- Wick, Richard, and Biedermann. 2,933,011.
- Winkler, Alfred, and Kaden. 2,925,022.
- Agfa Camera-Werk Aktiengesellschaft: See—
- Huber, Karl. 2,951,700.
- Aghnides, Elie P. Ash tray with cavity for reception of ashes. 2,919,701, 1-5-60, Cl. 131-235.
- Aghnides, Elie P. Aerated cigarettes. 2,923,647, 2-2-60, Cl. 131-9.
- Aghnides, Elie P. Liquid and gas mixing device. 2,929,567, 3-22-60, Cl. 239-431.
- Aghnides, Elie P. Screen framing structures for fluid mixing devices. 2,950,062, 8-23-60, Cl. 239-431.
- Aghnides, Elie P. Ash tray with cavity for reception of ashes. 2,950,721, 8-30-60, Cl. 131-235.
- Aghnides, Elie P. Aerating devices for producing streams of large cross-section. 2,962,224, 11-29-60, Cl. 239-431.
- Aghnides, Elie P. Aerator with unitary molded inner assembly. 2,962,225, 11-29-60, Cl. 239-431.
- Agie, A.G. für industrielle Elektronik: See—
- Ullmann, Werner. 2,951,142.
- Ullmann, Werner, and Ehrlich. 2,920,180.
- Agius, Peter J. V. J., and P. R. Morris, to Esso Research and Engineering Co. Lubricating oil additives. 2,951,050, 8-30-60, Cl. 260-23.
- Agler, Harry R., to Container Corp. of America. Self locking container with multi-ply wall construction. 2,963,211, 12-6-60, Cl. 229-34.
- Agnello, Eugene J.: See—
- Bloom, Barry M., Agnello, Shull, and Laubach. 2,929,813.
- Agnello, Eugene J., and G. D. Laubach, to Chas. Pfizer & Co., Inc. 21-nitrogen derivatives of corticosteroids. 2,920,999, 1-12-60, Cl. 167-65.
- Agnello, Eugene J., and G. D. Laubach, to Chas. Pfizer & Co., Inc. Process for the preparation of 8(14)-unsaturated-9-alkoxy-11-hydroxy steroid compounds. 2,960,512, 11-15-60, Cl. 260-397.2.
- Agnew, Edward F. Traction device. 2,926,716, 3-1-60, Cl. 152-223.
- Agnew, George H.: See—
- Shelley, James P., and Agnew. 2,964,570.
- Agnew, John G. C.: See—
- Schwartz, Bernard P. M., and Agnew. 2,950,490.
- Agnew, Roland E. Fish lure. 2,940,206, 6-14-60, Cl. 43-42.35.
- Agoliati, Frank, I. L. Kosow, and J. U. Siegel. Cutoff valve. 2,953,154, 9-20-60, Cl. 137-247.13.
- Agrashell, Inc.: See—
- Linhardt, John H. 2,964,070.
- Ägren, Per H. W., and G. L. Flemmert, to AB Nynas-Petroleum. Asphalt compositions. 2,949,378, 8-16-60, Cl. 106-281.
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- Sanders, George S. 2,958,154.
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- Harmos, Ferenc, Förstner, Csapody, Deutsch, and Lukacs. 2,959,393.
- Agron, Albert, and R. A. Clifford. Quick plug disconnect. 2,939,103, 5-31-60, Cl. 339-75.
- Agule, George J., to The Machlett Laboratories, Inc. Getters for electron tubes. 2,939,030, 5-31-60, Cl. 313-178.
- Agulnek, Alvin A.: See—
- Mishcon, Lester, and Agulnek. 2,941,383.
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- Mishcon, Lester, and Agulnek. 2,929,023.
- Ahlburg, Frank. Article counting machine. 2,928,599, 3-15-60, Cl. 235-98.
- Ahlburg, Hayo, and H. Heil, to General Electric Co. Forming patterned phosphor screens in post acceleration cathode ray tubes. 2,947,627, 8-2-60, Cl. 96-45.
- Ahlefeld, Edwin H., Jr., and D. F. Spengler, to Molded Rubber Products Corporation. Machine for making molded bodies. 2,958,095, 11-1-60, Cl. 18-4.
- Ahlen, Karl G., to Svenska Rotor Maskiner Aktiebolag. Hydraulic transmission. 2,931,472, 4-5-60, Cl. 192-3.2.
- Ahlen, Karl G., to Svenska Rotor Maskiner Aktiebolag. Gear arrangement functioning as pump or motor. 2,948,228, 8-9-60, Cl. 103-120.
- Ahlert, Wilhelm, to Electro Thermit G.m.b.H. Method and apparatus for welding. 2,932,863, 4-19-60, Cl. 22-58.
- Ahlgren, Axel W., to Amerock Corp. Operator for opening and closing windows. 2,926,905, 3-1-60, Cl. 268-105.
- Ahlgren, Axel W., to Amerock Corp. Friction device for sliding closure members. 2,932,848, 4-19-60, Cl. 16-138.
- Ahlgren, Axel W., to Amerock Corp. Self-aligning catch. 2,946,612, 7-26-60, Cl. 292-17.
- Ahlgren, Axel W., to Amerock Corp. Sash lock for windows. 2,961,263, 11-22-60, Cl. 292-140.
- Ahlgren, Axel W., to Amerock Corp. Operator for windows with swinging sash. 2,961,266, 11-22-60, Cl. 292-263.
- Ahlgrimm, Charles F.: See—
- Krohn, Gilbert S., Neuhaus, and Ahlgrimm. 2,950,678.
- Krohn, Gilbert S., Neuhaus, and Ahlgrimm. 2,950,679.
- Ahlich, Harold G., and J. L. Amos, to The Dow Chemical Co. Film tube guide. 2,963,742, 12-13-60, Cl. 18-14.
- Ahluquist, Russell W., to The American Hardware Corp. Lock. 2,962,888, 12-6-60, Cl. 70-86.
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- Ahlström, Stig A.: See—
- Larsson, Gösta E., Persson, and Ahlström. 2,921,514.
- Ahonen, Raymond M., to Century Die & Mfg. Co. Metal stretch bending apparatus. 2,944,582, 7-12-60, Cl. 153-40.
- Ahrens, Gerhard W. Pack carburizing with furane derivatives. 2,948,644, 8-9-60, Cl. 148-16.5.
- Ahrns, Wilbur C.: See—
- Blodgett, Edwin O., and Ahrns. 2,945,623.
- Aia, Michael A., and S. M. Poss, to Sylvania Electric Products Inc. Calcium halophosphate phosphors. 2,965,786, 12-20-60, Cl. 313-109.
- Aichelen, Karl, to Logemann Brothers Co. Scrap baling press with bottom discharge. 2,960,927, 11-22-60, Cl. 100-232.
- Aicheler, Marie: See—
- Engesser, Valentine. 2,961,692.
- Aicher, Elwood B. Dryer for lingerie or the like. 2,957,586, 10-25-60, Cl. 211-89.
- Aicher, John O.: See—
- Lemmers, Eugene, and Aicher. 2,950,410.
- Aidn, Martin: See—
- Fischer, Josef, Aidn, Lind, Ruhland, Krautwald, and Helmrich. 2,941,130.
- Aiello, Peter M.: See—
- David, Eric, and Aiello. 2,944,643.
- Aigrain, Pierre, to Compagnie Generale de Telegraphie Sans Fil. Infrared radiation heating elements. 2,961,623, 11-22-60, Cl. 338-269.
- Aiken, Charles B. Scanning system for detecting a radiant object in a field of like radiation. 2,958,080, 10-25-60, Cl. 343-16.
- Aiken, Wade B. Combination shoe holder and cabinet. 2,961,685, 11-29-60, Cl. 15-265.
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- Aiken, William R., to Kaiser Industries Corp. Electronic device. 2,930,930, 3-29-60, Cl. 315-13.
- Aiken, William R., to Kaiser Industries Corp. Electronic device. 2,930,931, 3-29-60, Cl. 315-16.
- Aiken, William R., to Kaiser Industries Corp. Electronic device. 2,937,315, 5-17-60, Cl. 315-27.
- Aiken, William R., to Kaiser Industries Corp. Electronic device. 2,945,974, 7-19-60, Cl. 313-92.
- Aiken, William R., to Ross Radio Corp. Signalling device involving physically movable components. 2,952,835, 9-13-60, Cl. 340-44.
- Aiken, William R., to Kaiser Industries Corp. Electronic selector device. 2,955,231, 10-4-60, Cl. 135-169.
- Aiken, William R., L. A. Shanafelt, and L. J. Cook, to Kaiser Industries Corp. Electronic device cathode ray tubes. 2,928,014, 3-8-60, Cl. 313-78.
- Aikins, Warren A.: *See*—
- Teters, Emily S., Aikins, and Strader. 2,956,546.
- Aikins, William E.: *See*—
- Teters, Emily S., Aikins, and Strader. 2,944,652.
- Aikman, Burton S., to Westinghouse Air Brake Co. Apparatus for preventing sideslip of automotive vehicles. 2,937,719, 5-24-60, Cl. 188-5.
- Aikman, Burton S., to Westinghouse Air Brake Co. Automotive vehicle type brake apparatus with pulsating feature. 2,949,740, 8-23-60, Cl. 60-54.6.
- Ainsworth, Arthur R., D. J. Taylor, and D. J. N. Laurie, to Crompton Parkinson Ltd. Electric arc stud welding. 2,932,725, 4-12-60, Cl. 219-98.
- Ainsworth, Frank W., to Minneapolis-Honeywell Regulator Co. Compensated hydraulic valve. 2,953,162, 9-20-60, Cl. 137-622.
- Ainsworth, Frank W., to Minneapolis-Honeywell Regulator Co. Self-clearing valve. 2,953,163, 9-20-60, Cl. 137-622.
- Ainsworth, Freedom H., to Symington Wayne Corp. Fluid portioning and dispensing apparatus. 2,927,716, 3-8-60, Cl. 222-28.
- Air Associates, Inc.: *See*—
- Ray, Nicolas M. 2,927,767.
- Sereno, Charles A. 2,964,815.
- Aira, Julio S., and A. E. Reed; said Reed assor. to said Aira. Clutch cushion device. 2,964,930, 12-20-60, Cl. 64-27.
- Airborne Accessories Corp.: *See*—
- Rhodes, Walter C., and Kirkham. 2,928,513.
- Sansonetti, Alfred S. 2,921,290.
- Aircraft Armaments, Inc.: *See*—
- Barr, Irwin R. 2,939,395.
- Barr, Irwin R. 2,956,500.
- Barr, Irwin R., Maloney, and Zouck. 2,956,477.
- Barr, Irwin R., and Sweeney. 2,956,481.
- Zahalka, Leland B., Feffer, and Hill. 2,952,848.
- Zouck, Robert L. 2,956,480.
- Aircraft-Marine Products, Inc.: *See*—
- Amigh, Paul M., and Potter. 2,927,150.
- Sitz, Gilbert C. 2,927,295.
- Aircraft Radio Corp.: *See*—
- Haskins, Robert. 2,932,023.
- Aircraft Tools, Inc.: *See*—
- Shoebridge, Harold P., and Leger. 2,956,148.
- Aircushion Patents Corp.: *See*—
- Smith, Arthur W. 2,950,759.
- Air Devices, Inc.: *See*—
- O'Day, Cortland N., and Sweeney. 2,959,116.
- Air-Equipment: *See*—
- Garnier, Georges. 2,940,077.
- Air Factors, Inc.: *See*—
- Lambert, Robert R. 2,940,376.
- Air-Glide, Inc.: *See*—
- Macks, Elmer F. 2,928,960.
- Macks, Elmer F. 2,937,294.
- Air Hydraulics, Inc.: *See*—
- Worden, Lyle D. 2,965,363.
- Airkem, Inc.: *See*—
- Lanzet, Monroe. 2,927,055.
- Ward, Alton J. 2,964,417.
- Wenner, Charles B., and Dello Russo. 2,942,786.
- Wenner, Charles B., and Russo. 2,923,479.
- Wheeler, William H. 2,949,710.
- Air Lift Co.: *See*—
- Pemberton, Don M. 2,921,781.
- Airline Electric, Inc.: *See*—
- Green, James X., and Taylor. 2,934,733.
- Air Master Corp.: *See*—
- Pengelly, Charles P. 2,950,136.
- Air Mite Devices, Inc.: *See*—
- Oros, John J. 2,965,131.
- Airmite-Midwest Inc.: *See*—
- Albon, Dean E., and Barco. 2,923,238.
- Barco, John F., and Albon. 2,920,523.
- Air-O-Matic Power Steer Corp.: *See*—
- Gray, Homer A., and Wichmann. 2,964,119.
- Air Placement Equipment Co.: *See*—
- Pro, George M. 2,949,275.
- Air Preheater Corp., The: *See*—
- Burchfield, Arden L. 2,945,681.
- Lyle, Charles A., and Muller. 2,942,857.
- Muller, Robert H. 2,944,798.
- Vickland, John C. 2,963,279.
- Air Products Inc.: *See*—
- Clarke, Loyal. 2,955,909.
- Cost, Joe L. 2,955,434.
- Gaumer, Lee S., Jr. 2,960,835.
- Lauer, Albert W., Jr. 2,946,223.
- McKinley, Clyde. 2,939,778.
- Schilling, Clarence J. 2,928,278.
- Schilling, Clarence J. 2,932,174.
- Schilling, Clarence J. 2,939,404.
- Schilling, Clarence J. 2,946,200.
- Schilling, Clarence J. 2,947,151.
- Weidner, Clarence B. 2,922,323.
- Air Reduction Co., Inc.: *See*—
- Anderson, Nelson E. 2,921,179.
- Anderson, Nelson E. 2,949,391.
- Anderson, Nelson E. 2,964,681.
- Anderson, Nelson E. 2,966,291.
- Crockett, John M., and Hulme. 2,963,364.
- Burch, Robert J., and Leeds. 2,945,895.
- Buselli, Alio J., and Rutledge. 2,949,480.
- Dennis, Wolcott. 2,962,868.
- Dietrich, Harold A., and Hay. 2,944,545.
- Engel, Ralph D. 2,951,934.
- Fisher, Frank A. 2,932,324.
- Goerg, Walter, Sr. 2,958,941.
- Greene, William J. 2,920,183.
- Hort, Eugene V. 2,955,133.
- Hughey, Howard G. 2,938,577.
- Kelker, David R. 2,943,180.
- Leeds, Morton W., and Tedeschi. 2,921,882.
- Lesnewich, Alexander. 2,929,912.
- Lesnewich, Alexander, and Cushman. 2,932,722.
- Manninen, Thomas H., Lindroos, and Williams. 2,956,091.
- Muller, Albert. 2,955,059.
- Osugi, Tetsuro, Tanabe, and Ohno. 2,960,384.
- Purkhiser, Rawlins E. 2,950,422.
- Rowlands, Daniel C. 2,955,131.
- Rowlands, Daniel C., and Neunherz. 2,959,553.
- Runkel, La Vern E., Berry, and Oaks. 2,938,624.
- Sibley, Craig R., and Lesnewich. 2,932,723.
- Smith, Donald L. 2,964,913.
- Tuthill, Roger W. 2,950,378.
- Tuthill, Roger W. 2,959,666.
- Welch, Alanson U. 2,966,577.
- Wiese, Arthur R., Jr. 2,960,985.
- Airseal Insulation, Inc.: *See*—
- Downey, Richard M., and Jamison. 2,949,698.
- Air-Shields, Inc.: *See*—
- Groscholz, James R. 2,928,664.
- Airtek Dynamics, Inc.: *See*—
- Farrar, Jack R., and Lentz. 2,931,087.
- Airtex Products, Inc.: *See*—
- Ulm, Ralph E., and Ficker. 2,931,311.
- Airtron, Inc.: *See*—
- Anderson, Tore N., and Thompson. 2,930,007.
- Airtronic Inc.: *See*—
- Falconer, David G. 2,960,107.
- Aisenstein, Benjamin W. Seats. 2,965,154, 12-20-60, Cl. 155-53.
- Aitken, William H., L. B. Connor, P. R. Haskell, and P. B. Patteson, to Remington Arms Co., Inc. Apparatus for stunning animals for slaughtering. 2,922,185, 1-26-60, Cl. 17-1.
- Aitkens, Edward B. Menu holder. 2,939,660, 6-7-60, Cl. 248-28.
- Ajax Iron Works: *See*—
- Mueller, Herman G. 2,954,918.
- Ajax Magnethermic Corp.: *See*—
- McLaughlin, James K., and Meredith. 2,939,591.
- Tama, Mario. 2,936,326.
- Tama, Mario. 2,937,789.
- Tama, Mario, and Shearman. 2,959,757.
- Ajax Mfg. Co., The: *See*—
- Ehlert, William A., and Mersek. 2,928,304.
- Ajem Laboratories, Inc.: *See*—
- Evans, Dewey M. 2,926,675.
- Umbrecht, Emil. 2,940,733.
- Umbrecht, Emil, and Evans. 2,926,674.
- Umbrecht, Emil, Evans, and Johnson. 2,925,614.
- Umbrecht, Emil, Steenhagen, and Evans. 2,949,285.
- Ajinomoto Co., Inc.: *See*—
- Katagiri, Hideo, and Tochikura. 2,953,499.
- Ogawa, Tetsuo, and Akashi. 2,940,998.
- Ogawa, Tetsuo, Tsunoda, Aoki, Kinoshita, Okumara, and Kondo. 2,940,903.
- Akai, Saburo, to Roberts Electronics, Inc. Adjustable magnetic erasing head. 2,958,736, 11-1-60, Cl. 179-100.2.
- Akashi Seisakusho, Ltd.: *See*—
- Yamamoto, Akira. 2,932,996.
- Akashi, Takekazu: *See*—
- Ogawa, Tetsuo, and Akashi. 2,940,998.
- Ake, Paige W., and R. O. Garrigus, Sr. Convertible bed and sofa combination. 2,929,076, 3-22-60, Cl. 5-39.
- Aker, Charles M., to Lockheed Aircraft Corp. Video pre-amplifier for a minimum components television camera. 2,930,936, 3-29-60, Cl. 315-341.
- Akers, David, to Columbia Products, Inc. Open end ratchet wrench. 2,937,551, 5-24-60, Cl. 81-179.
- Akers, Victor I. Blackboard assembly. 2,956,350, 10-18-60, Cl. 35-63.

- Akesson, Norman B., to The Regents of the University of California. Compressed air-powered device for fluidizing, metering and distributing dust materials. 2,934,241, 4-26-60, Cl. 222-1.
- Akesson, Sven: *See*—  
Thelander, John, Leijon, Westergren, and Akesson. 2,931,325.
- Akimoto, Saihei. Flexible hinges of book panel boards. 2,964,336, 12-13-60, Cl. 281-29.
- Akins, Frederick L. C. Tile carriage. 2,933,325, 4-19-60, Cl. 280-35.
- Akins, Glen L. Television viewfinder marker signal generators. 2,952,738, 9-13-60, Cl. 178-75.
- Akkeron, Ludwig F., to The Meyercord Co. Heat resistant decalcomania transfer and method of making and using the same. 2,941,916, 6-21-60, Cl. 154-95.
- Akron Brass Mfg. Co., Inc.: *See*—  
Allenbaugh, George G. 2,938,673.  
Brazier, Jack H. 2,953,160.
- Akron Standard Mold Co., The: *See*—  
McKee, James E., and Rehman. 2,940,506.
- Akron Steel Fabricators Co.: *See*—  
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- Akroyd, Philip: *See*—  
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- Akselson, Sigfrid V.: *See*—  
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- Aktiebolaget A. Ekstroms Maskinaffar: *See*—  
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- Aktiebolaget Addo: *See*—  
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- Aktiebolaget Akers Styckebruk: *See*—  
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- Aktiebolaget Anderssons Barkmaskin: *See*—  
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- Aktiebolaget Atvidabergs Butiksinrednigar: *See*—  
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- Aktiebolaget Atvidabergs Industrier: *See*—  
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Axelsson, Sten S. 2,955,588.  
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- Aktiebolaget Bofors: *See*—  
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Bergstrom, Lars O., and Persson. 2,940,390.  
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- Aktiebolaget Bolinder-Munktel: *See*—  
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- Aktiebolaget Bygg-Och Transportekonomi: *See*—  
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- Aktiebolaget Defibrator: *See*—  
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- Aktiebolaget Electrolux: *See*—  
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Hellstrom, Gosta L. 2,960,715.  
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Lindgren, Nils K. 2,943,253.  
Nilsson, Bengt E. 2,946,071.  
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- Aktiebolaget Flygts Pampar: *See*—  
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- Aktiebolaget Harbor: *See*—  
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- Aktiebolaget Husqvarna Borsfabrik: *See*—  
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- Aktiebolaget Inventing: *See*—  
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- Aktiebolaget Kamy: *See*—  
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- Aktiebolaget Kanthal: *See*—  
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- Aktiebolaget Karlstad Mekaniska Werkstad: *See*—  
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- Aktiebolaget Landsverk: *See*—  
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- Aktiebolaget Leo: *See*—  
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- Aktiebolaget Leo (A/B Leo): *See*—  
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- Aktiebolaget Linde Maskiner: *See*—  
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- Aktiebolaget Linderöths Patenter: *See*—  
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- Aktiebolaget Manus: *See*—  
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- Aktiebolaget Nordstrandsventilen: *See*—  
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- Aktiebolaget Overums Bruk: *See*—  
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- Aktiebolaget Pluria: *See*—  
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- Aktiebolaget Recip: *See*—  
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- Aktiebolaget Rosenblads Patenter: *See*—  
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- Aktiebolaget Separator: *See*—  
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Ohlsson, Bengt-Åke. 2,958,497.  
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- Aktiebolaget Skoglund & Olson: *See*—  
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- Aktiebolaget Svenska Flakfabriken: *See*—  
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- Aktiebolaget Svenska Järnvägsverkstadsarna: *See*—  
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- Aktiebolaget Svenska Kullagerfabriken: *See*—  
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- Aktiebolaget Svenska Metallverken: *See*—  
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- Aktiebolaget Svenska Precisionsverktyg: *See*—  
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- Aktiebolaget Valida Maskiner: *See*—  
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- Aktiebolaget Volvo: *See*—  
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- Aktiengesellschaft Brown, Boveri & Cie: *See*—  
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Lang, Andre, and Zantop. 2,933,635.  
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- Aktiengesellschaft der von Moos'schen Eisenwerke: *See*—  
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- Aktiengesellschaft für Unternehmungen: *See*—  
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- Aktien-Gesellschaft "Weser": *See*—  
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- Aktieselskabet Burmeister & Wain's Maskin-Og Skibshyggeri: *See*—  
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- Aktieselskabet Nakskov Skibsværft: *See*—  
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- Aktieselskabet Niro Atomizer: *See*—  
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- Aktieselskabet Thomas Ths. Sabroe & Co.: *See*—  
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- Alabama Pipe Co.: *See*—  
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- Aladdin Industries, Inc.: *See*—  
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- Aladdin Mfg. Co.: *See*—  
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- Alafouzou, Stavros. Machining apparatus. 2,964,978, 12-20-60, Cl. 77-2.
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- Alar Products, Inc.: *See*—  
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- Alba Hosiery Mills, Inc.: *See*—  
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- Albanese, Augustino: *See*—  
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- Albanese, Damian F., to International Telephone and Telegraph Corp. Time position modulator using non-linear saturable element. 2,928,054, 3-8-60, Cl. 332-12.
- Albanese Victor J., to Bogart Mfg. Corp. Coaxial T hybrid. 2,946,965, 7-26-60, Cl. 333-11.
- Albano, Alphonso F. Aerial sprinkler. 2,954,932, 10-4-60, Cl. 239-188.
- Albee, William H., to J. G. Holland. Apparatus for conveying a liquid or other fluid. 2,952,468, 9-13-60, Cl. 280-5.
- Albers, Arnold, and E. Voss, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Brightening and stabilizing the color of metal salts of naphthene- and ethylhexanic acids and their solutions. 2,957,778, 10-25-60, Cl. 106-310.
- Albers, H. Michael: *See*—  
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- Albers, Heinrich B., to Baldwin-Lima-Hamilton Corp. Apparatus for forging crankshafts. 2,959,840, 11-15-60, Cl. 29-6.
- Albers, Heinrich B., G. P. Krause, F. T. Morrison, and G. Gerard, to Baldwin-Lima-Hamilton Corp. Extrusion press for elongated cross-sections. 2,960,221, 11-15-60, Cl. 207-2.
- Albers, Teunis. Automatic feeding system. 2,921,670, 1-19-60, Cl. 198-213.
- Albert, Charles G., to Minerals & Chemicals Corp. of America. Toxicant carrier. 2,941,923, 6-21-60, Cl. 167-42.
- Albert, Charles G., and J. R. Wilcox, to Minerals & Chemicals Corp. of America. Surface modified kaolin clay. 2,948,632, 8-9-60, Cl. 106-308.
- Albert, Edmond J., to Sanders Associates, Inc. Modular, ceramic, electron-discharge tube. 2,950,412, 8-23-60, Cl. 313-250.
- Albert, Hans: *See*—  
Kracker, Herbert, and Albert. 2,950,275.  
Kracker, Herbert, and Albert. 2,961,436.  
Kracker, Herbert, Albert, and Staab. 2,937,166.
- Albert, Harry E., to The Firestone Tire & Rubber Co. Condensation products of aldehydes and N,N'-dialkyl phenylenediamines and their use in rubber. 2,929,797, 3-22-60, Cl. 260-45.9.
- Albert, Harry E., to The Firestone Tire & Rubber Co. Reaction products of dialkyl thioureas and disubstituted phenylenediamines as antiozonants. 2,956,981, 10-18-60, Cl. 260-45.9.
- Albert, Samuel. Safety wedge pin. 2,953,109, 9-20-60, Cl. 113-111.
- Albert, Talbot J., and R. Pfanstiel, to United States of America, War. Composition for the destruction of mustard gas. 2,927,037, 3-1-60, Cl. 106-285.
- Alberti, Alberto: *See*—  
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- Alberti, Carlo G., A. Vercellone, A. Di Marco, and M. Ghione, to Societa Farmaceutici Italia. Ortho-hydroxy-N-beta-morpholino-propionophenone fungicides. 2,945,034, 7-12-60, Cl. 260-247.7.
- Alberti, Carlo G., L. Bernardi, G. Larini, and A. Vercellone, to Societa Farmaceutici Italia. Process for converting optically active aminodiols into racemic aminodiols by oxidation followed by racemization. 2,945,883, 7-19-60, Cl. 260-562.
- Alberti, Rudolf. Method for neutralizing obnoxious radiation. 2,961,399, 11-22-60, Cl. 210-24.
- Alberti, Rudolf, H. Gotting, and R. J. L. Sigmund, to R. Alberti. Standard radiation-resistant building block. 2,932,745, 4-12-60, Cl. 250-108.
- Alberti Seafoods Co.: *See*—  
Grandy, Robert M. 2,920,968.
- Albertoli, Gilbert P.: *See*—  
Albertoli, John and G. P. 2,937,738.
- Albertoli, John and G. P. Can orienting apparatus. 2,937,738, 5-24-60, Cl. 198-33.
- Alberts, Cecil D. Educational device. 2,933,827, 4-26-60, Cl. 35-8.
- Albertsen, Hans C.: *See*—  
Lawlor, Joseph P., and Albertsen. 2,926,856.
- Albertson, Victor N., R. E. Paulson, and F. C. Nielsen. Grass trimmer with fluid motor. 2,924,929, 2-16-60, Cl. 56-25.4.
- Albiach, Vincent. Ship construction. 2,937,607, 5-24-60, Cl. 114-79.
- Albani, Lido, to Morton Salt Co. Dispensing closure. 2,940,645, 6-14-60, Cl. 222-480.
- Albin, Jacques, to Societe d'Electronique et d'Automatisme. Transfer circuits for electric signals. 2,956,266, 10-11-60, Cl. 340-174.
- Albinson, Don: *See*—  
Eames, Charles, Albinson, and Bauer. 2,956,618.
- Albiswerk Zurich A.G.: *See*—  
Bolay, Errol. 2,946,255.  
Bruhin, Joseph. 2,945,975.  
Klauser, Hans. 2,945,229.  
Reinhard, Louis, and Klauser. 2,931,035.  
Reinhard, Louis, and Klauser. 2,936,452.  
Spinnler, Wilhelm, Bruhin, Scharli, Huber, and Linder. 2,946,910.
- Albon, Dean E.: *See*—  
Barco, John F., and Albon. 2,920,523.
- Albon, Dean E., and J. F. Barco, to Airmite-Midwest Inc. Spacer primer cartridge for ammonium nitrate. 2,923,238, 2-2-60, Cl. 102-22.
- Albratros Superfosfaatfabrieken N.V.: *See*—  
Waller, Arnold. 2,923,517.
- Albrecht, Alexander J.: *See*—  
Huck, William F., Albrecht, and Sanford. 2,941,802.  
Huck, William F., Albrecht, and Sanford. 2,946,591.  
Huck, William F., Albrecht, and Sanford. 2,949,300.
- Albrecht, Alexander J., to Brunswick Automatic Pinsetter Corp. Bowling pin handling mechanism. 2,930,617, 3-29-60, Cl. 273-43.
- Albrecht, Clifford C., and D. K. Yankee, to Novelty Tool Co., Inc. Power actuated C-ring clenching tool. 2,921,315, 1-19-60, Cl. 1-187.
- Albrecht, George F.: *See*—  
Ladd, Lawrence R. 2,926,484.
- Albrecht, Herbert R., and E. H. Bayley, to MacMillan and Bloedel Ltd. Veneer sheet split closing apparatus. 2,928,455, 3-15-60, Cl. 154-1.
- Albrecht, Hermann F., to Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate. Supplementary lens structure for twin lens cameras. 2,926,577, 3-1-60, Cl. 95-44.
- Albrecht, Manfred: *See*—  
Stark, Ernst, Albrecht, and Keicher. 2,953,542.
- Albrecht Mfg. Co.: *See*—  
Ladd, Lawrence R. 2,926,484.
- Albrecht, Otto: *See*—  
Hiestand, Armin, and Albrecht. 2,927,090.
- Albrecht, Otto, to Ciba Ltd. Polyglycol ether derivatives. 2,963,513, 12-6-60, Cl. 260-584.
- Albrecht, Otto, and A. Hiestand, to Ciba Ltd. Condensation products of dicyandiamide, a salt of ethylene diamine, and formaldehyde. 2,934,523, 4-26-60, Cl. 260-70.
- Albrecht, Otto, A. Berger, and A. Maeder, to Ciba Ltd. Process for producing antistatic dressings on synthetic fibers. 2,965,517, 12-20-60, Cl. 117-138.8.
- Albrecht, Sadie E.: *See*—  
Ladd, Lawrence R. 2,926,484.
- Albright, Chester A. Ferrule puller. 2,951,282, 9-6-60, Cl. 29-259.
- Albright, Denton M.: *See*—  
Thompson, William E., Albright, and Stuart. 2,950,267.
- Albright, Denton M., and R. W. Shinn, to Sun Oil Co. Removal of residual catalyst from polyolefins. 2,935,499, 5-3-60, Cl. 260-93.7.
- Albright, Franklin C., to Bendix Aviation Corp. Wheel and brake assembly for aircraft landing gear. 2,925,889, 2-23-60, Cl. 188-18.
- Albright, Harry E., to General Electric Co. Recorder. 2,950,164, 8-23-60, Cl. 346-140.
- Albright, Henry J.: *See*—  
Stoner, Harry B., and Albright. 2,934,192.
- Albright, John D., to United States of America, Navy. Automatic frequency stabilizing system. 2,922,118, 1-19-60, Cl. 331-17.
- Albright, John R., to Roper Hydraulics, Inc. Pump control system. 2,928,243, 3-15-60, Cl. 60-52.



- Albright, Robert B., E. J. Michonski, and F. Richardson, to Philco Corp. Transducers. 2,944,119, 7-5-60, Cl. 179-111.
- Albright, Roy H., to I-T-E Circuit Breaker Co. High voltage bus structure. 2,944,101, 7-5-60, Cl. 174-99.
- Albright, Roy H., to I-T-E Circuit Breaker Co. Disconnect switch for a high voltage bus structure. 2,959,657, 11-8-60, Cl. 200-163.
- Albright & Wilson (Mfg.) Ltd.: See—  
Coates, Harold. 2,963,451.
- Alcamo, John H. Surgeons' pre-operating scrubbing machine. 2,952,859, 9-20-60, Cl. 15-21.
- Alcamo, John H. Scrubbing brush for surgeons. 2,961,672, 11-29-60, Cl. 15-21.
- Alcar Instruments, Inc.: See—  
Carlin, Benson. 2,922,999.  
Carlin, Benson. 2,932,189.  
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- Alco Oil & Chemical Corp.: See—  
Coe, Bernard. 2,961,799.  
Hager, Onslow B., and Coe. 2,932,671.
- Alco Products, Incorporated: See—  
Kopp, Sigmund, and Denton. 2,922,404.  
Mahoney, William A. 2,937,890.  
Margulis, Waldo, and Silvey. 2,937,595.  
Nichols, William M. 2,959,360.  
Senft, Harvey E. 2,937,574.
- Alco Valve Co.: See—  
Wieggers, Irvin E. 2,933,107.
- Alcock, Wyndar G., and H. H. Christensen. Device for packing bulk products. 2,940,237, 6-14-60, Cl. 53-384.
- Alcoriza, Sofronio B. Scraper unit for implement wheels. 2,937,883, 5-24-60, Cl. 280-158.
- Aldan Sundries, Inc.: See—  
Widoff, Albert, and Powers. 2,957,480.
- Aldecoa, Julio A. to International Minerals & Chemical Corp. Filling apparatus. 2,951,618, 9-6-60, Cl. 222-70.
- Alden, Carroll R., to Ex-Cell-O Corp. Liquid dispensing container and blank therefor. 2,925,948, 2-23-60, Cl. 229-17.
- Alden, John H.: See—  
Kenlock, Albert A. H., and Alden. 2,959,239.
- Alden, John P.: See—  
Kimmel, Norman A., and Alden. 2,952,972.
- Alden, John, Sr. Portable high-chair attachment for chairs. 2,919,748, 1-5-60, Cl. 155-189.
- Alden, Lorne B., and F. P. Holloway, to Union Carbide Corp. Improved method for pressure baking of carbon articles. 2,965,931, 12-27-60, Cl. 18-47.5.
- Alden, Milton. Flexible support for recorder scanning element. 2,962,340, 11-29-60, Cl. 346-101.
- Alden Products Co.: See—  
Cross, Edward D. 2,922,686.  
Fricks, Richard E. 2,962,549.
- Aldinger, Ulrich: See—  
Bosch, Robert, Aldinger, and Volk. 2,943,614.  
Voit, Willy, and Aldinger. 2,935,061.  
Walch, Eugen, and Aldinger. 2,950,681.
- Aldinger, Ulrich, to Robert Bosch, G.m.b.H. Injection pump. 2,928,352, 3-15-60, Cl. 103-37.
- Aldinger, Ulrich, and J. Heiser, to Robert Bosch, G.m.b.H. Injection pumps. 2,935,062, 5-3-60, Cl. 123-139.
- Aldinger, Ulrich, H. Stoll, and W. Wucherpfennig, to Robert Bosch G.m.b.H. Fuel supply system for multi-cylinder internal combustion engines. 2,937,636, 5-24-60, Cl. 123-139.
- Aldinger, Ulrich, and K. Paule, to Firma Robert Bosch G.m.b.H. Fuel injection control device. 2,941,524, 6-21-60, Cl. 123-139.
- Aldinger, Ulrich, and W. Voit, to Robert Bosch, G.m.b.H. Flow control for injection pumps. 2,961,004, 11-22-60, Cl. 137-624.13.
- Aldington, Elmer T., to American Can Co. Snug fitting container closure. 2,922,563, 1-26-60, Cl. 229-43.
- Aldous, George C., to Westinghouse Electric Corp. Electric heating apparatus. 2,943,178, 6-28-60, Cl. 219-37.
- Aldrich, Clare A., and J. P. Jacob, to United Aircraft Products, Inc. Heat absorbing unit using solid material of high specific heat. 2,943,714, 7-5-60, Cl. 188-264.
- Aldrich, Clare A., and J. P. Jacob, to United Aircraft Products, Inc. Capacitance system of heat transfer. 2,943,715, 7-5-60, Cl. 188-264.
- Aldrich, David E.: See—  
Conyers, John R., Aldrich, and Sutton. 2,940,256.
- Aldrich, David E., and A. P. Bignon, to North American Aviation, Inc. Rocket engine feed system. 2,949,007, 8-16-60, Cl. 60-35.6.
- Aldrich Machine Works: See—  
Henry, Nelson B. 2,959,863.
- Aldrich, Richard W., and J. J. Suran, to General Electric Co. Digital to analogue converter. 2,937,289, 5-17-60, Cl. 307-88.5.
- Aldridge, Claude C. Ashtray. 2,959,317, 11-8-60, Cl. 220-4.
- Aldridge, Clyde L.: See—  
Neal, Arthur H., Mertzweiller, Ross, and Aldridge. 2,952,698.
- Aldridge, Clyde L., and E. M. Charlet, to Esso Research and Engineering Co. Emulsifiers from hydrocarbon polymer, maleic anhydride, and polyalkylene oxide glycol, emulsion containing same and methods for making thereof. 2,933,468, 4-19-60, Cl. 260-29.7.
- Aldridge, Clyde L., and N. L. Cull, to Esso Research and Engineering Co. Preparation of high molecular weight alcohols. 2,942,034, 6-21-60, Cl. 260-638.
- Aldridge, Clyde L., and R. D. Gilliom, to Esso Research and Engineering Co. Method of the cross-linking polymers. 2,962,479, 11-29-60, Cl. 260-73.
- Aldridge, Clyde L., and N. L. Cull, to Esso Research and Engineering Co. Ester synthesis. 2,963,499, 12-6-60, Cl. 260-410.9.
- Aldrin, Henry W., to Aktiebolaget Bofors. Ramming device for ramming a round of ammunition into a gun barrel. 2,933,982, 4-26-60, Cl. 89-47.
- Aldrin, Henry W., to Aktiebolaget Bofors. Device for balancing the elevating mass of a recoiling gun. 2,960,010, 11-15-60, Cl. 89-37.
- Alesi, John A. Plastic metering and dispensing apparatus. 2,933,763, 4-26-60, Cl. 18-30.
- Aleskin, Samuel. Fishing rod holder. 2,934,298, 4-26-60, Cl. 248-39.
- Alessandrini, Maria E., and F. Palazzo, 1/2 to Fondazione Emanuele Paterno. Olive oil refining process. 2,937,193, 5-17-60, Cl. 260-423.
- Alessio, Sergio: See—  
Tellefsen, Harold E., White, and Alessio. 2,931,018.
- Alex Mfg. Corp.: See—  
Feibush, Alexander. 2,921,440.
- Alexander, Arthur D. Multiple pulse communication system. 2,926,216, 2-23-60, Cl. 178-23.
- Alexander, Arthur W.: See—  
Schneider, Paul L., and Alexander. 2,939,964.
- Alexander, Barrett N.: See—  
Plate, John R., and Alexander. 2,926,734.
- Alexander, Ben: See—  
Adams, Paul R., Alexander, and Colin. 2,938,204.
- Alexander, Charles F., Jr., to Kiekhaefer Corp. Propeller hub exhaust system. 2,948,252, 8-9-60, Cl. 115-17.
- Alexander, Charles H., to United States Rubber Co. Preparation of dialkyl phenyl phosphonates. 2,945,052, 7-12-60, Cl. 260-461.
- Alexander, David J.: See—  
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- Alexander Doll Co., Inc.: See—  
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Feibush, Alexander. 2,958,335.
- Alexander, Douglas S.: See—  
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- Alexander, Douglas S., and J. Firko, to Polymer Corp. Ltd. Catalytic dehydrogenation of hydrocarbons. 2,945,900, 7-19-60, Cl. 260-669.
- Alexander, Elisha E. Gate-actuated operating mechanism for trucking sills. 2,924,859, 2-16-60, Cl. 20-19.
- Alexander, F.: See—  
Chauvineau, Jean E. 2,953,721.  
Legeay, Andre C., and Chauvineau. 2,940,014.
- Alexander, Ford I. Well pipe wash-over and clean-out tool. 2,929,452, 3-22-60, Cl. 166-103.
- Alexander, Frank M., to Industrial Nucleonics Corp. Measuring and controlling system. 2,922,475, 1-26-60, Cl. 162-252.
- Alexander, George, to General Electric Co. Heat-resistant resins and laminates. 2,936,260, 5-10-60, Cl. 154-128.
- Alexander, George O., to Kaiser Aluminum & Chemical Corp. Apparatus for cleaning rolls. 2,953,952, 9-27-60, Cl. 80-1.
- Alexander, Granison T., Jr., and L. Q. Gresham, to Gem Oil Tool Co., Inc. Rotary well bore cleaner. 2,945,540, 7-19-60, Cl. 166-173.
- Alexander, Guy B., to E. I. du Pont de Nemours and Co. Silica organosols. 2,921,913, 1-19-60, Cl. 252-309.
- Alexander, Guy B., R. K. Iler, and G. W. Sears, to E. I. du Pont de Nemours and Co. Potassium silicate solutions and their preparation. 2,933,371, 4-19-60, Cl. 23-110.
- Alexander, Guy B., P. C. Yates, and S. F. West, to E. I. du Pont de Nemours and Co. Reinforced heat resistant refractory-metal alloys. 2,949,358, 8-16-60, Cl. 75-176.
- Alexander, Harold M., and J. D. Gwyn, to Libbey-Owens-Ford Glass Co. Method of bending and cutting sheets of glass or like materials. 2,932,129, 4-12-60, Cl. 49-79.
- Alexander, Herbert C., to Bomac Laboratories Inc. Resonant window assembly. 2,957,148, 10-18-60, Cl. 333-98.
- Alexander, Herbert C., and H. Heins, to Bomac Laboratories Inc. Fluid cooled energy transmission control device. 2,947,956, 8-2-60, Cl. 333-98.
- Alexander, Herbert C., and C. J. Buckley, to Bomac Laboratories Inc. Gaseous discharge device. 2,965,787, 12-20-60, Cl. 313-174.
- Alexander, J. Reed: See—  
Kotlar, Edward A. 2,966,171.
- Alexander, James H., A. W. Burks, and D. A. Flanders, to United States of America, Atomic Energy Commission. Arithmetic unit for digital computer. 2,936,115, 5-10-60, Cl. 235-164.
- Alexander, James W.: See—  
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- Alexander, Jeanne E.: See—  
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- Alexander, John C.: See—  
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- Alexander, Marcel R.: See—  
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- Alexander, Nelson E.: *See*—  
Appel, Arthur V., Betz, Fisher, Fochtman, Katz, Lieberman, Alexander, Murphy, Maxwell, and Lewis. 2,920,525.
- Alexander, Nelson E., to United States of America, Army. Measurement and recording of changes in electrical resistance over a very wide range of resistance values as applied to the measurement of relative humidity through the use of a ceramic sensing element. 2,936,415, 5-10-60, Cl. 324-62.
- Alexander, Nelson E., to United States of America, Army. Membrane filter holder. 2,966,234, 12-27-60, Cl. 183-44.
- Alexander, Nelson E., W. H. Thompson, and F. X. McNally. Spherical anemometer. 2,959,052, 11-8-60, Cl. 73-189.
- Alexander, Paul, to Continental Can Co., Inc. Vaporizing heater for vacuum deposition and method of employing the same. 2,962,538, 11-29-60, Cl. 13-25.
- Alexander, Paul, to Continental Can Co., Inc. Chamber sealing apparatus for web materials. 2,963,001, 12-6-60, Cl. 118-49.
- Alexander, Peter P., to Metal Hydrides Inc. Preparation of titanium nitride of high purity. 2,926,071, 2-23-60, Cl. 23-191.
- Alexander, Phil E.: *See*—  
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- Alexander, Robert C.: *See*—  
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- Alexander, Robert H., to Sylvania Electric Products Inc. Injection instrument. 2,944,549, 7-12-60, Cl. 128-216.
- Alexander, Samuel S.: *See*—  
McRae, Wayne A., and Alexander. 2,962,454.
- Alexander, Thomas E. Float shoe. 2,931,439, 4-5-60, Cl. 166-225.
- Alexander, Walter C., R. P. Wanger, and L. Nordwald, to General Electric Co. Variable stator engine control system. 2,931,168, 4-5-60, Cl. 60-35-6.
- Alexandersson, Harald V., to Telefonaktiebolaget L M Ericson. Contact spring set. 2,965,739, 12-20-60, Cl. 200-166.
- Alexandrescu, Alexander M. Rotary turbine type fluid coupling. 2,952,976, 9-20-60, Cl. 60-54.
- Alexandroff, Sergei D. Piston assembly. 2,947,583, 8-2-60, Cl. 309-10.
- Alexandroff, Sergei D. Bearing. 2,958,563, 11-1-60, Cl. 308-26.
- Alf, Alfred L., and C. E. Taylor, to The Anaconda Co. Process for germanium recovery. 2,929,677, 3-22-60, Cl. 23-18.
- Alfano, Gustave. Guide and holder for flat, perforated garden hose. 2,954,194, 9-27-60, Cl. 248-75.
- Alfaya, Raymond, and P. B. Roll. Apparatus for transformation from contours into profiles. 2,965,432, 12-20-60, Cl. 346-35.
- Alfers, John B.: *See*—  
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- Alfieri, Giuseppe, to Fabbrica Italiana Magnetici Marelli S.p.A. Braking twin-members for pneumatic braking installations. 2,962,000, 11-29-60, Cl. 121-38.
- Alfieri, Giuseppe, to Fabbrica Italiana Magnetici Marelli. Control device for distributors having a number of sections. 2,964,360, 12-13-60, Cl. 303-53.
- Alfieri, Giuseppe, to Fabbrica Italiana Magnetici Marelli S.p.A. Fluid motor actuator. 2,965,073, 12-20-60, Cl. 121-38.
- Alford, Andrew: *See*—  
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- Rubin, Richard, and Wilde. 2,958,722.
- Alford, Andrew. Hybrid type network. 2,950,449, 8-23-60, Cl. 333-11.
- Alford, Andrew. Electromagnetic heating unit. 2,959,659, 11-8-60, Cl. 219-10-55.
- Alford, Edward L., and A. D. Benning, to Bell Telephone Laboratories, Inc. Combination step and extension ladder. 2,919,762, 1-5-60, Cl. 182-22.
- Alford, Harvey E.: *See*—  
Bartleson, John D., and Alford. 2,955,084.
- Hughes, Everett C., and Alford. 2,964,473.
- Alford, Harvey E., to The Standard Oil Co. Lubricating oil composition having high dispersancy. 2,959,545, 11-8-60, Cl. 252-33-2.
- Alford, Harvey E., to The Standard Oil Co. Lubricating oil resistant to cold sludge formation. 2,964,474, 12-13-60, Cl. 252-18.
- Alford, Joe B. Kite reel. 2,961,184, 11-22-60, Cl. 242-96.
- Alford, Joseph S.: *See*—  
Mason, Harvey W., and Alford. 2,957,675.
- Alford, Maitland W., and A. R. Brearley, to British Celanese Ltd. Laminates. 2,949,393, 8-16-60, Cl. 154-46.
- Alford, Richard L. Stirrup for textile loom. 2,919,722, 1-5-60, Cl. 139-88.
- Alfrey, Henry F., and R. K. Engholm, to Erie Mfg. Co. Gas control. 2,966,162, 12-27-60, Cl. 137-66.
- Alfven, Hannes O. G. High frequency electron tube device. 2,924,741, 2-9-60, Cl. 315-5-26.
- Alfven, Hannes O. G., and G. D. R. Romell, to Telefonaktiebolaget L M Ericsson. Electron tubes of the multi reflexion type. 2,928,992, 3-15-60, Cl. 313-157.
- Algatt, George E., and K. A. Schmuldt, to Western Electric Co., Inc. Machine for manufacturing pin electrodes. 2,956,332, 10-18-60, Cl. 29-25-3.
- Algeir, Allen P.: *See*—  
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- Algemene Kunstzijde Unie N.V.: *See*—  
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- Alger, Jerry T.: *See*—  
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- Alger, Jerry T., to Configured Tube Products Co. Flame divider. 2,959,216, 11-8-60, Cl. 158-113.
- Alger, Jerry T., to Configured Tube Products Co. Flame deflectors. 2,965,166, 12-20-60, Cl. 158-113.
- Alger, Philip L., to General Electric Co. Intermediate ring squirrel cage rotor. 2,944,171, 7-5-60, Cl. 810-211.
- Alger, Milton W., E. M. Taylor, and T. H. Alger. Cardboard berry box. 2,921,729, 1-19-60, Cl. 229-23.
- Alger, Thomas H.: *See*—  
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- Algie, Harry D. Control of differential mechanisms. 2,934,975, 5-3-60, Cl. 74-650.
- Alginat Industries Ltd.: *See*—  
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- Merton, Robert R., and McDowell. 2,930,701.
- Algino, Joseph M.: *See*—  
Eskin, Samuel G., and Algino. 2,966,062.
- Algino, Joseph M., and E. E. Modes, to The Dole Valve Co. Hydraulically adjustable thermostatic valve. 2,950,055, 8-23-60, Cl. 236-12.
- Alholm, Wayne I., J. R. Campbell, A. B. Foye, A. J. Lynn, and D. L. Shanklin, to W. R. Grace & Co. Gasket applying machine. 2,964,246, 12-13-60, Cl. 239-227.
- Alig, Georges, and R. J. Filipkowski, to Alig Terra-Marina Equipment Ltd. Buoyant traction vehicle. 2,930,439, 3-29-60, Cl. 180-49.
- Alig Terra-Marina Equipment Ltd.: *See*—  
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- Alimanestiano, Constantin. Parking device. 2,936,082, 5-10-60, Cl. 214-16-1.
- Alimanestiano, Mihai and S., to Speed-Park, Inc. Control system for parking garages. 2,936,057, 5-10-60, Cl. 194-9.
- Alimanestiano, Serban: *See*—  
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- Alinari, Carlo, to E. Rolandi. Fishing reel. 2,942,798, 6-28-60, Cl. 242-84-2.
- Alink, Roelof J. H.: *See*—  
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- Jonker, Hendrik, Alink, and van Rijssel. 2,952,538.
- Alio, Peter, and A. S. Oakman, to Allied Control Co., Inc. Toggle switch. 2,961,505, 11-22-60, Cl. 200-67.
- Alium, S.A., societe anonyme: *See*—  
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- Alizon, Etienne, to Compagnie Industrielle des Telephones. Translating device for telegraph system comprising a two-wire line used for both directions of transmission. 2,941,034, 6-14-60, Cl. 178-71.
- Alizon, Etienne, to Compagnie Industrielle des Telephones. Magnetostatic relay. 2,954,482, 9-27-60, Cl. 307-88.
- Alizon, Etienne, and C. Monin, to Compagnie Industrielle des Telephones. Electromagnetic device. 2,939,068, 5-31-60, Cl. 321-25.
- Alizon, Etienne, and C. Monin, to Compagnie Industrielle des Telephones. Magnetostatic relays. 2,946,896, 7-26-60, Cl. 307-88.
- Alizon, Etienne, and C. Vazquez, to Compagnie Industrielle des Telephones. Device for scanning perforated tapes. 2,954,434, 9-27-60, Cl. 178-42.
- All-Ace, Inc.: *See*—  
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- Allaire, Frank B., to Cameron Iron Works, Inc. Multiple zone well completion. 2,934,148, 4-26-60, Cl. 166-75.
- Allais, Andre: *See*—  
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- Allais, Andre, and C. Hoffmann, to Les Laboratoires Francais de Chimiotherapie. Steroidal trans-hexahydroterephthalate esters. 2,959,601, 11-8-60, Cl. 260-397-4.
- All America Cables and Radio Inc.: *See*—  
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- All American Engineering Co.: *See*—  
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- Ballard, Raymond M., Daniels, Doolittle, and Haber. 2,936,977.
- Cotton, Robert B., and Doolittle. 2,939,310.
- Doolittle, Donald B., and Haber. 2,948,291.
- Sorensen, Kresten T. 2,919,871.
- Allan, Charles R., 1/2 to W. N. Davis. Machine and method for producing prefabricated material of cellular construction. 2,938,567, 5-31-60, Cl. 154-30.
- Allan, Lawrence H.: *See*—  
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- Allan, Norman A., to Mann Edge Tool Co. Fishing gaffs. 2,930,648, 3-29-60, Cl. 294-26.
- Allan, Robert E., to General Motors Corp. Drill fixture. 2,946,246, 7-26-60, Cl. 77-62.
- Allan, Walter E., to The Anaconda American Brass Co. Method of manufacturing contact pins for subminiature electronic tubes. 2,965,965, 12-27-60, Cl. 29-553.
- Allan, William G., to Imperial Chemical Industries Ltd. Production of 2:4-dinitroresorcinol. 2,945,890, 7-19-60, Cl. 260-622.
- Allard, James G.: *See*—  
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- Allard, Marc, to Institut de Recherches de la Siderurgie. Method and means for blowing gases containing possibly pulverulent material into a bath of molten metal. 2,956,794, 10-18-60, Cl. 266-34.



- Allard, Marc, B. Trentini, and L. Wahl, to Institut de Recherches de la Siderurgie. Method for top blowing pulverulent burnt lime and oxygen into cast iron for refining same. 2,950,186, 8-23-60, Cl. 75-52.
- Allardt, Ernst W., to The Babcock & Wilcox Co. Welding throat for high frequency alternating current resistance welding of tubes. 2,933,587, 4-19-60, Cl. 219-59.
- Allaries, Hans, and A. E. M. Calon, to North American Philips Co., Inc. Device for ventilating wave-guide systems. 2,920,295, 1-5-60, Cl. 333-98.
- Albright-Nell Co., The: See—
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- Bongartz, Roy C., and Beigay, 2,957,812.
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- Shaw, Richard B., and Connor, 2,932,577.
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- Greene, Ernest W., and Allegrini, 2,941,959.
- Allemann, Hugo, Traverse control device for grinding machines. 2,935,821, 5-10-60, Cl. 51-34.
- Allemann, Hugo, and J. Ebe, to Hugo Allemann A.G. Infeed control device. 2,919,520, 1-5-60, Cl. 51-165.
- Alleman, Hugo, A.G.: See—
- Allemann, Hugo, and Ebe, 2,919,520.
- Allemann, James G. Combination chain-and-circular-saw portable power saw unit. 2,925,104, 2-16-60, Cl. 143-11.
- Allen, Albert S., to Hoffman-Allen Corp. Combined full-flow and by-pass filter with strainer. 2,966,269, 12-27-60, Cl. 210-132.
- Allen, Alfred W., and R. H. Herron, to Bendix Aviation Corp. Friction article. 2,948,955, 8-16-60, Cl. 29-182.5.
- Allen, Alton K. Gear clamp. 2,934,803, 5-3-60, Cl. 24-249.
- Allen, Alton K. Power feed mechanism for tool turret. 2,934,812, 5-3-60, Cl. 29-42.
- Allen, Anna M.: See—
- Allen, James R. and A. M. 2,953,671.
- Allen, Augustine O., and C. J. Hochanadel, to United States of America, Atomic Energy Commission. Suppression of water decomposition. 2,937,981, 5-24-60, Cl. 204-154.2.
- Allen, Augustine O., and J. M. Caffrey, Jr., to United States of America, Atomic Energy Commission. Irradiation method of converting organic compounds. 2,955,997, 10-11-60, Cl. 204-162.
- Allen-Bradley Co.: See—
- Dehn, William F., Hower, and Schlicke, 2,922,936.
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- Freeburg, Walter S., 2,953,840.
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- Tellkamp, Bernhard F., 2,953,484.
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- Allen, Burris R. Automatic booster fan and ventilating shield. 2,922,570, 1-26-60, Cl. 230-117.
- Allen Cartons, Inc.: See—
- Allen, William H., 2,919,846.
- Allen, Charles C., to United States of America, Army. Switching arrangement for radar systems. 2,935,742, 5-3-60, Cl. 343-5.
- Allen, Charles F. H., B. D. Illingsworth, and J. J. Sagura, to Eastman Kodak Co. Stabilized photographic silver halide emulsions containing 5-thioctic acid. 2,948,614, 8-9-60, Cl. 96-109.
- Allen, Charles F. H., and E. R. Webster, to Eastman Kodak Co. Hardening of gelatin. 2,950,197, 8-23-60, Cl. 96-111.
- Allen, Charles W.: See—
- Mitchell, George E., and Allen, 2,952,008.
- Allen, Clifford H., to Thompson Ramo Wooldridge Inc. Fuel flow divider. 2,923,309, 2-2-60, Cl. 137-118.
- Allen, Clifford H., to Thompson Ramo Wooldridge Inc. Flow regulating valve. 2,938,538, 5-31-60, Cl. 137-504.
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- Allen, Clifton L.: See—
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- Allen, Donald R., to The Dow Chemical Co. Preparation of aluminum fluoride. 2,958,575, 11-1-60, Cl. 23-88.
- Allen, Earle F.: See—
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- Allen, Edward E., to Zurn Industries, Inc. Coupling for driving a machine. 2,959,943, 11-15-60, Cl. 64-9.
- Allen, Edward M., to Columbia-Southern Chemical Corp. Method of preparing a finely-divided alumina-silica pigment. 2,920,974, 1-12-60, Cl. 106-288.
- Allen, Edward M., to Columbia-Southern Chemical Corp. Method of preparing pigments. 2,924,510, 2-9-60, Cl. 23-182.
- Allen, Edward M., to Columbia-Southern Chemical Corp. Silica composition and production thereof. 2,943,948, 7-5-60, Cl. 106-288.
- Allen, Edward M., to Columbia-Southern Chemical Corp. Paper pigments. 2,943,970, 7-5-60, Cl. 162-181.
- Allen, Edwin L.: See—
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- Allen, Edwin L., to L. W. Menzimer, trustee. Door holding device. 2,939,166, 6-7-60, Cl. 16-82.
- Allen, Edwin L., to L. W. Menzimer, trustee. Latch mechanism. 2,943,879, 7-5-60, Cl. 292-44.
- Allen, George, to Kaiser Aluminum & Chemical Corp. Electrolytic cell. 2,939,829, 6-7-60, Cl. 204-243.
- Allen & Hanburys Ltd.: See—
- Thorpe, Ronald J., 2,952,471.
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- Allen, Henry H., to British Celanese Ltd. Method and apparatus for examining sheet materials. 2,923,198, 2-2-60, Cl. 88-14.
- Allen, Herbert, to Cameron Iron Works, Inc. Hanging apparatus. 2,920,909, 1-12-60, Cl. 285-146.
- Allen, Herbert, to Cameron Iron Works, Inc. Lubricated conduit type gate valves. 2,926,687, 3-1-60, Cl. 137-246.13.
- Allen, Herbert, to Cameron Iron Works, Inc. Gate valve and seat assembly therefor. 2,934,313, 4-26-60, Cl. 251-328.
- Allen, Herbert, to Cameron Iron Works, Inc. Sealed telescopic connection. 2,939,534, 6-7-60, Cl. 168-86.
- Allen, Herbert, to Cameron Iron Works, Inc. Sealed preventer and ram therefor. 2,947,508, 8-2-60, Cl. 251-2.
- Allen, Herbert, to Cameron Iron Works, Inc. Ram type blowout preventer. 2,964,284, 12-13-60, Cl. 251-1.
- Allen, Herbert, and M. R. Jones, to Cameron Iron Works, Inc. Wellhead equipment. 2,939,727, 6-7-60, Cl. 285-96.
- Allen, Homer E. Concrete wall form securing means. 2,940,153, 6-14-60, Cl. 25-131.
- Allen, Homer E. Concrete form securing means. 2,952,060, 9-13-60, Cl. 25-131.
- Allen Industries Inc.: See—
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- Allen Iron & Steel Co., The: See—
- Bell, Francis J., 2,944,676.
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- Allen, James F., to Food Machinery and Chemical Corp. Halogenated phosphorus compounds. 2,947,773, 8-2-60, Cl. 260-461.
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- Allen, John K.: See—
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- Allen, John W., to Stanray Corp. Roof structure for railway cars. 2,953,996, 9-27-60, Cl. 105-404.
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- Allen, Joseph S.: See—
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- Allen, Kenneth C., to The Hobart Mfg. Co. Weighing scales. 2,921,780, 1-19-60, Cl. 265-70.
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- Allen, Kenneth C., to The Hobart Mfg. Co. Computing mechanism. 2,948,464, 8-9-60, Cl. 235-58.
- Allen, Kenneth C., to The Hobart Mfg. Co. Recording scale. 2,948,465, 8-9-60, Cl. 235-58.
- Allen, Kenneth C., to The Hobart Manufacturing Co. Computing scale. 2,948,523, 8-9-60, Cl. 265-5.
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- Allen, Kenneth C., and D. A. Meeker, to The Hobart Mfg. Co. Scales. 2,948,466, 8-9-60, Cl. 235-58.
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- Allen, Lloyd R., and D. H. Woodard, to Kenmore Research Co. Lapping compound. 2,944,879, 7-12-60, Cl. 51-304.
- Allen, Lloyd R., and D. H. Woodard, to Kenmore Research Co. Lapping compound. 2,944,880, 7-12-60, Cl. 51-306.
- Allen, Lloyd W., and R. W. Buntentbach, to United States of America, Atomic Energy Commission. High-speed photographic apparatus. 2,927,215, 3-1-60, Cl. 250-217.



- Allen, Louis B., D. E. McElroy, and S. J. Stein, to International Resistance Co. Metal to plastic laminated article and the method of making the same. 2,955,974, 10-11-60, Cl. 154-128.
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- Allen, Milton J., and W. L. Bencze, to Ciba Pharmaceutical Products, Inc. New pyridine compounds. 2,966,493, 12-27-60, Cl. 260-296.
- Allen, Milton J., and W. L. Bencze, to Ciba Pharmaceutical Products, Inc. New pyridine compounds. 2,966,494, 12-27-60, Cl. 260-296.
- Allen, Oliver L., to Electrolux Corp. Selectively positioned brush nozzle. 2,948,014, 8-9-60, Cl. 15-371.
- Allen, Oliver L., L. P. Borkoski, R. L. Brown, and J. T. Ferraris, to Electrolux Corp. Electric floor polishers. 2,941,222, 6-21-60, Cl. 15-49.
- Allen, Oliver L., M. E. Belicka, and G. E. Lofgren, to Electrolux Corp. Vacuum cleaner and cordwinder combination. 2,964,777, 12-20-60, Cl. 15-823.
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- Allen, Paul M., to Armco Steel Corp. Method for hardening chromium-nickel stainless steel. 2,958,618, 11-1-60, Cl. 148-125.
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- Allen, Philip H., and B. J. Chromy. Electrical signalling and computing apparatus. 2,949,566, 8-16-60, Cl. 315-183.
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- Allen, Richard G., and A. J. Andolino, to Gould-National Batteries, Inc. Electrode and manufacture thereof. 2,927,886, 3-8-60, Cl. 204-35.
- Allen, Robert C., to Allis-Chalmers Mfg. Co. Fuel feeding mechanism for a gas turbine. 2,923,575, 2-2-60, Cl. 302-55.
- Allen, Robert D., to Western Electric Co., Inc. Channel monitor unit for time division multiplex system. 2,961,491, 11-22-60, Cl. 178-69.
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- Allen-Sherman-Hoff Co., The: *See*—
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- Allen, Simeon C. Preservation of foods. 2,963,375, 12-6-60, Cl. 99-171.
- Allen, Thomas O., and G. G. Priest, to Jersey Production Research Co. Fracturing earth formation. 2,935,129, 5-3-60, Cl. 166-42.
- Allen, Thomas S., M. L. Gould, A. J. Haas, Jr., and H. E. O'Connell, to Ethyl Corp. Manufacture of ethyl chloride. 2,942,039, 6-21-60, Cl. 260-662.
- Allen, Walter H. Pump actuating mechanism. 2,926,000, 2-23-60, Cl. 254-173.
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- Allenbaugh, Ralph, to The Cadm Corp. Collating machine. 2,928,671, 3-15-60, Cl. 270-58.
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- Allendorf, Adam, to Allendorf Industries Inc. Tape control winder. 2,946,534, 7-26-60, Cl. 242-7551.
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- Nash, Harold A., and Brooker. 2,929,812.
- York, Charles J., and Schwarz. 2,934,473.
- York, Charles J., and Schwarz. 2,941,925.



- Allied Machine & Engineering Corp.: *See*—  
Stokey, Harold E. 2,928,320.
- Allied Mills, Inc.: *See*—  
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- Allied Plastics Co.: *See*—  
Crane, Walton B. 2,951,615.
- Allied Research Associates, Inc.: *See*—  
Fink, Daniel J. 2,924,420.
- Allied Research Products, Inc.: *See*—  
Borodin, Daniel J. 2,944,557.  
Borodin, Daniel J. 2,958,331.
- Allied Steel and Conveyors, Division of The Sparton Corp.: *See*—  
Harrison, Homer S. 2,940,400.
- Allied Welder Corp.: *See*—  
Plummer, William R. 2,927,192.
- Allin, George S., Sr.: *See*—  
Donner, Verne P., G. S. Allin, Sr., and G. S. Allin, Jr. 2,921,800.  
Donner, Verne P., Henning, and Allin. 2,954,756.
- Alling, Myrtle C.: *See*—  
Husted, Harry F. 2,954,125.
- Alling, Myrtle C. Resilient latch for perforated support board attachments. 2,961,724, 11-29-60, Cl. 24-73.
- Allingham, William D., to Boeing Airplane Co. Turbine over-speed controls. 2,962,257, 11-29-60, Cl. 253-59.
- Allinquant, Fernand S., to Societe Anonyme: Etablissements Allinquant. Device for correcting the rigidity of a suspension system combined with a shock-absorber. 2,920,882, 1-12-60, Cl. 267-8.
- Allis-Chalmers Mfg. Co.: *See*—  
Adams, Kenneth C., and Honeyager. 2,935,889.  
Allen, Lawrence E., and Wertz. 2,937,647.  
Allen, Robert C. 2,923,575.  
Ambroz, Charles F. 2,942,846.  
Anderson, Reynold M. 2,936,037.  
Anderson, Reynold M. 2,946,144.  
Anderson, Richard F., Kececioğlu, and Baugh. 2,959,364.  
Armitage, Charles H. 2,965,478.  
Baguhn, Alfred H. 2,947,837.  
Bahe, Lowell W. 2,938,774.  
Baude, John. 2,927,264.  
Beckwith, Sterling. 2,920,218.  
Beckwith, Sterling. 2,920,219.  
Been, Paul. 2,961,748.  
Bidwell, Harry H. 2,921,392.  
Boehne, Eugene W. 2,942,084.  
Breth, James C., and Gallousis. 2,929,037.  
Brundage, John F., Cleland, and Mirus. 2,930,151.  
Comfort, Samuel T. 2,935,161.  
Davison, Lester W., and Surenda. 2,944,103.  
Dreislin, Alexander. 2,951,647.  
Dunn, John E., and Rossi. 2,938,393.  
Edens, Walter W., Schumbacker, and Wilson. 2,933,593.  
Elliott, William E., and Reinhard. 2,946,216.  
Elliott, William E., Reinhard, and Schram. 2,953,439.  
Erwin, Arthur F. 2,959,133.  
Ferguson, Rector C. 2,919,954.  
Ferguson, Rector C. 2,941,419.  
Ferguson, Rector C. 2,957,726.  
Fisch, Jacob. 2,922,621.  
Forrest, Frank R. 2,950,943.  
Gladnick, Irvin J., and Halter. 2,941,121.  
Gray, James H., and Wood. 2,943,431.  
Gross, Emil. 2,955,353.  
Gustine, Floyd L. 2,955,501.  
Harrer, Paul H. 2,924,982.  
Hauck, John F. 2,961,543.  
Heckenkamp, Edward B. 2,926,496.  
Herr, Charles H., Jr. 2,932,212.  
Herr, Charles H., Jr. 2,952,495.  
Herr, Charles H., Jr. 2,953,035.  
Hotson, Dale V. 2,925,550.  
Ihrig, Harry K. 2,948,605.  
Jenness, Raymond C. 2,946,610.  
Jenness, Raymond C., and Rossi. 2,957,732.  
Johnson, Harold E. 2,927,604.  
Kececioğlu, Dimitri B., Weber, and Kiefer. 2,938,468.  
Kenney, Clarence E. 2,949,122.  
Kenney, Clarence E. 2,963,032.  
Kenney, Clarence E., and Moore. 2,949,730.  
Krabbe, Ulrik H., and Sorensen. 2,932,787.  
Lipe, Bruce R., and Webb. 2,958,292.  
Lutz, Milton W. 2,925,042.  
Marcier, Carl E. 2,950,339.  
Marohn, Richard P. 2,951,196.  
Menningen, Hubert A. 2,919,479.  
Mortenson, Victor A., and Weston. 2,942,086.  
Mortenson, Victor A., Weston, and Reilly. 2,947,839.  
Nichols, Beverly R. 2,932,533.  
Nichols, Beverly R. 2,937,888.  
Nichols, Beverly R. 2,938,527.  
Nichols, Beverly R. 2,965,764.  
Nolte, Walter G. 2,950,404.  
Norellus, Emil F. 2,936,036.  
Nunnelee, Harold B., and Schumbacker. 2,931,886.  
Oberholtz, Lester E., and Miller. 2,959,175.  
Odell, Robert C., Frenzler, Scag, and Netzel. 2,944,753.  
Plate, John R., and Alexander. 2,926,734.  
Reaves, Robert S. 2,939,537.  
Rinkema, David. 2,932,202.  
Rockwell, Harvey W. 2,928,423.
- Allis-Chalmers Mfg. Co.: *See*—Continued  
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Rockwell, Harvey W. 2,933,838.  
Rockwell, Harvey W. 2,935,803.  
Rockwell, Harvey W. 2,936,039.  
Rockwell, Harvey W., and Eckert. 2,936,038.  
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Roubal, Alexander J. 2,928,544.  
Roubal, Alexander J. 2,960,276.  
Schick, Frederick A. 2,954,858.  
Schroeder, Harry J., and R. J. 2,951,393.  
Schroeder, Robert J. 2,949,732.  
Schuster, Frank C. 2,931,454.  
Schuster, Frank C. 2,951,558.  
Scott, Donald B. 2,945,112.  
Scranton, Charles J. 2,932,145.  
Scranton, Charles J., and Worrell. 2,927,694.  
Sealey, William C. 2,935,877.  
Sealey, William C. 2,959,728.  
Sillers, Thomas G. A. 2,936,331.  
Speisman, Camille. 2,925,091.  
Stephens, John L. 2,927,605.  
Stoll, Robert E. 2,923,261.  
Stowasser, William F., Jr. 2,925,336.  
Tanke, Willard H. 2,930,630.  
Taylor, Lester W. 2,953,864.  
Timmerman, Julius W. 2,965,734.  
Timmerman, Julius W., and Perry. 2,941,545.  
Ureda, Benon F. 2,947,838.  
Walberg, Maynard E. 2,919,754.  
Weltmer, Wilton W. 2,946,345.  
Whisler, Paul A., and McDermott. 2,961,273.  
Wiederkehr, Karl P. 2,923,905.  
Wiederkehr, Karl P. 2,941,171.  
Wood, William L. 2,935,835.  
Wurgler, John W. 2,929,002.  
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- Allis, Louis, Co., The: *See*—  
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- Allison, Anthony G.: *See*—  
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- Allison, Grady L. Latch trip for dump truck tail gate. 2,958,560, 11-1-60, Cl. 298-23.
- Allison, Kenneth C. Capacitance control unit. 2,930,953, 3-29-60, Cl. 317-249.
- Allison, Paul R., to General Motors Corp. Electroplating. 2,944,945, 7-12-60, Cl. 204-15.
- Allison, William, to International Business Machines Corp. Integrating accelerometer. 2,933,298, 4-19-60, Cl. 264-1.
- Allison, William D., to Motor Research Corp. Front stabilizer mechanism for an automotive vehicle. 2,961,253, 11-22-60, Cl. 280-96.2.
- Allison, William M.: *See*—  
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- Allisy, Andre, to G. Massiot & Cie. Method of and device for correcting the X-ray spectral sensitivity of photographic emulsions, and products obtained therefrom. 2,928,946, 3-15-60, Cl. 250-65.
- Allman, Arvel D. Holder and extinguisher of burning cigarettes. 2,942,608, 6-28-60, Cl. 131-256.
- Allman, Grady W., J. E. Sanford, and W. V. Henry, to Enka Corp. Method and apparatus for covering yarn packages. 2,929,178, 3-22-60, Cl. 53-13.
- Allman, Grady W., C. W. Cromwell, Jr., and G. H. Prosser, to American Enka Corp. Tube spinning assembly. 2,964,788, 12-20-60, Cl. 18-8.
- Allmänna Svenska Elektriska Aktiebolaget: *See*—  
Bergstrom, Lars R. 2,960,630.  
Forwald, Haakon. 2,921,168.  
Forwald, Haakon. 2,948,790.  
Fredriksson, Tord. 2,960,556.  
Haas, Gustav. 2,940,620.  
Hjertberg, Peter G. 2,928,995.  
Jonasson, Sven, and Pucher. 2,948,791.  
Lamm, Uno. 2,926,278.  
Ohlund, Rolf E. H. 2,922,896.  
Schulz, Richard. 2,949,521.  
Slettenmark, Ivar, Holmgren, and Winell. 2,933,627.  
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- All Metal Products Co.: *See*—  
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- Alloway, Vivian P. Straw cutter. 2,950,747, 8-30-60, Cl. 146-117.
- Allroyd Engineering Laboratory, Inc.: *See*—  
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- All Precision Engineering Ltd.: *See*—  
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- Allred, Robert W., and T. S. Comtois, to Boeing Airplane Co. Honeycomb panel. 2,956,651, 10-18-60, Cl. 189-34.
- Allred, Worth P.: *See*—  
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- Alltools Ltd.: *See*—  
Saunders, Frank S. 2,934,092.
- Allward, George A. Game racket construction and method of fabricating the same. 2,932,085, 4-12-60, Cl. 29-526.
- Allwood, Inc.: *See*—  
Himmelheber, Max. 2,940,490.  
Himmelheber, Max, Steiner, and Kull. 2,923,030.
- Allyn, Charles L.: *See*—  
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- Allyn, Harold D. Firearm with interengageable breech block and slide block and double action bars. 2,922,240, 1-26-60, Cl. 42-16.
- Allyn, Harold D. Firearm. 2,945,422, 7-19-60, Cl. 89-154.
- Allyn, Harold D. Firearm. 2,945,423, 7-19-60, Cl. 89-199.
- Allyne, Rollin F. Apparatus for controlling the temperature of trailer cargo and the like. 2,937,510, 5-24-60, Cl. 62-186.
- Alma, Gerrit H. P., W. Keeman, C. P. Kloppling, and D. C. Kranen, to North American Philips Co., Inc. Electron tube for the optical indication of an electrical magnitude. 2,956,194, 10-11-60, Cl. 313-92.
- Almand, Joseph M.: *See*—  
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- Almendinger, Robert V., to Formetal, Inc. Self-locking automatically-releasing sash balance. 2,933,757, 4-26-60, Cl. 16-197.
- Almeter, Lewis L. Safety belt system construction. 2,945,275, 7-19-60, Cl. 24-170.
- Almgren, William J. Shaving kit. 2,958,329, 11-1-60, Cl. 132-80.
- Almond, Burton F. Automobile wheel washer. 2,957,195, 10-25-60, Cl. 15-302.
- Almor Corp.: *See*—  
Foster, Allan D. 2,950,554.
- Almoslino, Hans. Toy adapted to strike a ball positioned therein. 2,935,322, 5-3-60, Cl. 273-96.
- Almquist, Nils T. Embroidery attachment for sewing machines. 2,934,029, 4-26-60, Cl. 112-160.
- Almy, Richard, to Armstrong Cork Co. Method of making linoleum and the like. 2,937,154, 5-17-60, Cl. 260-19.
- Alofin Verwaltungs- & Finanzierungs-aktiengesellschaft: *See*—  
Theller, Robert. 2,952,958.
- Aloi, Anthony J.: *See*—  
Lennox, Thomas H., and Aloi. 2,942,223.
- Aloisi, Paolo. Reserve device for gas cylinders. 2,923,321, 2-2-60, Cl. 137-635.
- Alpar Mfg. Co.: *See*—  
Parmenter, Charles R., and Laustrup. 2,942,700.
- Alpard, Aaron, deceased; N. Alpard, executrix. Holder for carrying long handled implements on shopping carts. 2,941,769, 6-21-60, Cl. 248-111.
- Alpard, Nellie: *See*—  
Alpard, Aaron. 2,941,769.
- Alpers, Frederick C., to United States of America, Navy. System for synchronizing and range measurement with a semiactive radar guided missile. 2,950,477, 8-23-60, Cl. 343-13.
- Alpert, Daniel: *See*—  
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- Alpert, Norman: *See*—  
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Heisler, Robert Y., Newman, and Alpert. 2,956,870.  
Newman, Stanley R., Heisler, and Alpert. 2,921,955.  
Newman, Stanley R., Heisler, and Alpert. 2,937,932.
- Alpert, Norman, and L. E. Sherbin, to Bulova Research and Development Laboratories, Inc. Television multiple channel recorder. 2,965,433, 12-20-60, Cl. 346-37.
- Alpha Metal Laboratories, Inc.: *See*—  
Carlson, Arthur M., and Prymula. 2,956,900.  
Carlson, Arthur M., and Prymula. 2,956,901.
- Alpha Plastics, Inc.: *See*—  
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- Alpha Research Corp.: *See*—  
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- Alpha Tank Co., Inc.: *See*—  
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- Alphin, Gilbert E., Jr. Tobacco harvester. 2,933,206, 4-19-60, Cl. 214-5.5.
- Alpura A.G.: *See*—  
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- Alquist, Mavis M. Quantitative indicator for syringes. 2,943,624, 7-5-60, Cl. 128-218.
- Alrich, John C., to Burroughs Corp. Floating point arithmetic comparison circuit. 2,965,297, 12-20-60, Cl. 235-157.
- Alsaker, Oscar B.: *See*—  
Koerner, Charles A., Alsaker, and Rathbun. 2,963,560.
- Alsfeld, Max, and W. Dierichs, to Henkel & Cie. G.m.b.H. Process for producing wrapping material and casting molds. 2,934,453, 4-26-60, Cl. 117-5.1.
- Alsobrook, Benjamin R.: *See*—  
Herman, Hartley R., and Alsobrook. 2,944,504.
- Alston, Leroy. Combination lawn hose and water nozzle support. 2,956,762, 10-18-60, Cl. 248-87.
- Alston, William. Anchor. 2,955,430, 10-11-60, Cl. 61-53.
- Alsop, Richard G., P. E. Lindvig, and J. H. Miller, to E. I. du Pont de Nemours and Co. Formation of rod stock from thermoplastic materials. 2,962,760, 12-6-60, Cl. 18-30.
- Alsworth, Charles C., and T. B. Martin, to Curtiss-Wright Corp. Cooling system for airborne vehicle. 2,956,585, 10-18-60, Cl. 137-552.
- Altadonna, Anthony J. Carryall vehicle for use on soft and hard surfaces. 2,926,021, 2-23-60, Cl. 280-11.
- Altair Inc.: *See*—  
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- Altamura, Mario R.: *See*—  
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- Altekruse, John L., to Goodyear Aircraft Corp. Terrain clearance control apparatus. 2,930,035, 3-22-60, Cl. 343-7.
- Altenburger, Karl. Spoke connection for tubeless tire rim. 2,937,905, 5-24-60, Cl. 301-58.
- Altenweger, Alois, to Zellweger A.G. Apparate- und Maschinenfabriken Uster. Machine for separating the outside thread of a warp. 2,928,159, 3-15-60, Cl. 28-43.
- Altenweger, Alois, to Zellweger A.G. Apparate- und Maschinenfabriken Uster. Device for clamping the threads of a warp. 2,942,324, 6-28-60, Cl. 28-22.
- Altenweger, Alois, to Zellweger Ltd. Uster Factories for Apparatus and Machines. Frame for mounting warps. 2,961,737, 11-29-60, Cl. 28-49.
- Altes, Stephen K., to General Electric Co. Modification of brightness signal by chrominance components. 2,923,767, 2-2-60, Cl. 178-5.4.
- Altgelt, Rudolph J., and H. D. Rue, to D. Rue. Plow attachment. 2,953,211, 9-20-60, Cl. 172-736.
- Althouse, John E.: *See*—  
Rodgers, George W., Althouse, Anderson, Bussey, and Minnear. 2,952,012.
- Althouse, Joseph G., to Lukens Steel Co. Production of clad steel plates by the 2-ply method. 2,932,886, 4-19-60, Cl. 29-471.5.
- Altimier, David F., and C. J. Doubt, to E. I. du Pont de Nemours & Co. Rotary kiln. 2,924,513, 2-9-60, Cl. 23-279.
- Altman, Bernard, and P. Stiller, to Still-Man Mfg. Corp. Removable hinged electrical heater. 2,934,630, 4-26-60, Cl. 219-37.
- Altman, Clara J. Mascara sticks for eyelashes. 2,925,819, 2-23-60, Cl. 132-85.
- Altman, Gerald: *See*—  
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- Altman, Robert. Bead necklace-brooch coupling element and article of jewelry incorporating the same. 2,930,209, 3-29-60, Cl. 63-1.
- Altmann, Werner E.: *See*—  
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- Altmann, Werner E., to Daimler-Benz Aktiengesellschaft. Selectively engageable change-speed transmission. 2,942,712, 6-28-60, Cl. 192-114.
- Altmann, Werner E., to Daimler-Benz Aktiengesellschaft. Synchronized clutch. 2,947,396, 8-2-60, Cl. 192-53.
- Alton Box Board Co.: *See*—  
Bray, Herschel V. 2,920,809.  
Dickhens, Donald F., and Huffman. 2,926,781.  
Hollis, Robert F. 2,925,270.  
Hollis, Robert F. 2,952,297.  
Kempen, Raymond J., and Newell. 2,949,827.  
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Zukoski, Arthur W. 2,925,213.
- Altoscan Co.: *See*—  
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- Altschul, Aaron M.: *See*—  
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- Altson, Ralph, to General Motors Corp. Dimensional tolerance gauge. 2,958,951, 11-8-60, Cl. 33-178.
- Alstaedt, Werner, E. Lehrer, and E. W. Schierwater, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of acetylene by partial oxidation of hydrocarbons and apparatus therefor. 2,966,533, 12-27-60, Cl. 260-679.
- Alumatic Corp. of America: *See*—  
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- Aluminium-Industrie-Aktien-Gesellschaft: *See*—  
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- Aluminium Laboratories Ltd.: *See*—  
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Fenerty, Michael J. 2,961,297.  
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- Lister, Leslie, and Meredith. 2,952,624.
- Lorenson, Aldo, Pertuiset, and Reinhardt. 2,940,791.
- Trubey, Philip W. 2,962,350.
- Aluminum Co. of America: *See*—  
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Foster, Luther M., and Long. 2,962,370.  
Goodwin, Carl L., and Ennor. 2,923,040.  
Holt, Marshall, Mason, and Murtland. 2,941,569.  
Lyle, John P., Jr., and Towner. 2,963,780.  
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Rosenzweig, Martin, and Krisel. 2,959,413.  
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- Aluminum Fences, Inc.: *See*—  
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- Aluminum International, Inc.: *See*—  
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- Aluminum Products, Inc.: *See*—  
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- Aluminum Research Corp.: *See*—  
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Kubie, William L. 2,921,874.  
Kubie, William L. 2,963,391.
- Alvarez, Alfonso. Blind having relatively adjustable slats. 2,921,628, 1-19-60, Cl. 160-201.



- Alvarez, Luis W.: *See*—  
Lawrence, Ernest O., McMillan, and Alvarez. 2,933,442.
- Alvden, Bror R. J. H. Pallets and similar constructions for carrying heavy goods. 2,933,339, 4-19-60, Cl. 294-67.
- Alvear, Victor. Plastic cork. 2,950,835, 8-30-60, Cl. 217-110.
- Alvernaz, Emanuel P., to Jennings Radio Mfg. Corp. Sideband selection. 2,947,860, 8-2-60, Cl. 250-20.
- Alves, John J., to Alves Photo Service, Inc. Photocopying apparatus. 2,938,427, 5-31-60, Cl. 88-24.
- Alves Photo Service, Inc.: *See*—  
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- Alvey Conveyor Mfg. Co.: *See*—  
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- Alvey-Ferguson Co., The: *See*—  
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- Alvey, John M., Jr., and W. G. Brand, Jr., to Alvey Conveyor Mfg. Co. Conveyor assembly. 2,932,380, 4-12-60, Cl. 198-162.
- Alvin, A. C.: *See*—  
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- Alvine, Samuel, Jr.: *See*—  
Walker, Russel, Kelly, Callahan, Alvine, and Maselli. 2,966,669.
- Alvistur, Oscar. Bicycle with swingable drive sprocket. 2,929,641, 3-22-60, Cl. 280-261.
- Alvord, Grove D., to Syntro Co. Vibratory feeder suspension. 2,926,773, 3-1-60, Cl. 198-220.
- Alvord, Grove D., to Syntro Co. Heated liner for trough feeders. 2,945,938, 7-19-60, Cl. 219-19.
- Alvord, Grove D., to Syntro Co. Vibratory motor. 2,958,792, 11-1-60, Cl. 310-28.
- Alwac International: *See*—  
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- Alwac International Inc.: *See*—  
Beek, Joseph A., Jr., and Hagen. 2,939,634.
- Alway, Clayton D., to The Upjohn Co. Computer. 2,958,466, 11-1-60, Cl. 235-184.
- Alweg-Forschung Gesellschaft mit beschränkter Haftung: *See*—  
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- Marquard, Erich G. 2,932,258.
- Amag-Hilpert-Pegnitzhutte AG.: *See*—  
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- Amagasaki Seitetsu Kabushiki Kaisha: *See*—  
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- Amalgamated Electric Corp. Ltd.: *See*—  
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- Duffield, Joseph F. 2,962,572.
- McRoberts, Charles E., and Duffield. 2,950,366.
- Amalgamated Growth Industries, Inc.: *See*—  
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- Amana Refrigeration, Inc.: *See*—  
Whitesel, Harry A., and Bower. Re. 24,782.
- Amann, August: *See*—  
Schroeder, Harald, and Amann. 2,924,606.
- Amamo Tokushu Kikai Kabushiki Kaisha: *See*—  
Hino, Jiro. 2,933,995.
- Amara, Dominic, to Lockheed Aircraft Corp. Stabilized platform reference device. 2,944,426, 7-12-60, Cl. 74-5.34.
- Amato, Gaetano T.: *See*—  
McKenney, Henry F., and Amato. 2,932,788.
- Amaya, Akio, to Sony Corp. Method of etching a germanium surface. 2,941,875, 6-21-60, Cl. 41-42.
- Ambeau, Hugh L. Traction device. 2,947,337, 8-2-60, Cl. 152-220.
- Ambelang, Joseph C., to The Firestone Tire & Rubber Co. Hydroxy-substituted phenylenediamines and their use in rubber. 2,929,796, 3-22-60, Cl. 260-45.9.
- Ambelang, Joseph C., to The Firestone Tire & Rubber Co. Rubber vulcanizates and process of preparing same. 2,939,861, 6-7-60, Cl. 260-45.9.
- Ambelang, Joseph C., to The Firestone Tire & Rubber Co. Reaction products of alkylene dihalides and substituted phenylenediamines. 2,939,867, 6-7-60, Cl. 260-293.
- Ambelang, Joseph C., to The Firestone Tire & Rubber Co. Non-blooming, non-staining rubber antioxidants. 2,947,724, 8-2-60, Cl. 260-45.95.
- Ambelang, Joseph C., to The Firestone Tire & Rubber Co. 1,1-bis(hydroxy-3-alkyl-6-isopropylphenyl) alkanes. 2,947,789, 8-2-60, Cl. 260-619.
- Ambler, Charles, and K. G. Gerber, to Imperial Chemical Industries Ltd. Film slitting apparatus. 2,923,194, 2-2-60, Cl. 83-176.
- Amborski, Leonard E., E. F. Izard, and C. E. Sroog, to E. I. du Pont de Nemours & Co. Polyester film and process therefor. 2,921,051, 1-12-60, Cl. 260-75.
- Ambridge, Charles, and D. S. Alexander, to Polymer Corp. Ltd. Calcium nickel phosphate catalyst of high crushing strength. 2,933,543, 4-19-60, Cl. 260-680.
- Ambrose, Henry A., to Gulf Research & Development Co. Residual fuel oils. 2,943,925, 7-5-60, Cl. 44-66.
- Ambrose, Henry A., and G. E. Gaston, to Gulf Research & Development Co. Non-stalling gasoline fuel compositions. 2,948,596, 8-9-60, Cl. 44-58.
- Ambrose, Henry A., and P. R. McCarthy, to Gulf Research & Development Co. Antifriction bearing grease. 2,966,461, 12-27-60, Cl. 252-33.4.
- Ambrose, James M., to Phillips Petroleum Co. Rocket grain. 2,933,041, 4-19-60, Cl. 102-98.
- Ambrose, John J., to Rowe Mfg. Co., Inc. Illuminated push-button assembly. 2,954,632, 10-4-60, Cl. 40-331.
- Ambrose, Michael J. F.: *See*—  
Curl, Thomas I., Ambrose, and Burch. 2,960,036.
- Ambrosio, Biagio F.: *See*—  
Thorensen, Ragnar, Arsenault, and Ambrosio. 2,925,587.
- Ambroz, Charles F., to Allis-Chalmers Mfg. Co. Automatic guide vane locking device for a hydraulic machine. 2,942,846, 6-28-60, Cl. 253-122.
- Ambruster, Watson, II, and C. T. Vance, Jr., to United States of America, Army. Air, water, and dirt eliminator and surge tank. 2,929,503, 3-22-60, Cl. 210-120.
- Ambuter, Arthur J.: *See*—  
Voymas, James S., and Ambuter. 2,943,443.
- Am-Car Dekernelizer Corp.: *See*—  
Bond, William H. M. 2,954,810.
- Amcel Propulsion Inc.: *See*—  
Bishop, John R. 2,951,754.
- Brandenberger, Ernst M., and Tanner. 2,957,307.
- Burnette, Thaddeus C., Jr. 2,963,699.
- Burnette, Thaddeus C., Jr. 2,963,941.
- Otto, George F. 2,953,487.
- Peck, Walter R. 2,946,942.
- Stencel, Fred B. 2,936,138.
- Stencel, Fred B. 2,949,267.
- Stencel, Fred B. 2,953,333.
- Stencel, Fred B. 2,953,334.
- Stencel, Fred B. 2,957,664.
- Stencel, Fred B. 2,965,337.
- Waldrum, John E. 2,965,302.
- Amchem Products, Inc.: *See*—  
Blaser, Bruno, and Mayer. 2,955,967.
- Hall, Wilbur S. 2,921,858.
- Heller, Ferdinand P. 2,961,358.
- Newhard, Nelson J., Jr., and Dollman. 2,931,713.
- Newhard, Nelson J., Jr., and Dollman. 2,936,254.
- Saukatis, Albert J. 2,941,949.
- Tafuro, Anthony J., and Bishop. 2,957,760.
- Amco Engineering Co.: *See*—  
Anderson, Edwin V., Mack, and Friberg. 2,934,164.
- Amdahl, Lowell D.: *See*—  
Havens, Byron L., Schreiner, Amdahl, Cedarholm, Jeanel, Meadows, and Mitchell. 2,957,626.
- Schreiner, Kenneth E., Amdahl, and Havens. 2,954,164.
- Amdahl, Lowell D., B. L. Havens, J. Jeanel, K. E. Schreiner, J. P. Cedarholm, and N. F. Eichenberger, to International Business Machines Corp. Tape control circuits. 2,951,232, 8-30-60, Cl. 340-172.5.
- Amdursky, Mark E., and J. P. Fiore, to Zenith Radio Corp. Color image reproducer. 2,961,313, 11-22-60, Cl. 96-38.
- Amdursky, Mark E., and J. P. Fiore, to Zenith Radio Corp. Method of manufacturing color image reproducer. 2,961,314, 11-22-60, Cl. 96-38.
- Amelex Corp.: *See*—  
House, Frank R. 2,940,385.
- Amelio, Armand F., to United Aircraft Corp. Engine control. 2,960,167, 11-15-60, Cl. 170-135.74.
- Amelotte, Joseph A., and M. L. Harlow, to National Research Corp. Vacuum coating apparatus. 2,965,067, 12-20-60, Cl. 118-49.
- Amemiya, Hiroshi, to Radio Corp. of America. Shift register circuits. 2,963,688, 12-6-60, Cl. 340-174.
- Amer, William, Co.: *See*—  
Panepinto, Frank W. 2,937,068.
- Amerac Inc.: *See*—  
Haszard, Owen I. 2,922,957.
- Amercoat Corp.: *See*—  
Morris, Lester, and Lombardo. 2,944,919.
- Morris, Lester, and Lombardo. 2,952,562.
- Amereng Development Corp.: *See*—  
Lowe, Ernest. 2,964,036.
- American Air Filter Co., Inc.: *See*—  
Baker, Forrest G. 2,950,056.
- Ortgies, Raymond C. 2,935,927.
- Robson, Aubrey H. 2,939,295.
- Smith, Herbert G. 2,935,261.
- Smith, Ralph B. 2,935,262.
- Stoneburner, Edwin B. 2,942,858.
- Sylvan, Stig G. 2,964,125.
- Westlin, Karl L. 2,963,201.
- Zaber, Adolph J. 2,951,717.
- American Alcolac Corp.: *See*—  
Cox, Robert P. 2,952,532.
- American Art Metals Co.: *See*—  
May, Maurice. 2,961,694.
- American Associated Companies: *See*—  
Carpenter, James C., McNelley, David, and Bishoff. 2,964,353.
- American Baler Co., The: *See*—  
Seltzer, Robert E. 2,938,451.
- American Biltrite Rubber Co., Inc.: *See*—  
Banks, Sholom A. 2,934,096.
- Knowland, Thomas M. 2,953,813.
- Smith, Merrill M., and Knowland. 2,959,362.
- Smith, Merrill M., and Knowland. 2,965,923.
- American Bio-Synthetics Corp.: *See*—  
Rosenthal, Waldemar A., and Pinkalla. 2,928,740.



American Bosch Arma Corp.: *See*—

- Abt, Clifford F., Miner, and Spitalny. 2,949,824.  
 Bischoff, Waldemar O. 2,922,370.  
 Bischoff, Waldemar O. 2,922,371.  
 Bischoff, Waldemar O., and Daborowski. 2,949,904.  
 Bischoff, Waldemar O., and Hageman. 2,965,087.  
 Bock, Robert O., and Davis. 2,939,091.  
 Burman, Paul G. 2,921,741.  
 Burman, Paul G. 2,921,746.  
 Burman, Paul G. 2,921,747.  
 Davidson, Gareth M. 2,922,578.  
 Davidson, Gareth M. 2,960,645.  
 Davidson, Gareth M., and Brady. 2,950,443.  
 Davis, Arthur P. 2,922,228.  
 Finkel, Leonard. 2,965,771.  
 Finkel, Leonard, and Kaplan. 2,956,244.  
 Finkel, Leonard, and Weidknecht. 2,950,448.  
 Huse, Arthur E. 2,922,410.  
 Jorgensen, Paul S. 2,959,059.  
 Linden, Albert E. 2,947,911.  
 Miller, Walter S. 2,922,215.  
 Miner, Richard Y., and Evans. 2,922,572.  
 Nystrom, Carl H. 2,922,369.  
 Nystrom, Carl H., and Huse. 2,950,095.  
 Savet, Paul H. 2,921,380.  
 Savet, Paul H. 2,959,958.

American Box Board Co.: *See*—

- Anderson, Wilbur G., Jr. 2,919,844.  
 Anderson, Wilbur G., Jr. 2,961,144.

American Brake Shoe Co.: *See*—

- Blasutta, Victor V., and Hedge. 2,924,182.  
 Boron, Frank J. 2,937,018.  
 Boron, Frank J. 2,955,812.  
 Buchsbaum, Walter H. 2,963,627.  
 Burkhardt, George R. 2,944,740.  
 Cox, Isaac E. 2,946,631.  
 Cox, Isaac E. 2,948,571.  
 Dalrymple, William P. Re. 24,792.  
 Devaney, John L. 2,947,385.  
 Fraula, William S., and King. 2,946,091.  
 Fraula, William S., and Olson. 2,943,353.  
 Hipple, George M. 2,945,990.  
 Hipple, George M. 2,956,550.  
 Hoyer, Llewellyn E. 2,941,824.  
 Hoyer, Llewellyn E. 2,959,432.  
 Hoyer, Llewellyn E., Gorceyca, and Santos. 2,939,751.  
 Hoyer, Llewellyn E., and Santos. 2,929,664.  
 Hoyer, Llewellyn E., and Stewart. 2,964,338.  
 Johnson, Oscar H. 2,931,583.  
 Mog, Henry V., and Pinsenschaum. 2,927,499.  
 Neff, Darby B., and Lewis. 2,932,948.  
 Pinsenschaum, Edwin C. 2,957,057.  
 Pogue, Robert B. 2,948,361.  
 Ratkowski, Thomas A. 2,951,300.  
 Renick, Wendell E. 2,936,152.  
 Renick, Wendell E., and Goodman. 2,931,388.  
 Salak, Michael, Keating, and Wilson. 2,943,713.  
 Smilges, Robert. 2,927,558.  
 Spokes, Raymond E., and Kinzer. 2,951,280.  
 Vickers, Stanley J. 2,939,358.  
 Whisler, Thomas C., Sr. 2,939,640.  
 Whisler, Thomas C., Sr. 2,962,232.

American Brass Co., The: *See*—

- Woods, Robert C. 2,947,212.

American Buff Co.: *See*—

- Atkins, David. 2,922,262.

American Can Co.: *See*—

- Aldington, Elmer T. 2,922,563.  
 Bennett, Herbert L. 2,956,721.  
 Bofinger, Karl, and Deisch. 2,942,719.  
 Brennan, Thomas F., and White. 2,963,194.  
 Carew, Herman. 2,946,481.  
 Chatterton, Robert T. 2,960,060.  
 Corrinet, Andrew L., and Fredette. 2,954,148.  
 Dobbins, Walter J. 2,932,436.  
 Eckman, George E. 2,923,453.  
 Friden, John H. 2,919,462.  
 Geertsen, Nelson. 2,919,788.  
 Groves, James H. 2,923,403.  
 Groves, James H. 2,934,236.  
 Groves, James H. 2,962,468.  
 Hay, Peter M. 2,957,077.  
 Hebert, Harold C. 2,950,806.  
 Hovland, Howard N. 2,963,209.  
 Klaus, Karl, and Grupe. 2,934,870.  
 Kuchenbecker, Morris W. 2,942,769.  
 Kuchenbecker, Morris W. 2,958,452.  
 Lecluyse, Edouard, and Quinche. 2,928,218.  
 Leghorn, Kenneth M., and Meister. 2,928,120.  
 Lehmann, Karl F., and Lindstrom. 2,923,805.  
 Loughney, John J. 2,947,276.  
 Magill, Donald G. 2,950,620.  
 Magill, Donald G. 2,956,528.  
 McBean, Douglas M., and Tallman. 2,950,829.  
 Nordquist, Ronald E. J. 2,956,660.  
 Nordquist, Ronald E. J., and Brager. 2,952,567.  
 Nordquist, Ronald E. J., and Socke. 2,922,517.  
 Oppermann, Frederick T. 2,926,774.  
 Pechy, William. 2,919,801.  
 Pechy, William. 2,940,636.  
 Pottle, Ralph K. 2,963,204.  
 Rindal, Norman G. 2,956,720.  
 Sheley, Ross C. 2,923,264.  
 Socke, John E. 2,935,315.

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- Socke, John E. 2,943,001.  
 Taylor, Russell C. 2,931,491.  
 Then, Edward O. 2,935,355.  
 Tingley, William E. 2,923,455.  
 Vitense, Harold R. 2,919,705.  
 Vitense, Harold R., and Pillnik. 2,923,304.  
 Winters, William P. 2,932,336.  
 Wobbe, Delbert E., and Fallar. 2,947,274.  
 Wood, Andrew C. 2,925,208.
- American Car and Foundry Co.: *See*—  
 Furrer, John R. 2,921,539.
- American Cast Iron Pipe Co.: *See*—  
 Coupland, Frank H., Jr., Phelps, Cranford, and Daniel. 2,948,934.  
 Cranford, John M., Teague, and Wright. 2,956,322.  
 Daniel, Kenneth R., Farlow, Lowery, and Patton. 2,943,335.  
 Sears, Edward C., Snow, and Thomas. 2,966,539.
- American Chain & Cable Co., Inc.: *See*—  
 Seymour, Harvey W. 2,950,991.
- American Chicle Co.: *See*—  
 Scanlan, James J. 2,922,747.  
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- American Cyanamid Co.: *See*—  
 Abbruscato, Francis J. 2,944,999.  
 Abrams, Charles S. 2,937,074.  
 Allen, William S., and Bernstein. 2,955,119.  
 Arishima, Masao, and Sekizawa. 2,949,406.  
 Arishima, Masao, and Sekizawa. 2,949,407.  
 Arlt, Herbert G., Jr. 2,957,777.  
 Bach, Frederick L., Jr., and Vaughan. 2,937,177.  
 Barber, William A. 2,933,537.  
 Beachem, Michael T. 2,943,097.  
 Bell, Robert C. 2,941,501.  
 Bernstein, Seymour, Feldman, Allen, and Blank. 2,962,512.  
 Bernstein, Seymour, Garbarini, Lenhard, and Smith. 2,938,917.  
 Bernstein, Seymour, and Lenhard. 2,951,084.  
 Bernstein, Seymour, Lenhard, and Allen. 2,943,098.  
 Berry, William L., and Mosby. 2,962,494.  
 Bikales, Norbert M., and Munch. 2,927,942.  
 Bonvicino, Guido E., and Hardy. 2,940,969.  
 Boyle, Richard J. 2,938,903.  
 Broquist, Harry P., and Brockman. 2,965,545.  
 Buccino, Gaetano S. 2,949,181.  
 Buckler, Sheldon A., and Day. 2,927,945.  
 Buckler, Sheldon A., and Wystrach. 2,953,584.  
 Bundegaard, Howard, and Preece. 2,957,065.  
 Burnell, Maurice R. 2,953,480.  
 Cabasso, Victor J. 2,965,544.  
 Callahan, John C., and Sandhage. 2,954,769.  
 Carpenter, Joseph E., and Kolodny. 2,937,106.  
 Chamberlain, Ralph J. 2,929,816.  
 Chow, Wen M., and Parker. 2,938,055.  
 Colman, William P., and Cullo. 2,945,881.  
 Cooke, Theodore F., Eastes, and Fluck. 2,923,597.  
 Cox, Herald R. 2,966,443.  
 Cummings, Percival W., Jr. 2,948,581.  
 Daniel, John H., Jr. 2,964,445.  
 Davis, Gerald M. 2,945,051.  
 Drechsel, Erhart K. 2,930,779.  
 Drechsel, Erhart K. 2,951,820.  
 Du Breuil, Shirley. 2,938,902.  
 Eastes, John W., and Vartanian. 2,937,155.  
 Feldman, Allan M., and Hosterman. 2,927,842.  
 Feldman, Louis I., Rigler, and Shay. 2,962,423.  
 Fidell, Louis I. 2,938,762.  
 Fiess, Norman W. 2,937,165.  
 Foglia, Andrew J. 2,954,766.  
 Frank, Albert R. 2,964,395.  
 Frazza, Everett J., and Rapoport. 2,920,097.  
 Gagliardi, George N. 2,966,512.  
 Gerhard, Gerard E. 2,936,953.  
 Goldman, Leon, Marsico, and Anderson. 2,951,838.  
 Goodman, Joseph J. 2,938,834.  
 Goodman, Joseph J., and Young. 2,923,667.  
 Goodman, Joseph J., and Young. 2,923,668.  
 Gordon, Fred M. 2,938,831.  
 Green, Arthur. 2,922,817.  
 Greif, Martin. 2,956,926.  
 Groszoz, Stephen J. 2,957,900.  
 Groszoz, Stephen J., and Day. 2,942,021.  
 Groszoz, Stephen J., and Day. 2,957,840.  
 Groszoz, Stephen J., and Hoffmann. 2,926,195.  
 Groszoz, Stephen J., and Stafiej. 2,952,645.  
 Groszoz, Stephen J., and Stafiej. 2,954,361.  
 Groszoz, Stephen J., and Stafiej. 2,954,401.  
 Hagan, James J., Clarke, and Ablondi. 2,923,665.  
 Hansen, Lloyd F., and Glorig. 2,929,320.  
 Hansen, Lloyd F., and Stearns. 2,927,345.  
 Hardy, William B., and Adams. 2,959,472.  
 Hardy, William B., Forster, and Coleman. 2,962,533.  
 Hardy, William B., and Hosler. 2,953,491.  
 Hart, William F. 2,944,991.  
 Hengel, Mathew C. 2,940,353.  
 Herbes, William F. 2,923,644.  
 Hoffmann, Arthur K., Groszoz, and Thomas. 2,934,556.  
 Hoffmann, Arthur K., Groszoz, and Thomas. 2,950,322.  
 Hoffmann, Arthur K., and Thomas. 2,931,788.  
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 Hook, Edwin O., and Loughran. 2,954,379.  
 Hosler, John F., and Hardy. 2,927,883.



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Hosler, John F., and Hardy. 2,935,445.  
 Hosler, John F., and Storfer. 2,928,878.  
 Huhtanen, Charles N., and Williams. 2,962,378.  
 Izzo, Patrick T., and Safir. 2,927,114.  
 Jen, Yun. 2,958,673.  
 Jen, Yun, and House. 2,948,652.  
 Jeppson, Morris R. 2,961,116.  
 Johnson, William P., and Elliott. 2,929,712.  
 Joyce, Asa W. 2,938,914.  
 Kaizerman, Samuel, and Mino. 2,922,801.  
 Klink, Theodore G. 2,948,435.  
 Kocay, Witold R. 2,946,762.  
 Kocay, Witold R., Clark, and Vescio. 2,936,211.  
 Kordak, John A., Munch, and Rapoport. 2,937,196.  
 Kropa, Edward L. 2,947,594.  
 Lamb, Glentworth. 2,921,881.  
 Lamb, Glentworth, and Clapp. 2,935,440.  
 Lamb, Glentworth, and Clapp. 2,935,441.  
 Lamb, Glentworth, and Clapp. 2,935,442.  
 Lamb, Glentworth, and Clapp. 2,935,443.  
 Lawe, Thomas. 2,951,882.  
 Linkenheimer, Wayne H. 2,955,981.  
 Lopresti, Rocco J., Safr, Young, and Rauh. 2,940,980.  
 Lundberg, Lennart A. 2,930,776.  
 Lundberg, Lennart A. 2,934,528.  
 Lundberg, Lennart A. 2,947,736.  
 Luttinger, Lionel B. 2,951,055.  
 Mallison, William C. 2,927,923.  
 McCormick, Jerry R. D., Sjolander, and Hirsch. 2,965,546.  
 McLean, Daniel C. 2,937,072.  
 McLean, Daniel C. 2,937,073.  
 Mehrabi-Nejad, Shahriar, and De Grunigen. 2,949,402.  
 Melchore, James A. 2,931,793.  
 Meriwether, Lewis S. 2,961,330.  
 Miller, Mary L. 2,940,952.  
 Miller, Mary L. 2,963,457.  
 Miller, Philip A., and McCormick. 2,952,587.  
 Mino, Guido, and Cordahl. 2,929,743.  
 Moretti, Louis J., and Nakajima. 2,922,726.  
 Mosby, William L., and Berry. 2,958,904.  
 Nelson, Earl W., Bondurant, and Marcot. 2,957,753.  
 O'Brien, Samuel J. 2,940,937.  
 Ogawa, Hiroshi, and Inoue. 2,929,837.  
 Oringer, Kenneth. 2,927,060.  
 Padbury, John J., Thomas, and Schuller. 2,963,396.  
 Parker, Alfred O. 2,955,925.  
 Patterson, Ernest L., and von Saltza. 2,955,110.  
 Paz, Alfred R. 2,936,487.  
 Pellon, Joseph J. 2,954,366.  
 Petropoulos, John C., and Coscia. 2,947,794.  
 Prey, Vinzenz. 2,949,471.  
 Price, John A. 2,941,969.  
 Price, John A., and Schuller. 2,923,700.  
 Quinlan, William J., and Jeffs. 2,966,530.  
 Rakowitz, David H. 2,940,729.  
 Ramirez, Fausto. 2,930,814.  
 Rane, Leo. 2,954,767.  
 Rauhut, Michael M., and Currier. 2,953,595.  
 Rauhut, Michael M., Hechenbleikner, and Currier. 2,953,596.  
 Richter, Ferdinand J., and Yen. 2,929,931.  
 Roepke, Raymond R., and Litchfield. 2,927,573.  
 Roth, Roy W., and Nagy. 2,948,699.  
 Saxon, Robert. 2,963,460.  
 Scaler, Mario, Brody, Zimmerman, and Ulmes. 2,939,759.  
 Schaefer, Frederic C. 2,920,061.  
 Schaefer, Frederic C., and Peters. 2,953,563.  
 Schlaver, Earle G., Gegner, Ballwig, and Sheridan. 2,948,999.  
 Schuller, Walter H. 2,941,990.  
 Schuller, Walter H. 2,946,761.  
 Schuller, Walter H., and Guth. 2,958,682.  
 Schuller, Walter H., and Thomas. 2,923,701.  
 Schuller, Walter H., and Thomas. 2,935,493.  
 Segro, Nicholas R., and Daniel. 2,955,015.  
 Sellers, William N. 2,931,107.  
 Semb, Joseph, and Vaughan. 2,943,090.  
 Sentz, Lemuel E., and Brosky. 2,930,275.  
 Shepard, Richard L. 2,937,182.  
 Sieger, George M., and Yen. 2,949,400.  
 Sisco, William E., Shenian, and Moyer. 2,955,144.  
 Smith, Leland L., and Marx. 2,966,486.  
 Song, John, and Fitchett. 2,966,495.  
 Sonnino, Mario. 2,950,520.  
 Sonnino, Mario. 2,960,752.  
 Spencer, Frank R. 2,965,588.  
 Stafiej, Stanley F., and Groszoz. 2,945,882.  
 Stafiej, Stanley F., and Groszoz. 2,951,867.  
 Stafiej, Stanley F., and Smalley. 2,951,402.  
 Stearns, Carl L. 2,951,791.  
 Stearns, Carl L., and Hansen. 2,954,935.  
 Stephens, James R., and Rapoport. 2,938,026.  
 Stokstad, Evan L. R., and De Renzo. 2,929,711.  
 Storch, Henry H. 2,944,553.  
 Strazdins, Edward. 2,933,486.  
 Strazdins, Edward. 2,934,463.  
 Strong, Allen K. 2,960,244.  
 Sullivan, Frank A. V. 2,960,481.  
 Szumski, Stephen A., and Petty. 2,923,688.  
 Tedeschi, Robert J. 2,955,134.  
 Thelin, Jack H., and Hardy. 2,963,504.  
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 Tsang, Sien M., and Joyce. 2,930,793.  
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 Updegraff, Ivor H., and Contras. 2,937,966.  
 Updegraff, Ivor H., and Hunt. 2,951,058.  
 Valentine, William. 2,946,724.  
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- American Seating Co.: *See*—  
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Henrikson, Bror W., Hoven, Lindberg, and Rimkus. 2,965,155.  
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Hoven, Alfred C., and Nordmark. 2,947,586.  
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Morgan, Erving B. 2,925,123.  
Nordmark, Walter E. 2,940,805.
- American Sign & Indicator Corp.: *See*—  
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- American Sisalkraft Corp.: *See*—  
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- American Smelting and Refining Co.: *See*—  
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Curnow, Leonard T., Randazzo, Skalak, and Bosiljevack. 2,956,871.  
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## Ames, Merle E. Sheathing lever. 2,956,777, 10-18-60, Cl. 254-17.

## Ames, Robert G., to The B. G. Corp. High titanium content brazing compositions. 2,950,189, 8-23-60, Cl. 75-134.

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## Amiard, Gaston, R. Heymes, and L. Velluz, to UCLAF. Process of resolving DL-serine. 2,921,959, 1-19-60, Cl. 260-534.

## Amiard, Gaston, and R. Heymes, to UCLAF. L(+)-iso-glutamine compounds and process of preparing same. 2,927,118, 3-1-60, Cl. 260-389.

## Amiard, Gaston, R. Heymes, and L. Velluz, to UCLAF. Process of producing peptides and products obtained thereby. 2,932,634, 4-12-60, Cl. 260-112.

## Amiard, Gaston, R. Heymes, B. Goffinet, and L. Velluz, to UCLAF. Alpha-peptides of lysine and method of preparing same. 2,932,635, 4-12-60, Cl. 260-112.

## Amiard, Gaston, R. Heymes, and L. Velluz, to UCLAF. Method of producing L-glutamyl peptides. 2,933,487, 4-19-60, Cl. 260-112.

## Amiard, Gaston, and L. Velluz, to UCLAF. New N-benzyl peptides and a process of making same. 2,948,714, 8-9-60, Cl. 260-112.

## Amiard, Gaston, R. Joly, and L. Velluz, to Les Laboratoires Francais de Chimiotherapie. Method of resolving DL-threonine. 2,955,135, 10-4-60, Cl. 260-534.



- Amiard, Paul, to Societe Anonyme Francaise du Ferodo. Hydraulic torque converters. 2,963,867, 12-13-60, Cl. 60-54.
- Amigh, Paul M., and R. R. Potter, to Aircraft-Marine Products, Inc. Insulation piercing crimp. 2,927,150, 3-1-60, Cl. 174-74.
- Aminoff, Tonnes H. V.: *See*—  
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- Amlott, Norman J.: *See*—  
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- Amotte, Adolph S. Luggage table. 2,951,530, 9-6-60, Cl. 155-123.
- Ammann, William L. Valve. 2,956,575, 10-18-60, Cl. 137-79.
- Amcco Tools Inc.: *See*—  
Billete, Henry R. 2,924,020.
- Ammer, Edward J., and C. K. Viland, to Tidewater Oil Co. Manufacture of antiknock gasoline. 2,938,853, 5-31-60, Cl. 208-65.
- Ammerman, George E., and G. H. Kreske, to Edwin L. Wiegand Co. Means for mounting an electric heating element. 2,924,696, 2-9-60, Cl. 219-37.
- Ammerman, George E., to Edwin L. Wiegand Co. Heater mounting means. 2,930,881, 3-29-60, Cl. 219-35.
- Ammerman, John M., to Spickelmier Industries, Inc. Window structure. 2,943,345, 7-5-60, Cl. 16-197.
- Ammon, Johannes H.: *See*—  
Jager, Raymond F., Huge, Ammon, and Bryan. 2,920,609.
- Ammon, Roscoe A., to Minneapolis-Honeywell Regulator Co. Navigation apparatus and instrument therefor. 2,927,320, 3-1-60, Cl. 343-107.
- Ammon, Roscoe A., to Minneapolis-Honeywell Regulator Co. Method of forming a moving coil instrument core. 2,940,045, 6-7-60, Cl. 324-151.
- Amneus, John S., to The Regents of the University of Michigan. Rocket motor throttling injector. 2,936,577, 5-17-60, Cl. 60-35.6.
- Amori, Joseph A. Fruit orienting and cutting system. 2,929,424, 3-22-60, Cl. 146-224.
- Amos, Homer, to Pastushin Aviation Corp. Method of and apparatus for molding and curing plastic material. 2,937,401, 5-24-60, Cl. 18-5.
- Amos, James L.: *See*—  
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- Amos, James L., F. J. Soderquist, and H. D. Boyce, to The Dow Chemical Co. Process for the preparation of styrene from N-propylbenzene. 2,939,889, 6-7-60, Cl. 260-669.
- Amos, James L., and C. T. Miller, to The Dow Chemical Co. Two-stage devolatilization process for making alkenyl-aromatic hydrocarbon-acrylonitrile copolymers. 2,941,985, 6-21-60, Cl. 260-80.5.
- Amos, James L., and F. J. Soderquist, to The Dow Chemical Co. Catalytic thermal treatment of xylene-containing hydrocarbons. 2,963,518, 12-6-60, Cl. 260-672.
- Ampatco Laboratories Corp.: *See*—  
Marggraf, Kurt A. 2,948,495.
- Marggraf, Kurt A., and Massmann. 2,932,546.
- Patin, Albert C., and Massmann. 2,944,770.
- Ampco Metal, Inc.: *See*—  
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- Klement, John F. 2,937,965.
- Klement, John F. 2,944,890.
- Ampex Corp.: *See*—  
Anderson, Charles E. 2,954,441.
- Anderson, Charles E. 2,960,563.
- Athey, Skipwith W. 2,960,566.
- Ginsburg, Charles P., Henderson, Dolby, and Anderson. 2,921,990.
- Ginsburg, Charles P., Henderson, Dolby, and Anderson. 2,956,114.
- Pfost, Robert F., and Barnhart. 2,942,061.
- Schoebel, Konrad W., and Selsted. 2,948,488.
- Selsted, Walter T., and Lindsay. 2,921,143.
- Tronslin, Cyril B. 2,960,278.
- Amphenol-Borg Electronics Corp.: *See*—  
Concelman, Carl W. 2,957,963.
- Concelman, Carl W. 2,958,052.
- Concelman, Carl W. 2,958,053.
- Concelman, Carl W. 2,958,054.
- Amphlett, Philip H., J. Dundas, and G. L. H. Woodthorpe, to Jointive Products Co. Ltd. Treatment of fibrous materials with coating or impregnating agents. 2,939,814, 6-7-60, Cl. 162-182.
- Ams, Max, Machine Co., The: *See*—  
Diezel, Willy H. 2,956,610.
- Amsel, Donald: *See*—  
Sanderson, Thomas E. F., and Amsel. 2,953,077.
- Amsel, Donald, and M. H. Wright, to Copycat Ltd. Photographic printing apparatus. 2,948,207, 8-9-60, Cl. 95-75.
- Amsler, Rudolf, to Schweizerische Industrie-Gesellschaft. Sear release for an automatic firearm. 2,921,502, 1-19-60, Cl. 89-149.
- Amsler, Rudolf, to Schweizerische Industrie-Gesellschaft. Rubber stock butt for a firearm. 2,924,904, 2-16-60, Cl. 42-74.
- Amstutz, Walter R., to Whirlpool Corp. Cabinet hinge. 2,920,341, 1-12-60, Cl. 16-171.
- Amthor Testing Instrument Co., Inc.: *See*—  
Essmann, Carl J. 2,957,334.
- Amtsberg, Lester A., to Chicago Pneumatic Tool Co. Cam clutch with ball retaining and guiding means. 2,927,445, 3-8-60, Cl. 64-29.
- Amundsen, Sverre. Corn planter. 2,948,239, 8-9-60, Cl. 111-52.
- Amundson, Moran, and P. Azadian, to Curley's Cabinet Shop. Machine for setting adhesive in door casing joints. 2,938,097, 5-24-60, Cl. 219-10.53.
- Anaconda American Brass Co., The: *See*—  
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- Anaconda Co., The: *See*—  
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- Henderson, Harry B. 2,957,576.
- Holderreed, Francis L., and Sullivan. 2,947,606.
- Laist, Frederick. 2,947,604.
- Laist, Frederick. 2,947,605.
- Anaconda Wire and Cable Co.: *See*—  
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- D'Ascoli, Ralph G. 2,948,020.
- Kraft, Frederic B., and Roberts. 2,959,279.
- Kraft, Frederic B., Roberts, and Lorenz. 2,966,258.
- Lorenz, Leo. 2,933,265.
- Anagnostopoulos, Constantine E., and R. J. Wineman, to Monsanto Chemical Co. Preparation of hydroxy mercapto butyric acids and derivatives thereof. 2,946,818, 7-26-60, Cl. 260-535.
- Anagnostou, Taki J.: *See*—  
Toussaint, Norbert F., and Anagnostou. 2,962,461.
- Anander, Andrew K., to Powers Chemco, Inc. Vacuum board film support for photomechanical camera. 2,933,014, 4-19-60, Cl. 88-24.
- Anania, Samuel F. Combination garment hanger. 2,926,822, 3-1-60, Cl. 223-89.
- Ananthanarayanan, Narayana I.: *See*—  
Aspden, Robert G., and Ananthanarayanan. 2,921,878.
- Anastasia, Angelo. Surface mounted container opener. 2,950,529, 8-30-60, Cl. 30-10.
- Anatol, Jesus: *See*—  
Velluz, Leon, Anatol, and Amiard. 2,927,107.
- Ancet, Victor M. J., and Marius Fayolle (known as Marcel Fayolle). Shuttleless weaving looms. 2,960,118, 11-15-60, Cl. 139-123.
- Anchor Chemical Co., Ltd., The: *See*—  
Oakes, Vincent, and Rydon. 2,924,599.
- Anchor Hocking Glass Corp.: *See*—  
Fouse, Frederick Z. 2,926,801.
- Fouse, Frederick Z. 2,942,720.
- Gora, Henry Z. 2,952,035.
- Gora, Henry Z. 2,952,036.
- Grumbles, Samuel C. 2,925,188.
- Stover, Harry E. 2,924,848.
- Stover, Harry E. 2,952,104.
- Stover, Harry E. 2,952,239.
- Ancienne Manufacture d'Horlogerie, Patek, Phillippe & Co., S.A.: *See*—  
Keller, Robert. 2,934,887.
- Anciens Etablissements Bac: *See*—  
Granger, Lionel. 2,935,775.
- Anciens Etablissements E. Robert, Fred Vauthier & Cie, Successeurs (Societe Anonyme): *See*—  
Robert, Georges C. H. 2,924,393.
- Andale Co.: *See*—  
Jenkins, James M. 2,921,687.
- Andersen, Algot. Surgical footwear. 2,948,972, 8-16-60, Cl. 36-8.5.
- Andersen, Arthur H.: *See*—  
Johnson, Herbert S., and Andersen. 2,921,840.
- Johnson, Herbert S., and Andersen. 2,948,587.
- Johnson, Herbert S., and Andersen. 2,958,584.
- Andersen, Axel B., to F. L. Smith & Co. Incinerator with water cooled ignition chamber. 2,960,943, 11-22-60, Cl. 110-15.
- Andersen, Carl N., to Gallowhur Chemical Corp. Herbicidal compositions. 2,955,125, 10-4-60, Cl. 260-443.
- Andersen, Clifford, to The Rudolph Wurlitzer Co. Piano action. 2,928,307, 3-15-60, Cl. 84-237.
- Andersen, Clifford W., to The Rudolph Wurlitzer Co. Tone generating assembly for electronic piano. 2,949,052, 8-16-60, Cl. 84-1.04.
- Andersen, Clifford W., to The Rudolph Wurlitzer Co. Tone generator. 2,949,053, 8-16-60, Cl. 84-1.06.
- Andersen, Clifford W., to The Rudolph Wurlitzer Co. Electronic piano. 2,952,179, 9-13-60, Cl. 84-1.24.
- Andersen, Donald L., to General Mills, Inc. Process for inhibiting corrosion of metals. 2,926,108, 2-23-60, Cl. 117-127.
- Andersen, Edwin J.: *See*—  
Irwin, William W., Andersen, and Miller. 2,957,737.
- Andersen, Hans P.: *See*—  
McQuarrie, Ernest B., and Andersen. 2,931,818.
- Andersen, Harold W. Boat mooring. 2,943,590, 7-5-60, Cl. 114-230.
- Andersen, Harold W. Boat mooring. 2,955,561, 10-11-60, Cl. 114-230.
- Andersen, Holger C., and D. R. Steele, to Engelhard Industries, Inc. Removal of acetylene from air. 2,965,439, 12-20-60, Cl. 23-4.
- Andersen, James C., to United States of America, Atomic Energy Commission. Method of making refractory bodies. 2,938,807, 5-31-60, Cl. 106-44.
- Andersen, John W., to Monsanto Chemical Co. Method for chlorinating titanium oxide material. 2,936,217, 5-10-60, Cl. 23-87.



- Andersen, John W., to Monsanto Chemical Co. Zirconium tetrachloride production. 2,940,826, 6-14-60, Cl. 23-87.
- Andersen, John W., and R. A. Heimsch, to Monsanto Chemical Co. Breaking of oxo alcohol emulsions. 2,949,427, 8-16-60, Cl. 252-320.
- Andersen, John W., and R. A. Heimsch, to Monsanto Chemical Co. Alcohol refining process. 2,965,680, 12-20-60, Cl. 260-643.
- Andersen, Konrad, and H. Lang, to Medo Apparategesellschaft m.b.H. & Co. Condensate discharging device. 2,929,559, 3-22-60, Cl. 236-55.
- Andersen, Robert A.: *See*—  
Rawlins, Robert E., and Andersen. 2,930,992.
- Andersen, Tengel: *See*—  
Anderson, Arthur C., and Andersen. 2,931,155.
- Andersen, William. Boat trailer. 2,936,088, 5-10-60, Cl. 214-396.
- Anderson, A. C., Inc.: *See*—  
Anderson, Arthur C., and Andersen. 2,931,155.
- Anderson, A. E., Construction Corp.: *See*—  
Arnold, Ellis L. 2,933,918.
- Anderson, Albert & J. M., Mfg. Co.: *See*—  
Cobbett, Leonard C., and Winkler. 2,955,275.
- Winkler, Edward D. 2,955,273.
- Anderson, Albert E., and A. K. Newman, to Textron Inc. Circuit extending range of current-responsive device. 2,942,122, 6-21-60, Cl. 290-40.
- Anderson, Albin F., to Colgate-Palmolive Co. Hair conditioning composition containing N (higher acyl colamino formyl-methyl)pyridinium chloride and a fatty acids monoglyceride sulfate anionic detergent. 2,928,772, 3-15-60, Cl. 167-87.
- Anderson, Aldine J., and L. J. Schoephoerster. Polishing machine. 2,948,005, 8-9-60, Cl. 15-98.
- Anderson, Alfred F. Direct reading micrometer gage and attachment therefor. 2,958,136, 11-1-60, Cl. 33-166.
- Anderson, Alfred and E. A. Sheet feeders. 2,954,976, 10-4-60, Cl. 271-10.
- Anderson, Amos R.: *See*—  
Smith, William E., and Anderson. 2,965,663.
- Anderson, Andrew E., and E. W. Geipel, to Crane Co. Swing check valve. 2,925,827, 2-23-60, Cl. 137-527.4.
- Anderson, Andrew W., to Scandia Packaging Machinery Co. Mechanism for feeding and covering containers. 2,948,096, 8-9-60, Cl. 53-287.
- Anderson, Archie C., to A. O. Smith Corp. Coupling for reinforced plastic pipe. 2,944,839, 7-12-60, Cl. 285-45.
- Anderson, Archie L.: *See*—  
White, Loyd J., and Anderson. 2,961,076.
- Anderson, Arleigh W.: *See*—  
Lange, William F., and Anderson. 2,965,163.
- Anderson, Arnold N.: *See*—  
Tacchella, Adolph A., and Anderson. 2,926,641.
- Anderson, Arthur A., to Specialty Mfg. Co. Valve. 2,920,860, 1-12-60, Cl. 251-340.
- Anderson, Arthur A., to The Specialty Mfg. Co. Ball type valve. 2,929,406, 3-22-60, Cl. 137-615.
- Anderson, Arthur A., to Specialty Mfg. Co. Hose reel. 2,935,996, 5-10-60, Cl. 137-355.26.
- Anderson, Arthur A., and D. A. Schultdt, to Minnesota Mining and Mfg. Co. Circumferential tape applying. 2,945,336, 7-19-60, Cl. 53-198.
- Anderson, Arthur C., and T. Andersen, to A. C. Anderson, Inc. Mower unit. 2,931,155, 4-5-60, Cl. 56-25.
- Anderson, Arthur E. Detachable base for upright containers. 2,929,601, 3-22-60, Cl. 248-346.
- Anderson, Arthur E., to Westinghouse Electric Corp. Image device. 2,945,973, 7-19-60, Cl. 313-65.
- Anderson, Arthur G., to International Business Machines Corp. Pulse reshaper. 2,943,264, 6-28-60, Cl. 328-164.
- Anderson, Arthur I., to Butler Mfg. Co. Adjustable kingpin for upper rocking fifth wheel. 2,923,560, 2-2-60, Cl. 280-407.
- Anderson, Arthur M. Broadcasting device. 2,949,312, 8-16-60, Cl. 275-15.
- Anderson, Arthur W.: *See*—  
Monroe, Roger F., and Anderson. 2,946,825.
- Windover, Francis E., Beaver, and Anderson. 2,965,508.
- Anderson, Arthur W., to The Dow Chemical Co. Hydroxypropylation of hydroxy compounds. 2,927,918, 3-8-60, Cl. 260-209.
- Anderson, Arthur W., to The Dow Chemical Co. Ether-esters. 2,933,201, 4-19-60, Cl. 213-211.
- Anderson, Arthur W. Welding device. 2,938,997, 5-31-60, Cl. 219-124.
- Anderson, Arthur W., and N. G. Merckling, to E. I. du Pont de Nemours and Co. Cerium polymerization catalysts. 2,953,531, 9-20-60, Cl. 252-429.
- Anderson, Arvid A., and R. M. Hauck, to Safway Steel Products, Inc. Scaffold bracket. 2,928,642, 3-15-60, Cl. 248-245.
- Anderson, Arvid L. Electro-magnetic means for effecting de-coupling of a pair of adjacent coupled toy train cars. of sucrose. 2,927,919, 3-8-60, Cl. 260-209.
- Anderson, Arvid R., to The Colomol Co. Mine face traversing mining head. 2,950,907, 8-30-60, Cl. 262-7.
- Anderson, Axel, to Sundstrand Corp. Index mechanism. 2,963,924, 12-13-60, Cl. 74-818.
- Anderson, Bernard E.: *See*—  
Sweet, Stuart W., and Anderson. 2,951,745.
- Anderson, Biard E., and W. C. Larson, to American Smelting and Refining Co. Sorting of scrap metal. 2,942,792, 6-28-60, Cl. 241-14.
- Anderson, Carl E. Dispensing carton. 2,953,293, 9-20-60, Cl. 229-51.
- Anderson, Carl L., and H. L. Carter, Jr., to Raytheon Co. Standard subminiature package technique. 2,920,245, 1-5-60, Cl. 317-101.
- Anderson, Carl R.: *See*—  
Gunter, Lee, Jr., and Anderson. 2,962,290.
- Anderson, Carlton C., to Phillips Petroleum Co. Receipt and storage of liquefied gases. 2,944,406, 7-12-60, Cl. 62-54.
- Anderson, Charles B. Brine shrimp hatchery and separator. 2,920,606, 1-12-60, Cl. 119-2.
- Anderson, Charles E.: *See*—  
Ginsburg, Charles P., Henderson, Dolby, and Anderson. 2,921,990.
- Ginsburg, Charles P., Henderson, Dolby, and Anderson. 2,956,114.
- Anderson, Charles E., to Ampex Corp. Wide band magnetic system. 2,954,441, 9-27-60, Cl. 179-100.2.
- Anderson, Charles E., to Ampex Corp. Magnetic tape system and method for recording and reproducing color television signals. 2,960,563, 11-15-60, Cl. 178-5.4.
- Anderson Chemical Co.: *See*—  
Smith, William E., and Anderson. 2,965,663.
- Anderson, Chester R., to Gay Engineering Corp. Vacuum cooling apparatus. 2,966,045, 12-27-60, Cl. 62-270.
- Anderson, Clayton & Co.: *See*—  
Donohue, Ray B., and Bell. 2,928,746.
- Fincher, Homer D. 2,928,737.
- Anderson, Clayton W. Valve structure. 2,923,320, 2-2-60, Cl. 137-628.
- Anderson, Cleophas E., and W. J. Walsh, to Thermo Electric Mfg. Co. Control apparatus. 2,945,184, 7-12-60, Cl. 328-85.
- Anderson, Cleophas E., D. D. Moore, and W. J. Walsh, to Thermolyne Corp. Control device. 2,960,588, 11-15-60, Cl. 200-122.
- Anderson, Clifford E.: *See*—  
Potter, Rossiter R., and Anderson. 2,924,434.
- Anderson, Clifford E., and L. F. Eckert, Jr., to ACF Industries, Inc. Stem protector and indicator. 2,934,036, 4-26-60, Cl. 116-125.
- Anderson Co., The: *See*—  
Crosby, Stephen A. 2,947,535.
- Hale, Owen W. 2,923,021.
- Krohm, Fred A. 2,922,181.
- Krohm, Fred A. 2,925,615.
- Krohm, Fred A. 2,925,616.
- Krohm, Fred A. 2,961,687.
- Krohm, Fred A. 2,964,775.
- Krohm, Fred A. 2,965,915.
- Loskill, Lawrence, and Martens. 2,947,100.
- Martens, Jack E. 2,922,639.
- Martens, Jack E. 2,924,112.
- Martens, Jack E., and Loskill. 2,951,390.
- Prince, John M. 2,961,755.
- Wise, Ralph H. 2,925,743.
- Wise, Ralph H. 2,926,351.
- Wise, Ralph H. 2,936,166.
- Wise, Ralph H. 2,938,401.
- Wise, Ralph H. 2,951,667.
- Wise, Ralph H. 2,955,816.
- Wise, Ralph H. 2,962,309.
- Wise, Ralph H. 2,966,069.
- Wise, Ralph H. 2,966,070.
- Wise, Ralph H. 2,966,071.
- Wise, Ralph H. 2,966,072.
- Wise, Ralph H. 2,966,077.
- Anderson, Conrad E., and A. M. Eckman. Portable stripe painting apparatus. 2,964,245, 12-13-60, Cl. 239-150.
- Anderson Controls, Inc.: *See*—  
Stone, Richard S., and Wolf. 2,924,691.
- Anderson, Curtis E. Cloth packaging apparatus. 2,957,288, 10-25-60, Cl. 53-118.
- Anderson, Dale K.: *See*—  
Turner, Harvey M., and Anderson. 2,953,217.
- Anderson, David C. Wrench for plumbing fixtures. 2,956,461, 10-18-60, Cl. 81-71.
- Anderson, David F., to Canadian Ingersoll-Rand Co., Ltd. Method of and portable apparatus for depositing reinforced plastic. 2,933,125, 4-19-60, Cl. 154-1.
- Anderson, Davies P.: *See*—  
Rodgers, George W., Althouse, Anderson, Bussey, and Minnear. 2,952,012.
- Anderson, Donald P., to Corco Inc. Blood oxygenator for facilitating heart surgery. 2,937,644, 5-24-60, Cl. 128-214.
- Anderson, Dorothy S. Simulated eyes for toys. 2,966,005, 12-27-60, Cl. 46-165.
- Anderson, Doyle. Multiple deck platform. 2,963,248, 12-6-60, Cl. 248-120.
- Anderson, E. Paul, and J. E. Guertin. Digital computer. 2,961,944, 11-29-60, Cl. 101-93.
- Anderson, Earl D., and H. L. Ringle, to National Steel Corp. Grain tunnel. 2,955,524, 10-11-60, Cl. 98-56.
- Anderson, Earl R., to Filper Corp. Peach half pitter. 2,943,659, 7-5-60, Cl. 146-28.
- Anderson, Edward P., to Engelhard Industries, Inc. Temperature measuring device. 2,926,320, 2-23-60, Cl. 338-31.



- Anderson, Edward P., to Engelhard Industries, Inc. Mounting device for reference cells in cathodic protection systems. 2,934,484, 4-26-60, Cl. 204—195.
- Anderson, Edward P., to Engelhard Industries, Inc. Liquid level indicator. 2,934,953, 5-3-60, Cl. 73—319.
- Anderson, Edward P., to Engelhard Industries, Inc. Electrical temperature measuring device. 2,944,236, 7-5-60, Cl. 338—26.
- Anderson, Edward P., to Engelhard Industries, Inc. Rain gauge. 2,964,943, 12-20-60, Cl. 73—171.
- Anderson, Edward P., and W. F. Doring, to Engelhard Industries, Inc. Lead wire tape. 2,951,111, 8-30-60, Cl. 174—117.
- Anderson, Edwin A. Pressure balanced fluid pressure connector. 2,950,895, 8-30-60, Cl. 251—148.
- Anderson, Edwin E.: *See—*
- Anderson, Frank P., E. E., and R. L. 2,933,213.
- Anderson, Frank P., E. E., and R. L. 2,957,358.
- Anderson, Edwin V., J. A. Mack, and A. N. Friberg, to Amco Engineering Co. Blower system. 2,934,164, 4-26-60, Cl. 183—37.
- Anderson, Eldon H. Automobile guiding device. 2,924,389, 2-9-60, Cl. 238—4.
- Anderson, Eldon H. Vehicle drier nozzle with self-positioning mount. 2,949,678, 2-23-60, Cl. 34—105.
- Anderson Electric Corp.: *See—*
- Nilsson, Nils L., and McDurmont. 2,964,585.
- Anderson, Elmer A., E. G. Foster, C. M. Gable, and G. C. Hood, to Shell Oil Co. Purification of synthetic glycerol. 2,960,447, 11-15-60, Cl. 202—51.
- Anderson, Emil E., to Pacific Car and Foundry Co. Method and apparatus for preserving rotor balance in cycloidal propellers. 2,955,660, 10-11-60, Cl. 170—147.
- Anderson, Emil E., to Pacific Car and Foundry Co. Polar coordinate control for cycloidal propellers. 2,955,661, 10-11-60, Cl. 170—148.
- Anderson, Elroy H.: *See—*
- Wolf, Forrest R., Stone, and Anderson. 2,963,678.
- Anderson, Ephraim H., and J. H. Penney, to Westinghouse Electric Corp. Bearing assembly. 2,937,059, 5-17-60, Cl. 308—187.
- Anderson, Eric E.: *See—*
- Canlin, John H., and Anderson. 2,926,209.
- Anderson, Eric W., to Dohm & Nelke, Inc. Continuous vacuumizing stuffer. 2,953,812, 9-27-60, Cl. 17—37.
- Anderson, Ernest H. Mirror support. 2,943,830, 7-5-60, Cl. 248—28.
- Anderson, Ernest H. Mirror support. 2,962,247, 11-29-60, Cl. 248—28.
- Anderson, Eugene A.: *See—*
- Anderson, Alfred and E. A. 2,954,976.
- Reid, Remer R., Sr. 2,924,257.
- Reid, Remer R., Sr. 2,924,258.
- Anderson, Eugene R., R. G. Soper, and F. L. Davis, to Electro-Lads Mfg. Co. Insect destroyer. 2,951,310, 9-6-60, Cl. 43—112.
- Anderson, Eugene S., and W. A. Budlong, to Bell Telephone Laboratories, Inc. Office code translator. 2,953,778, 9-20-60, Cl. 340—347.
- Anderson, Everett G. Occupant propelled gyral wheel. 2,953,394, 9-20-60, Cl. 280—207.
- Anderson, Florence B.: *See—*
- Baker, Clyde F., Bougie, and Anderson. 2,962,876.
- Anderson, Frank O., deceased, by H. F. Anderson, administratrix, to E. Larson. Irrigation pipe valve. 2,939,674, 6-7-60, Cl. 251—173.
- Anderson, Frank P., E. E., and R. L. Convertible all-purpose commercial vehicle. 2,933,213, 4-19-60, Cl. 214—517.
- Anderson, Frank P., E. E., and R. L. Over center lever assist mechanism. 2,957,358, 10-25-60, Cl. 74—97.
- Anderson, Frohman. Elongated channel draw bench for sheet shaping machine operating on the forming-by-drawing principle and having lubricating means for a carriage slidable in said draw bench. 2,923,342, 2-2-60, Cl. 153—32.
- Anderson, Frohman. Work gripping and drawing mechanism for sheet shaping machines operating on the forming-by-drawing principle. 2,935,114, 5-3-60, Cl. 153—32.
- Anderson, Frohman. Hold-back elements in a forming-by-drawing machine. 2,935,115, 5-3-60, Cl. 153—32.
- Anderson, Frohman. Means for supporting and guiding sheets in sheet forming machines operating on forming-by-drawing principle. 2,954,066, 9-27-60, Cl. 153—32.
- Anderson, Frohman. Deformable forming elements for shaping metal sheets drawn over the elements. 2,960,140, 11-15-60, Cl. 153—32.
- Anderson, George R., to Hagen Chemical & Controls, Inc. Method of and apparatus for regulating the delivery of feed water to steam boilers. 2,930,364, 3-29-60, Cl. 122—451.
- Anderson, George R., to Hagan Chemicals & Controls Inc. Apparatus for distributing wind from a plurality of turbine driven blowers to the bustle pipes of a plurality of blast furnaces. 2,942,866, 6-28-60, Cl. 266—30.
- Anderson, George W.: *See—*
- Goldman, Leon, Marsico, and Anderson. 2,951,838.
- Anderson, Gilbert L., J. Davis, and V. F. Davey. Production of penicillin. 2,932,607, 4-12-60, Cl. 195—36.
- Anderson, Greenwood & Co.: *See—*
- Greenwood, Marvin H. 2,930,619.
- Anderson, Harold E., and R. W. Reciprocal movement control mechanism. 2,953,928, 9-27-60, Cl. 74—95.
- Anderson, Harold J. Underwater electric lantern. 2,948,806, 8-9-60, Cl. 240—1066.
- Anderson, Harry O. Mailbox support. 2,936,143, 5-10-60, Cl. 248—145.
- Anderson, Hazel F.: *See—*
- Anderson, Frank O. 2,939,674.
- Anderson, Herbert H., and L. B. Asprey, to United States of America, Atomic Energy Commission. Solvent extraction process for plutonium. 2,924,506, 2-9-60, Cl. 23—14.5.
- Anderson, Herbert L., to United States of America, Atomic Energy Commission. Neutronic reactor. 2,953,510, 9-20-60, Cl. 204—193.2.
- Anderson, Herbert R., Jr., to Phillips Petroleum Co. Rubber composition and preparation thereof. 2,944,042, 7-5-60, Cl. 260—41.5.
- Anderson, Herbert R., Jr., to Phillips Petroleum Co. Carbon-alkali metal compounds as polymerization catalyst. 2,965,624, 12-20-60, Cl. 260—94.2.
- Anderson, Hjalmer H., to Aquamatic, Inc. Multiport valve. 2,952,274, 9-13-60, Cl. 137—625.21.
- Anderson, J. Edward C.: *See—*
- Broadwell, Robert J., and Anderson. 2,939,724.
- Anderson, James A., Jr.: *See—*
- Thorpe, Charles L., Heinrich, Hoffman, and Anderson. 2,950,242.
- Anderson, James A., Jr., J. A. Dinwiddie, and E. J. Hoffmann, to Esso Research and Engineering Co. Process for hydrosulfurizing and subsequently catalytically cracking gas oil. 2,924,568, 2-9-60, Cl. 208—89.
- Anderson, James D.: *See—*
- Matthysse, Irving F., and Anderson. 2,921,287.
- Anderson, James H., to Borg-Warner Corp. Means for fixing hubs on shafts. 2,919,940, 1-5-60, Cl. 287—52.
- Anderson, James L. and L. F. Wheeled vehicle. 2,925,186, 2-16-60, Cl. 214—506.
- Anderson, James R., to Research, Inc. Curve follower servo-system. 2,941,135, 6-14-60, Cl. 318—31.
- Anderson, John B., to United States of America, Atomic Energy Commission. Neutronic reactors. 2,920,025, 1-5-60, Cl. 204—193.2.
- Anderson, John E., to Minneapolis-Honeywell Regulator Co. Automatic pilot servosystem. 2,944,203, 7-5-60, Cl. 318—489.
- Anderson, John E., and T. B. Reed, to Union Carbide Corp. Arc torch. 2,951,143, 8-30-60, Cl. 219—75.
- Anderson, John G., and D. C. Shampang, to General Electric Co. Voltage recording device. 2,929,672, 3-22-60, Cl. 346—74.
- Anderson, John L. Dirigible lamps. 2,934,669, 4-26-60, Cl. 313—152.
- Anderson, John L., to International Business Machines Corp. Transistor saturation control. 2,947,880, 8-2-60, Cl. 307—88.5.
- Anderson, John L., to E. I. du Pont de Nemours and Co. Polymers containing extralinear cyclobutene rings. 2,961,429, 11-22-60, Cl. 260—63.
- Anderson, John L., to Polar Bear, Inc. Refrigeration system. 2,962,873, 12-6-60, Cl. 62—180.
- Anderson, John L., and J. G. Everhart, to McGraw-Edison Co. Polyphase transformer. 2,946,028, 7-19-60, Cl. 336—5.
- Anderson, John M., to General Electric Co. Two-anode discharge detector for microwaves. 2,964,675, 12-13-60, Cl. 315—39.
- Anderson, John R.: *See—*
- Steele, Arthur B., O'Neal, and Anderson. 2,932,675.
- Anderson, John R., to Bell Telephone Laboratories, Inc. Ferroelectric storage circuits. 2,928,075, 3-8-60, Cl. 340—173.
- Anderson, John R., to Bell Telephone Laboratories, Inc. Coin collector circuits for telephone systems. 2,935,567, 5-3-60, Cl. 179—6.3.
- Anderson, John R., to Bell Telephone Laboratories, Inc. Light valve logic circuits. 2,936,380, 5-10-60, Cl. 250—225.
- Anderson, John R., to Bell Telephone Laboratories, Inc. Ferroelectric storage circuits. 2,938,194, 5-24-60, Cl. 340—173.
- Anderson, John T., to Crown Cork & Seal Co., Inc. Article handling apparatus and system. 2,928,522, 3-15-60, Cl. 198—43.
- Anderson, John W. Windshield wiper blade assembly. 2,920,336, 1-12-60, Cl. 15—245.
- Anderson, John W. Composite pulley structure. 2,922,310, 1-26-60, Cl. 74—230.3.
- Anderson, John W. Automatic variable speed-limit sign. 2,922,981, 1-26-60, Cl. 340—22.
- Anderson, John W. Means affording a detachable connection between a blade unit and a pressure unit therefor. 2,924,839, 2-16-60, Cl. 15—245.
- Anderson, John W. Means affording a detachable connection between a blade unit and a pressure unit therefor. 2,924,840, 2-16-60, Cl. 15—245.
- Anderson, John W. Electric wire connector. 2,925,461, 2-16-60, Cl. 174—87.
- Anderson, John W. Method of fastening two part plastic fastener by fusion from frictional heat of rotation. 2,942,748, 6-28-60, Cl. 218—29.
- Anderson, John W. Universal joint. 2,951,354, 9-6-60, Cl. 64—14.
- Anderson, John W. Windshield wiper blade assembly and pressure device therefor. 2,955,313, 10-11-60, Cl. 15—250.42.



- Anderson, John W. Connector for a wiper assembly. 2,965,914, 12-27-60, Cl. 15—250.32.
- Anderson, Kay O.: *See*—  
Hodnefield, Claus T. 2,940,942.
- Anderson, Kenneth K. Can crushing device. 2,960,928, 11-22-60, Cl. 100—233.
- Anderson, Lawrence A.: *See*—  
Benton, Charles H., Jr., and Anderson. 2,940,900.
- Anderson, Leslie J., to Radio Corp. of America. Magnetic structure. 2,963,557, 12-6-60, Cl. 179—115.5.
- Anderson, Lewis F.: *See*—  
Anderson, James L. and L. F. 2,925,186.
- Anderson, Lyle K., P. E. Jann, and E. H. Carruthers, to Fish Processes Corp. Method of preparing fish for consumption. 2,954,298, 9-27-60, Cl. 99—111.
- Anderson, Mabry I.: *See*—  
White, Ben O., and Anderson. 2,924,040.
- Anderson Machine and Tool Works, Inc.: *See*—  
Fisher, Richard A. 2,959,403.
- Anderson, Melvin R., and L. H. Seeley, to Westinghouse Electric Corp. Luminaire. 2,926,238, 2-23-60, Cl. 240—51.11.
- Anderson, Nealie T.: *See*—  
Tarkington, Terry W., and Anderson. 2,949,432.
- Anderson, Nelson E., to Air Reduction Co., Inc. Electromagnetically locating and following workpart configurations. 2,921,179, 1-12-60, Cl. 219—125.
- Anderson, Nelson E., to Air Reduction Co., Inc. Method and apparatus for automatic torch positioning. 2,949,391, 8-16-60, Cl. 148—9.
- Anderson, Nelson E., to Air Reduction Co., Inc. Arc circuit control. 2,964,681, 12-13-60, Cl. 315—326.
- Anderson, Nelson E., to Air Reduction Co., Inc. Wire feed control. 2,966,291, 12-27-60, Cl. 226—2.
- Anderson, Noel M. Pitless adapter. 2,949,961, 8-23-60, Cl. 166—85.
- Anderson, Noel M., and R. F. Davis, to Check-All Valve Co. Check valve. 2,956,584, 10-18-60, Cl. 137—541.
- Anderson, Norman L., to Allied Chemical Corp. Red ball point fountain pen inks and colorants therefor. 2,966,417, 12-27-60, Cl. 106—22.
- Anderson, Norman L., to Allied Chemical Corp. Red inks for ball point fountain pens and novel colorants therefor. 2,966,418, 12-27-60, Cl. 106—22.
- Anderson, Norman L., to Allied Chemical Corp. Black inks for ball point fountain pens. 2,966,419, 12-27-60, Cl. 106—23.
- Anderson, Norman L., to Allied Chemical Corp. Blue inks for ball point fountain pens. 2,966,680, 12-27-60, Cl. 106—23.
- Anderson, Olof V. Cuff link. 2,929,122, 3-22-60, Cl. 24—98.
- Anderson, Olof V., to Anson Inc. Hinge construction. 2,939,169, 6-7-60, Cl. 16—159.
- Anderson, Olof V., to Anson, Inc. Cuff link. 2,960,738, 11-22-60, Cl. 24—97.
- Anderson, Orofino B.: *See*—  
Mettetal, Donald, Jr. 2,946,328.
- Anderson, Orson L., P. Andreach, Jr., and H. J. McSkimin, to Bell Telephone Laboratories, Inc. Method and apparatus for measuring predetermined pressures. 2,938,386, 5-31-60, Cl. 73—398.
- Anderson, Oscar A.: *See*—  
Kerns, Quentin A., and Anderson. 2,935,686.
- Anderson, Patricia T.: *See*—  
Stewart, Aubrey P., Johnson, and Anderson. 2,924,531.
- Anderson, Paul: *See*—  
Morris, Walter H., and Anderson. 2,936,645.
- Anderson, Paul E., to Harvey Machine Co., Inc. Missile launching apparatus. 2,958,260, 11-1-60, Cl. 89—1.7.
- Anderson, Paul E., and L. L. Mazza, to Western Electric Co., Inc. Wire-straighteners. 2,920,677, 1-12-60, Cl. 153—93.
- Anderson, Paul E., T. Q. Crompt, P. I. Evans, and M. Ransom, to United States of America, Army. Automatic repeating rocket launcher. 2,933,981, 4-26-60, Cl. 89—1.7.
- Anderson, Paul E., and K. Sanders, to Western Electric Co., Inc. Article feeding and coating device. 2,940,419, 6-14-60, Cl. 118—219.
- Anderson, Paul E., and C. Gould, to Western Electric Co., Inc. Machine for cleaning wire spring relays. 2,951,253, 9-6-60, Cl. 15—21.
- Anderson, Paul E., and R. D. Berg, to Western Electric Co., Inc. Machine for forming and assembling parts. 2,955,394, 10-11-60, Cl. 53—64.
- Anderson, Paul T.: *See*—  
Ramsey, James B., and Anderson. 2,942,081.
- Anderson, Paul Z.: *See*—  
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- Anderson, Peter B. Spring release mounting for cultivator shank. 2,944,613, 7-12-60, Cl. 172—266.
- Anderson, Philip W., to Bell Telephone Laboratories, Inc. Non-linear reactance amplification. 2,958,045, 10-25-60, Cl. 330—5.
- Anderson, Ralph A., to Information Systems, Inc. Data reduction system. 2,922,990, 1-26-60, Cl. 340—174.
- Anderson, Ralph F.: *See*—  
Anderson, Swan F. 2,957,435.
- Anderson, Swan F. and R. F. 2,926,974.
- Anderson, Ralph F. Method and apparatus for dispensing frozen confection and flavoring syrup. 2,919,724, 1-5-60, Cl. 141—9.
- Anderson, Ralph F. Multi-stack cup magazine. 2,919,830, 1-5-60, Cl. 221—11.
- Anderson, Ralph F. Cap sorting apparatus. 2,922,548, 1-26-60, Cl. 221—156.
- Anderson, Ralph F., to National Lock Co. Hinge swivel for chair back. 2,959,213, 11-8-60, Cl. 155—191.
- Anderson, Ralph P., and R. F. Dehn, to The Cleveland Crane & Engineering Co. Hydraulic press. 2,958,199, 11-1-60, Cl. 60—97.
- Anderson, Ralph R., and R. F. Dehn, to The Cleveland Crane & Engineering Co. Hydraulic shear. 2,931,182, 4-5-60, Cl. 60—97.
- Anderson, Ralph S., and P. T. Fisher, to Union Carbide Corp. Thermosetting composition comprising an unsaturated polyester resin, vinyl monomer and a polyalkylene glycol and process for producing same. 2,957,843, 10-25-60, Cl. 260—33.2.
- Anderson, Ralph V. Signaling apparatus for handling coded information. 2,943,309, 6-28-60, Cl. 340—324.
- Anderson, Ralph W.: *See*—  
Anderson, Harold E. and R. W. 2,953,928.
- Anderson, Raymond A.: *See*—  
Kremple, Frank M., and Anderson. 2,950,093.
- Anderson, Raymond L.: *See*—  
Anderson, Frank P., E. E. and R. L. 2,933,213.
- Anderson, Frank P., E. E. and R. L. 2,957,358.
- Anderson, Reynold M., to Allis-Chalmers Mfg. Co. Hydraulic control system. 2,936,037, 5-10-60, Cl. 180—79.2.
- Anderson, Reynold M., to Allis-Chalmers Mfg. Co. Hydraulic control system. 2,946,144, 7-26-60, Cl. 37—129.
- Anderson, Richard F.: *See*—  
Ganske, Kingston E., and Anderson. 2,945,083.
- Anderson, Richard F., D. B. Kececioglu, and R. T. Baugh, to Allis-Chalmers Mfg. Co. Communion apparatus. 2,959,364, 11-8-60, Cl. 241—200.
- Anderson, Richard G. Therapeutic device. 2,956,565, 10-18-60, Cl. 128—369.
- Anderson, Robert, and P. R. Hunt, to Mission Mfg. Co. Fuel-pump carburetor. Re. 24,768, 1-19-60, Cl. 123—73.
- Anderson, Robert C., to Imperial Chemical Industries Ltd. Manufacture of trialkyl boranes. 2,951,093, 8-30-60, Cl. 260—606.5.
- Anderson, Robert C., and G. J. Sleddon, to Imperial Chemical Industries Ltd. Production of alkyl halosilanes by reacting silicates with alkyl aluminum halides. 2,949,481, 8-16-60, Cl. 260—448.2.
- Anderson, Robert H.: *See*—  
Wilson, William C., and Anderson. 2,934,129.
- Wilson, William C., and Anderson. 2,934,189.
- Anderson, Robert J.: *See*—  
Angell, Pierce T., Anderson, and Hopper. 2,944,786.
- Anderson, Robert J., to The Andersons. Corn sheller having automatic rotor deactivator. 2,959,174, 11-8-60, Cl. 130—6.
- Anderson, Robert J., and L. M. Schenck, to General Aniline & Film Corp. Process of preparing ester type anionic surface active agents. 2,923,724, 2-2-60, Cl. 260—400.
- Anderson, Robert L. Pipe non-freeze protector. 2,937,009, 5-17-60, Cl. 257—122.
- Anderson, Robert L., and H. McDonald, to Continental Oil Co. Method of preparing oil soluble sulfonates. 2,924,618, 2-9-60, Cl. 260—505.
- Anderson, Robert W.: *See*—  
Sell, John, Jr., Anderson, and Murray. 2,945,265.
- Anderson, Roy A.: *See*—  
Lancaster, Earl B., and Anderson. 2,929,010.
- Anderson, Roy E.: *See*—  
Sampson, Ernest S., and Anderson. 2,951,360.
- Anderson, Roy E., to General Electric Co. Contour measuring method and probe. 2,935,681, 5-3-60, Cl. 324—61.
- Anderson, Roy E., F. W. Cole, J. W. Kennedy, and J. L. Lamberson, Jr., to Jersey Production Research Co. Testing tool. 2,963,092, 12-6-60, Cl. 166—121.
- Anderson, Roy J. Automatic toaster. 2,926,596, 3-1-60, Cl. 99—331.
- Anderson, Rral L. Combination boat and utility trailer. 2,953,266, 9-20-60, Cl. 214—506.
- Anderson, Sidney E., to Deere & Co. Conveyor means for corn harvester. 2,946,170, 7-26-60, Cl. 56—18.
- Anderson, Sidney L. Outboard motor supporting trailer attachment. 2,939,670, 6-7-60, Cl. 248—351.
- Anderson, Swan F.,  $\frac{1}{2}$  to R. F. Anderson. Apparatus for forming frozen stick confections. 2,957,435, 10-25-60, Cl. 107—8.
- Anderson, Swan F. and R. F. Balancing way. 2,926,974, 3-1-60, Cl. 308—203.
- Anderson, Thomas R., to Swift & Co. Manner of handling meat. 2,948,623, 8-9-60, Cl. 99—169.
- Anderson, Thorwald. Game. 2,964,321, 12-13-60, Cl. 273—95.
- Anderson, Tore N., and G. W. Thompson, to Airtron, Inc. Flexible wave-guide tubing. 2,930,007, 3-22-60, Cl. 333—95.
- Anderson, V. E., Mfg. Co., Inc.: *See*—  
Cline, Robert S. 2,930,251.
- Cline, Robert S. 2,952,050.
- Anderson, Vernal A., to Bendix Aviation Corp. Valve for master cylinder. 2,934,902, 5-3-60, Cl. 60—54.6.
- Anderson, Vernal A., to Bendix Aviation Corp. Parking brake. 2,941,630, 6-21-60, Cl. 188—204.
- Anderson, Verner, to International Cigar Machinery Co. Strip detector for cigar rolling device. 2,953,135, 9-20-60, Cl. 131—21.



- Anderson, Victor C., to The Regents of the University of California. Delay line time compressor. 2,958,039, 10-25-60, Cl. 324-77.
- Anderson, W. Carl: *See*—  
Phillips, Ernest T., and Anderson. 2,964,281.
- Anderson, W. Carl, and S. L. Dewey, to The Union Metal Mfg. Co. Portable scale mechanism. 2,940,746, 6-14-60, Cl. 265-40.
- Anderson, Walter A., to Underwood Corp. Actuating mechanism for ten key adding machines. 2,942,776, 6-28-60, Cl. 235-60.
- Anderson, Walter L., and C. E. Miller, to United States of America, Air Force. Optical radar simulator and cross-section analyzer. 2,960,779, 11-22-60, Cl. 35-10.4.
- Anderson, Warner H., to Channel Master Corp. Multi-band television antenna. 2,921,310, 1-12-60, Cl. 343-815.
- Anderson, Warren A., and J. E. Smith, to United States of America, Army. Electrical cancellation and indicating system. 2,958,827, 11-1-60, Cl. 328-165.
- Anderson, Wilbur G., Jr., to American Box Board Co. Carton for cups. 2,919,844, 1-5-60, Cl. 229-28.
- Anderson, Wilbur G., Jr., to American Box Board Co. Pilfer-proof box. 2,961,144, 11-22-60, Cl. 229-45.
- Anderson, Wilbur T. Lawn sprinkler supporting devices. 2,924,412, 2-9-60, Cl. 248-80.
- Anderson, William G.: *See*—  
Wirkler, Walter H., Anderson, and Willis. 2,934,267.
- Anderson, William K., and W. E. Ray, to United States of America, Atomic Energy Commission. Control rod alloy containing noble metal additions. 2,935,401, 5-3-60, Cl. 75-173.
- Anderson, William S., to Shell Oil Co. Low pressure polymerization of dienes. 2,943,987, 7-5-60, Cl. 204-162.
- Anderson, William S., and L. M. Porter, to Shell Oil Co. Process of polymerizing a conjugated diene. 2,965,625, 12-20-60, Cl. 260-94.3.
- Anderson, William T., to The Doall Co. Guard for protecting the cutting edges of saw blades. 2,954,118, 9-27-60, Cl. 206-59.
- Anderson, Wilmer C., to The Liquidometer Corp. Liquid level measuring system. 2,931,224, 4-5-60, Cl. 73-295.
- Andersson, The: *See*—  
Anderson, Robert J. 2,959,174.
- Andersson, Arne O. R., to Jarnhs Elektriska Aktiebolag. Printing plates for addressing machines. 2,939,958, 6-7-60, Cl. 250-67.
- Andersson, Carl G., and G. E. H. Ekstrom, to E. A. Bergs Fabriks Aktiebolag. Tool and method of making same. 2,939,214, 6-7-60, Cl. 30-266.
- Andersson, Nils V.: *See*—  
Jung, Erland V., Monteus, and Andersson. 2,953,250.
- Andersson, Sven W. E., to Philco Corp. Electromagnetic valves. 2,931,619, 4-5-60, Cl. 251-139.
- Andersson, Torsten S. A., and N. E. Bjursten. Folding wheel chair. 2,927,631, 3-8-60, Cl. 155-140.
- Anderton, James, to Coal Industry (Patents) Ltd. Gutter loader mining machines. 2,962,271, 11-29-60, Cl. 262-8.
- Anderton, Walter C. Mechanical pencil with eraser. 2,941,509, 6-21-60, Cl. 120-22.
- Andis Clipper Co.: *See*—  
Andis, Ernest R. 2,963,016.  
Andis, Mathew. 2,959,855.
- Andis, Ernest R., to Andis Clipper Co. Catapult type bait caster. 2,963,016, 12-6-60, Cl. 124-7.
- Andis, Mathew, to Andis Clipper Co. Mechanism for coupling the motor armature to the shear plate of a clipper. 2,959,855, 11-15-60, Cl. 30-208.
- Ando, Tsuneo, and I. Irie, to Kawasaki Jukogyo Kabushiki Kaisha (Kawasaki Dockyard Co., Ltd.). Manoeuvring arrangement of steam turbine. 2,959,182, 11-8-60, Cl. 137-18.
- Andolino, Anthony J.: *See*—  
Allen, Richard G., and Andolino. 2,927,886.
- Andouart, Léon: *See*—  
Biche, Jean, and Andouart. 2,941,348.  
Biche, Jean, and Andouart. 2,962,756.
- Andrade, Clarence P., Jr.: *See*—  
De Florez, Luis, Smith, and Andrade. 2,961,778.
- Andrade, Donald S., to Parker Rust Proof Co. Coated metals and solutions and process for making the same. 2,927,046, 3-1-60, Cl. 117-127.
- Andrade, Jeremias, and M. A. Sousa, to Bristol Mfg. Corp. Method of making shoes. 2,962,738, 12-6-60, Cl. 12-142.
- Andras, John C.: *See*—  
Browne, Paul W. 2,926,923.  
Browne, Paul W. 2,938,306.
- Andras, Julius. Propulsion of boats or the like. 2,943,440, 7-5-60, Cl. 60-35.5.
- Andre, Henri G., to Yardney International Corp. Battery electrode and method of making same. 2,932,680, 4-12-60, Cl. 136-30.
- Andre-Matic Machinery Co.: *See*—  
Andre, Noble. 2,926,782.
- Andre, Noble, to Andre-Matic Machinery Co. Carrier for cans and handle. 2,962,782, 3-1-60, Cl. 206-65.
- André, Pierre C. F.: *See*—  
Jumelle, Louis F., and André. 2,960,281.
- Andre, Robert K. Radio. 2,936,368, 5-10-60, Cl. 250-14.
- Andre Rubber Co. Ltd.: *See*—  
Hobson, Eric D. 2,939,481.
- Andrea, John J., and E. L. Martin, to Collins Radio Co. Retaining clip. 2,956,215, 10-11-60, Cl. 317-234.
- Andreadis, John T., and S. Miklean; said Miklean assor, to said Andreadis. Dihydroxyacetone compositions for tanning the human epidermis. 2,949,403, 8-16-60, Cl. 167-90.
- Andreas, Ehrhardt. Impact mill. 2,957,633, 10-25-60, Cl. 241-57.
- Andreasen, Holger: *See*—  
Hoppermann, Ole L. 2,931,909.
- Andreasen, Norman H. Safety platform for sliding poles. 2,945,550, 7-19-60, Cl. 182-137.
- Andreasen, Raymond N. Bed frame construction. 2,930,052, 3-29-60, Cl. 5-201.
- Andreasen, Raymond N. Bed frame construction. 2,931,053, 4-5-60, Cl. 5-201.
- Andreasen, Sigurd J.: *See*—  
Meyer, Owen A., and Andreasen. 2,957,428.
- Andreasson, Rudolf W. Oil tube drill. 2,935,906, 5-10-60, Cl. 77-68.
- Andreasson, Rudolf W. Deep-hole drill. 2,954,712, 10-4-60, Cl. 77-68.
- Andreatch, Peter, Jr.: *See*—  
Anderson, Orson L., Andreatch, and McSkimin. 2,938,386.
- Andreesen, Bernhard. Olive packing machine. 2,957,290, 10-25-60, Cl. 53-240.
- Andreesen, Paul: *See*—  
Leathers, Ward, Panissidi, and Andreesen. 2,929,213.
- Andreesen, Paul, and A. J. Folmar, to International Business Machines Corp. Line spacing control for record feeding devices. 2,963,139, 12-6-60, Cl. 197-133.
- Andren, Ingmar K. L., and G. F. I. Ridderström, to Aktiebolaget Linde Maskiner. Pneumatic grain cleaner. 2,931,500, 4-5-60, Cl. 209-139.
- Andren, Karl H., to Artos Engineering Co. Wire length measuring, marking and severing equipment. 2,929,136, 3-22-60, Cl. 29-417.
- Andren, Karl H., to Artos Engineering Co. Art of attaching terminals to electric conductors. 2,929,433, 3-22-60, Cl. 153-1.
- Andres, Helmut, E. von Hayn, and E. Roemert. Railroad bed cleaning machine. 2,921,636, 1-19-60, Cl. 171-16.
- Andres, Karlheinz, R. Wegler, and G. Frank, to Farbenfabriken Bayer Aktiengesellschaft. Polyepoxide-amine compositions. 2,921,037, 1-12-60, Cl. 260-2.
- Andres, Raymond J., to Motorola, Inc. Process for plating a silicon base semiconductive unit with nickel. 2,962,394, 11-29-60, Cl. 117-213.
- Andresen, Gilbert J. C. Transistor amplitude inverter suppressor system. 2,961,552, 11-22-60, Cl. 307-88.5.
- Andresen, Hilmar A.: *See*—  
Andresen, Raymond H. and H. A. 2,919,939.
- Kargard, Raymond, P., and A. C., and H. A. and R. H. Andresen. 2,942,567.
- Andresen, Raymond H.: *See*—  
Kargard, Raymond, P., and A. C., and H. A. and R. H. Andresen. 2,942,567.
- Andresen, Raymond H. and H. A., to Gits Bros. Mfg. Co. High temperature shaft seal. 2,919,939, 1-5-60, Cl. 286-11.12.
- Andress, Harry J., Jr., to Socony Mobil Oil Co., Inc. Stabilized fuel oil containing tertiary alkyl primary amines. 2,945,749, 7-19-60, Cl. 44-72.
- Andress, Harry J., Jr., to Socony Mobil Oil Co., Inc. Antistall gasoline composition. 2,959,473, 11-8-60, Cl. 44-76.
- Andress, Harry J., Jr., to Socony Mobil Oil Co., Inc. Gasoline containing a tetrahydroprymidine to reduce carburetor deposits. 2,961,308, 11-22-60, Cl. 44-63.
- Andress, Harry J., Jr., to Socony Mobil Oil Co., Inc. Preparation of aldehyde-polyamine-hydroxyaromatic compound condensates and hydrocarbon fractions containing the same. 2,962,442, 11-29-60, Cl. 252-51.5.
- Andrew, Arthur L., to Magnetic Heating Corp. Method and apparatus for forming lap welded tubing. 2,922,020, 1-19-60, Cl. 219-67.
- Andrew Corp.: *See*—  
Scheldorf, Marvel W. 2,937,372.  
Scheldorf, Marvel W. 2,945,231.  
Yang, Richard F. H. 2,954,556.  
Yang, Richard F. H. 2,954,557.
- Andrew, David J., and W. M. Smith, to The Ensign-Bickford Co. Ignition transmission line and systems including the same. 2,923,239, 2-2-60, Cl. 102-27.
- Andrew, Eugene A.: *See*—  
Cook, Ralph L., and Andrew. 2,935,414.
- Andrew, Eugene A., to Olin Mathieson Chemical Corp. Treatment of plastics. 2,929,107, 3-22-60, Cl. 18-47.5.
- Andrew, Herbert F., and W. E. Stephen, to Imperial Chemical Industries Ltd. New monoazo dyestuffs. 2,951,837, 9-6-60, Cl. 260-153.
- Andrews, Albert, deceased (H. Andrews, heir), to H. B. Van Valkenburgh. Pump jacks and the like. 2,950,704, 8-30-60, Cl. 121-123.
- Andrews, Alvin J.: *See*—  
Pollock, Lyle W., Andrews, and Pennington. 2,920,113.
- Andrews, Alvin J., to Phillips Petroleum Co. Process for treating carbon black pellets. 2,953,437, 9-20-60, Cl. 23-209.6.
- Andrews, Clayton F., D. W. Chamberlin, and J. T. Neiswinter, to American Telephone and Telegraph Co. Test set for selector mechanism. 2,948,777, 8-9-60, Cl. 178-69.
- Andrews, Fred N., to Purdue Research Foundation. Preservation of silage. 2,940,857, 6-14-60, Cl. 99-8.



- Andrews, Frederick T., Jr., to Bell Telephone Laboratories, Inc. Magnetic core circuit. 2,930,903, 3-29-60, Cl. 307-88.
- Andrews, Frederick T., Jr., and H. Mann, to Bell Telephone Laboratories, Inc. Pulse modulation system framing circuit. 2,949,503, 8-16-60, Cl. 179-15.
- Andrews, Frederick W., W. A. Miller, and W. L. Ludwig, to International Latex Corp. Airtight helmet. 2,935,985, 5-10-60, Cl. 128-141.
- Andrews, Glenn E., and F. B. Aubert, to F. B. Aubert. Safety control apparatus for fuel burners. 2,953,196, 9-20-60, Cl. 158-128.
- Andrews, Helen: *See*—
- Andrews, Albert. 2,950,704.
- Andrews, Jesse: *See*—
- Forrest, Hugh S., Myers, and Van Baalen. 2,940,966.
- Andrews, John L., to General Electric Co. Drainage control means for dishwashing apparatus. 2,954,791, 10-4-60, Cl. 134-186.
- Andrews, Maurice L.: *See*—
- Wilhelm, Harley A., and Andrews. 2,942,944.
- Andrews, Maynard W. High speed ignition point. 2,938,085, 5-24-60, Cl. 200-27.
- Andrews, Robert J., to Bell Telephone Laboratories, Inc. Electronic switching network. 2,951,125, 8-30-60, Cl. 179-18.
- Andrews, Sarah P. Abrasive cleaning implement. 2,921,417, 1-19-60, Cl. 51-185.
- Andrews, Theodore E., to General Electric Co. Adjustable temperature responsive control for electrical devices. 2,930,874, 3-29-60, Cl. 200-138.
- Andrews, Theodore E., to General Electric Co. Percolator pump construction. 2,953,100, 9-20-60, Cl. 103-231.5.
- Andrews, Theodore E., to General Electric Co. Jewel and neon indicator lamp mounting. 2,959,668, 11-8-60, Cl. 240-152.
- Andrews, Walter C.,  $\frac{1}{2}$  to A. C. Furth. Packaging machine. 2,930,476, 3-29-60, Cl. 198-35.
- Andrews, Walter J.: *See*—
- Segerstrom, Henry C., and Andrews. 2,932,927.
- Andriola, Edward A. Arc shield for providing a uniform inert-gas mantle. 2,928,933, 3-15-60, Cl. 219-147.
- Andriot, George W.: *See*—
- Dahlgren, John A., and Andriot. 2,955,441.
- Andrisek, John A., and T. R. Gill, to Metal Finishers, Inc. Method of preparing porous chromium wearing surfaces. 2,947,674, 8-2-60, Cl. 204-141.
- Andriulis, Vytautas, to Scientific Laboratory Developments, Inc. Television picture tube. 2,927,236, 3-1-60, Cl. 313-77.
- Andrus, Budd W., and G. A. Hallstrom. Lumber blanking and chipping machine. 2,966,182, 12-27-60, Cl. 144-176.
- Andrzejewski, Matthew S., to American Steel Foundries. Hand brake. 2,961,071, 11-22-60, Cl. 188-46.
- Analex Corp.: *See*—
- House, Frank R. 2,959,369.
- Marsh, Lynn W., Jr., and Rosen. 2,959,349.
- Marsh, Lynn W., Jr., and Rosen. 2,959,734.
- Anemostat Corp. of America: *See*—
- Honerkamp, Friedrich, and Lundberg. 2,922,324.
- Kurth, Franz J., Honerkamp, Phillips, and F. B. Kurth. 2,960,602.
- Phillips, Leonard R. 2,933,035.
- Phillips, Leonard R., and Miller. 2,922,580.
- Anetsberger Brothers, Inc.: *See*—
- Anetsberger, Joseph F., to Anetsberger Brothers, Inc. Adjustable dough sizing guide mechanism for sheeters. 2,960,044, 11-15-60, Cl. 107-12.
- Angelini, Edile R. Display panel construction. 2,920,410, 1-12-60, Cl. 40-126.
- Angel, Harald, and J. Christ, to Elin Aktiengesellschaft fur elektrische Industrie. X-ray apparatus. 2,924,716, 2-9-60, Cl. 250-58.
- Angel, Harald, and H. Giesswein, to Elin Aktiengesellschaft fur elektrische Industrie. X-ray apparatus. 2,929,930, 3-22-60, Cl. 250-57.
- Angele, Wilhelm, and A. L. Herrmann, to United States of America. Army. Electrical connector for flat cables. 2,952,002, 9-6-60, Cl. 339-75.
- Angelery, Henry W. Control device for regulating flow of fluids in heat exchanging relation. 2,946,508, 7-26-60, Cl. 236-80.
- Angeles Metal Trim Co.: *See*—
- Lawlor, Reed C. 2,946,099.
- Angelkorte, Johannes W., to Union Carbide Corp. Isomerization of para-dichlorobenzene. 2,920,109, 1-5-60, Cl. 260-650.
- Angell, Paul M. Process of and apparatus for producing cracker meal and the like. 2,956,519, 10-18-60, Cl. 107-4.
- Angell, Pierce T., and J. C. Wise, to Thompson Ramo Wooldridge Inc. Double wall turbine shroud. 2,935,294, 5-3-60, Cl. 253-39.
- Angell, Pierce T., R. J. Anderson, and M. M. Topper, to Thompson Ramo Wooldridge Inc. Super and subsonic vaneless nozzle. 2,944,786, 7-12-60, Cl. 253-55.
- Angelo, Joseph J.: *See*—
- Weatherly, William G., and Angelo. 2,932,993.
- Weatherly, William G., and Angelo. 2,932,994.
- Angelo, Rudolph J.: *See*—
- Butler, George B., Angelo, and Crawshaw. 2,926,161.
- Anger, Ernest G., to Square D Co. Transistorized acceleration time rate delay circuit for direct current motor speed controller. 2,929,980, 3-22-60, Cl. 318-391.
- Anger, Ernest G., and V. E. Young, to Square D Co. Generator field excitation circuits. 2,933,670, 4-19-60, Cl. 322-28.
- Angham, James D., and G. A. Brewer, to The Hallden Machine Co. Energy-balanced drive of a rotary system at cyclically repeating continuously varying velocity. 2,957,363, 10-25-60, Cl. 74-437.
- Angle, Ancil. Apple picker. 2,935,836, 5-10-60, Cl. 56-339.
- Anglin, J. Hill, Jr. Process for recovering a metal tungstate from an alkaline irona process brine. 2,962,349, 11-29-60, Cl. 23-51.
- Anglo Paper Products, Ltd.: *See*—
- Mardon, James, and Nicholl. 2,929,449.
- Angular Lock Co. Inc.: *See*—
- Chris, Theodore S. 2,961,077.
- Angus, George, & Co. Ltd.: *See*—
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- Anheuser-Busch, Inc.: *See*—
- Buehler, Henry J. 2,923,663.
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- Chatten, Victor H. 2,936,100.
- Cirillo, Vincent P., Hardwick, and Seeley. 2,928,210.
- Commerford, John D., and Scallet. 2,944,913.
- Scallet, Barrett L., and Sowell. 2,951,776.
- Schwaiger, Frank H., Gadsby, and Schwaiger. 2,936,236.
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- Anik, Bernard: *See*—
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- Lehn, John U. 2,947,107.
- Woolworth, Richard G. 2,920,758.
- Anjeskey, Alphonse F., to The Cleveland Crane & Engineering Co. Overhead monorail system. 2,947,261, 8-2-60, Cl. 104-98.
- Ankeny, Thomas G., and J. W. Arnett, to General Motors Corp. Friction material. 2,945,291, 7-19-60, Cl. 29-182.5.
- Ankert, Rudolf: *See*—
- Rott, Horst-Gunther, Gruber, Beha, and Ankert. 2,936,930.
- Anker-Werke A.G.: *See*—
- Theenhausen, Heinrich, and Wank. 2,929,344.
- Ankney, Robert W. Can closures. 2,923,446, 2-2-60, Cl. 222-570.
- Ankney, Robert W. Dispensing container closing device. 2,961,132, 11-22-60, Cl. 222-480.
- Ankney, Robert W. Dispenser closures. 2,961,133, 11-22-60, Cl. 222-548.
- Ankud, Stanley. Multiplicate writing instrument. 2,944,519, 7-12-60, Cl. 120-42.13.
- Annable, Weldon G., and W. L. Jacobs, to The Pure Oil Co. Process for enhancing the octane number of naphthas boiling within the gasoline range. 2,925,373, 2-16-60, Cl. 208-57.
- Annable, Weldon G., and W. L. Jacobs, to The Pure Oil Co. Process for enhancing the octane number of catalytically cracked naphtha fractions. 2,935,460, 5-3-60, Cl. 208-70.
- Annable, Weldon G., and W. L. Jacobs, to The Pure Oil Co. Refining process. 2,936,281, 5-10-60, Cl. 208-27.
- Annable, Weldon G., and R. M. Haines, to The Pure Oil Co. Method of refining aromatic extract oils with barium compounds. 2,938,862, 5-31-60, Cl. 208-263.
- Annable, Weldon G., R. M. Haines, and W. L. Jacobs, to The Pure Oil Co. Method of improving olefinic gasoline blending components. 2,963,420, 12-6-60, Cl. 208-144.
- Anear, John D., H. White, and S. L. Holt, to Power Jets (Research and Development) Ltd. Stator blade mounting of condition sensing elements in fluid flow machines. 2,946-221, 7-26-60, Cl. 73-212.
- Annen, James E., Sr., to KVP Sutherland Paper Co. Cellular cartons. 2,955,736, 10-11-60, Cl. 229-28.
- Anner, Georg: *See*—
- Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 2,934-543.
- Wettstein, Albert, and Anner. 2,957,894.
- Wettstein, Albert, Anner, Heusler, Ueberwasser, Wieland, Schmidlin, and Billeter. 2,957,868.
- Anness, Russell W., to Lengsfeld Brothers Inc. Carton forming and loading apparatus. 2,939,258, 6-7-60, Cl. 53-183.
- Annis, Mark H., and C. A. La Salle. Portable platform elevating device. 2,945,551, 7-19-60, Cl. 182-141.
- Annis, Max R., and F. A. Brooks, Jr., to Jersey Production Research Co. Method and apparatus for exciting atoms in fluids. 2,920,201, 1-5-60, Cl. 250-49.5.
- Annis, Richard R., to John Oster Mfg. Co. Multi-speed salient pole universal motor with split wound field. 2,923,873, 2-2-60, Cl. 318-354.
- Annis, Robert B. Under drive balancing machine. 2,943,491, 7-5-60, Cl. 73-477.
- Annis, Roger L., to Diamond Alkali Co. Method of producing finely divided CaCO<sub>3</sub>. 2,941,860, 6-21-60, Cl. 23-66.
- Annis, Roger L., to Diamond Alkali Co. Chemical apparatus. 2,946,572, 7-26-60, Cl. 257-86.
- Anocut Engineering Co.: *See*—
- Williams, Lynn A. 2,950,239.
- Williams, Lynn A., and Gradolph. 2,961,394.



- Anoff, Seymour M. Food preserving cabinet construction. 2,964,609, 12-13-60, Cl. 219-35.
- Anschel, Joachim. Relaxin composition and process for preparing same. 2,964,448, 12-13-60, Cl. 167-74.
- Ansel, Eldan L. Reel bats for harvesters. 2,949,720, 8-23-60, Cl. 56-220.
- Ansel, Harry R., to Wm. J. Stange Co. Meat product and method of making the same. 2,952,552, 9-13-60, Cl. 99-208.
- Ansell, Eldred S.: *See*—  
Ray, Robert F., Ansell, and Stephens. 2,955,787.
- Anselmi, Eugenio: *See*—  
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- Ansingh, Carl H., to P. L. Robertson Mfg. Co. Ltd. Screw driver bit. 2,936,010, 5-10-60, Cl. 145-50.
- Ansite, William K.: *See*—  
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- Ansley, Arthur C., to Arthur Ansley Mfg. Co. Electrical unit. 2,958,013, 10-25-60, Cl. 317-101.
- Ansley, Arthur, Mfg. Co.: *See*—  
Ansley, Arthur C. 2,958,013.
- Anslow, Winston K., and G. D. Wilkin, to Glaxo Laboratories Ltd. Antibiotics. 2,948,660, 8-9-60, Cl. 195-80.
- Ansola Oy: *See*—  
Saarento, Aulis. 2,945,719.
- Anson, Harold. Apparatus for casting concrete sections. 2,949,657, 8-23-60, Cl. 25-122.
- Anson, Inc.: *See*—  
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- Anspach, Roy L., to John J. Foster Mfg. Co. Method and apparatus for fabricating honeycomb core. 2,951,145, 8-30-60, Cl. 219-83.
- Ansporn, Harry D., to General Aniline & Film Corp. Process for inhibiting the polymerization of  $\alpha$ -chloroacrylate esters and the resultant compositions. 2,945,844, 7-19-60, Cl. 260-86.1.
- Ansporn, Harry D., to General Aniline & Film Corp. Treatment of polymeric  $\alpha$ -chloroacrylic acid esters. 2,947,036, 8-2-60, Cl. 18-43.
- Ansporn, Harry D., to General Aniline & Film Corp. Process of preparing stable polymers and the resultant product. 2,956,939, 10-18-60, Cl. 204-158.
- Ansporn, Harry D., to General Aniline & Film Corp. Production of polymer foam from polymerized alpha-chloroacrylic acid esters. 2,966,471, 12-27-60, Cl. 260-2.5.
- Ansporn, Harry D., and F. E. Pschorr, to General Aniline & Film Corp. Laminated polymer sheets. 2,941,917, 6-21-60, Cl. 154-139.
- Ansporn, Harry D., and F. E. Pschorr, to General Aniline & Film Corp. Polymerization by temperature controlled irradiation. 2,941,934, 6-21-60, Cl. 204-158.
- Ansporn, Harry D., and F. E. Pschorr, to General Aniline & Film Corp.  $\alpha$ -chloroacrylic acid ester compositions and method of producing shaped articles therefrom. 2,956,049, 10-11-60, Cl. 260-89.5.
- Ansporn, Harry D., and J. J. Baron, Jr., to General Aniline & Film Corp. Methyl  $\alpha$ -(trifluoromethyl) acrylate dimer and method for making same. 2,957,024, 10-18-60, Cl. 260-485.
- Ansporn, Harry D., and F. E. Pschorr, to General Aniline & Film Corp. Process of polymerizing methyl alpha-chloroacrylate in the presence of a condensation product of nonyl phenol and ethylene oxide. 2,964,488, 12-13-60, Cl. 260-33.2.
- Anstalt für die Entwicklung von Erfindungen und Gewerblichen Anwendungen Energa: *See*—  
Brandt, Edgar W. 2,938,460.  
Brandt, Edgar W. 2,940,391.  
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- Anstee & Ware Ltd.: *See*—  
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- Ansul Chemical Co.: *See*—  
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- Antenna Systems, Inc.: *See*—  
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- Anthon, Borwin F. Transparency equipment. 2,944,356, 7-12-60, Cl. 40-106.1.
- Anthony, Benjamin F., to Oglebay Norton Co. Apparatus for and method of providing a protective lining on a hot top. 2,942,319, 6-28-60, Cl. 25-22.
- Anthony, Kenneth H., to Industrial Rayon Corp. Tow handling apparatus. 2,940,157, 6-14-60, Cl. 28-1.
- Anthony, Myron L., to P. G. S. Mero. Recording device. 2,937,917, 5-24-60, Cl. 346-139.
- Anthony, Paul Z., to Baxter Laboratories, Inc. Production of 3,5-diiodothyronine. 2,950,315, 8-23-60, Cl. 260-519.
- Anthony, Russel W., to National Broach & Machine Co. Drive means including a slip clutch. 2,944,343, 7-12-60, Cl. 33-179.5.
- Anthony, Russel W., and G. H. Rickard, to National Broach & Machine Co. Broach. 2,943,383, 7-5-60, Cl. 29-95.1.
- Anthony, William C., to The Upjohn Co. 1-alkyl-3-(hydroxy-alkylamino) indole N-oxides. 2,944,055, 7-5-60, Cl. 260-247.5.
- Anthony, William C., and M. E. Speeter, to The Upjohn Co. 2-alkyl-3-indoleglyoxamides. 2,930,797, 3-29-60, Cl. 260-319.
- Anthrop, Margaret, to Poor Sisters of St. Francis Seraph of The Perpetual Adoration, Inc. Holder for clipboard mounted hospital charts. 2,955,372, 10-11-60, Cl. 40-68.
- Anthon, Bjarne: *See*—  
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- Antici, Marino. Quick-hitch means for attaching agricultural implements to a tractor. 2,962,104, 11-29-60, Cl. 172-273.
- Anti-Corrosion Metal Products Co., Inc.: *See*—  
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- Antochow, Joseph M.: *See*—  
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- Antoci, Felix. Speed changer and reversing means. 2,961,881, 11-29-60, Cl. 74-190.
- Antoine, Raymond and V. Method of cutting out of wood, and other substances, and machine for this cutting. 2,926,708, 3-1-60, Cl. 143-133.
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- Anton, Nicholas. Method for fabricating radiation detectors. 2,923,586, 2-2-60, Cl. 316-19.
- Anton, Nicholas. Radiation detector. 2,944,176, 7-5-60, Cl. 313-93.
- Anton, Nicholas. Electron emitter. 2,958,798, 11-1-60, Cl. 313-54.
- Anton, Nicholas. Ruggedized anode construction. 2,962,615, 11-29-60, Cl. 313-93.
- Antonevich, Michael, to The Crawford Mfg. Co., Inc. Selvedge attachment for stop motions. 2,933,910, 4-26-60, Cl. 66-166.
- Antonidis, John E., and R. A. Ulm, to General Motors Corp. Engine starter drive. 2,944,427, 7-12-60, Cl. 74-7.
- Antonidis, John E., and R. A. Ulm, to General Motors Corp. Engine starter. 2,944,428, 7-12-60, Cl. 74-7.
- Antonious, Anthony J. Versatile container closure cap and coaster. 2,955,722, 10-11-60, Cl. 215-100.5.
- Antonoff, Walter, to Universal Controls, Inc. Motor-actuated drive means for fare-collecting apparatus. 2,955,605, 10-11-60, Cl. 133-8.
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- Antonsen, Anker K., to Fairbanks, Morse & Co. Engine frame stress members. 2,935,976, 5-10-60, Cl. 123-41.31.
- Antonson, John O., to The B. F. Goodrich Co. Tire construction. 2,943,663, 7-5-60, Cl. 152-356.
- Antonucci, James A. Support device for an outlet box. 2,933,549, 4-19-60, Cl. 174-63.
- Antrim, William D., Jr.: *See*—  
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- Antrim, William D., Jr., and F. J. Kudarski, to General Electric Co. Starter decoupling means. 2,951,570, 9-6-60, Cl. 192-101.
- Anzai, Shoji. Photographic exposure time limit adjusting means for focal plane shutter. 2,953,982, 9-27-60, Cl. 95-57.
- Anzons, Janis O., to Clark Equipment Co. Universal loader mechanism. 2,950,831, 8-30-60, Cl. 214-731.
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- Apat, Joseph K.: *See*—  
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- Apatoff, William: *See*—  
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- Apel, Alfons, and T. Riehm. Lignin-phenol-formaldehyde resins, and method of preparation. 2,956,033, 10-11-60, Cl. 260-17.5.
- Apel, Francis N.: *See*—  
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- Apex Jewelry Co.: *See*—  
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- Appar, Donald H., to International Business Machines Corp. Data comparing device. 2,959,283, 11-8-60, Cl. 209-110.
- Apicelli, Thomas G. Self-stopping torque wrench with interchangeable magazine and socket assembly. 2,930,267, 3-29-60, Cl. 81-52.4.
- Apicelli, Thomas G. Shaft coupling with torque limiting means. 2,936,662, 5-17-60, Cl. 81-52.4.
- Apitz, Gerhard, to Heidenreich & Harbeck. Methods of continuously cutting gearwheels. 2,949,062, 8-16-60, Cl. 90-5.
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- Apollo Steel Co.: *See*—  
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- Apostoleris, Theodore G., to Ford Motor Co. Dynamoelectric machine. 2,945,971, 7-19-60, Cl. 310-234.
- Apostolescu, Stefan. Toy helicopter of saucer type. 2,938,298, 5-31-60, Cl. 46-75.



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- Apotheker, David, to E. I. du Pont de Nemours and Co. Process for the preparation of monovinylacetylene. 2,924,631, 2-9-60, Cl. 260-678.
- Appalachian Electronic Instruments, Inc.: See—Nickell, Creigh. 2,954,695.
- Apparius, Robert E. Chair leg extension. 2,941,329, 6-21-60, Cl. 45-137.
- Appel, Arthur V. H. T. Betz, M. A. Fisher, E. G. Fochtman, S. Katz, A. Lieberman, N. E. Alexander, J. L. Murphy, D. C. Maxwell, and R. E. Lewis, to United States of America, Army. Apparatus for automatically counting and sizing airborne particles. 2,920,525, 1-12-60, Cl. 88-14.
- Appel, Frank H.,  $\frac{1}{2}$  to Pressure Containers, Inc., and  $\frac{1}{2}$  to M. M. Warren. Dispenser for dispensing pressurized contents from a container. 2,964,220, 12-13-60, Cl. 222-394.
- Appel, Gerhard H., to Appel Process, Ltd. Forming machines. 2,932,197, 4-12-60, Cl. 78-21.
- Appel, Gerhard H., to Appel Process, Ltd. Apparatus for relieving stresses in and straightening tubular workpieces. 2,952,172, 9-13-60, Cl. 78-14.
- Appel, Gerhard H. Fishing lure and hook. 2,955,377, 10-11-60, Cl. 43-35.
- Appel, Gerhard H., to Appel Process, Ltd. Hydraulic feed means. 2,966,139, 12-27-60, Cl. 121-38.
- Appel Process, Ltd.: See—Appel, Gerhard H. 2,932,197.  
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- Apple, Eugene F., to General Electric Co. Luminescent zinc sulfide phosphors and the preparation thereof. 2,947,704, 8-2-60, Cl. 252-301.6.
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- Appell, Herbert R., to Universal Oil Products Co. Process for shifting a double bond in an olefinic hydrocarbon. 2,952,719, 9-13-60, Cl. 260-683.2.
- Appell, Herbert R., to Universal Oil Products Co. Alkylation of saturated hydrocarbons. 2,925,447, 2-16-60, Cl. 260-666.
- Appert, Kurt E., and L. G. Erickson, to Lenkurt Electric Co., Inc. Noise suppressor. 2,920,281, 1-5-60, Cl. 330-124.
- Appleyby, David K., to Enterprise Machine and Development Corp. Drill holder. 2,940,765, 6-14-60, Cl. 279-16.
- Applegarth, Paul T.: See—McElvain, John A. 2,966,562.
- Applegate, Alvin F., to United States of America, Army. Photographic sequence exposure apparatus. 2,966,093, 12-27-60, Cl. 88-16.
- Applegate, Charles E., to Protein Foundation Inc. Centrifuge. 2,940,662, 6-14-60, Cl. 233-28.
- Applegate, Lindsay M., to W. M. Mann. Railway trucks. 2,934,027, 4-26-60, Cl. 105-183.
- Applegath, Fred, and R. A. Franz, to Monsanto Chemical Co. Preparation of urea. 2,966,516, 12-27-60, Cl. 260-555.
- Appelquist, Douglas E., and D. C. England, to E. I. du Pont de Nemours and Co. Tricyclo (4.2.1.0<sup>2,6</sup>) non-7-enes and tetracyclo (3.2.1.1<sup>3,8</sup>.0<sup>2,4</sup>) nonanes. 2,940,984, 6-14-60, Cl. 260-346.3.
- Appelquist, Hugh D., to The Standard Oil Co. Calibration loop for calibrating flowmeters. 2,948,144, 8-9-60, Cl. 73-3.
- Appleton, Arthur I. Service entrance fitting with sliding hood. 2,926,212, 2-23-60, Cl. 174-81.
- Appleton, Arthur I. Telescoping bar hanger assembly. 2,945,661, 7-19-60, Cl. 248-205.
- Appleton, Arthur I. and N. A., to Appleton Electric Co. Mineral insulated cable fitting. 2,964,437, 12-13-60, Cl. 154-2.23.
- Appleton, Bernard S.: See—Greer, Edward M., Appleton, and Barth. 2,946,304.
- Appleton, Bernard S., and K. Barth, to Greer Marine Corp. Locking mechanism. 2,941,834, 6-21-60, Cl. 292-341.19.
- Appleton Electric Co.: See—Appleton, Arthur I. and N. A. 2,964,437.  
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- Appleton, Joe S. Portable fuel supply. 2,961,014, 11-22-60, Cl. 141-343.
- Appleton, Norton A.: See—Appleton, Arthur I. and N. A. 2,964,437.
- Appleton, Norton A., to Appleton Electric Co. Closure member for conduit fittings. 2,952,488, 9-13-60, Cl. 292-256.73.
- Appleton, Norton A., to Appleton Electric Co. Fixture hanger. 2,966,327, 12-27-60, Cl. 248-343.
- Appleton Wire Works Corp.: See—Calhoun, James R., and Shirley. 2,930,411.
- Applied Mechanics Co.: See—Rudolf, Henry J. G. 2,924,973.
- Applied Physics Corp.: See—Cary, Henry H. 2,940,355.  
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- Apstein, Maurice, to United States of America, Army. Multiple detonator operation. 2,921,522, 1-19-60, Cl. 102-70.2.
- Aqualite Corp.: See—Summers, Stanley E. 2,960,096.
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- Aquillon, Charles A., to Ark-Les Switch Corp. Electric switches. 2,926,225, 2-23-60, Cl. 200-67.
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- Arakawa, Naoji. Draft device of a spinning machine. 2,932,067, 4-12-60, Cl. 19-131.
- Arakawa, Makoto: See—Yazawa, Masahide, and Arakawa. 2,954,687.
- Aram, Nathan W., to Zenith Radio Corp. Television receiver. 2,937,341, 5-17-60, Cl. 330-136.
- Arata, Louis F.: See—Eaton, David C., and Arata. 2,926,490.
- Arbeit, Pierre, to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. Method of and apparatus for making glass. 2,921,106, 1-12-60, Cl. 13-6.
- Arbib, Richard H., to White Sewing Machine Corp. Sewing machine. 2,958,304, 11-1-60, Cl. 112-260.
- Arblaster, Victor J., to Canadian Bronze Co., Ltd. Combined journal stop and back seal for journal bearings. 2,919,958, 1-5-60, Cl. 308-80.
- Arbogast, Alva G. Trapless steam condensate system. 2,942,785, 6-28-60, Cl. 237-9.
- Arbogast, Duane J., and L. F. Joseph, to Dover Corp. Hydraulic elevator control system. 2,953,902, 9-27-60, Cl. 60-52.
- Arbogast, James L., C. H. Fay, and S. Kaufman, to Shell Oil Co. Method and apparatus for determining directional dielectric anisotropy in solids. 2,963,642, 12-6-60, Cl. 324-13.
- Arborelius, Måns M.: See—Lundgren, Claes E. G., and Arborelius. 2,944,544.
- Arborelius, Måns M., and C. E. G. Lundgren. Breathing apparatus for submarine use with a storing sac and with controlling means for the gas supply. 2,931,357, 4-5-60, Cl. 128-191.
- Arceneaux, Richard L.: See—Frick, John G., Jr., and Arceneaux. 2,939,849.
- Archambault, Maurice, J. U. MacEwan, and C. A. Olivier, to Department of Mines. Method of producing lithium sulphate from beta spodumene. 2,923,600, 2-2-60, Cl. 23-121.
- Archdeacon, Gerald D.: See—Koons, Clarence J., and Archdeacon. 2,925,299.
- Archer, Bradford L., to Phillips Petroleum Co. Insecticides for use as tree spray. 2,943,973, 7-5-60, Cl. 167-22.
- Archer, Claude H., to General Electric Co. Operating mechanism for an electric switch. 2,956,137, 10-11-60, Cl. 200-146.
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- Archer, Frederick C., to The General Electric Co. Ltd. Dynamo electric machines. 2,965,775, 12-20-60, Cl. 310-64.
- Archer, Garland W., to Sylvania Electric Products Inc. Television apparatus. 2,947,811, 8-2-60, Cl. 178-7.5.
- Archer, James E.: See—Rich, David C., Archer, and Harrison. 2,936,551.
- Archer, John, and G. V. Carcasson, to North American Philips Co., Inc. Method of and apparatus for position-selection, scanning and the like. 2,965,801, 12-20-60, Cl. 315-169.
- Archer, Lee A.: See—Rayer, Richard J., and Archer. 2,954,543.
- Archer, Levy E. Water scooter. 2,956,534, 10-18-60, Cl. 115-23.
- Archer, Louis F., to Mays Mfg. Co., Inc. Safety device for press. 2,946,277, 7-26-60, Cl. 100-53.
- Archer, Sydney, to Sterling Drug Inc. Beta-(2,4,6-triiodo-3-hydroxyphenyl)-propionic acids and preparation thereof. 2,931,830, 4-5-60, Cl. 260-521.
- Archer, Sydney, T. R. Lewis, Jr., and B. L. Zenitz, to Sterling Drug Inc. Process for making 5-cyano-2-allyl-pyrrolidines and products therefrom. 2,921,080, 1-12-60, Cl. 260-313.
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- Arcuri, Grace, to Wispese Corp. Girdle. 2,949,917, 8-23-60, Cl. 128-541.
- Arcus, James S., Sr. Pass punch having gripper and automatic actuating means. 2,949,802, 8-23-60, Cl. 83-364.
- Arezynski, Tadeusz S., to California Research Corp. Prevention of casing corrosion. 2,923,355, 2-2-60, Cl. 166-1.
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- Arditi, Maurice, to International Telephone and Telegraph Corp. Atomic frequency standard. 2,951,992, 9-6-60, Cl. 331-3.
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- Ardito, William A., to Westinghouse Electric Corp. Surface cleaning apparatus. 2,956,296, 10-18-60, Cl. 15-41.
- Ardner, Robert L., to Lynch Corp. Transfer mechanism. 2,950,804, 8-30-60, Cl. 198-24.
- Arelt, Eugene G., to Speer Carbon Co. Screen printing apparatus. 2,966,115, 12-27-60, Cl. 101-126.
- Arena, Frank. Aircraft construction. 2,964,263, 12-13-60, Cl. 244-6.
- Arenco Aktiebolag: *See*—  
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- Aresti, Fausto A. Hydraulic compression member. 2,961,839, 11-29-60, Cl. 61-53.
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- Argbright, Marvin L., to Hayes Aircraft Corp. Process and apparatus for testing circuits. 2,964,701, 12-13-60, Cl. 324-51.
- Argbright, Perry A.: *See*—  
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- Argereu, William: *See*—  
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- Argersinger, John I., to Combustion Engineering, Inc. Heat exchanger. 2,936,740, 5-17-60, Cl. 122-6.
- Argus Chemical Corp.: *See*—  
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- Argyle, Sidney C., to Aerojet-General Corp. Image nutator. 2,953,962, 9-27-60, Cl. 88-1.
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- Aries, Robert S. Alkylation of toluene. 2,930,820, 3-29-60, Cl. 260-671.
- Aries, Robert S. Decarburizing silicon tetrachloride. 2,931,709, 4-5-60, Cl. 23-205.
- Aries, Robert S. Pyrophoric catalytic systems. 2,931,792, 4-5-60, Cl. 260-93.5.
- Aries, Robert S. Process and product of reacting boric acid with isocyanates. 2,931,831, 4-5-60, Cl. 260-551.
- Aries, Robert S. Polyethylene articles. 2,932,323, 4-12-60, Cl. 138-55.
- Aries, Robert S. Polymers from boric acid and organic diisocyanates. 2,945,841, 7-19-60, Cl. 260-77.5.
- Aries, Robert S. Process for making anhydrous monomeric formaldehyde. 2,953,602, 9-20-60, Cl. 260-603.
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- Arishima, Masao, and Y. Sekizawa, to American Cyanamid Co. Method for preparing tetracycline III. 2,949,407, 8-16-60, Cl. 195-80.
- Arisman, Mervin B.: *See*—  
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- Aristo Mills Co.: *See*—  
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- Aristocrat Leather Products, Inc.: *See*—  
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- Aristoff, Eugene, L. N. Leum, and P. M. Pitts. Hydrocarbon conversion process with substantial prevention of coke formation during the reaction. 2,929,775, 3-22-60, Cl. 208-133.
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- Arizona Gear & Mfg. Co.: *See*—  
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- Arizona Research Foundation: *See*—  
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- Arkansas Fuel Oil Corp.: *See*—  
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- Arkell Safety Bag Co.: *See*—  
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- Arkell and Smiths: *See*—  
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- Arko, Robert E., and C. W. Swan, to Teletype Corp. Printing telegraph reperforator. 2,951,902, 9-6-60, Cl. 178-92.
- Arkoosh, George T., J. S. Miller, and G. D. Cullor, to Wilkinson Mfg. Co. Magnetic filter. 2,936,893, 5-17-60, Cl. 210-223.
- Arkowitz, Wallace: *See*—  
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- Arkus, Henry, to United States of America, Navy. Plan position-indicator system. 2,939,128, 5-31-60, Cl. 343-5.
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- Arkus-Duntov, Zora, to General Motors Corp. Cold enrichment device. 2,949,102, 8-16-60, Cl. 123-119.
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- Arledter, Hanns F., to Hurlbut Paper Co. High strength specialty papers and processes for producing the same. 2,962,414, 11-29-60, Cl. 162-145.
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- Arlin, Max M., to J. D. MacArthur. Machine control. 2,956,378, 10-18-60, Cl. 51-165.
- Arlin, Max M., to J. D. MacArthur. Part feeding and orienting device. 2,956,665, 10-18-60, Cl. 198-33.
- Arlington Aluminum Co.: *See*—  
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- Arlington Seating Co.: *See*—  
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- Arman, Evert J., to Shell Development Co. Process for preparing stable vinyl chloride polymers. 2,921,046, 1-12-60, Cl. 260-45.7.
- Arlt, Herbert G., Jr., to American Cyanamid Co. Fortified rosin size agent. 2,957,777, 10-25-60, Cl. 106-238.
- Armament Components, Inc.: *See*—  
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- Armato, Albert, and M. Laskin. Cooler unit. 2,927,712, 3-8-60, Cl. 220-63.
- Armbrust, Clarence M., to R. J. Armbrust. Automatic liquid feed apparatus. 2,957,487, 10-25-60, Cl. 137-88.
- Armbrust, Roy J.: *See*—  
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- Armbruster, John T., and J. R. Wright, to American Optical Co. Refractors. 2,938,426, 5-31-60, Cl. 88-20.
- Armbruster, John W. Servicing devices. 2,966,248, 12-27-60, Cl. 194-13.
- Armco Steel Corp.: *See*—  
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- Armen, Ardy, and R. E. Gentry, Jr., to The Dow Chemical Co. Pentachlorophenylthioacrylates and polymers thereof. 2,945,843, 7-19-60, Cl. 260-79.7.



- Armen, Ardy, and S. A. Murdock, to The Dow Chemical Co. Formation with certain alcohols of acrylamide groups on polyacrylonitrile in zinc chloride solution. 2,952,651, 9-13-60, Cl. 260—29.6.
- Armenti, Natale and R. A. Storm door side rail construction. 2,951,566, 9-6-60, Cl. 189—46.
- Armento, William H., to General Aniline & Film Corp. Production of azoic pigments. 2,938,897, 5-31-60, Cl. 260—159.
- Armentrout, Everett C.: *See—*  
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- Armentrout, Everett C., to General Motors Corp. Refrigerating apparatus with magnetic door seal actuated switch. 2,957,320, 10-25-60, Cl. 62—264.
- Armentrout, James L., and R. L. Gibson. Color printing. 2,947,232, 8-2-60, Cl. 95—73.
- Armentrout, Joseph V., to The Hamilton Caster & Mfg. Co. Mobile bin. 2,950,126, 8-23-60, Cl. 280—179.
- Armi, Edgar L., J. L. Johnson, R. C. Machler, and N. E. Polster, to United States of America, Navy. Apparatus for the determination of interior ballistics. 2,939,318, 6-7-60, Cl. 73—167.
- Armiento, Dominick F.: *See—*  
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- Armiger, Harry L. Conveyor carriers. 2,957,590, 10-25-60, Cl. 211—176.
- Armington, Stewart F., and L. F. Held, to General Motors Corp. Compound planetary gear drive. 2,941,423, 6-21-60, Cl. 74—801.
- Armistead, Fontaine C., to Texaco Development Corp. Detection and measurement of penetrative radiation. 2,956,162, 10-11-60, Cl. 250—71.5.
- Armistead, Fontaine C., to Texaco Development Corp. Radiological well logging. 2,960,608, 11-15-60, Cl. 250—83.3.
- Armitage, Charles H., to Allis-Chalmers Mfg. Co. Austenitic steel alloy. 2,965,478, 12-20-60, Cl. 75—124.
- Armitage, George C. Jar and implement combination. 2,920,779, 1-12-60, Cl. 215—100.
- Armitage, Harry J. Work forming apparatus and method. 2,932,133, 4-12-60, Cl. 51—101.
- Armitage, Joseph B., and J. B. Lukey, to Kearney & Trecker Corp. Machine tools. 2,925,747, 2-23-60, Cl. 77—3.
- Armour and Co.: *See—*  
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- Dunbar, Frank. 2,937,937.
- Fisher, Joseph D., Thompson, and Kottemann. 2,944,940.
- Gordon, Roy C., and Harrington. 2,938,804.
- Harwood, James, Reck, and Abramitis. 2,924,551.
- Harwood, James, Reck, and Abramitis. 2,924,552.
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- Jackson, Ralph H., and Van Wagenen. 2,948,650.
- Jenkins, Joseph B. 2,958,093.
- Keil, Harvard L., Cavanaugh, and Himes. 2,958,630.
- Keil, Harvard L., Hagen, and Flaws. 2,953,462.
- Kline, Ralph W., and Rogers. 2,939,792.
- Matt, Joseph Z. 2,931,833.
- Roundy, Zola D. 2,963,370.
- Roundy, Zola D., and Ormond. 2,956,885.
- Shapiro, Sydney H. 2,950,318.
- Thompson, Robert E. 2,920,015.
- Veis, Arthur, and Cohen. 2,935,413.
- White, Robert. 2,963,358.
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- Armour, Donald F.: *See—*  
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- Arms, Milo F., to The C. O. Bartlett & Snow Co. Corn sheller having flow-retarding barrier. 2,927,587, 3-8-60, Cl. 130—6.
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- Armstead, George B., Jr., to The Merrow Machine Co. Thread tensioning control for sewing machines. 2,938,479, 5-31-60, Cl. 112—254.
- Armstrong, Alfred, to Westinghouse Electric Corp. Air conditioning apparatus with provision for selective reheating. 2,940,281, 6-14-60, Cl. 62—428.
- Armstrong, Alfred, and M. D. Ulich, to Westinghouse Electric Corp. Air conditioning apparatus. 2,932,178, 4-12-60, Cl. 62—324.
- Armstrong-Blum Mfg. Co.: *See—*  
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- Armstrong, C. E., Co.: *See—*  
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- Armstrong, Charles E., to C. E. Armstrong Co. Thermostat. 2,949,519, 8-16-60, Cl. 200—138.
- Armstrong Cork Co.: *See—*  
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- Almy, Richard. 2,937,154.
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- Booth, Alfred E., and Hess. 2,956,891.
- Feigley, David A., Jr., and Ray. 2,940,892.
- Feigley, David A., Jr., and Ray. 2,940,893.
- Forsythe, Alan K. 2,937,103.
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- Mariner, Thomas. 2,951,159.
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- Armstrong, Edward R., to Sun Oil Co. Seadrome. 2,963,868, 12-13-60, Cl. 61—46.5.
- Armstrong, Edward T., and F. H. Higley, to The Goodyear Tire & Rubber Co. Apparatus for modulating brake pressure. 2,944,772, 7-12-60, Cl. 244—111.
- Armstrong, Eldon L., R. A. Butcosk, and G. W. Murray, Jr., to Socony Mobil Oil Co., Inc. Grease manufacture including mechanical atomization of the charge. 2,950,248, 8-23-60, Cl. 252—32.
- Armstrong, Eldon L., W. R. Marshall, Jr., G. W. Murray, Jr., and H. Raich, to Socony Mobil Oil Co., Inc. Grease-making process involving mechanical atomization. 2,950,249, 8-23-60, Cl. 252—32.
- Armstrong, Frank E. Stirring spoons. 2,939,216, 6-7-60, Cl. 30—324.
- Armstrong, George W., to O. B. Armstrong and Sons Co. Grain drier and valve therefor. 2,946,132, 7-26-60, Cl. 34—170.
- Armstrong, Harold L., to Clevite Corp. Semiconductor devices and trigger circuits therefor. 2,927,221, 3-1-60, Cl. 307—885.
- Armstrong, Harris, J. Van Dyke, and T. N. Kohler; said Van Dyke and said Kohler assors. to said Armstrong. Corner former for poured concrete. 2,953,835, 9-27-60, Cl. 25—118.
- Armstrong, Howard H., to The B. F. Goodrich Co. Method of and apparatus for making a sealing slide fastener having laterally curved portions. 2,928,127, 3-15-60, Cl. 18—36.
- Armstrong, Howard H., and C. P. Krupp, to The B. F. Goodrich Co. Sealing closure. 2,923,992, 2-9-60, Cl. 24—205.1.
- Armstrong, James E., and W. P. Cummings, to W. R. Grace & Co. Method for producing clear, homogeneous silica hydrosols. 2,956,957, 10-18-60, Cl. 252—313.
- Armstrong, James F., to ACF Industries, Inc. Starting system for internal combustion engines. 2,943,211, 6-23-60, Cl. 290—38.
- Armstrong, James F., to ACF Industries, Inc. Nozzle for fuel injector system. 2,957,631, 10-25-60, Cl. 239—533.
- Armstrong, John A., and A. B. Walker, to Research-Cottrell, Inc. Cyclonic dust collector. 2,936,043, 5-10-60, Cl. 183—92.
- Armstrong, John N., and H. S. Wolff, to National Research Development Corp. Loudspeakers. 2,923,782, 2-2-60, Cl. 179—113.
- Armstrong, John W., R. W. Spears, and R. D. Williams, to General Motors Corp. Method of coating interior of tubing with zinc. Re. 24,852, 8-9-60, Cl. 29—429.
- Armstrong, Lorne D., to Radio Corp. of America. Alloy junction type semiconductor devices and methods of making them. 2,957,788, 10-25-60, Cl. 148—1.5.
- Armstrong, Luke, to The British Cotton Industry Research Association. Treatment of yarns and the like with liquids. 2,953,476, 9-20-60, Cl. 117—111.
- Armstrong, O. B., and Sons Co.: *See—*  
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- Armstrong, Victor O. Power transmission and controls for a helicopter. 2,925,868, 2-23-60, Cl. 170—160.27.
- Armstrong, Victor O. Simplified controls for a ram jet helicopter. 2,932,353, 4-12-60, Cl. 170—135.7.
- Armstrong, Warren E., and J. N. Wilson, to Shell Oil Co. Dehydrogenation catalyst. 2,940,940, 6-14-60, Cl. 252—443.
- Armstrong, William C., to Pastushin Aviation Corp. Jet-sonable fuel tank. 2,952,427, 9-13-60, Cl. 244—135.
- Armstrong, Zell W. Tape creasing apparatus. 2,929,303, 3-22-60, Cl. 93—84.
- Arnaiz, Burton A.: See—  
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- Arnaud, Robert, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude. Automatic arc welding apparatus. 2,927,195, 3-1-60, Cl. 219—130.
- Arndt, Charles J., to Goodman Mfg. Co. Rope side frame conveyor clamp. 2,922,208, 1-26-60, Cl. 24—126.
- Arndt, Herbert, and H. Seiler, to Midwest Mfg. Corp. Wet-ting compound for colored aluminum anodized surfaces. 2,924,539, 2-9-60, Cl. 117—127.
- Arndt, Ulrich W., T. H. Faulkner, and D. C. Phillips, to National Research Development Corp. Diffractometers. 2,928,945, 3-15-60, Cl. 250—53.
- Arnelo, Anders I., to Aktiebolaget Svenska Metallverken. Fault detecting and indicating system. 2,948,848, 8-9-60, Cl. 324—34.
- Arnes, Lyle L., to Walker Mfg. Co. Multi-stage hydraulic jack. 2,960,072, 11-15-60, Cl. 121—46.
- Arnes, Lyle L., to Walker Mfg. Co. Packing for jack piston. 2,963,330, 12-6-60, Cl. 309—23.
- Arnesen, Tore. Method of determining metal thickness, scaling and deposits in piping. 2,957,987, 10-25-60, Cl. 250—65.
- Arneson, Edwin L., to Federal Paper Board Co., Inc. Can packaging machine. 2,919,526, 1-5-60, Cl. 53—59.
- Arneson, Edwin L., to Federal Paper Board Co., Inc. Col-lapsible carton. 2,928,580, 3-15-60, Cl. 229—31.
- Arneson, Edwin L., to Federal Paper Board Co., Inc. Can packaging machine. 2,931,152, 4-5-60, Cl. 53—209.
- Arneson, Edwin L., to Federal Paper Board Co., Inc. Bottle carrier. 2,932,424, 4-12-60, Cl. 220—113.
- Arneson, Edwin L., to Federal Paper Board Co., Inc. Con-tainer. 2,944,719, 7-12-60, Cl. 229—31.
- Arneson, Edwin L., to Federal Paper Board Co., Inc. Corner lock box. 2,955,737, 10-11-60, Cl. 229—35.
- Arneson, Leif, to Minneapolis-Honeywell Regulator Co. Sig-nal devices. 2,930,017, 3-22-60, Cl. 338—91.
- Arnett, Henry D., to United States of America, Navy. Very high frequency radiating magnetron. 2,943,236, 6-28-60, Cl. 315—39.77.
- Arnett, John W.: See—  
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- Arnett, Leslie, and W. G. Freise, to United Coffee Corp. Beverage brewing and dispensing apparatus. 2,935,010, 5-3-60, Cl. 99—283.
- Arnett, Leslie, and W. G. Freise, to United Coffee Corp. Liquid dispenser. 2,949,137, 8-16-60, Cl. 141—9.
- Arnett, Leslie, and W. G. Freise, to United Coffee Corp. Beverage brewing and dispensing apparatus. 2,953,171, 9-20-60, Cl. 141—174.
- Arnit, Fred H., to Garden City Plating & Mfg. Co. Bracket support. 2,941,775, 6-21-60, Cl. 248—243.
- Arnold, Bruce C., to J. I. Case Co. Transmission mechanism. 2,953,943, 9-27-60, Cl. 74—745.
- Arnold, Charles A., and J. N. Lind, to General Electric Co. Tunable high-frequency apparatus. 2,945,156, 7-12-60, Cl. 315—54.7.
- Arnold, Charles R., A. J. Hirsch, and F. W. Plourde, to Doughboy Industries, Inc. Bathing pools. 2,939,153, 6-7-60, Cl. 4—172.
- Arnold, Clifford R. Barrel roller massage machine. 2,939-455, 6-7-60, Cl. 128—57.
- Arnold, Donald L., to Sylvania Electric Products Inc. Dis-penser package. 2,944,124, 7-5-60, Cl. 200—56.
- Arnold, Edward H., Jr. Signal lights. 2,928,072, 3-8-60, Cl. 340—50.
- Arnold, Edward H., Jr. Magnetic markers. 2,951,703, 9-6-60, Cl. 273—137.
- Arnold, Edward R., and T. M. Moore, to Westinghouse Elec-tric Corp. Monostable transistor circuits. 2,962,606, 11-29-60, Cl. 307—88.5.
- Arnold, Ellis L., to A. E. Anderson Construction Corp. Method of lining furnaces. 2,933,918, 4-26-60, Cl. 72—14.
- Arnold, Everett B., Jr., to General Motors Corp. Hinge cover. 2,919,460, 1-5-60, Cl. 16—148.
- Arnold, G. Wright: See—  
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- Arnold, Gordon D., and L. F. Cornell. Sewer drain cleaner. 2,964,191, 12-13-60, Cl. 210—241.
- Arnold, Graham A., to United-Carr Fastener Corp. Molding fastener. 2,948,368, 8-9-60, Cl. 189—88.
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- Arnold, Harold A., deceased, and J. B. Sharp (I. H. Arnold, administratrix), to The University of Tennessee Research Corp. Educational, recreational, and testing apparatus. 2,947,087, 8-2-60, Cl. 35—9.
- Arnold, Harold A., deceased, and J. B. Sharp (I. H. Arnold, administratrix), to The University of Tennessee Research Corp. Educational, recreational, and testing apparatus. 2,947,092, 8-2-60, Cl. 35—48.
- Arnold, Herbert, E. Kúhas, and H. Pohle, to Asta-Werke Aktiengesellschaft Chemische Fabrik. Process for the pro-duction of aminoalkyl ethers of alcohols of the aromatic-aliphatic series. 2,932,668, 4-12-60, Cl. 260—570.
- Arnold, Herbert, R. Rebling, and A. Erhardt, to Asta-Werke Aktiengesellschaft Chemische Fabrik. New mixed alcohol-ates-phenolates of aluminum and a process for the pro-duction thereof. 2,936,317, 5-10-60, Cl. 260—448.
- Arnold, Herbert, E. Kúhas, and N. Brock, to Asta-Werke Aktiengesellschaft, Chemische Fabrik. New salts of basic ethers of diphenyl ethinyl carbinols and the production thereof. 2,957,006, 10-18-60, Cl. 260—326.5.
- Arnold, Herrick R., and R. E. Foster, to E. I. du Pont de Nemours and Co. Olefin polymerization catalyst. 2,943,066, 6-28-60, Cl. 252—463.
- Arnold, Hoffman & Co., Inc.: See—  
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 Arnold, Harold A., and Sharp. 2,947,092.
- Arnold, Jimmie D. Pipe cleaning machine and cable feeding mechanism therefor. 2,953,799, 9-27-60, Cl. 15—104.3.
- Arnold, Lawrence F., to The B. F. Goodrich Co. Polymethyl methacrylate-partial alkyl ester of polymethacrylic anhy-dride blend and method for preparing same. 2,958,674, 11-1-60, Cl. 260—45.5.
- Arnold, Lawrence F., and J. F. Jones, to The B. F. Goodrich Co. Adhesive composition comprising starch maleic anhy-dride tripolymer and hydrolyzed polyacrylonitrile. 2,935,484, 5-3-60, Cl. 260—17.4.
- Arnold, Marion L., to Richfield Oil Corp. Device for attenuat-ing pulsative flow in gases. 2,943,641, 7-5-60, Cl. 138—26.
- Arnold, Melvin R., and E. K. Dienes, to Chemetron Corp. Preparation of shaped catalysts. 2,929,792, 3-22-60, Cl. 252—430.
- Arnold, Peter, to Hanson-Van Winkle-Munning Co. Process-ing apparatus. 2,935,989, 5-10-60, Cl. 134—46.
- Arnold, Philip M., to Phillips Petroleum Co. Catalytic poly-merization. 2,953,553, 9-20-60, Cl. 260—91.1.
- Arnold, Robert. Fabric-retaining clip means. 2,937,696, 5-24-60, Cl. 155—187.
- Arnold, Theodore M.: See—  
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- Arnold, William C.: See—  
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- Arnot, Alfred E. R.: See—  
 Payne, Ivan S., and Arnot. 2,955,245.
- Arnot, Alfred E. R., to E. Kaye, and J. R. Sharp. Coil handling devices. 2,931,530, 4-5-60, Cl. 214—652.
- Arnot, Alfred E. R., to Lansing Bognall Ltd. Valve systems for pressure fluid circuits. 2,935,090, 5-3-60, Cl. 137—622.
- Arnot, Alfred E. R., to E. Kaye, and J. R. Sharp. Lift truck with auxiliary truck pickup. 2,944,689, 7-12-60, Cl. 214—620.
- Arnott, Cornelius W., S. F. Jackes, and R. H. Sheets, to Jackes-Evans Mfg. Co. Gas burner construction. 2,965,165, 12-20-60, Cl. 158—99.
- Arnott, Edward G. F., and R. G. Young, to Westinghouse Electric Corp. Discharge device. 2,932,753, 4-12-60, Cl. 313—42.
- Arnoux Corp.: See—  
 Turner, Wheeler M. 2,961,537.
- Arnzén, Henry E., to Republic Aviation Corp. Reverse thrust brake. 2,945,346, 7-19-60, Cl. 60—35.54.
- Aro Equipment Corp., The: See—  
 Adams, Edward. 2,920,637.  
 Clark, Lyle G. 2,942,834.  
 Hawk, Gale F., and Kiester. 2,924,351.  
 Knapp, Elwood F., Hitt, Johnson, and Rosenblum. 2,924,114.  
 Spaulding, Roy H. 2,958,204.  
 Zwayer, Robert E. 2,950,775.
- Aron, Erwin, to Technical Processing, Inc. Releasing com-position containing metal oleate method of making and using same. 2,939,898, 6-7-60, Cl. 260—752.
- Aronoff, David. Arch support. 2,933,835, 4-26-60, Cl. 36—71.
- Aronson, Theodore F., and F. A. Lyon. Gun holder. 2,948,449, 8-9-60, Cl. 224—1.
- Aronson, Theodore F., and F. A. Lyon, to Viewlex, Inc. Pro-cessor for photographic paper. 2,949,839, 8-23-60, Cl. 95—89.
- Aronson, Theodore F., and F. A. Lyon, to Viewlex, Inc. Pro-jector with removable slide box. 2,953,967, 9-27-60, Cl. 88—28.
- Arpin, Edmund P., Jr. Rotary stock thickener and refiner. 2,927,738, 3-8-60, Cl. 241—80.
- Arpin, Leon G. Accelerator control. 2,948,369, 8-9-60, Cl. 192—3.
- Arps, Jan J. Earth well borehole drilling and logging sys-tem. 2,925,251, 2-16-60, Cl. 255—1.8.



- Arps, Jan J. Earth borehole crookedness detection and indication. 2,930,137, 3-29-60, Cl. 33-205.
- Arps, Jan J. Simultaneous drilling and electrical logging of hydrocarbon contents of formations. 2,938,708, 5-31-60, Cl. 255-1.8.
- Arps, Jan J., and S. A. Scherbatskoy. Earth borehole logging system. 2,924,432, 2-9-60, Cl. 255-1.
- Arrasmith, William C., to Radar Relay, Inc. Multiple warning system with single reset switch. 2,934,752, 4-26-60, Cl. 340-213.
- Arrasmith, William C., to Radar Relay, Inc. Annunciator assembly. 2,959,774, 11-8-60, Cl. 340-324.
- Arridge, Robert G. C., G. A. Clough, and M. W. Pell, to British Nylon Spinners Ltd. Twisting of continuous filament yarns. 2,947,136, 8-2-60, Cl. 57-157.
- Arrien & Foley: *See*—  
Del Conte, George A. 2,922,152.
- Arrighini, Artile, to Rocform Corp. Concrete wall form construction and adapter clip therefor. 2,960,743, 11-22-60, Cl. 25-131.
- Arrighini, Artile, and R. Bell, to Rockwall Co. Cork tool. 2,944,334, 7-12-60, Cl. 29-235.
- Arrington, Richard H. Cattle guard. 2,950,091, 8-23-60, Cl. 256-17.
- Arrison, Robert A., Jr., to General Electric Co. Means for and method of interval timing. 2,929,000, 3-15-60, Cl. 317-142.
- Arrow Fastener Co., Inc.: *See*—  
Abrams, Morris. 2,939,146.
- Arrow-Hart & Hegeman Electric Co., The: *See*—  
Aspinwall, John E. 2,950,372.  
Bentley, Robert H. 2,944,242.  
Johnson, David W. 2,936,349.  
Schleicher, Harold E. 2,955,241.
- Arrow Industrial Mfg. Co.: *See*—  
Matheny, William F. and W. F. Matheny, Jr. 2,956,335.
- Arrow Metal Products Corp., Inc.: *See*—  
Vetere, Nicholas A. 2,952,049.
- Arrow Tools, Inc.: *See*—  
Veres, Edward W. 2,928,663.  
Veres, Edward W. 2,963,163.
- Arrowhead Products, Inc.: *See*—  
De Pew, Thomas N. 2,940,706.  
De Pew, Thomas N., and Heise. 2,942,826.
- Arrowsmith Tool & Die Corp.: *See*—  
Ewing, Wayne, and Backus. 2,943,667.
- Arso Corp.: *See*—  
Phillips, Milton P. 2,935,757.
- Arsenault, Jean J. Arrow releasing device. 2,965,093, 12-20-60, Cl. 124-35.
- Arsenault, William R.: *See*—  
Thorensen, Ragnar, Arsenault, and Ambrosio. 2,925,587.
- Arsenault, William R., to The Magnavox Co. Magnetic information member. 2,933,718, 4-19-60, Cl. 340-174.
- Arshal, George. Unified tracking system. 2,923,465, 2-2-60, Cl. 235-61.5.
- Art Color Printing Co.: *See*—  
Consaul, John G., and Veltien. 2,920,547.
- Art & Industry, Inc.: *See*—  
Levi, Hans L. 2,956,685.
- Art Iron and Wire Works, Inc.: *See*—  
Ogden, Paul. 2,946,568.
- Art Metal Co., The: *See*—  
Dvorak, Lester I. 2,938,112.
- Art Metal Construction Co.: *See*—  
Stark, Forest G. 2,925,086.
- Art Steel Co., Inc.: *See*—  
Bergman, Edward. 2,966,384.  
Dvorak, Lester I., and Maynard. 2,955,196.
- Artandi, Charles, and A. A. Stonehill, to Ethicon, Inc. Sterilization indicator. 2,937,279, 5-17-60, Cl. 250-83.
- Artcraft Venetian Blind Mfg. Co.: *See*—  
Macy, Donald, and Nelson. 2,949,649.
- Artcraft Venetian Blind Mfg. Co. of St. Louis: *See*—  
Nelson, Harry. 2,963,066.
- Arter, Harry, and A. G. Sangster, to Sunstrand Corp. Magnetic chuck. 2,936,515, 5-17-60, Cl. 29-155.59.
- Arterbury, Bryant P., 33 $\frac{1}{4}$ % to R. L. Arterbury. Well tools employable as bailers, fishing tools, jars, and the like, of the delayed action type. 2,925,866, 2-23-60, Cl. 166-163.
- Arterbury, Bryant P., and G. M. Clark, 33 $\frac{1}{4}$ % to R. L. Arterbury. Well screen perforation cleaner. 2,935,132, 5-3-60, Cl. 166-177.
- Arterbury, Roy L.: *See*—  
Arterbury, Bryant P. 2,925,866.  
Arterbury, Bryant P., and Clark. 2,935,132.
- Arth, Glen E., G. I. Poos, and L. H. Sarett, to Merck & Co., Inc.  $\Delta^5$ -11,20-diketeto-pregnene 3-ketals and process. 2,934-532, 4-26-60, Cl. 260-239.55.
- Arth, Glen E., G. I. Poos, and L. H. Sarett, to Merck & Co., Inc. 1-carboalkoxymethyl-2-acetyl-2,4b-dimethyl-4-keto-1,2,3,4,4a,4b,5,6,7,8,10,10a-dodecahydrophenanthrene 7-ketals and processes of preparing them. 2,949,472, 3-16-60, Cl. 260-340.9.
- Arth, Glen E., G. I. Poos, and L. H. Sarett, to Merck & Co., Inc. Process of producing 1-carboalkoxymethyl-2-acetyl-2,4b-dimethyl-4-keto-1,2,3,4,4a,4b,5,6,7,8,10,10a-dodecahydrophenanthrene 7-ketal. 2,958,698, 11-1-60, Cl. 260-339.
- Arth, Glen E., G. I. Poos, and L. H. Sarett, to Merck & Co., Inc. Osmate esters of 1-carboalkoxy-methyl-2-(beta,gamma-dihydroxyisobutyl)-2,4b-dimethyl-4-keto-1,2,3,4,4a,4b,5,6,7,8,10,10a-dodecahydrophenanthrene 7-ketal. 2,958,699, 11-1-60, Cl. 260-340.9.
- Arth, Glen E., G. I. Poos, and L. H. Sarett, to Merck & Co., Inc. 1-carboalkoxymethyl-2-(beta,gamma-dihydroxyisobutyl)-2,4b-dimethyl-4-keto-1,2,3,4,4a,4b,5,6,7,8,10,10a-dodecahydrophenanthrene 7-ketals. 2,958,700, 11-1-60, Cl. 260-340.9.
- Arthur, Belton W.: *See*—  
Casida, John E., and Arthur. 2,927,880.  
Casida, John E., and Arthur. 2,927,881.
- Arthur, David F.: *See*—  
Russell, John P., Stutchfield, Myers, and Arthur. 2,936,567.
- Arthur, David F., and A. F. Weller, to British Nylon Spinners Ltd. Twisting of textile filaments. 2,936,570, 5-17-60, Cl. 57-157.
- Arthur, James B., B. W. Bardsley, M. A. C. S. Brown and A. F. Gibson, to National Research Development Corp. Semi-conductor devices. 2,931,953, 4-5-60, Cl. 317-234.
- Arthur, Paul, Jr., to E. I. du Pont de Nemours and Co. Ferromagnetic chromium oxide and method of making. 2,956,955, 10-18-60, Cl. 252-62.5.
- Arthur, Ronald H.: *See*—  
Cetran, Louis, and Arthur. 2,925,577.  
Cetran, Louis, and Arthur. 2,940,386.  
Perez, Guillermo, Dreher, and Arthur. 2,965,170.
- Arthur, William H., to The Mead Corp. Packing case or rack. 2,963,193, 12-6-60, Cl. 220-21.
- Artis, Francis M.: *See*—  
Artis, Paul I., and F. M. 2,963,955.
- Artis Metals Co., Inc.: *See*—  
Artis, Paul I., and F. M. 2,963,955.
- Artis, Paul I., and F. M., to Artis Metals Co., Inc. Vent cap. 2,963,955, 12-13-60, Cl. 98-84.
- Artistic Wood Specialties, Inc.: *See*—  
Caloiero, John, Michelini, and Rocchi. 2,946,452.  
Caloiero, John, Michelini, and Rocchi. 2,958,422.  
Caloiero, John, Michelini, and Rocchi. 2,958,423.
- Artos Engineering Co.: *See*—  
Andren, Karl H. 2,929,136.  
Andren, Karl H. 2,929,433.
- Baird, Russell T., and Hagstrand. 2,920,513.
- Hagstrand, Helge W. 2,929,284.
- Artsay, Constantine N.: *See*—  
Artsay, Nicholas C. 2,959,014.
- Artsay, Nicholas C., deceased, by C. N. Artsay, executor, to Foster Wheeler Corp. Method and apparatus for supercritical pressure systems. 2,959,014, 11-8-60, Cl. 60-73.
- Artus, Charles H.: *See*—  
Edman, John H., Artus, and Johnson. 2,935,147.
- Artz, Charles A., to Admiral Corp. Printed circuit connector. 2,950,458, 8-23-60, Cl. 339-217.
- Artzt, William W., and E. Roth; said Roth assor. to said Artzt. Wearing apparel having foot covering portions. 2,919,445, 1-5-60, Cl. 2-239.
- Artzt, William W., and S. Rieger, to Trimless, Inc. Needle positioning devices for sewing machines. 2,921,547, 1-19-60, Cl. 112-219.
- Arundale, Erving: *See*—  
Kirshenbaum, Isidor, Hinlicky, Arundale, and Hill. 2,958,651.  
Kirshenbaum, Isidor, Hinlicky, Arundale, and Hill. 2,958,652.  
Kirshenbaum, Isidor, Langer, and Arundale. 2,965,564.
- Arundel, Coulthard & Co. Ltd.: *See*—  
Ridgeway, Frank. 2,929,194.
- Arutunoff, Armais, to Reda Pump Co. Tank venting device. 2,935,991, 5-10-60, Cl. 137-210.
- Arutunoff, Armais, to Reda Pump Co. Heat exchanger for submergible pumping assembly. 2,951,165, 8-30-60, Cl. 310-54.
- Arvan, Peter G., to Monsanto Chemical Co. Novel reaction product of ammonia, water and phosphorus pentoxide. 2,958,577, 11-1-60, Cl. 23-106.
- Arvey Corp.: *See*—  
Peretti, Leonard. 2,923,088.  
Sorel, Frederick. 2,966,439.
- Arvidson, Bengt A., to Miller Wrapping & Sealing Machine Co. Web cutting mechanism. 2,948,177, 8-9-60, Cl. 83-155.
- Arvidson, Bengt A., to Miller Wrapping & Sealing Machine Co. Wrapping method and apparatus. 2,954,654, 10-4-60, Cl. 53-31.
- Arvin Industries, Inc.: *See*—  
Ganske, Kingston E., and Anderson. 2,945,083.  
Irwin, Benjamin H. 2,955,971.  
Ludlow, Edmund, and Wintermute. 2,962,409.  
Moore, Ezra L. 2,964,097.  
Sellon, Raymond N., Jr. 2,944,354.  
Wintermute, Glenn E., and Carmichael. 2,955,972.
- Arzberger, William A., to Carrier Corp. Refrigerated storage unit. 2,959,939, 11-15-60, Cl. 62-451.
- Arzolan, Samuel. Direct reading vernier height gage. 2,932,899, 4-19-60, Cl. 33-169.
- Asadorian, Arthur A., to The Dow Chemical Co. Process for making beta-bromoethyl aromatic compounds. 2,935,535, 5-3-60, Cl. 260-651.



- Asadorian, Arthur A., and G. A. Burk, to The Dow Chemical Co. Preparation of phosphorus oxyhalobromides. 2,941,864, 6-21-60, Cl. 23-203.
- Asahi Kasei Kogyo Kabushiki Kaisha: *See*—  
Nakayama, Masatoshi. 2,957,797.
- Asakawa, George, and S. Vernet, to Antioch College. Pressure responsive power element. 2,949,132, 8-16-60, Cl. 137-789.
- Asakawa, Yukichi: *See*—  
Moriya, Saburo M., and Asakawa. 2,926,276.
- Asano, Uichiro. Structure of submarine boats. 2,965,060, 12-20-60, Cl. 114-16.
- Asars, Juris A.: *See*—  
Sack, Edgar A., Jr., and Asars. 2,922,076.
- Asbury, George F., Sr. Directional wave energy receiving system. 2,943,322, 6-28-60, Cl. 343-118.
- Asby, Robert H.: *See*—  
Gresham, William C., and Asby. Re. 24,818.
- Aschaffenburg, Hans W.: *See*—  
Choate, Paul V., and Aschaffenburg. 2,957,337.
- Aschaffenburg Zellstoffwerke, A.G.: *See*—  
Bernhauer, Konrad, Friedrich, Gross, and Spaude. 2,943,983.
- Aschauer, George R., to Twin Disc Clutch Co. Hydraulically operated, multiple clutch. 2,919,778, 1-5-60, Cl. 192-86.
- Aschinger, Harold W. Hermetically-sealed coupling assembly. 2,945,383, 7-19-60, Cl. 74-18.1.
- Ascot Gas Water Heaters Ltd.: *See*—  
Barnes, Norman, Rickwood, and Sargent. 2,959,217.
- Aseptic Food Fillers, Inc.: *See*—  
Holtsman, Henry T., and Potts. 2,930,170.
- Ash, Charles S. Ramp loader. 2,954,137, 9-27-60, Cl. 214-505.
- Ash, Denis J., and R. A. Davis, to International Computers and Tabulators Ltd. Record card controlled printing mechanism. 2,928,339, 3-15-60, Cl. 101-93.
- Ash, Jacob R., G. E. Brown, and C. R. Cox, to Monsanto Chemical Co. Composition comprising phenolic resin and cellulosic material coated with petroleum hydrocarbon and process for preparing board therefrom. 2,962,459, 11-29-60, Cl. 260-17.2.
- Ash, Wilfrid C.: *See*—  
Harris, Alan J., and Ash. 2,925,727.
- Ashback, Robert O., C. W. Weinke, F. G. Kath, and R. H. Swanson. Crack widening apparatus. 2,931,634, 4-5-60, Cl. 262-20.
- Ashbrook, Clifford L. Chlorine flow control valve. 2,928,646, 3-15-60, Cl. 251-63.
- Ashbrook, Clifford L. Fluid mixing device. 2,957,495, 10-25-60, Cl. 137-604.
- Ashby, Alfred T., to The Maytag Co. Clothes drier with stationary cowl. 2,958,138, 11-1-60, Cl. 34-133.
- Ashby, Eugene C., W. E. Foster, J. R. Mangham, and T. H. Pearson, to Ethyl Corp. Organic compounds of boron. 2,961,443, 11-22-60, Cl. 260-290.
- Ashby, Robert M., to North American Aviation, Inc. Magnetic recording data analyzer. 2,933,724, 4-19-60, Cl. 343-7.7.
- Ashby, Robert M., to North American Aviation, Inc. Duo-mode monopulse radar system. 2,956,275, 10-11-60, Cl. 343-16.
- Ashby, Robert M., J. P. Lekas, P. N. A. Veenhuyzen, and M. Pollack, to North American Aviation, Inc. Recording system. 2,928,084, 3-8-60, Cl. 343-10.
- Ashby, Ronald J., to Johnson & Phillips Ltd. Apparatus for use in laying submarine cables. 2,931,185, 4-5-60, Cl. 61-72.
- Ashby, William C., to Remington Arms Co., Inc. Cartridge orienting apparatus. 2,932,377, 4-12-60, Cl. 198-33.
- Ashe, John M.: *See*—  
Malloy, John E., and Ashe. 2,944,414.
- Taylor, William. 2,942,443.
- Asher, Carlton R., to James Lees and Sons Co. Carpet sample display rack. 2,946,454, 7-26-60, Cl. 211-45.
- Ashidate, Toshi N.: *See*—  
Rolph, James M., and Ashidate. 2,963,807.
- Ashinuma, Kanichi: *See*—  
Takahashi, Noboru, Kazato, Ashinuma, and Watanabe. 2,932,069.
- Ashkin, Arthur, to Bell Telephone Laboratories, Inc. Traveling wave tube. 2,926,281, 2-23-60, Cl. 315-3.6.
- Ashkin, Arthur, to Bell Telephone Laboratories, Inc. Traveling wave tube interaction circuit. 2,948,828, 8-9-60, Cl. 315-3.6.
- Ashkin, Arthur, J. S. Cook, W. H. Louisell, and C. F. Quate, to Bell Telephone Laboratories, Inc. Parametric amplifier. 2,958,001, 10-25-60, Cl. 315-3.
- Ashland Oil & Refining Co.: *See*—  
Paulsen, Thorwell H. 2,951,886.
- Paulsen, Thorwell H., and Hoertz. 2,934,573.
- Rippie, Charles W. 2,952,627.
- Ashley, Carlyle M., to Carrier Corp. Apparatus for processing food products. 2,947,304, 8-2-60, Cl. 126-381.
- Ashley, Carlyle M., to Carrier Corp. Method and apparatus for blanching food products. 2,948,619, 8-9-60, Cl. 99-100.
- Ashley, Carlyle M., to Carrier Corp. Method and apparatus for blanching food products. 2,948,620, 8-9-60, Cl. 99-100.
- Ashley, Carlyle M., and A. Zulinke, to Carrier Corp. Centrifugal refrigeration machines. 2,921,445, 1-19-60, Cl. 62-117.
- Ashley, Carlyle M., and W. H. Roberts, to Carrier Corp. Nozzle construction. 2,962,953, 12-6-60, Cl. 98-40.
- Ashley, Joseph: *See*—  
Ward, William M., and Ashley. 2,948,185.
- Ashley, Robert: *See*—  
Rea, James O., and Wheat. 2,927,811.
- Ashley, Walter M., Jr., to International Harvester Co. Vertical adjusting means for wheels of crawler vehicles. 2,926,969, 3-1-60, Cl. 305-9.
- Ashlock, Alma E.: *See*—  
Ashlock, George W., Jr. 2,935,104.
- Ashlock, George W., Co.: *See*—  
Ashlock, George W., Jr. 2,935,104.
- Ashlock, George W., Jr., deceased, by A. E. Ashlock, legal representative, to George W. Ashlock Co. Stripping means for cherry pitting head. 2,935,104, 5-3-60, Cl. 146-19.
- Ashmore, Henry W. Outboard motor lock. 2,930,218, 3-29-60, Cl. 70-58.
- Ashmore, Richard D., to Monsanto Chemical Co. Alkylation of aromatic compounds. 2,948,763, 8-9-60, Cl. 260-671.
- Ashton, Benjamin N., to Electrol Inc. Self-contained power actuator. 2,939,283, 6-7-60, Cl. 60-52.
- Ashton, Benjamin N., to Electrol Inc. Self-contained power actuator. 2,944,400, 7-12-60, Cl. 60-52.
- Ashton, Benjamin N., and R. J. Barten, to Electrol Inc. Piston type accumulator. 2,937,663, 5-24-60, Cl. 138-31.
- Ashton, Robert, to Massey-Ferguson Inc. Combine cleaning shoe. 2,939,581, 6-7-60, Cl. 209-318.
- Ashton, William E.: *See*—  
Baranauckas, Charles F., and Ashton. 2,924,627.
- Baranauckas, Charles F., Ashton, and Gelfand. 2,965,683.
- Cook, Clayton M., Moser, and Ashton. 2,923,664.
- Ashton, William H.: *See*—  
Castelli, Charles, Moser, and Ashton. 2,939,610.
- Johnson, Robert W., Jr., Mortimer, and Ashton. 2,964,039.
- Ashton, William H., and E. A. Morse, to Personal Products Corp. Absorbent product. 2,964,040, 12-13-60, Cl. 128-290.
- Ashton, William H., and E. A. Morse, to Personal Products Corp. Absorbent product. 2,964,041, 12-13-60, Cl. 128-290.
- Ashwill, Richard E., and N. M. Kapp, to Houdry Process Corp. Moving-bed vapor-phase treatment of kaolin clays. 2,928,793, 3-15-60, Cl. 252-450.
- Ashwood, Peter F., and G. W. Crosse, to Minister of Supply, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Discharge nozzles for propulsive jets. 2,930,186, 3-29-60, Cl. 60-35.6.
- Ashworth, Fred, and J. R. Ioannilli, to United Shoe Machinery Corp. Shoe sewing machines. 2,928,361, 3-15-60, Cl. 112-58.
- Ashworth, Fred, and J. R. Ioannilli, to United Shoe Machinery Corp. Driving and stopping mechanisms. 2,936,727, 5-17-60, Cl. 112-219.
- Ashworth, James E., to United States Steel Corp. Lubricated roll. 2,950,150, 8-23-60, Cl. 308-187.
- Ashworth, James E., to United States Steel Corp. Coil carrier with pneumatic coil support. 2,958,493, 11-1-60, Cl. 248-119.
- Asinger, Friedrich, M. Thiel, and W. Höringklee, to VEB Leuna-Werke "Walter Ulbricht." Dihydro-m-thiazine-4,3,4 compounds and process for their preparation. 2,946,788, 7-26-60, Cl. 260-243.
- Ask, Jonas W. Apparatus for measuring the width of an object. 2,933,973, 4-26-60, Cl. 88-14.
- Askania-Werke A.G.: *See*—  
Behrmann, Herwart, and Kudritzki. 2,930,668.
- Haalck, Fritz. 2,950,434.
- Haalck, Fritz. 2,959,961.
- Hildebrand, Klaus. 2,956,472.
- Kuehne, Christoph. 2,930,895.
- Pocher, Hugo. 2,964,990.
- Schulze, Reinhard. 2,928,044.
- Werner, Friedrich. 2,938,270.
- Werner, Friedrich. 2,961,917.
- Aske, Charles B., Jr.: *See*—  
Barnes, James H. 2,937,426.
- Barnes, James H. 2,937,902.
- Barnes, James H. 2,937,904.
- Barnes, James H. 2,964,357.
- Wood, Edward L. 2,963,324.
- Wood, Edward L. 2,963,326.
- Aske, Charles B., Jr., and E. L. Wood. Vehicle wheel trim. 2,963,325, 12-6-60, Cl. 301-37.
- Aske, Charles B., Jr., and E. L. Wood. Wheel trim and multi-color tire trim construction. 2,964,354, 12-13-60, Cl. 301-37.
- Aske, Donald D. Ornamental disc for wheels. 2,935,361, 5-3-60, Cl. 301-37.
- Aske, Leonard E., to Minneapolis-Honeywell Regulator Co. Motor element and method of manufacture therefor. 2,929,946, 3-22-60, Cl. 310-266.
- Asker, Gunnar C. F., and G. K. A. Siggelin, to Desomatic Products, Inc. Butterfly valve. 2,946,554, 7-26-60, Cl. 251-306.
- Askins, John J., and H. A. Young, to Radio Corp. of America. Motion picture film editing system. 2,927,153, 3-1-60, Cl. 178-6.
- Askren, Lee T., to Eastman Kodak Co. Friction clutch. 2,928,265, 3-15-60, Cl. 64-30.
- Askue, Albert R.: *See*—  
Penote, Vincent S., Askue, and Rear. 2,940,188.



- Askue, Albert R., to The Cleveland Trencher Co. Excavator rooter tooth assembly. 2,940,191, 6-14-60, Cl. 37-142.
- Askue, Albert R., to The Cleveland Trencher Co. Tamping machine. 2,949,829, 8-23-60, Cl. 94-49.
- Asmus, Richard W.: *See—*  
Brown, Glenn R., and Asmus. 2,964,465.
- Asp, Howard L., to Halogen Insulator and Seal Corp. Composite seal. 2,951,721, 9-6-60, Cl. 288-16.
- Asp, Howard L., and J. W. Roffe, to Halogen Insulator and Seal Corp. Magnetic stirring bar. 2,951,689, 9-6-60, Cl. 259-144.
- Aspden, Robert G., and N. I. Ananthanarayanan, to Westinghouse Electric Corp. Heat treating nickel-iron alloys. 2,921,878, 1-19-60, Cl. 148-120.
- Aspegren, Olof E. A., to The Oil Shale Corp. Method of pyrolysis of fuel. Re. 24,894, 11-8-60, Cl. 202-14.
- Aspelin, Leslie L., to Thompson Ramo Wooldridge Inc. Pump. 2,923,245, 2-2-60, Cl. 103-42.
- Aspelin, Leslie L., to Thompson Ramo Wooldridge, Inc. Method of making pump components. 2,925,648, 2-23-60, Cl. 29-156.4.
- Aspelin, Leslie L., to Thompson Ramo Wooldridge Inc. Thrust bearing. 2,930,661, 3-29-60, Cl. 308-160.
- Aspelin, Leslie L., to Thompson Ramo Wooldridge Inc. Shaft seal for alternate wet and dry operation. 2,957,711, 10-25-60, Cl. 286-11.
- Aspenberg, Erik V., to Aktiebolaget Svenska Järnvägsverkstäder. Coupling device for wheeled vehicles. 2,949,194, 8-16-60, Cl. 213-45.
- Aspergren, Brooke D.: *See—*  
Heinzelman, Richard V., Moffett, and Aspergren. 2,933,495.  
Heinzelman, Richard V., Moffett, and Aspergren. 2,933,496.
- Asphalt Equipment and Engineering Co.: *See—*  
Fuller, Homer H. 2,952,107.
- Aspin, F. M., Engines Ltd.: *See—*  
Aspin, Frank M. 2,926,639.  
Aspin, Frank M. 2,947,295.
- Aspin, Frank M.,  $\frac{1}{2}$  to F. M. Aspin Engines Ltd. Rotary valves for internal combustion engines. 2,926,639, 3-1-60, Cl. 123-41.4.
- Aspin, Frank M. Internal combustion engines. 2,926,640, 3-1-60, Cl. 123-41.17.
- Aspin, Frank M.,  $\frac{1}{2}$  to F. M. Aspin Engines Ltd. Internal combustion engines. 2,947,295, 8-2-60, Cl. 123-75.
- Aspinwall, John E., to The Arrow-Hart & Hegeman Electric Co. Single-button-actuated switch. 2,950,372, 8-23-60, Cl. 200-156.
- Asplund, Arne J. A., to Aktiebolaget Defibrator. Grinding apparatus for fibrous materials. 2,964,250, 12-13-60, Cl. 241-256.
- Asprey, Larned B.: *See—*  
Anderson, Herbert H., and Asprey. 2,924,506.
- Aspro-Nicholas Ltd.: *See—*  
Thomas, John W. 2,938,318.
- Asquith, Harold M., to United States of America, Navy. Radar search stabilization system. 2,926,348, 2-23-60, Cl. 343-7.4.
- Asquith, Harold M., to Raytheon Co. Target display system. 2,930,036, 3-22-60, Cl. 343-17.
- Assalini, Giuseppe, to Rohm & Haas Co. Ion exchange purification process. 2,929,745, 3-22-60, Cl. 127-46.
- Assalini, Giuseppe, to Rohm & Haas Co. Process for purifying sugar. 2,929,746, 3-22-60, Cl. 127-46.
- Assembly Products, Inc.: *See—*  
Saint-Amour, John D., and Crowdes. 2,947,919.
- Asset, Gabrielle M., and B. P. McNamara, to United States of America, Army. Solenoid operated microburette. 2,921,715, 1-19-60, Cl. 222-70.
- Assie, Marcel A. J. J., to Les Industries Musicales et Electriques Pathe Marconi. Gramophone pick-ups. 2,965,378, 12-20-60, Cl. 274-37.
- Assinck, Anton B.: *See—*  
Assinck, Joseph J. and A. B. 2,960,228.
- Assinck, Joseph J. and A. B. Cleaning device for vibrating screens. 2,960,228, 11-15-60, Cl. 209-390.
- Assmus, Fritz: *See—*  
Neumann, Johannes, Weiss, and Assmus. 2,942,177.
- Associated British Maltsters Ltd.: *See—*  
Macey, Alan, and Stowell. 2,960,409.
- Associated Co., Inc.: *See—*  
Janson, James H. 2,959,264.
- Associated Electrical Industries Ltd.: *See—*  
Allenden, Dennis. 2,944,216.
- Associated Engineering & Equipment Co.: *See—*  
Cammack, Arthur R. 2,925,731.  
Collett, James D., and Walston. 2,938,964.
- Associated Nucleonics, Inc.: *See—*  
Brynes, James J. 2,923,376.  
Frankfort, Jacob H. 2,955,549.  
Miller, Philip. 2,957,402.
- Associated Portland Cement Manufacturers Ltd., The: *See—*  
Davis, Geoffrey G. J. 2,945,687.  
Jones, Kenneth W., and Jackson. 2,934,445.  
Jones, Kenneth W., and Jackson. 2,953,467.
- Associated Refrigerating Engineers: *See—*  
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- Associated Spring Corp.: *See—*  
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- Associated Television Ltd.: *See—*  
Macnamara, Terence C., Phillips, and Rook. 2,943,241.
- Associated Ventures, Inc.: *See—*  
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- Associates, Inc.: *See—*  
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- Association For Physiologic Research Inc.: *See—*  
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Mahon, Thomas J., Edelstein, and Glickstein. 2,954,678.
- Astac Corp., The: *See—*  
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Palo, Maurice M. 2,957,052.  
Schweitzer, Fritz L., Jr. 2,937,242.
- Asta-Werke Aktiengesellschaft Chemische Fabrik: *See—*  
Arnold, Herbert, Kühas, and Brock. 2,957,006.  
Arnold, Herbert, Kühas, and Pohle. 2,932,668.  
Arnold, Herbert, Rebling, and Erhardt. 2,936,317.
- Asten, Dietrich V., and J. G. Schoepf, to Asten-Hill Mfg. Co. Asbestos dryer felt. 2,947,328, 8-2-60, Cl. 139-412.
- Asten-Hill Mfg. Co.: *See—*  
Asten, Dietrich V., and Schoepf. 2,947,328.  
Asten, William P., to Melpar, Inc. Photoelectric device. 2,920,209, 1-5-60, Cl. 250-239.
- Astheimer, Robert W., to Barnes Engineering Co. Matching circuit for radiation detectors. 2,945,181, 7-12-60, Cl. 250-214.
- Astheimer, Robert W., to Barnes Engineering Co. Electrical signal offsetting apparatus. 2,963,910, 12-13-60, Cl. 73-355.
- Astheimer, Robert W., and M. M. Merlen, to Barnes Engineering Co. Tracker for moving objects. 2,961,545, 11-22-60, Cl. 250-203.
- Asti, Mansueto, and J. Cavedon, Jr., to Falls Yarn Mills, Inc. Fly return for cards. 2,959,824, 11-15-60, Cl. 19-107.
- Astier, Pierre J.-B. Composing machine. 2,936,831, 5-17-60, Cl. 164-112.
- Astl, Jaromir. Differential pressure gauge. 2,948,151, 8-9-60, Cl. 73-406.
- Aston, Jack: *See—*  
Emblem, Harold G., and Aston. 2,930,089.
- Astore, John J. Steel measuring tape. 2,934,283, 4-26-60, Cl. 242-84.8.
- Astra, Inc.: *See—*  
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- Åstradsson, Per A.: *See—*  
Senning, Åke, and Åstradsson. 2,961,965.
- Ataka & Co., Ltd.: *See—*  
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- Atalla, Martin M., to Bell Telephone Laboratories, Inc. Junction formation by thermal oxidation of semiconductive material. 2,953,486, 9-20-60, Cl. 148-1.5.
- Atanasoff, John V., to Aerojet-General Corp. Electronic signaling systems. 2,958,866, 11-1-60, Cl. 343-112.
- Atanasoff, John V. Underwater transducer. 2,961,639, 11-22-60, Cl. 340-14.
- Atchison, Leonard W., to General Electric Co. Self contained air conditioner having noise attenuating means. 2,920,460, 1-12-60, Cl. 62-296.
- Atchison, Leonard W., to General Electric Co. Air conditioning apparatus. 2,920,461, 1-12-60, Cl. 62-325.
- Atchison, Leonard W., to General Electric Co. Combined thermostat and defrost control for air conditioning apparatus. 2,947,153, 8-2-60, Cl. 62-156.
- Atchley, Raymond D., to Raymond Atchley, Inc. Electromagnetic actuator. 2,962,611, 11-29-60, Cl. 310-29.
- Atchley, Raymond, Inc.: *See—*  
Atchley, Raymond D. 2,962,611.
- Ateliers de Constructions Electriques de Charleroi: *See—*  
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Brasseur, Eudore. 2,922,655.  
Brasseur, Eudore. 2,964,324.  
Fouassin, Marcel L. 2,929,007.  
Martin, Fernand. 2,946,920.  
Mercier, Henry. 2,937,238.  
Schreurs, Willy. 2,946,656.
- Ateliers de la Molobecaue, Societe Anonyme Francaise: *See—*  
Jaulmes, Eric. 2,950,625.
- Ateliers des Charmilles S.A.: *See—*  
Mironoff, Nicolas. 2,922,022.
- Ateliers G.S.P.: *See—*  
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Pegard, Pierre. 2,952,159.
- Athens Plow Co.: *See—*  
Shipp, John W. 2,944,614.
- Atherton, Charles E.: *See—*  
Butler, James H., and Atherton. 2,936,542.
- Atherton, Frank R., to Hoffmann-La Roche Inc. Esters of 2-carbamylphenyl phosphate. 2,944,074, 7-5-60, Cl. 260-461.
- Atherton, Neil F., to Blackhawk Mfg. Co. Hydraulic pressure applying tool. 2,935,851, 5-10-60, Cl. 60-52.
- Athey, Skipwith W., to Ampex Corp. Television standards conversion system. 2,960,566, 11-15-60, Cl. 178-6.
- Atilano, Ernest A.: *See—*  
Hoffman, Mark I., and Atilano. 2,955,649.
- Atkeson, Florian V., to Pittsburgh Plate Glass Co. Annealing glass. 2,952,097, 9-13-60, Cl. 49-17.
- Atkeson, Florian V., to Pittsburgh Plate Glass Co. Electric furnace control method. 2,924,695, 2-9-60, Cl. 219-34.



- Atkeson, Florian V., and W. W. Baltzer, to Pittsburgh Plate Glass Co. Apparatus for drawing sheet glass. 2,960,800, 11-22-60, Cl. 49—17.
- Atkian, Agop K.: *See—*  
Babayan, Vigen K., and Atkian. 2,948,717.
- Atkin, Edgar H., to Republic Aviation Corp. Aircraft skin construction. 2,945,653, 7-19-60, Cl. 244—119.
- Atkin, Leonard, to Stone Mfg. Co. Lamp holder. 2,928,934, 3-15-60, Cl. 240—3.
- Atkin, Rupert L.: *See—*  
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- Atkin, Rupert L., to Kelsey-Hayes Co. Brake control system. 2,940,561, 6-14-60, Cl. 192—3.
- Atkin, Rupert L., to Kelsey-Hayes Co. Quick acting wheel clamp. 2,961,272, 11-22-60, Cl. 301—9.
- Atkins, Carl E., to Tung-Sol Electric Inc. Photoelectric control circuit. 2,923,829, 2-2-60, Cl. 250—214.
- Atkins, David, to American Buff Co. Buffing apparatus. 2,922,262, 1-26-60, Cl. 51—193.
- Atkins, Don C., Jr.: *See—*  
Newman, Kenneth W., Atkins, and Douglas. 2,939,772.
- Atkins, Floyd W.: *See—*  
Elkin, Hugh W., and Atkins. 2,921,759.
- Atkins, Harold W. Aircraft warning system. 2,960,679, 11-15-60, Cl. 340—25.
- Atkins, Horace K., to Winthrop-Atkins Co., Inc. Greeting card mount. 2,926,444, 3-1-60, Cl. 40—158.
- Atkins, S. Lawrence: *See—*  
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- Atkins, Walter W., and P. W. Bixby, Jr., to United States of America, Navy. Device for accelerating the ignition of the propellant for a projectile. 2,926,566, 3-1-60, Cl. 89—28.
- Atkinson Bulk Transport Co.: *See—*  
Atkinson, Frederick M., and Paulsen. 2,938,752.  
Atkinson, Frederick M., Paulsen, and Mattson. 2,946,626.
- Atkinson, Donald L., to Lear, Inc. Pickoff responsive to displacement between relatively movable members. 2,945,959, 7-19-60, Cl. 250—237.
- Atkinson, Duane E. Back-up warning system and timing circuit therefor. 2,940,063, 6-7-60, Cl. 340—70.
- Atkinson, Duane E. Signalling system. 2,951,973, 9-6-60, Cl. 317—147.
- Atkinson, Frederick M., and A. L. Paulsen, to Atkinson Bulk Transport Co. Apparatus for conveying finely divided materials. 2,938,752, 5-31-60, Cl. 302—49.
- Atkinson, Frederick M., A. L. Paulsen, and D. F. Mattson, to Atkinson Bulk Transport Co. Suction-pressure unloading system. 2,946,626, 7-26-60, Cl. 302—23.
- Atkinson, George H., to Columbia-Southern Chemical Corp. Method of densifying and pelletizing alkaline earth metal silicates. 2,929,693, 3-22-60, Cl. 23—313.
- Atkinson, Guy F., Co.: *See—*  
Keef, Dennis W. 2,928,585.
- Atkinson, Herbert J. Apparatus for purification and treatment of feed water or other liquids. 2,955,923, 10-11-60, Cl. 23—272.
- Atkinson, Hollis F. B. Litter bag and holder. 2,964,275, 12-13-60, Cl. 248—95.
- Atkinson, Jack R. Folding wing aircraft. 2,961,196, 11-22-60, Cl. 244—46.
- Atkinson, John R., G. Booth, E. L. Johnson, and W. P. Mills, to Imperial Chemical Industries Ltd. New colouring process. 2,944,870, 7-12-60, Cl. 8—39.
- Atkinson, John R., G. Booth, E. L. Johnson, and W. P. Mills, to Imperial Chemical Industries Ltd. New colouring process. 2,944,871, 7-12-60, Cl. 8—41.
- Atkinson, Kenneth. Welding and cutting torch combination. 2,935,125, 5-3-60, Cl. 158—274.
- Atkinson, Kenneth. Safety connector for high pressure gas, steam or liquid containers. 2,945,503, 7-19-60, Cl. 137—68.
- Atkinson Mfg. Co., Inc.: *See—*  
Atkinson, Truman L. 2,943,741.
- Atkinson, Robert P., F. W. Hoeltje, and C. J. McDowall, to General Motors Corp. Turbine air system. 2,951,337, 9-6-60, Cl. 60—39.08.
- Atkinson, Robert P., and C. J. McDowall, to General Motors Corp. Lubrication system for a turbine engine. 2,964,132, 12-13-60, Cl. 184—6.
- Atkinson, Truman L., to Atkinson Mfg. Co., Inc. Shoe rack. 2,943,741, 7-5-60, Cl. 211—37.
- Atkinson, Truman L., Jr.: *See—*  
Atkinson, Truman L., Sr. 2,943,744.
- Atkinson, Truman L., Sr., to T. L. Atkinson, Jr. Fireplace fixture. 2,943,744, 7-5-60, Cl. 211—60.
- Atkinson, William G., to Somerville Ltd. Apparatus for setting up corner lock cartons. 2,942,533, 6-28-60, Cl. 93—51.
- Atkron, Inc.: *See—*  
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- Atlantic Machine Tool Works, Inc.: *See—*  
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- Atlantic Refining Co., The: *See—*  
Bonetti, Giovanni A. 2,934,571.  
Brownscombe, Eugene R., and Connell. 2,942,176.  
Connor, James E., Jr., and Shipley. 2,941,958.  
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Gzemski, Felix C., and Ford. 2,935,412.  
Hunter, James B., and Hickey. 2,961,062.  
Martin, John L. 2,941,784.  
McGuire, William J., Jr., and Kern. 2,950,247.  
Mullings, William M. 2,922,362.  
Pitts, Paul M., Jr. 2,962,536.  
Pitts, Paul M., Jr., and Ciapetta. 2,942,041.  
Pitts, Paul M., Jr., and Griesinger. 2,931,842.  
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- Atlantic Research Corp.: *See—*  
Rumbel, Keith E., and Hilburn. 2,931,633.  
Scurlock, Arch C. 2,942,419.  
Sloan, Arthur W., and Mann. 2,931,800.  
Sloan, Arthur W., and Mann. 2,931,801.  
Sloan, Arthur W., and Weil. 2,966,405.  
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- Atlas Bolt & Screw Co., The: *See—*  
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- Atlas, David, L. Eisenberg, W. Hirschfeld, and J. S. Marshall, to United States of America, Air Force. Analysis of radar meteorological statistical data. 2,939,129, 5-31-60, Cl. 343—5.
- Atlas International Co.: *See—*  
Fingerman, Albert, and Simaner. 2,954,999.
- Atlas-Pacific Engineering Co., Inc.: *See—*  
Harrer, Theodore M., and Loveland. 2,952,286.
- Atlas Plywood Corp.: *See—*  
Muller, Robert A. 2,940,491.
- Atlas Powder Co.: *See—*  
Barker, George E. 2,934,568.  
Brandner, John D. 2,966,422.  
Costine, Raymond L., and Behrens. 2,945,818.  
Frost, Arthur L. 2,935,718.  
Grow, Joseph A., Jr. 2,940,352.  
Hay, Horace E. 2,964,835.  
Simon, Edward M., Jr. 2,941,892.
- Atlas Press Co.: *See—*  
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- Atlas Scraper and Engineering Co.: *See—*  
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- Atlas Silk Screen Supply Co.: *See—*  
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- Atlas Stencil Files Corp.: *See—*  
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- Atlas Tool & Mfg. Co.: *See—*  
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- Atlas-Werke Aktiengesellschaft: *See—*  
Schumacher, Martin. 2,925,580.
- Atlas, Zenas, to Allen B. Du Mont Laboratories, Inc. Automatic gain control circuit. 2,925,476, 2-16-60, Cl. 179—171.
- Atmore, Edward A. Brush masticating machine. 2,925,703, 2-23-60, Cl. 56—502.
- Atols, John S. Combined gauge and jig. 2,966,080, 12-27-60, Cl. 77—62.
- Atomic Energy of Canada Ltd.: *See—*  
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Goulding, Frederick S. 2,936,382.  
Marr, John D., and Cross. 2,957,084.  
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McKenzie, Donald E. 2,934,424.  
Palmer, James F., and Turner. 2,947,166.  
Pearson, Albert. 2,955,207.  
Snarr, James L. 2,936,052.
- Atran, Max. Balanced, point edge control device for gas pedals. 2,930,250, 3-29-60, Cl. 74—482.
- Atwater, Norman W., to G. D. Searle & Co. 17-substituted cyclohex [2,3] androsta-23(3), 4-dien-22-ones and derivatives. 2,939,866, 6-7-60, Cl. 260—239.55.
- Atwell, Everett C., to Burlington Industries, Inc. Adhesion of vinyl resins to nylon or other synthetic fibrous materials. 2,961,343, 11-22-60, Cl. 117—76.
- Atwell, Harold V., to Texaco Inc. Ore beneficiation. 2,954,288, 9-27-60, Cl. 75—1.
- Atwell, Harold V., to Texaco Inc. Process for the gasification of solid carbonaceous fuels. 2,963,354, 12-6-60, Cl. 48—206.
- Attenburrow, John: *See—*  
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- Attewell, Oliver G., to McGraw-Edison Co. Core for electro-magnetic induction apparatus. 2,942,218, 6-21-60, Cl. 336—217.
- Attinello, John S. Aircraft high lift supercirculation system using supersonic blowing. Re. 24,917, 12-27-60, Cl. 244—42.
- Attinello, John S. Controllable and variable configuration effect system for aircraft. 2,956,760, 10-18-60, Cl. 244—130.



- Attinello, John S. Gas jets for controlling entrance and/or exit flow effective diameter. 2,957,306, 10-25-60, Cl. 60—35.6.
- Attridge, Richard B. Beam compass tool. 2,943,392, 7-5-60, Cl. 30—361.
- Attwood, Charles W. Pallets of the load supporting type. 2,922,607, 1-26-60, Cl. 248—120.
- Attwood, Charles W. Display board. 2,925,918, 2-23-60, Cl. 211—87.
- Attwood, John G., to Union Special Machine Co. Rotary hook construction for sewing machines. 2,941,488, 6-21-60, Cl. 112—228.
- Atwood, Harry N. and N. D. Building construction. 2,922,200, 1-26-60, Cl. 20—2.
- Atwood, Hyatt B., to Herr Mfg. Co., Inc. Composite spinning rings. 2,932,937, 4-19-60, Cl. 57—120.
- Atwood, John B., to United States of America, Navy. Counter circuit. 2,935,689, 5-3-60, Cl. 328—193.
- Atwood, John B., to Radio Corp. of America. Pulse receiver. 2,937,270, 5-17-60, Cl. 250—20.
- Atwood, John B., and G. E. Hansell, to United States of America, Navy. Pulse amplitude selective circuit. 2,937,272, 5-17-60, Cl. 250—27.
- Atwood, John G., to The Perkin-Elmer Corp. Radiation detection system. 2,932,743, 4-12-60, Cl. 250—83.3.
- Atwood, Nellie D.: See—
- Atwood, Harry N. and N. D. 2,922,200.
- Atwood, Rawson, and C. C. L'Allemand, to Decorated Metal Mfg. Co., Inc. Spool. 2,953,317, 9-20-60, Cl. 242—118.31.
- Atwood, Seth B.: See—
- Patzer, William A. 2,942,713.
- Patzer, William A. 2,957,387.
- Atwood, Smith B., Jr., to King-Seeley Corp. Speedometer. 2,943,595, 7-5-60, Cl. 116—116.
- Atwood Vacuum Machine Co.: See—
- Dall, Edward D. 2,930,645.
- Johnson, Agnar. 2,934,733.
- Aubert, Fred B.: See—
- Andrews, Glenn E., and Aubert. 2,953,196.
- Auble, Carmon M., and M. F. Heidmann. Instrument for the quantitative measurement of radiation at multiple wave lengths. 2,960,002, 11-15-60, Cl. 88—14.
- Aubrey, Herman S., to National Tank Co. Petroleum vapor recovery system. 2,947,379, 8-2-60, Cl. 183—2.
- Aubry, Richard M., to Owens-Illinois Glass Co. Glass packaging. 2,955,395, 10-11-60, Cl. 71.
- Auburn Machine Works, Inc.: See—
- George, Warren E. 2,930,242.
- Aucamp, Johan D. Stroke adjuster. 2,927,478, 3-8-60, Cl. 74—586.
- Aude, John R., and N. I. Potter, to Wehr Steel Co. Automatic brake. 2,966,240, 12-27-60, Cl. 188—171.
- Audemar, Pierre, to Societe Alsacienne de Constructions Mecaniques. Pumps. 2,957,423, 10-25-60, Cl. 103—84.
- Audretsch, Leo M., and K. B. Day, Jr., to International Business Machines Corp. Electronic commutator. 2,955,254, 10-4-60, Cl. 328—106.
- Audrieth, Ludwig F., and D. W. Ryker, to Olin Mathieson Chemical Corp. Fuel. 2,943,927, 7-5-60, Cl. 52—5.
- Audrieth, Ludwig F., and G. C. Hale. Explosive. 2,929,698, 3-22-60, Cl. 52—5.
- Audrieth, Ludwig F., and G. C. Hale. Explosive. 2,929,699, 3-22-60, Cl. 52—5.
- Auer, Joseph, Jr., and L. S. Yost, to United States of America, Navy. High capacity fluid brake. 2,960,968, 11-22-60, Cl. 121—38.
- Auer, Peter L., and A. H. Sharbaugh, to General Electric Co. Pump operation. 2,945,443, 7-19-60, Cl. 103—1.
- Auer Register Co., The: See—
- Steffner, Edward F. 2,955,525.
- Auer, William F., to J. T. Clark. Game apparatus. 2,954,232, 9-27-60, Cl. 273—185.
- Auerbach, Albert A., and R. F. Shaw, to Curtiss-Wright Corp. Data transfer device. 2,944,248, 7-5-60, Cl. 340—174.
- Auerbach, Isaac L., to Burroughs Corp. Static memory system. 2,928,080, 3-8-60, Cl. 340—174.
- Auerbach, Isaac L., to Burroughs Corp. Magnetic counter. 2,960,684, 11-15-60, Cl. 340—174.
- Auerbach, Victor: See—
- Barr, Eugene A., and Auerbach. 2,940,954.
- Auerbach, Victor, and C. L. Tatton, to Union Carbide Corp. Method of conditioning surface soil with a phenolaldehyde resin and soil obtained therefrom. 2,934,511, 4-26-60, Cl. 260—38.
- Aufrecht, Gustave. Spectacle supported nasal clamp. 2,965,099, 12-20-60, Cl. 128—76.
- Augsburger, Herbert M., to Owens-Illinois Glass Co. Means for neutralizing current in glass withdrawn from electrically heated furnace. 2,932,921, 4-19-60, Cl. 49—55.
- August, Pablo. Carburetor for internal combustion engines. 2,928,662, 3-15-60, Cl. 261—41.
- Augustin, Darold A., to Bendix-Westinghouse Automotive Air Brake Co. Multiple range control valve for air spring. 2,959,426, 11-8-60, Cl. 280—124.
- Augustin, Johann: See—
- Grimsen, Gerhard, and Augustin. 2,956,120.
- Augustin, Johann, and H. Wlodarczak, to International Standard Electric Corp. One way link system between tape back spacing means and lever operated code cancelling punch. 2,937,702, 5-24-60, Cl. 164—112.
- Augustine, Albert F.: See—
- De Cola, Rinaldo E., and Augustine. 2,966,603.
- Auld, Edwin C., Jr., and J. H. Northrop, to Phillips Aviation Co. Magnetic switch mechanism. 2,927,176, 3-1-60, Cl. 200—87.
- Aulds, Minnie L. Sewing machine lid and anti-skid cover therefor. 2,940,210, 6-14-60, Cl. 45—68.3.
- Ault, Cyrus F., to Allen B. Du Mont Laboratories, Inc. Wide-band amplifiers. 2,935,696, 5-3-60, Cl. 330—124.
- Ault, Isaac L., to Houston Oil Field Material Co., Inc. Well hole cleaner and method. 2,959,224, 11-8-60, Cl. 166—43.
- Ault, John W., to United States of America, Navy. Sonde. 2,934,287, 4-26-60, Cl. 244—14.
- Ault, Wayne E., to Automatic Sprinkler Corp. of America. Control device. 2,923,160, 2-2-60, Cl. 74—2.
- Aumann, Mark D., to Townsend Engineered Products, Inc. Flexible conveyor chute with one-piece links. 2,953,230, 9-20-60, Cl. 193—25.
- Aumick, Kenneth D., to Bendix Aviation Corp. Rotary positive displacement pump. 2,921,530, 1-19-60, Cl. 103—42.
- Aumiller, Edwin C., to Ramsey Corp. Method and apparatus for automatic lapping of piston rings. 2,929,174, 3-22-60, Cl. 51—157.
- Aumueller, Walter: See—
- Haack, Erich, Hagedorn, Peschke, Aumueller, and Wagner. 2,953,578.
- Aumuller, Kurt: See—
- Leimer, Albert, and Aumuller. 2,947,534.
- Aune, Alan E., and R. J. Noschese, to Burndy Corp. Compressible insulated connector for a shielded cable. 2,929,862, 3-22-60, Cl. 174—75.
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- Sitler, Richard W. 2,946,640.
- Sitler, Richard W. 2,953,011.
- Streit, Paul. 2,953,258.
- Ausenda, Carol, and R. Dessalles, to Compagnia Italiana Forme Acciaio S.p.A. Fabrication system. 2,947,203, 8-2-60, Cl. 77—5.
- Ausman, Milton A., to California Research Corp. Flow control system for particulate material. 2,942,741, 6-28-60, Cl. 214—17.
- Ausman, Paul W. Belt stretching and holding device. 2,942,847, 6-28-60, Cl. 254—54.
- Aust, Paul C., to Food Machinery and Chemical Corp. Method for filling powdered or granular materials into containers. 2,922,611, 1-26-60, Cl. 249—3.
- Austgen, Helen M.: See—
- Austgen, Paul E., and Sonheim. 2,956,706.
- Austgen, Paul E., deceased (H. M. Austgen, administratrix), and F. J. Sonheim. Paper cup dispensers. 2,956,706, 10-18-60, Cl. 221—14.
- Austin, Chester R., to Henry J. Kaiser Co. Movable gas sealing device for furnaces and the like. 2,954,244, 9-27-60, Cl. 285—11.
- Austin, Glenn M.: See—
- Seiferth, Oscar E., and Austin. 2,938,801.
- Austin, Harold A., to Brundage Co. Blower wheel assembly. 2,952,404, 9-13-60, Cl. 230—134.
- Austin, Harold A., and C. H. Guptail, to The Brundage Co. Blade center lock. 2,928,587, 3-15-60, Cl. 230—134.
- Austin, Harry W., to Mine Safety Appliances Co. Protective headgear and method of making it. 2,931,042, 4-5-60, Cl. 2—3.
- Austin, Harry W., to Mine Safety Appliances Co. Adjustable height sweatband. 2,964,753, 12-20-60, Cl. 2—3.
- Austin, Harry W., to Mine Safety Appliances Co. Vertically adjustable sweat bands for helmets. 2,964,754, 12-20-60, Cl. 2—3.
- Austin, James A., and C. J. Wiegand, to Jensen-Salsbery Laboratories, Inc. Milk fever treatment composition. 2,937,973, 5-24-60, Cl. 167—53.
- Austin, James E.,  $\frac{1}{2}$  to R. G. Austin. Recording traffic counter. 2,951,737, 9-6-60, Cl. 346—14.
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- Baker, Chester L., and Austin. 2,948,701.
- Austin, Kenneth L., to Burroughs Corp. Data conversion system. 2,944,733, 7-12-60, Cl. 235—61.6.
- Austin, Laurence: See—
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- Highfield, Frank W. W. 2,926,112.
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- Payne, Eric R. 2,963,010.
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- Austin, Oliver K.: See—
- Webster, George J., and Austin. 2,924,512.
- Austin, Oliver K., to Phillips Petroleum Co. Water spray in pellet mills. 2,948,918, 8-16-60, Cl. 13—1.
- Austin, Oliver K., to Phillips Petroleum Co. Process and apparatus for separating finely divided solids from fluids. 2,966,232, 12-27-60, Cl. 183—34.
- Austin Powder Co.: See—
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- Austin, Ralph W., to Knight and Thomas Inc. Fire extinguisher. 2,950,762, 8-30-60, Cl. 169—31.



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- Austin, Robert J., J. F. Grutsch, and R. C. Mallatt, to Standard Oil Co. Biotation treatment of oil-containing waste water. 2,948,677, 8-9-60, Cl. 210-44.
- Austin, Samuel. Bending tool. 2,942,269, 6-28-60, Cl. 1-222.
- Austin, Thomas W., to The Dow Chemical Co. Heat sealable thermoplastic film. 2,943,000, 6-28-60, Cl. 117-72.
- Autem, Fred, to Southern Textile Machinery Co. Inc. Hosiery inspecting apparatus. 2,957,613, 10-25-60, Cl. 223-43.
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- Automatic Canteen Co. of America: *See*—  
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- Automatic Draft and Stove Co., Inc.: *See*—  
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- Autotronics, Inc.: *See*—  
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- Autrey, Samuel W., to Bell Telephone Laboratories, Inc. Hybrid branching networks. 2,938,084, 5-24-60, Cl. 179-170.
- Auvil, Harvey S. Coke oven gauge. 2,923,062, 2-2-60, Cl. 33-148.
- Auvil, Harvey S., and L. D. Schmidt, to Allied Chemical Corp. Automatic process for treating coke oven tar. 2,934,488, 4-26-60, Cl. 208-45.
- Auwarter, John F., to Teletype Corp. Perforator. 2,931,861, 4-5-60, Cl. 178-92.
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- Auwarter, Max. Process for the manufacture of thin films. 2,920,002, 1-5-60, Cl. 117-33.3.
- Auxier, Jean L. Projectiles. 2,932,253, 4-12-60, Cl. 102-91.
- Auxier, Jean L. Projectile. 2,958,287, 11-1-60, Cl. 102-91.
- Auxier, Robert W.: *See*—  
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- Auz, Cape E. Hair curling device. 2,935,070, 5-3-60, Cl. 132-34.
- Avakian, Emik A., J. J. Malin, and W. P. Hoeffinger, to The Teleregister Corp. Cryptic grid scrambling and unscrambling method and apparatus. 2,952,080, 9-13-60, Cl. 35-2.
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- Avedon, Harvey. Cuff link. 2,920,363, 1-12-60, Cl. 24-97.
- Aveni, Anthony, to Hughes Aircraft Co. Toroidal coil winding apparatus. 2,921,751, 1-19-60, Cl. 242-4.
- Aveni, Anthony, 1/2 to J. A. McIntosh. Dispenser for pills or pellets and the like. 2,960,259, 11-15-60, Cl. 221-279.
- Avera, Fitzhugh L. Process for cleaning spots on fabric by applying a solvent and sub-atmospheric pressure to boil off the solvent. 2,922,694, 1-26-60, Cl. 8-137.
- Avera, Fitzhugh L., to Corn Products Co. Process of manufacturing nut flavoring additives. 2,948,621, 8-9-60, Cl. 99-128.
- Avera, Fitzhugh L., to Corn Products Co. Nut flavoring additives. 2,955,040, 10-4-60, Cl. 99-128.
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- Averill, Charles C., to Union Steel Products Co. Stacking crates or receptacles. 2,950,825, 8-30-60, Cl. 211-126.
- Averill, Eugene F., to Titus Mfg. Corp. Ceiling diffuser mounting. 2,928,331, 3-15-60, Cl. 98-40.
- Averill, Seward J.: *See*—  
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- Averill, Seward J., and F. X. Werber, to Goodrich-Gulf Chemicals, Inc. Production of organo-halides. 2,935,536, 5-3-60, Cl. 260—652.
- Aversten, Karl J., to Svenska Aktiebolaget Gasaccumulator. Solder attached cable clamp. 2,936,981, 5-17-60, Cl. 248—74.
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- Avery, Morris A. Frame structure for lights or ventilators in doors. 2,944,305, 7-12-60, Cl. 20—36.
- Avery, Ralph W., and F. B. Schneider, to General Electric Co. Rail vehicle suspension cable. 2,945,457, 7-19-60, Cl. 105—199.
- Avery, Robert C., to Bell Telephone Laboratories, Inc. Translator circuit. 2,965,718, 12-20-60, Cl. 179—18.
- Avery, Robert C., and F. E. Blount, to Bell Telephone Laboratories, Inc. Television program rating and recording apparatus. 2,923,771, 2-2-60, Cl. 179—2.
- Avery, Thomas L. Pressure exerting strut. 2,932,504, 4-12-60, Cl. 267—1.
- Avery, W. & T., Ltd.: *See—*
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- Avien, Inc.: *See—*
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- Axelrad, Bernard A., to Freeport Sulphur Co. Heating of sea water for sulfur mining. 2,947,690, 8-2-60, Cl. 210—57.
- Axelrad, Irving R., to United States of America, Atomic Energy Commission. Neutron absorption and shielding device. 2,942,116, 6-21-60, Cl. 250—108.
- Axelrad, Irving R., to United States of America, Atomic Energy Commission. Settable neutron radiation shielding material. 2,961,415, 11-22-60, Cl. 252—478.
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- Axelsson, Sten S., to Aktiebolaget Bhco. Gas stoves. 2,955,588, 10-11-60, Cl. 126—38.
- Axtell, Oliver H., Jr., and C. M. Clarke, to Celanese Corp. of America. Vapor phase polymerization of trioxane. 2,951,059, 8-30-60, Cl. 260—67.
- Axtell, Willard G., to Shwayder Bros., Inc. Luggage case. 2,950,792, 8-30-60, Cl. 190—49.
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- Ayala, Carl, to M. I. Glass. Toy cap gun with vibratable wire. 2,941,325, 6-21-60, Cl. 42—57.
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- Ayala, Carl, and B. C. Reed, to M. I. Glass. Noise making shoe attachment. 2,933,832, 4-26-60, Cl. 36—7.5.
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- Bockstahler, Theodore E., Aycock, and Carson. 2,920,108.
- Aydelott, Max M., to U.S. Industries, Inc. Pipe puller. 2,920,383, 1-12-60, Cl. 29—237.
- Aye, Raymond. Toy parachute and launcher. 2,949,694, 8-23-60, Cl. 46—86.
- Ayer, Donald E.: *See—*
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- Ayers, Arnold L., and C. R. Scott, to Phillips Petroleum Co. Sulfenamides and thiosulfenamides as hypergolic fuels. 2,932,941, 4-19-60, Cl. 60—35.4.
- Ayers, Clarence R., W. F. Jureit, and W. Bond. Record book. 2,922,661, 1-26-60, Cl. 282—22.
- Ayers, David T., Jr., to Kelsey-Hayes Co. Booster brake mechanism. 2,925,890, 2-23-60, Cl. 188—152.
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- Ayers, David T., Jr., to Kelsey-Hayes Co. Booster brake mechanism. 2,953,120, 9-20-60, Cl. 121—41.
- Ayers, Earl D., and J. W. Rebbeck, to The Dow Chemical Co. Well treating method. 2,933,136, 4-19-60, Cl. 166—42.
- Ayers, Edgar H., to Clark Equipment Co. Temperature compensated pile resistor. 2,935,713, 5-3-60, Cl. 338—101.
- Ayers, George W.: *See—*
- Manteuffel, Allan A., Ayers, and Gilson. 2,929,778.
- Martinek, Thomas W., Hutchings, Ayers, and Krewer. 2,954,397.
- Remes, Nathaniel L., and Ayers. 2,948,669.
- Ayers, George W., to The Pure Oil Co. Neutralization of crude dry-cleaning soaps. 2,921,910, 1-19-60, Cl. 252—161.
- Ayers, George W., to The Pure Oil Co. Concrete curing compound. 2,960,412, 11-15-60, Cl. 106—285.
- Ayers, George W., and W. A. Krewer, to The Pure Oil Co. Method of preparing odor free naphthas. 2,946,744, 7-26-60, Cl. 208—288.
- Ayers, George W., W. A. Krewer, T. W. Martinek, and L. E. Hutchings, to The Pure Oil Co. Stabilization of carbamate esters. 2,954,896, 9-27-60, Cl. 260—482.
- Ayers, George W., and W. A. Krewer, to The Pure Oil Co. Method for improving odorless naphthas. 2,956,014, 10-11-60, Cl. 208—289.
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- Ayers, George W., and W. A. Krewer, to the Pure Oil Co. Removal of naphthenic acids from petroleum oils and fractions thereof. 2,963,424, 12-6-60, Cl. 208—263.
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- Ayers, Joseph W. 2,936,243.
- Ayers, Joseph W. 2,936,244.
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- Ayers, Joseph W., to C. K. Williams & Co. Production of red oxide of iron pigments. 2,937,927, 5-24-60, Cl. 23—200.
- Aykanian, Ardasha A., to Monsanto Chemical Co. Method for preparing laminated foam structures. 2,962,407, 11-29-60, Cl. 154—100.
- Aykanian, Ardasha A., and F. A. Carlson, Jr., to Monsanto Chemical Co. Preparation of foamed thermoplastic resin forms having wrinkle-free profile surfaces. 2,945,261, 7-19-60, Cl. 18—48.
- Ayling, Robert W., to Carrier Corp. Compressor lubrication system. 2,963,113, 12-6-60, Cl. 184—6.
- Aylor, Eugene W. Chain guards for poultry coops and the like. 2,961,115, 11-22-60, Cl. 217—69.
- Aylward, William R., and J. R. Wilkerson, to United States of America, Navy. Binary encoded information matcher circuit. 2,930,027, 3-22-60, Cl. 340—149.
- Ayres, John E., to Oil Equipment Laboratories, Inc. Pressurized package. 2,962,196, 11-29-60, Cl. 222—399.
- Ayres, Robert: *See—*
- Covely, Robert D., 3rd., Ayres, and Stocker. 2,954,427.
- Ayres, Sharol L. Merchandising visual display. 2,926,558, 3-1-60, Cl. 88—1.
- Ayres, Wesley P., J. L. Melchor, and P. H. Vartanian, Jr., to Sylvania Electric Products Inc. Microwave frequency doubling and mixing in ferrites. 2,922,876, 1-26-60, Cl. 250—20.
- Ayres, William R., and J. N. Smith, to Radio Corp. of America. Message comparator. 2,934,272, 4-26-60, Cl. 235—177.
- Ayres, William R., and J. N. Smith, to Radio Corp. of America. Information handling system. 2,961,643, 11-22-60, Cl. 340—174.
- Aytoun, Robert S. C., and R. W. McWilliam, to Glaxo Laboratories Ltd. Production of mutants of the genus penicillium. 2,938,835, 5-31-60, Cl. 195—78.
- Azadian, Paul: *See—*
- Amundson, Moran, and Azadian. 2,938,097.
- Azari, Eric, A. E. Gray, H. J. Malin, and H. B. Thompson, to The Magnavox Co. Card feeding apparatus. 2,947,538, 8-2-60, Cl. 271—11.
- Azari, Eric, and A. M. Nelson, to The Magnavox Co. Card processing apparatus. 2,954,226, 9-27-60, Cl. 271—5.
- Azarraga, Luis. Rotary light for rotary lens camera. 2,920,543, 1-12-60, Cl. 95—11.
- Aziende Colovi Nazionali Affini-ACNA-S.p.A.: *See—*
- Gastani, Ermanno. 2,955,903.
- Azoplate Corp.: *See—*
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- B. B. Chemical Co.: *See—*
- Johnson, Eric C. 2,940,888.
- Morris, Thomas C., and Rossitto. 2,938,876.
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- Paulsen, Hans C. 2,961,992.
- Roop, Cyril W., Rossitto, and Chaplick. 2,957,207.
- Roop, Cyril W., and Urban. 2,956,310.



- B.B.T. Automatic, Inc.: *See*—  
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- B & C Metal Stamping Co.: *See*—  
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- B. G. Corp., The: *See*—  
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- B & H Homes, Inc.: *See*—  
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- B & H Instrument Co., Inc.: *See*—  
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- B-I-F Industries, Inc.: *See*—  
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- B J Service, Inc.: *See*—  
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- B.M.S. Automatic Co., Inc.: *See*—  
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- B.R.D. Co. Ltd.: *See*—  
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- BYK-Gulden Lomberg Chemische Fabrik G.m.b.H.: *See*—  
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- Bäab, Albert, to Jos. Schneider & Co. Optische Werke. Depth-of-field indicator for photographic objectives. 2,949,836, 8-23-60, Cl. 95-64.
- Bäab, Albert, to Jos. Schneider & Co., Optische Werke. Iris diaphragm for photographic or cinematographic objectives. 2,949,837, 8-23-60, Cl. 95-64.
- Baars, Conrad W.: *See*—  
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- Baas, Erwin. Method of producing a hollow beam. 2,925,893, 2-23-60, Cl. 183-37.
- Baas, Willem, to North American Philips Co., Inc. Method for making bonded contacts in semi-conductor devices. 2,942,097, 6-21-60, Cl. 219-110.
- Baasch, Thomas L., to Servo Corp. of America. Flake thermistor. 2,966,646, 12-27-60, Cl. 338-22.
- Babacz, Lewis, to Teleflex Inc. Connector. 2,957,353, 10-25-60, Cl. 74-501.
- Babakian, Jacob, and J. H. Bloom, to United States of America, Air Force. Cyclic control of R.F. energy transmission and reception. 2,938,178, 5-24-60, Cl. 333-13.
- Babayan, Vigen K.: *See*—  
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- Babayan, Vigen K., and A. K. Atikian, to E. F. Drew & Co., Inc. Sugar ester preparation and purification. 2,948,717, 8-9-60, Cl. 260-234.
- Babb, David D., to United States of America, Army. Quantum mechanical resonance devices. 2,948,861, 8-9-60, Cl. 331-3.
- Babbitt, Seth M., to Eclipse Counterbore Co. End mill having uninterrupted continuously-curved flute surfaces. 2,923,053, 2-2-60, Cl. 29-103.
- Babcock Box Co., Inc.: *See*—  
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- Babcock, Clarence L., and M. McDavitt, to Owens-Illinois Glass Co. Refractory glass composition. 2,961,328, 11-22-60, Cl. 106-52.
- Babcock, David L., and E. S. McKee, to Eastman Kodak Co. Built-in filter and indicator for cameras. 2,952,195, 9-13-60, Cl. 95-11.
- Babcock, Elden R., to United States of America, Navy. Packaged aid station. 2,950,791, 8-30-60, Cl. 190-9.
- Babcock, Henry N. Building construction. 2,943,716, 7-5-60, Cl. 189-1.
- Babcock, Horace W., to United States of America, Navy. Rocket launcher. 2,945,420, 7-19-60, Cl. 89-1.7.
- Babcock, Hugh H. Submarine suction cleaner. 2,923,954, 2-9-60, Cl. 15-1.7.
- Babcock, John C., to The Upjohn Co. 3-deoxy-11,17-oxygenated-androstanes. 2,927,109, 3-1-60, Cl. 260-239.55.
- Babcock, John C., J. A. Hogg, and R. L. Pederson, to The Upjohn Co. 2-oxyethylene-11-oxygenated-17a-alkyltestosterones. 2,927,933, 3-8-60, Cl. 260-397.45.
- Babcock, John C., and J. A. Campbell, to The Upjohn Co. 3-oxygenated 6,17  $\alpha$ -dimethylandrostan-17  $\beta$ -ols. 2,936,312, 5-10-60, Cl. 260-397.4.
- Babcock, Maurice P. Supplemental lifting finger. 2,960,814, 11-22-60, Cl. 56-312.
- Babcock Radio Engineering, Inc.: *See*—  
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- Babcock, Stuart K.: *See*—  
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- Babcock, Wallace C., to Bell Telephone Laboratories, Inc. Urban mobile radio telephone system. 2,941,201, 6-14-60, Cl. 343-100.
- Babcock & Wilcox Co., The: *See*—  
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Hardgrove, Ralph M. 2,940,430.  
Harman, Arlington R., and Koch. 2,932,288.  
Harvey, John F. 2,940,734.  
Hasek, Carl W., Jr., and Catlin. 2,924,204.  
Hopwood, William E. 2,956,527.  
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Iager, Raymond F., and Hage. 2,931,431.  
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Johanson, Norman R. 2,920,182.  
Junkermann, Wolfgang. 2,945,459.  
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Markert, Wallace, Jr. 2,966,571.  
Marquez, Charles L. 2,953,124.  
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- Babiskin, Julius, and M. C. Steele, to United States of America, Navy. Temperature measuring device and thermocouple. 2,924,976, 2-16-60, Cl. 73-359.
- Babson Bros. Co.: *See*—  
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- Babson, Henry B., and C. A. Thomas, to Babson Bros. Co. Resilient material check valve. 2,930,399, 3-29-60, Cl. 137-525.3.
- Bac-A-Brand Products, Inc.: *See*—  
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- Bacchi, Eugene A. Apparatus for constructing hollow concrete walls. 2,941,275, 6-21-60, Cl. 25-128.
- Bacchi, Ray, to Baldwin-Lima-Hamilton Corp. Dual operator for valves. 2,955,486, 10-11-60, Cl. 74-626.
- Bacchus, Lewis E., A. L. Hillegass, and L. F. Sansone, Jr., to United States Steel Corp. Container for annular article. 2,955,738, 10-11-60, Cl. 229-41.
- Bach, Frederick L., Jr., and J. R. Vaughan, Jr., to American Cyanamid Co. 1- $\omega$ -N,N-disubstituted aminoalkyl-4-phenyl-1,2,3,6-tetrahydropyridine derivatives. 2,937,177, 5-17-60, Cl. 260-268.
- Bach, Henry J., to American-Marietta Co., Stoner-Mudge Co. Division. High solids vinyl dispersions and primers therefor. 2,946,702, 7-26-60, Cl. 117-75.
- Bach, John W., and F. L. Ford, to Pitney-Bowes, Inc. Sheet feeding and treating. 2,934,009, 4-26-60, Cl. 101-235.



- Bach, John W., R. L. Peet, Jr., and H. F. Miller, to Pitney-Bowes, Inc. Letter flap moistener. 2,944,511, 7-12-60, Cl. 118-243.
- Bachan Mfg. Co.: *See*—
- Block, Harold A. 2,955,579.
- Block, Harold A. 2,955,613.
- Bacharach Industrial Instrument Co.: *See*—
- Stein, Joseph A. 2,921,157.
- Bachelder, Albert J., and V. K. Eloranta, to Polaroid Corp. Photographic apparatus. 2,933,993, 4-26-60, Cl. 95-13.
- Bachelet, Albert E.: *See*—
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- Bachi, Roberto. Statistical devices and methods of providing same. 2,924,895, 2-16-60, Cl. 35-24.
- Bachman, Anatole, and C. E. McRoberts, to Amalgamated Electric Corp. Ltd. Safety handle for enclosed switches. 2,950,363, 8-23-60, Cl. 200-50.
- Bachman, Fred E., to American Steel Foundries. Pneumatic suspension for use on freight car trucks. 2,952,223, 9-13-60, Cl. 105-197.
- Bachman, Fred E., to American Steel Foundries. Bolster suspension. 2,952,224, 9-13-60, Cl. 105-197.
- Bachman, Gustave B., and T. J. Logan, to Purdue Research Foundation. Production of halonitroethanes. 2,928,883, 3-15-60, Cl. 260-644.
- Bachman, Gustave B., and T. J. Logan, to Purdue Research Foundation. Vapor phase production of halonitroethanes. 2,933,535, 4-19-60, Cl. 260-644.
- Bachman, Marvin C., J. L. Martin, and J. M. Pensack, to Commercial Solvents Corp. Swine feed supplement. 2,924,523, 2-9-60, Cl. 99-2.
- Bachman, Marvin C., J. L. Martin, and J. M. Pensack, to Commercial Solvents Corp. Duck feeds. 2,924,526, 2-9-60, Cl. 99-4.
- Bachman, Rudolph E., to Sterling Precision Corp. Precision gear train. 2,943,507, 7-5-60, Cl. 74-421.
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- Bachmann, Gudjon: *See*—
- Bachmann, Gunnar. 2,938,294.
- Bachmann, Gunnar, deceased, by Gudjon Bachmann, administrator. Fish lure. 2,938,294, 5-31-60, Cl. 43-42.33.
- Bachmann, Harald, to A. W. Faber-Castell. Mechanical flat-lead pencil. 2,938,498, 5-31-60, Cl. 120-18.
- Bachmann, Heinz: *See*—
- Losse, Erhard, and Bachmann. 2,928,326.
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- Bachofer, Henry L.: *See*—
- White, Chester N., and Bachofer. 2,936,371.
- Bachtell, William W. Trailer construction. 2,955,837, 10-11-60, Cl. 280-63.
- Bachus, Benson F., to Western Electric Co., Inc. Transfer device for guiding strand as it is continuously unwound from spools. 2,942,802, 6-28-60, Cl. 242-128.
- Bacigalupo, Antonio. Method for dispensing slurried animal feed. 2,929,356, 3-22-60, Cl. 119-51.
- Back, Frank G. Remote control varifocal lens. 2,924,146, 2-9-60, Cl. 88-57.
- Back, Frank G. Photo-periscopes. 2,932,237, 4-12-60, Cl. 88-72.
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- Backer, Frank, to Allied Chemical Corp. Para-a-cumylphenol-para-substituted-phenol-formaldehyde resin. 2,926,149, 2-23-60, Cl. 260-19.
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- Backhaus, Erwin, Jr., to Firma Erwin Backhaus. Endless track. 2,933,351, 4-19-60, Cl. 305-10.
- Backhouse, Headley T. Sheet feeding machines. 2,950,916, 8-30-60, Cl. 271-60.
- Backmark, Nils E., to Jakobsbergs Elektrotekniska Fabriker Aktiebolaget. Magnetron with variable resonance frequency. 2,931,943, 4-5-60, Cl. 315-39.61.
- Backus, Lester B., Jr.: *See*—
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- Backus, Thomas, to Fuller Mfg. Co. Automotive device. 2,931,237, 4-5-60, Cl. 74-335.
- Backus, Thomas, C. M. Perkins, and P. J. Visser, to Fuller Mfg. Co. Automotive device. 2,924,111, 2-9-60, Cl. 74-336.5.
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- Bacon, Carl E., to General Electric Co. Generator slot wedge assembly. 2,922,058, 1-19-60, Cl. 310-214.
- Bacon, Francis D. Friction shield for fire hose. 2,939,488, 6-7-60, Cl. 138-55.
- Bacon, Francis T., to E.R.A. Patents Ltd. Porous nickel electrode. 2,928,783, 3-15-60, Cl. 204-283.
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- Brooks, Lester A., and Bacon. 2,958,680.
- Bacon, Jack C., to R. T. Vanderbilt Co., Inc. Chloroprene polymers containing a thio pyrimidine accelerator. 2,943,078, 6-28-60, Cl. 260-79.5.
- Bacon, John H., deceased; R. C. Bacon, administrator. Warbling whistle. 2,927,399, 3-8-60, Cl. 46-118.
- Bacon, Kenneth F., to North American Philips Co., Inc. System for detecting relative movements using ferro-resonant systems. 2,948,852, 8-9-60, Cl. 324-70.
- Bacon, Louis E.: *See*—
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- Bacon, Robert M., and A. J. Girardot, Jr. Switch operating mechanism responsive to power failure. 2,940,015, 6-7-60, Cl. 317-46.
- Bacon, Roger, to Union Carbide Corp. Filamentary graphite and method for producing the same. 2,957,756, 10-25-60, Cl. 23-209.2.
- Bacsak, Josef, to Firma Fr. Hesser, Maschinenfabrik-Aktiengesellschaft. Packing machine. 2,966,020, 12-27-60, Cl. 53-128.
- Badalich, Frank C., to Bell & Howell Co. Slide tray construction. 2,942,365, 6-28-60, Cl. 40-79.
- Bade, Alfred G., to The Falk Corp. Means for determining the oil level in power transmissions. 2,937,449, 5-24-60, Cl. 33-126.7.
- Bade, Alfred G., to The Falk Corp. Speed reducer. 2,950,628, 8-30-60, Cl. 74-421.
- Bade, Alfred G., to The Falk Corp. Speed reducer. 2,952,165, 9-13-60, Cl. 74-606.
- Badeau, Carroll A., and W. H. Weber, to The Thomas & Betts Co. Insulated electrical raceway fitting. 2,947,800, 8-2-60, Cl. 174-83.
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- Bader, Alfred R., to S. C. Johnson & Son, Inc. Addition products of phenols and keto acids and derivatives of the same. 2,933,520, 4-19-60, Cl. 260-473.
- Bader, Charles L., to B.B.T. Automatic, Inc. Pants pressing machine. 2,944,710, 7-12-60, Cl. 223-73.
- Bader, Erich, and O. Schweitzer, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for polymerizing ethylenically unsaturated organic compounds with the aid of hydroxyl amine derivatives. 2,935,489, 5-3-60, Cl. 260-45.4.
- Bader, Erich, O. Schweitzer, and W. Querfurth, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Polymerization of vinylidene compounds using organic peroxide, organic sulfur and quaternary ammonium compounds as catalysts. 2,946,770, 7-26-60, Cl. 260-77.5.
- Bader, Max, Jr. Manicure device. 2,953,141, 9-20-60, Cl. 132-73.5.
- Bader, William: *See*—
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- Bader, Wilhelm K., to Daimler-Benz Aktiengesellschaft. Bearing for taking up large axial loads. 2,936,201, 5-10-60, Cl. 308-227.
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- Berry, Robert L. P., Busby, and Badger. 2,955,333.
- Badger, Eugene F., to Diamond Chain Co., Inc. Conveyor chain. 2,955,700, 10-11-60, Cl. 198-189.
- Badger, Everett H., Jr., and A. W. Brown, to Parker Hannifin Corp. Tank filling valve with pressure surge control. 2,923,314, 2-2-60, Cl. 137-414.
- Badger, George M. W., and D. H. Preist, to Eitel-McCullough, Inc. Electron beam tube and circuit. 2,953,804, 11-1-60, Cl. 315-5.39.
- Badger Mfg. Co.: *See*—
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- Badger Northland, Inc.: *See*—
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Kzikalla, Hans, and van Taack Trakranen. 2,958,676.  
Kunzer, Werner, and Leutert. 2,950,180.  
Lieseberg, Friedrich. 2,957,748.  
Lorenz, Lothar, and Rost. 2,966,431.  
Metzger, Horst, and Flieg. 2,954,314.  
Minsinger, Manfred, and Friederich. 2,954,398.  
Moell, Hans, and Schlichting. 2,927,135.  
Mueller, Ronald, and Eisele. 2,922,690.  
Nienburg, Hans, Schiller, Weber, and Boehm. 2,927,105.  
Nottet, Guenther, and Weiss. 2,957,820.  
Oettinger, Willi. 2,957,925.  
Pohlemann, Heinz, Winderl, Stummeyer, and Adolphi. 2,961,457.  
Pommer, Horst. 2,924,613.  
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Reicheneder, Franz, Suter, Orth, Stoeckl, and Seefelder. 2,950,329.  
Reppe, Walter, Pfab, von Kutepow, and Bueche. 2,951,881.  
Reppe, Walter, Pohlmann, and Jaekel. 2,950,269.  
Reppe, Walter, Reicheneder, Stengel, and Zieger. 2,925,436.  
Sarnecki, Wilhelm, and Pommer. 2,950,321.  
Schroeder, Harald, and Amann. 2,924,606.  
Schroeder, Harald, Pohlmann, Stummeyer, and Adolphi. 2,937,194.  
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Von Fuener, Wilhelm, Oettinger, Reitz, and Lorenz. 2,932,620.  
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Badmington, Lester R.: See—  
Wilhelm, Kurt, and Badmington. 2,920,772.  
Badovinac, Peter. Stencil for application of lipstick. 2,931,369, 4-5-60, Cl. 132-88.5.  
Baecher, Bernard J. High speed plotting system. 2,948,579, 8-9-60, Cl. 346-8.  
Baechler, Roy H. Cyanomethylation of wood. 2,959,496, 11-8-60, Cl. 117-118.  
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Baeder, Donald L., to Esso Research and Engineering Co. Upgrading catalytic C<sub>8</sub> hydrocarbons. 2,958,718, 11-1-60, Cl. 260-683.9.  
Baehr, Carl G., to The Greist Mfg. Co. Overcasting attachment. 2,935,959, 5-10-60, Cl. 112-160.  
Baehr, Carl G., and B. S. Nickerson, to The Greist Mfg. Co. Rufflers. 2,920,589, 1-12-60, Cl. 112-135.  
Baehr, Carl G., and C. Currello, to The Greist Mfg. Co. Decorative stitch attachments. 2,952,228, 9-13-60, Cl. 112-160.  
Baehr, Edward F. Rocket thrust chamber construction. 2,943,442, 7-5-60, Cl. 60-35.6.  
Baenkler, Willy: See—  
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Baer, Charles A., J. H. Gardner, and P. L. Raymond, to National Steel Corp. Method and apparatus forming an ice seal in vapor deposition. 2,952,569, 9-13-60, Cl. 117-119.  
Baer, Donald R., to E. I. du Pont de Nemours and Co. Thermally stable fluoro-olefin telomers and process of preparing same. 2,934,572, 4-26-60, Cl. 260-648.  
Baer, John S.: See—  
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Baer, Massimo, to Monsanto Chemical Co. Polymer blend of a carboxyl-containing monovinylidene aromatic polymer and a carboxyl-containing conjugated 1,3-diene polymer. 2,944,044, 7-5-60, Cl. 260-45.5.  
Baer, Walter, to Siemens-Schuckertwerke A.G. High speed switch. 2,930,870, 3-29-60, Cl. 200-87.  
Baer, Wolfgang, to J. M. Voith, G.m.b.H. Maschinenfabrik. Structure for protecting the propelling means of ships against floating bodies. 2,953,113, 9-20-60, Cl. 115-42.  
Baerguard, Inc.: See—  
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Baermann, Max. Electrical long scale measuring instrument of the moving coil type. 2,925,558, 2-16-60, Cl. 324-150.  
Baermann, Max. Electro-mechanical transformer. 2,951,190, 8-30-60, Cl. 317-173.  
Baermann, Max. Flexible or resilient permanent magnets. 2,959,832, 11-15-60, Cl. 24-201.  
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Baessler, John J.: See—  
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Abplanalp, Robert H. 2,932,434.  
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Baggett, William T. Fish stringer attachment. 2,959,333, 11-8-60, Cl. 224-7.  
Baggett, Edmund W., to Ideal Toy Corp. Weeping mechanism for dolls. 2,961,795, 11-29-60, Cl. 46-135.  
Baggs, Albert J., and W. D. Ulrich. Apparatus for photographing the interior of a pipeline. 2,933,024, 4-19-60, Cl. 95-11.  
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Bagley, Thomas F., to Foister, Clay & Ward Ltd. Button and button-hole position marking machine. 2,925,661, 2-23-60, Cl. 33-190.  
Bagnell, Edgar W., and W. K. Ansite, to Johnston Testers, Inc. Latch structure. 2,923,562, 2-2-60, Cl. 285-143.  
Bagnetto, Lucien, Jr.: See—  
Pitzer, Emory W., and Bagnetto. 2,950,258.  
Bagno, Samuel M., to Walter Kidde & Co., Inc. Leakage testing apparatus and method of testing. 2,961,869, 11-29-60, Cl. 73-45.5.  
Bagshaw, Charles M., and W. H. Shuttlewood, to United Shoe Machinery Corp. Work holders for fastening-inserting machines. 2,934,772, 5-3-60, Cl. 12-50.  
Baguhn, Alfred H., to Allis-Chalmers Mfg. Co. Reversing switch for load part changing transformer. 2,947,837, 8-2-60, Cl. 200-92.  
Bahe, Lowell W., to Allis-Chalmers Mfg. Co. Chemical milling process. 2,938,774, 5-31-60, Cl. 41-42.  
Bahl, Klaus W., to The American Fabrics Co. One piece self lubricating guide comb for lace machines. 2,962,924, 12-6-60, Cl. 87-27.  
Bahmann, Franz: See—  
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Bahnik, Emil M. Combination hanger, stretcher, and creaser for a waistband of a pair of pants. 2,943,773, 7-5-60, Cl. 223-63.  
Bahnon, Agnew H., Jr., to Wachovia Bank and Trust Co., as Trustee. Scavenger roll and flute holder. 2,934,884, 5-3-60, Cl. 57-34.5.  
Bahnon, Agnew H., Jr., to Wachovia Bank and Trust Co. Textile processing machine. 2,946,173, 7-26-60, Cl. 57-56.  
Bahnon, Agnew H., Jr., to Wachovia Bank and Trust Co. Apparatus for doffing lint collection chambers. 2,946,174, 7-26-60, Cl. 57-56.  
Bahnon, Agnew H., Jr., to Wachovia Bank and Trust Co. Bobbin holder. 2,946,537, 7-26-60, Cl. 242-130.2.  
Bahnon, Agnew H., Jr. Apparatus for measuring the efficiency of textile machines. 2,957,300, 10-25-60, Cl. 57-1.  
Bahnon, Agnew H., Jr. Electrical thrust producing device. 2,958,790, 11-1-60, Cl. 310-5.  
Bähr, Hans, and R. Ziegenbein, to Institut für Fordertechnik des Ministeriums für Schwermaschinenbau. Pulley assembly for cranes. 2,924,341, 2-9-60, Cl. 212-46.  
Bahr, Morris W. G. Apparatus for cutting reinforced tubing. 2,946,250, 7-26-60, Cl. 83-176.  
Bahr, Simon A. Apparatus for parking vehicles. 2,956,262, 10-11-60, Cl. 340-61.  
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Baier, Richard, J. S. Smart, Jr., and A. J. Phillips, to American Smelting and Refining Co. Block graphite mold for continuous casting. 2,946,100, 7-26-60, Cl. 22-57.3.  
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Brey, Frank W. 2,930,270.  
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Bailey, Alvia G.: See—  
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Bailey, Arnold B. Antenna mount. 2,941,204, 6-14-60, Cl. 343-713.  
Bailey, Berry W., to Scott Paper Co. Processing of spent cooking liquors. 2,947,656, 8-2-60, Cl. 162-32.  
Bailey, Beryl A. and A. G. Hydraulic pump. 2,948,224, 8-9-60, Cl. 103-46.  
Bailey, Carl A.: See—  
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Bailey, Christopher E. G., G. O. Norrie, and J. H. Smith, to The Solatron Electronic Group Ltd. Circuits embodying electronic counters. 2,949,228, 8-16-60, Cl. 235-92.  
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Bailey, Donald L., to Union Carbide Corp. Gamma,gamma-diethoxypropyl- and beta-formylethyl-bis(trimethylsiloxy)methylsilanes. 2,920,092, 1-5-60, Cl. 260-448.2.



- Bailey, Donald L., to Union Carbide Corp. Beta-(hydroxymethyl) vinyl-bis(trimethylsiloxy)methylsilane. 2,920,093, 1-5-60, Cl. 260-448.2.
- Bailey, Donald L., to Union Carbide Corp. Aminoalkyl polysiloxanes and process for their production. 2,947,771, 8-2-60, Cl. 260-448.2.
- Bailey, Donald L., to Union Carbide Corp. Chlorosulfonylalkyl silicon compounds. 2,955,128, 10-4-60, Cl. 260-448.2.
- Bailey, Donald L., and R. M. Pike, to Union Carbide Corp. Siloxane azo dyestuffs. 2,925,313, 2-16-60, Cl. 8-8.
- Bailey, Donald L., and R. M. Pike, to Union Carbide Corp. Siloxane azo dyestuffs. 2,927,839, 3-8-60, Cl. 8-8.
- Bailey, Donald L., and R. M. Pike, to Union Carbide Corp. Copolymers of organic silicon compounds and acrylonitrile. 2,928,806, 3-15-60, Cl. 260-46.5.
- Bailey, Donald L., and R. M. Pike, to Union Carbide Corp. Silicon azo dyestuff and fibers dyed therewith. 2,931,693, 4-5-60, Cl. 8-8.
- Bailey, Donald L., and W. T. Black, to Union Carbide Corp. Diformylbutyl and diformylcyclopentyl containing siloxanes. 2,947,770, 8-2-60, Cl. 260-448.2.
- Bailey, Donald L., and R. M. Pike, to Union Carbide Corp. Silicon-containing compounds. 2,949,434, 8-16-60, Cl. 260-45.2.
- Bailey, Donald L., and R. M. Pike, to Union Carbide Corp. Ultraviolet light absorbing compositions. 2,950,986, 8-30-60, Cl. 117-33.3.
- Bailey, Donald L., and R. M. Pike, to Union Carbide Corp. Thiazine dyestuffs and process of dyeing fibrous material. 2,955,898, 10-11-60, Cl. 8-8.
- Bailey, Donald L., and R. M. Pike, to Union Carbide Corp. Triarylmethane dyestuffs and process of dyeing fibrous material. 2,955,899, 10-11-60, Cl. 8-8.
- Bailey, Donald L., and R. M. Pike, to Union Carbide Corp. Silicon-containing ice colors. 2,957,744, 10-25-60, Cl. 8-8.
- Bailey, Donald L., and R. M. Pike, to Union Carbide Corp. Organosilicon compounds and processes for producing the same. 2,957,781, 10-25-60, Cl. 117-33.3.
- Bailey, Donald L., and R. M. Pike, to Union Carbide Corp. Silicon-containing azo triazine dyes for dyeing glass fibers. 2,963,338, 12-6-60, Cl. 8-8.
- Bailey, Emmett C.: *See*—  
Rabinov, Jacob, Bailey, and Shepard. 2,935,900.
- Bailey, Emmett C., and W. Spangenberg to United States of America, Navy. Motor-transmission system. 2,959,066, 11-8-60, Cl. 74-469.
- Bailey, Felton B., to Adams, Inc. Control system for textile machines. 2,930,179, 3-29-60, Cl. 57-75.
- Bailey, Frank W., to Curtiss-Wright Corp. Flame holder apparatus. 2,920,445, 1-12-60, Cl. 60-35.6.
- Bailey, Frank W., to Curtiss-Wright Corp. Flame holder construction. 2,941,862, 6-21-60, Cl. 60-39.72.
- Bailey, Frederick E., Jr., and J. T. Fitzpatrick, to Union Carbide Corp. Process for treating poly(alkylene oxide). 2,941,963, 6-21-60, Cl. 260-2.
- Bailey, George A., and R. F. Hirschmann, to Merck & Co., Inc. 17 $\alpha$ ,21-oxides of 4-pregnene compounds and process for preparing the same. 2,932,640, 4-12-60, Cl. 260-239.55.
- Bailey, George G., W. A. Malthaner, and J. F. Muller, to Bell Telephone Laboratories, Inc. Data handling apparatus. 2,937,367, 5-17-60, Cl. 340-174.
- Bailey, Grant C.: *See*—  
Holm, Vernon C. F., Bailey, and Clark. 2,921,971.
- Bailey, Grant C., V. C. F. Holm, and A. Clark, to Phillips Petroleum Co. Process for preparing improved nickel oxide polymerization catalysts. 2,949,429, 8-16-60, Cl. 252-472.
- Bailey, Harold G.: *See*—  
Hale, Andrew, and Bailey. 2,954,580.
- Bailey, James, to Plax Corp. Method of manufacturing multicavity squeeze bottles. 2,951,264, 9-6-60, Cl. 18-55.
- Bailey, James R.: *See*—  
Dumke, William E., and Bailey. 2,935,577.  
Dumke, William E., and Bailey. 2,946,994.
- Bailey, John E.: *See*—  
Smith, Graydon, and Bailey. 2,922,146.
- Bailey, Joyce T. Wheel and axle toy. 2,938,303, 5-31-60, Cl. 46-220.
- Bailey, Lawrence H., and H. F. Gabriel, to F. J. Stokes Corp. Multi-layer tablet manufacture. 2,944,493, 7-12-60, Cl. 107-17.
- Bailey, Maurice E., to Allied Chemical Corp. Isomerization of cyclohexene-1,2-dicarboxylic anhydrides. 2,959,599, 11-8-60, Cl. 260-346.3.
- Bailey Meter Co.: *See*—  
Dickey, Paul S. 2,929,441.  
Gorrie, Harvard H. 2,935,670.  
Green, Thomas A., Gorrie, Shannon, and Fink. 2,945,120.  
Hicks, Charles E. 2,929,151.  
Hornbeck, Anthony J. 2,954,692.  
Koppel, Harold H. 2,930,956.  
Markow, George R. 2,945,218.  
Paulson, William L., Jr. 2,926,636.  
Sprenkle, Raymond E. 2,929,248.  
Whitehead, Cyril C. 2,937,234.
- Bailey, Oraleah L. Animated figure. 2,927,400, 3-8-60, Cl. 46-157.
- Bailey, Robert, to J. Cinnamon Ltd. Chair and like seating. 2,952,305, 9-13-60, Cl. 155-179.
- Bailey, Theodore L. Sofa bed having a frame tiltable under the weight of a user. 2,955,297, 10-11-60, Cl. 5-17.
- Bailey, Vincent R., P. Davis, and R. Decker, to The Gillette Co. Quick-opening toggle razor. 2,934,821, 5-3-60, Cl. 30-60.5.
- Bailey, Virginia E. Tumbling toy. 2,964,875, 12-20-60, Cl. 46-130.
- Bailey, William D., to Corning Glass Works. Manufacture of a windowed article. 2,946,156, 7-26-60, Cl. 49-81.
- Bailey, William R. Cured epoxy resin composition containing boron trifluoride complex of a monoethylamine and piperidine, method of curing said composition and glass fibers impregnated therewith. 2,938,880, 5-31-60, Cl. 260-37.
- Bailey, William R., to Minneapolis-Honeywell Regulator Co. Differential pressure flow meter. 2,933,906, 12-13-60, Cl. 73-205.
- Bailiff, Fred H., to Union Carbide Corp. Attenuating apparatus. 2,948,021, 8-9-60, Cl. 19-65.
- Bain, Edwin C., to Dungarvon Co. Ltd. Snow plow. 2,936,537, 5-17-60, Cl. 37-19.
- Bain, Joseph P., to The Glidden Co. Treatment of certain allylic terpene alcohols and related compounds. 2,935,526, 5-3-60, Cl. 260-489.
- Bain, Joseph P., and W. Y. Gary, to The Glidden Co. Disproportionation method for producing menthene-3. 2,933,542, 4-19-60, Cl. 260-675.5.
- Bain, Lewis A., Jr., and R. A. Geshner, to Western Electric Co., Inc. Methods of making printed wiring circuits. 2,958,928, 11-8-60, Cl. 29-155.5.
- Bainbridge, Featherstone, to Huwood Mining Machinery Ltd. Troughed conveyor. 2,921,669, 1-19-60, Cl. 198-196.
- Baird-Atomic, Inc.: *See*—  
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Chao, Stanley K., and Stoddart. 2,937,318.  
Magrath, Richard A. 2,951,224.  
Saunderson, Jason L., and Du Bois. 2,937,561.  
Slack, Charles B. 2,931,024.  
White, John U. 2,954,510.
- Baird, Blake O., and R. P. Davie, to The B. F. Goodrich Company. Coated vinyl chloride plastisol resin particles coated with a carboxylic acid salt and method of preparation. 2,948,638, 8-9-60, Cl. 117-100.
- Baird, Leslie L., to General Electric Co. Operating mechanism for an electric circuit interrupter. 2,961,510, 11-22-60, Cl. 200-106.
- Baird, Leslie L., and R. J. Baskerville, to General Electric Co. Operating mechanism for an electric circuit interrupter. 2,961,509, 11-22-60, Cl. 200-106.
- Baird, Otho P. Outboard motor mount attachment for boats. 2,954,192, 9-27-60, Cl. 248-4.
- Baird, Ronald J., to The National Sugar Refining Co. Dialdehyde sugar reaction products, process for preparing same and printing ink prepared therefrom. 2,944,034, 7-5-60, Cl. 260-9.
- Baird, Ronald J., to The National Sugar Refining Co. Saccharide-monohydroxy aldehyde reaction product and method of preparing same. 2,956,963, 10-18-60, Cl. 260-9.
- Baird, Russell T., and H. W. Hagstrand, to Artos Engineering Co. Apparatus and method for medially stripping insulated wires. 2,920,513, 1-12-60, Cl. 81-9.51.
- Baird, William F. Cosmetic apparatus. 2,959,038, 11-8-60, Cl. 62-530.
- Baize, Calvin U.: *See*—  
Everett, James C. 2,932,835.
- Baize, Sam.: *See*—  
Everett, James C. 2,932,835.
- Baizer, Manuel M., to S. B. Penick and Co. Adenine derivatives and process for preparing. 2,956,998, 10-18-60, Cl. 260-252.
- Bajulaz, Roger, to Thorens S.A. Pick-up arm for speaking machine. 2,946,596, 7-26-60, Cl. 274-23.
- Bakalar, Vaclav, and L. Zenisek, to Kovo-Finis, narodni podnik. Filling and discharging device for surface finishing machines. 2,963,280, 12-6-60, Cl. 259-3.
- Baker, Adolph A., Jr.: *See*—  
Blow, Angus W., and Baker. 2,927,970.
- Baker, Adolph A., Jr., to General Dynamics Corp. Annunciator device. 2,935,656, 5-3-60, Cl. 317-123.
- Baker, Alanson J. Molding and joining head on collapsible tube. 2,947,035, 8-2-60, Cl. 18-36.
- Baker, Albert D., to General Motors Corp. Automotive heating, ventilating and defrosting systems. 2,963,954, 12-13-60, Cl. 98-2.
- Baker, Albert D., and H. W. Rundquist, to General Motors Corp. Throttle control mechanism. 2,929,226, 3-22-60, Cl. 62-215.
- Baker, Albert F., to Hancock Industries, Inc. Door latch. 2,923,568, 2-2-60, Cl. 292-280.
- Baker, Allister L.: *See*—  
Mades, Eugene V., and Baker. 2,937,560.
- Baker, Allister L., to Keuffel & Esser Co. Alidacle with pendulously stabilized reticle. 2,943,529, 7-5-60, Cl. 88-1.
- Baker, Allister L., to Keuffel & Esser Co. Alignment telescope with lens arrangement for infinity focus adjustment. 2,960,912, 11-22-60, Cl. 88-32.
- Baker, Arpad.: *See*—  
Heller, Laszlo, and Baker. 2,934,655.
- Baker, Arthur F., to American Steel Foundries. Snubbed bolster truck. 2,953,995, 9-27-60, Cl. 105-197.



- Baker, Benjamin P.: See—  
Cromer, Charles F., and Baker. 2,922,010.
- Baker, Benjamin P., to Westinghouse Electric Corp. Circuit interrupters. 2,933,575, 4-19-60, Cl. 200-148.
- Baker, Benjamin P., to Westinghouse Electric Corp. Compressed-gas circuit interrupter. 2,965,735, 12-20-60, Cl. 200-148.
- Baker, Bill P., to J. Bronte and M. B. Roberts, d.b.a. Paradise Mfg. Co. Air mattress. 2,939,158, 6-7-60, Cl. 5-349.
- Baker Brothers, Inc.: See—  
Ninneman, Lawrence D. 2,923,973.
- Baker, Charles H., to S & C Electric Co. Switch construction. 2,954,448, 9-27-60, Cl. 200-146.
- Baker, Charles T., Jr.: See—  
Gregory, Ralph A., Baker, Wolensky, Jackson, Winger, and Murphy. 2,960,683.
- Baker, Chester D.: See—  
Havey, John G., and Baker. 2,960,338.
- Baker, Chester L., and J. F. Austin, to Philadelphia Quartz Co. Finely divided metal silicate products. 2,948,701, 8-9-60, Cl. 210-41.5.
- Baker, Chester L., and J. F. Austin. Manufacture of finely divided metal silicate products. 2,958,578, 11-1-60, Cl. 23-110.
- Baker, Clyde F., R. Bougie, and F. B. Anderson; said Baker and said Bougie assors. to Borg-Warner Corp. Semi-automatic ice cube maker. 2,962,876, 12-6-60, Cl. 62-301.
- Baker, Clyde W., and H. M. Hanford,  $\frac{1}{2}$  to Genesee Machine Builders, Inc., and  $\frac{1}{2}$  to V. I. Products, Inc. Rotary control valve. 2,926,697, 3-1-60, Cl. 137-624.
- Baker, David S. Belt. 2,946,428, 7-26-60, Cl. 198-193.
- Baker, David S. Apparatus and method for drying materials. 2,954,613, 10-4-60, Cl. 34-102.
- Baker, Deryck A., and C. F. Dietrich, to The Newall Engineering Co. Ltd., and Optical Measuring Tools Ltd. Machine tools and the like. 2,933,013, 4-19-60, Cl. 88-24.
- Baker, Donald C.: See—  
Mosse, Richard W. E., and Baker. 2,959,336.
- Baker, Dwight L.: See—  
Kinsman, George H., Hellman, and Baker. 2,938,795.
- Baker, Dwight L., and W. B. Dockstader, to Basic Products Corp. Preparation of an antioxidant from rootlets. 2,925,345, 2-16-60, Cl. 99-163.
- Baker, Edgar G.: See—  
Von Wranau, Guido, and Baker. 2,929,675.
- Baker, Eleanor S.,  $\frac{1}{2}$  to H. L. Rose, and  $\frac{1}{2}$  to H. J. Nussbaum. Body restraint. 2,940,443, 6-14-60, Cl. 128-134.
- Baker, Evelyn B., R. B. Ellis, and W. S. Wilcox, to Callery Chemical Co. Alkali metal borohydride-borane complexes. 2,921,963, 1-19-60, Cl. 260-606.5.
- Baker, Forrest G., to American Air Filter Co., Inc. Unit ventilator having control and damper circuits designed for connection to different power supply circuits and a system of such ventilators. 2,950,056, 8-23-60, Cl. 236-49.
- Baker, Frank. Whirlpool separator. 2,921,684, 1-19-60, Cl. 210-197.
- Baker, Gene S. Tent frame. 2,935,074, 5-3-60, Cl. 135-3.
- Baker, George E., to Yuba Consolidated Industries, Inc. Transducer. 2,927,290, 3-1-60, Cl. 336-30.
- Baker, George H., D. Mitchell, and J. V. Reihing, Jr., to Bell Telephone Laboratories, Inc. Telegraph signal error counting circuit. 2,947,815, 8-2-60, Cl. 178-69.
- Baker, George O.: See—  
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- Baker, George T., to British Telecommunications Research Ltd. Telephone or like systems. 2,936,339, 5-10-60, Cl. 179-18.
- Baker, George T., and J. L. Smith, to British Telecommunications Research Ltd. Telephone systems. 2,921,138, 1-12-60, Cl. 179-18.
- Baker, George W., to United States Gypsum Co. Wooden stud partition. 2,922,201, 1-26-60, Cl. 20-4.
- Baker, George W., to United States Gypsum Co. Building construction. 2,958,982, 11-8-60, Cl. 50-144.
- Baker, George W., to United States Gypsum Co. Clip nail. 2,959,897, 11-15-60, Cl. 50-218.
- Baker, Gerald E., to Westinghouse Electric Corp. Oven door structure. 2,934,059, 4-26-60, Cl. 126-194.
- Baker, Gerald W., to Ball Brothers Co., Inc. Decapping containers. 2,940,229, 6-14-60, Cl. 53-3.
- Baker, Harold J. Adjustable garment hanger. 2,966,289, 12-27-60, Cl. 223-89.
- Baker, Harold U., to Roscoe Moss Co. Casing welding apparatus. 2,956,147, 10-11-60, Cl. 219-125.
- Baker, Harry I., to King-Seely Corp. Electro-responsive system. 2,962,575, 11-29-60, Cl. 219-20.
- Baker, Hayward R.: See—  
Sullivan, Francis F., Baker, and Singleterry. 2,929,779.
- Baker, Horace G., Jr. Window frame. 2,925,859, 2-23-60, Cl. 160-37.
- Baker, Isabel H.: See—  
Hawley, John C. 2,964,042.
- Baker, James K., to West Virginia Pulp & Paper Co. Dispensing container for corrosive liquids or the like. 2,923,402, 2-2-60, Cl. 206-46.
- Baker, John C., to Baker Process Co. Process and apparatus for preparing dough. 2,953,460, 9-20-60, Cl. 99-90.
- Baker, John H., to United States of America, Air Force. Turbine discharge temperature control system. 2,938,331, 5-31-60, Cl. 60-35.6.
- Baker, John S.: See—  
Hasselhorn, Walter C., and Baker. 2,956,106.
- Baker, John S., to Dresser Industries, Inc. Electrical earth borehole logging apparatus. 2,930,969, 3-29-60, Cl. 324-10.
- Baker, John S., to Cook Electric Co. Method of assembling a relay. 2,965,954, 12-27-60, Cl. 29-155.58.
- Baker, Joseph E. Roof edging and canopy fascia construction. 2,953,872, 9-27-60, Cl. 50-66.
- Baker, Joseph L.: See—  
Henry, Robert L., and Baker. 2,945,988.
- Baker, Joseph W.: See—  
Santmyer, Philip H., and Baker. 2,956,921.
- Baker, Joseph W., to Monsanto Chemical Co. Cyanoethyl esters of phosphoroamidic acids. 2,957,018, 10-18-60, Cl. 260-461.
- Baker, Joseph W., and G. A. Saul, to Monsanto Chemical Co. Dimethyl 2,4-dichlorobenzoylphosphonate. 2,924,553, 2-9-60, Cl. 167-30.
- Baker, Joseph W., and G. A. Saul, to Monsanto Chemical Co. Phosphinylvinyl phosphates. 2,934,469, 4-26-60, Cl. 167-22.
- Baker, Joseph W., and G. A. Saul, to Monsanto Chemical Co. 1-oxo-2-halo phosphonates. 2,956,919, 10-18-60, Cl. 167-22.
- Baker, Joseph W., J. P. Chupp, and G. A. Saul, to Monsanto Chemical Co. Butynyl phosphorothioates. 2,960,429, 11-15-60, Cl. 167-22.
- Baker, Lester A. Weedless fishing spoon. 2,946,149, 7-26-60, Cl. 45-42.18.
- Baker, Max P., to General Motors Corp. Ball and socket joint assembly and method of making same. 2,954,992, 10-4-60, Cl. 287-90.
- Baker, Melvin C., to E. I. du Pont de Nemours and Co. Resolution of lysine. 2,942,024, 6-21-60, Cl. 260-534.
- Baker Oil Tools, Inc.: See—  
Baker, Reuben C. 2,921,633.  
Baker, Reuben C. 2,928,470.  
Baker, Reuben C. 2,934,147.  
Baker, Reuben C. 2,944,604.  
Baker, Reuben C. 2,944,607.  
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Clark, Earnest H., Jr. 2,921,632.  
Clark, Earnest H., Jr. 2,931,384.  
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Conrad, Martin B. 2,929,453.  
Conrad, Martin B. 2,944,793.  
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Crowe, Talmadge L. 2,928,469.  
Fisher, Hiram H., Jr. 2,921,601.
- Baker, Paul, and F. Christensen. Book cover positioner. 2,963,967, 12-13-60, Cl. 101-407.
- Baker, Paul A., and E. E. Sumner, to Bell Telephone Laboratories, Inc. Transistor monostable circuit. 2,931,920, 4-5-60, Cl. 307-88.5.
- Baker, Paul E., to California Research Corp. Nuclear spectroscopy well logging sonde. 2,956,163, 10-11-60, Cl. 250-71.5.
- Baker Perkins, Inc.: See—  
Mahoney, Joseph L., Skarin, and Wittenberger. 2,938,473.  
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- Baker Perkins Ltd.: See—  
Dewhurst, Frank, and Farrer. 2,956,524.  
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Nancarrow, Lawrence. 2,966,288.  
Packman, Percival J. 2,955,697.  
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Valentyne, Peter H., and Sundbom. 2,963,308.
- Baker Process Co.: See—  
Baker, John C. 2,953,460.  
Baker, R. H., & Co., Inc.: See—  
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- Baker, Ralph C., to The Sheffield Corp. Economizer unit for pneumatic gaging circuits. 2,926,523, 3-1-60, Cl. 73-37.5.
- Baker, Reuben C., to Baker Oil Tools, Inc. Packing flow preventing device. 2,921,633, 1-19-60, Cl. 166-204.
- Baker, Reuben C., to Baker Oil Tools, Inc. Well cementing apparatus. 2,928,470, 3-15-60, Cl. 166-154.
- Baker, Reuben C., to Baker Oil Tools, Inc. Apparatus for severing subsurface well devices. 2,934,147, 4-26-60, Cl. 166-63.
- Baker, Reuben C., to Baker Oil Tools, Inc. Retrievable well packer. 2,944,604, 7-12-60, Cl. 166-131.
- Baker, Reuben C., to Baker Oil Tools, Inc. Tubing tester and circulating valve. 2,944,607, 7-12-60, Cl. 166-226.
- Baker, Reuben C., to Baker Oil Tools, Inc. Rotary expansible drill bits. 2,944,796, 7-12-60, Cl. 255-76.
- Baker, Reuben C., T. M. Ragan, and C. W. Wents, to Baker Oil Tools, Inc. Subsurface electric current generating apparatus. 2,944,603, 7-12-60, Cl. 166-65.
- Baker, Rhea V. Tamping vehicles. 2,920,540, 1-12-60, Cl. 94-49.
- Baker, Richard A. Page end audible signal attachment for typewriters. 2,939,566, 6-7-60, Cl. 197-189.



- Baker, Richard F., to National Tank Co. Control system for closed cycle gas dehydration and hydrocarbon recovery system. 2,957,544, 10-25-60, Cl. 183-4.1.
- Baker, Richard L. Refuse bag holder. 2,965,344, 12-20-60, Cl. 248-101.
- Baker, Richard S., to North American Aviation, Inc. Spiral rotor electromagnetic pump. 2,940,393, 6-14-60, Cl. 103-1.
- Baker, Robert M., and C. P. Bernhardt, to Westinghouse Electric Corp. Electric furnace. 2,937,217, 5-17-60, Cl. 13-31.
- Baker, Robert M., and J. M. Edwards, to Westinghouse Electric Corp. Induction heating apparatus. 2,942,089, 6-21-60, Cl. 219-10.69.
- Baker, Ronald, H. R. Hadfield, E. L. Johnson, and W. E. Stephen, to Imperial Chemical Industries Ltd. Triazine azo dyestuffs. 2,953,560, 9-20-60, Cl. 260-153.
- Baker, Ronald, H. R. Hadfield, E. L. Johnson, and W. E. Stephen, to Imperial Chemical Industries Ltd. Water-insoluble dyestuffs of the monohalogeno-triazine-amino alkylene amino-azobenzene series. 2,964,520, 12-13-60, Cl. 260-153.
- Baker, Roy B., and J. G. Klassen. Ditch digger. 2,923,073, 2-2-60, Cl. 37-92.
- Baker, Samuel B.: See—  
Eng. Jackson, and Baker. 2,956,084.
- Baker, Theodore C., to Owens-Illinois Glass Co. Apparatus for severing a stream of plastic material. 2,963,821, 12-13-60, Cl. 49-55.
- Baker, Theodore G. Shell molding. 2,923,988, 2-9-60, Cl. 22-193.
- Baker, Thomas J. Adjustable farrowing pen assembly. 2,928,371, 3-15-60, Cl. 119-20.
- Baker, Thomas R.: See—  
Lefief, Frank M., and Baker. 2,944,724.
- Baker, Willard L., to United Shoe Machinery Corp. Shoe supporting mechanisms. 2,954,571, 10-4-60, Cl. 12-127.
- Baker, William A.: See—  
Pollard, Harold J., and Baker. 2,954,189.
- Bakke, Hans A., to General Electric Co. Window assembly for exposure meters. 2,944,460, 7-12-60, Cl. 88-22.
- Bakke, Hans A., and A. G. Stimson, to General Electric Co. Exposure meter. 2,924,144, 2-9-60, Cl. 88-23.
- Bakke, Hans A., and A. G. Stimson, to General Electric Co. Booster cell and exposure meter. 2,952,184, 9-13-60, Cl. 88-23.
- Bakke, William W., and W. F. Tousignant, to The Dow Chemical Co. Crease resistant resin composition for textiles. 2,930,716, 3-29-60, Cl. 117-139.4.
- Bakker, Lubertus: See—  
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- Bakker, Martinus A. M.: See—  
Duran, Johannes C., and Bakker. 2,920,786.
- Bakker, Pier, to General Telephone Laboratories, Inc. Digit absorbing selector switch. 2,934,608, 4-26-60, Cl. 179-18.
- Bakker, Pier, to Automatic Electric Laboratories, Inc. Telephone selector and connector circuits. 2,966,555, 12-27-60, Cl. 179-18.
- Bakker, Willem, to American Enka Corp. Tilting blow box. 2,947,029, 8-2-60, Cl. 18-8.
- Bakker, Willem, to American Enka Corp. Ring twisting apparatus. 2,964,897, 12-20-60, Cl. 57-34.
- Bakura, Joseph, and W. L. Pritchard, to Raytheon Co. Methods and structures for control of microwave propagation. 2,943,284, 6-28-60, Cl. 333-83.
- Balassa, Leslie L., to J. R. Geigy A-G. Method for increasing the pigment content of presscakes. 2,941,896, 6-21-60, Cl. 106-309.
- Balbi, Valentino L. Refuse truck. 2,922,535, 1-26-60, Cl. 214-32.
- Balch, Joseph C. Amusement device. 2,941,800, 6-21-60, Cl. 272-39.
- Balcken, Hans A., H. W. Sill, M. A. Wagner, and M. J. D'Amore, to Birckraft, Inc. Fish caller. 2,920,318, 1-5-60, Cl. 340-394.
- Balcom, George A., and A. J. Wiltshire, to White Sewing Machine Corp. Apparatus for making a reinforced fiber glass tube. 2,945,531, 7-19-60, Cl. 154-1.
- Balcom, Manning L., and G. G. Swain, Jr., to General Electric Co. Compressor. 2,936,108, 5-10-60, Cl. 230-114.
- Balda-Kamerawerk Rudolf Gruter K.G.: See—  
Lange, Karl H. 2,927,357.
- Baldelli, Gaetano. Device for adjusting from outside, continuously and during its operation, the capacity of a plunger pump. 2,929,253, 3-22-60, Cl. 74-44.
- Balden, Alvin R., to Chrysler Corp. Process and composition for immersion tin plating of aluminum and aluminum alloys. 2,947,639, 8-2-60, Cl. 106-1.
- Baldenhofer, William G., to The Thompson Grinder Co. Long piston rods and motor embodying the same. 2,932,985, 4-19-60, Cl. 74-579.
- Baldi, Eugene J.: See—  
Reddick, Leonard L., Fort, Baldi, Harmon, and Ziegelbein. 2,925,223.
- Balding, Walter W., to Morris Motors Ltd. Motor vehicle axle mountings. 2,942,870, 6-28-60, Cl. 267-52.
- Baldrey, John A., and O. A. Short, to H. I. du Pont de Nemours and Co. Silver conductors. 2,961,416, 11-22-60, Cl. 252-514.
- Baldrige, Joseph R., to Diamond Alkali Co. Method of controlling microorganism growth with haloacetic acid esters of acetylene glycols. 2,931,754, 4-5-60, Cl. 167-22.
- Baldwin, Allen T., to Hanson-Van Winkle-Munning Co. Method of hot dip galvanizing a ferrous metal. 2,840,870, 6-14-60, Cl. 117-52.
- Baldwin, Arnold J.: See—  
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- Baldwin, Brian E. Display device. 2,945,314, 7-19-60, Cl. 40-324.
- Baldwin, Claude M., Jr., H. F. Bauman, W. S. Graff, R. F. Green, and H. L. Skeen, to The Electric Storage Battery Co. Electric battery. 2,942,053, 6-21-60, Cl. 136-6.
- Baldwin, Francis P.: See—  
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- Baldwin, Francis P., and R. M. Thomas, to Esso Research and Engineering Co. Composition comprising chlorinated butyl rubber, zinc oxide, and a curing aid, process for vulcanization thereof, and vulcanized product obtained thereby. 2,926,718, 3-1-60, Cl. 152-330.
- Baldwin, Francis P., and S. B. Robison, to Esso Research and Engineering Co. Rubbery laminated structures. 2,933,117, 4-19-60, Cl. 152-330.
- Baldwin, Francis P., A. L. Miller, and S. B. Robison, to Esso Research and Engineering Co. Pneumatic tire. 2,943,664, 7-5-60, Cl. 152-359.
- Baldwin, Francis P., and R. M. Thomas, to Esso Research and Engineering Co. Pneumatic tire. 2,944,578, 7-12-60, Cl. 152-330.
- Baldwin, Francis P., and S. B. Robison, to Esso Research and Engineering Co. Process of brominating butyl rubber with elemental bromine in an  $AlCl_3$  treated hydrocarbon solvent. 2,955,103, 10-4-60, Cl. 260-85.3.
- Baldwin, Francis P., and T. H. Hakala, to Esso Research and Engineering Co. Process for stabilizing halogenated butyl rubber against gelation with magnesium oxide, and stabilized product obtained thereby. 2,962,473, 11-29-60, Cl. 260-45.7.
- Baldwin, Francis P., and R. M. Thomas, to Esso Research and Engineering Co. Process of chlorinating butyl rubber and vulcanizing the chlorinated product. 2,964,489, 12-13-60, Cl. 260-41.5.
- Baldwin, George D., to Truck-Lite Co., Inc. Vehicle light. 2,965,750, 12-20-60, Cl. 240-8.2.
- Baldwin, Harold R., to Minneapolis-Honeywell Regulator Co. Diaphragm operated gate valve. 2,925,241, 2-16-60, Cl. 251-58.
- Baldwin, Herman J.: See—  
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- Baldwin, Howard J.: See—  
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- Baldwin, Jerome G. Steaming device for ironers. 2,964,865, 12-20-60, Cl. 38-3.
- Baldwin, Joseph L., and J. A. Bentley, to Blaisdell Pencil Co. Promotional device. 2,954,628, 10-4-60, Cl. 40-126.
- Baldwin, Leroy D., to General Dynamics Corp. Antennas. 2,942,263, 6-21-60, Cl. 343-767.
- Baldwin, Leroy D., to General Dynamics Corp. Microwave tuner. 2,925,568, 2-16-60, Cl. 333-82.
- Baldwin-Lima-Hamilton Corp.: See—  
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- Baldwin, Maynard M., to Phelps Dodge Corp. Cuprous derivatives of substituted thioureas. 2,959,515, 11-8-60, Cl. 167-22.
- Baldwin Piano Co., The: See—  
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Corwin, Merton D. 2,928,309.  
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Duncan, Robert K. 2,950,360.  
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- Baldwin Piano Co., The: *See*—Continued  
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- Baldwin, Richard H.: *See*—  
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- Baldwin, Robert P., C. S. Jennings, and R. H. Eckert. Tow member launching and recovery apparatus. 2,959,416, 11-8-60, Cl. 273-105.3.
- Baldwin Rubber Co.: *See*—  
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- Baldwin, Warren R., and J. N. Bohn, to Hercules Powder Co. Methods for pelleting. 2,923,033, 2-2-60, Cl. 18-47.2.
- Baldwin, William J.: *See*—  
 Bliton, Jerald L., and Baldwin. 2,955,031.
- Baldwin, William J., and J. L. Bliton. Polishing compositions. 2,955,030, 10-4-60, Cl. 51-308.
- Balduini, Ettore: *See*—  
 Balduini, Valentino and E. 2,954,059.
- Balduini, Valentino and E. Lags for looms. 2,954,059, 9-27-60, Cl. 139-334.
- Bale, Alton G., Jr., to Wisconsin Electrical Mfg. Co., Inc. Automatic control means for material delivery apparatus. 2,954,202, 9-27-60, Cl. 249-2.
- Bales, Harold J., and E. W. Bryan, to Boeing Airplane Co. Skin edge milling machine. 2,925,017, 2-16-60, Cl. 90-13.4.
- Baley, Richard A., to The Bastian-Blessing Co. Coupling. 2,931,668, 4-5-60, Cl. 284-19.
- Balf, George K. Electric meter box. 2,958,810, 11-1-60, Cl. 317-107.
- Balfour, Lionel M. J. Seat structure for mounting on the roofs of motor cars and the like. 2,944,589, 7-12-60, Cl. 155-5.
- Balfour, Ronald B., to Orenda Engines Ltd. Hydraulic regulator. 2,940,463, 6-14-60, Cl. 137-116.5.
- Balhoff, John T., to Ethyl Corp. Manufacture of alkyl aluminum compounds. 2,943,102, 6-28-60, Cl. 260-448.
- Balhouse, Harold J., to Walworth Co. Swing check valve. 2,928,416, 3-15-60, Cl. 137-527.8.
- Balint, Allen E.: *See*—  
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- Baljak Corp.: *See*—  
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- Balje, Otto E., to Crane Co. Turbine driven pump. 2,936,714, 5-17-60, Cl. 103-87.
- Balje, Otto E., and J. J. Dineen, to Fairchild Engine and Airplane Corp. Auxiliary power system for aircraft. 2,955,656, 10-11-60, Cl. 170-74.
- Balkema, Bertrand B. Storage apparatus. 2,944,656, 7-12-60, Cl. 198-85.
- Balkind, Solomon. Adjustable cigarette filter. 2,949,116, 8-16-60, Cl. 131-10.
- Balkwell, William R., Jr., and G. D. Adams, Jr., to United States of America, Atomic Energy Commission. Radiation dosimeter. 2,936,372, 5-10-60, Cl. 250-83.
- Ball, Alpheus M., to Hercules Powder Co. Explosive. 2,965,466, 12-20-60, Cl. 52-5.
- Ball, Arthur L., to No Fog Corp. Method and composition for dispelling fog and the like. 2,934,275, 4-26-60, Cl. 239-2.
- Ball Brothers Co., Inc.: *See*—  
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- Ball, Earl W.: *See*—  
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- Ball, Eldon W., to Raytheon Co. Antenna reflectors. 2,922,161, 1-19-60, Cl. 343-912.
- Ball, Elmer A. Multi-purpose car top luggage carrier. 2,948,576, 8-9-60, Cl. 312-240.
- Ball, Gaines L., to Batson-Cook Co. Dryer unit for yarn slashers. 2,932,903, 4-19-60, Cl. 34-159.
- Ball, Henry A., to The Cleanola Co. Solenoid operated spray apparatus. 2,945,632, 7-19-60, Cl. 239-583.
- Ball, Jeremy T., to Chrysler Corp. Transmission controls. 2,932,977, 4-19-60, Cl. 74-472.
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- Ball, John D., to Jersey Production Research Co. Recordation of seismic signals. 2,939,107, 5-31-60, Cl. 340-15.
- Ball, John D., to Jersey Production Research Co. Pulse analyzer. 2,943,262, 6-28-60, Cl. 328-115.
- Ball, John S., and H. Pickup, to Henry Simon Ltd. Planisifters. 2,957,578, 10-25-60, Cl. 209-370.
- Ball, Ritchie F., to J. J. Wanner. Automatic thread cutting attachment for multineedle sewing machines. 2,920,592, 1-12-60, Cl. 112-252.
- Ball, Thomas M., to Chrysler Corp. Fuel injection system. 2,954,020, 9-27-60, Cl. 123-119.
- Ball, Thomas M., to Chrysler Corp. Fuel metering system. 2,957,467, 10-25-60, Cl. 123-119.
- Ball, Thomas M., to Chrysler Corp. Fuel injection system. 2,958,318, 11-1-60, Cl. 123-119.
- Ball, Thomas M., to Chrysler Corp. Fuel injection system. 2,958,319, 11-1-60, Cl. 123-119.
- Ball, Thomas M., to Chrysler Corp. Fuel injection system. 2,958,320, 11-1-60, Cl. 123-119.
- Ball, Thomas M., to Chrysler Corp. Accelerating device. 2,966,343, 12-27-60, Cl. 261-34.
- Ball, Thomas M., to Chrysler Corp. Carburetor construction having a removable small venturi cluster. 2,966,344, 12-27-60, Cl. 261-41.
- Ballantine, James S. Electric arc resistance furnace, and method of melting refractory materials. 2,945,756, 7-19-60, Cl. 75-10.
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- Ballard, Denis G. H., C. H. Bamford, W. E. Hanby, and F. J. Weymouth, to Courtaulds Ltd. Production of polyamides. 2,946,771, 7-26-60, Cl. 260-77.5.
- Ballard, F. J., and Co. Ltd.: *See*—  
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- Ballard, Homer L., to Burlington Industries, Inc. Ribbon weave or the like. 2,939,491, 6-7-60, Cl. 139-383.
- Ballard, Hyde W., to Vapor Power Corp. Oscillating vapor engine. 2,922,402, 1-26-60, Cl. 121-65.
- Ballard, Hyde W., to James Lees Sons Co. Semi-oriental jacquard and method. 2,941,551, 6-21-60, Cl. 139-59.
- Ballard, Lester W. Drill pipe wiper. 2,928,114, 3-15-60, Cl. 15-210.
- Ballard, Mary F. Cake plate. 2,924,330, 2-9-60, Cl. 206-46.
- Ballard, Raymond M., C. J. Daniels, D. B. Doolittle, and R. J. Haber, to All American Engineering Co. Means for arresting aircraft. 2,936,977, 5-17-60, Cl. 244-110.
- Ballard, Raymond M., C. J. Daniels, and D. B. Doolittle, to All American Engineering Co. Multiple piston arresting gear. 2,957,554, 10-25-60, Cl. 188-96.
- Ballard, Walter W., to L. R. Nelson Mfg. Co., Inc. Sprinklers. 2,921,474, 1-19-60, Cl. 74-42.
- Ballard, Walter W. Oscillating type sprinkler. 2,932,457, 4-12-60, Cl. 239-242.
- Ballard, Walter W. Valve and key therefor. 2,945,703, 7-19-60, Cl. 284-18.
- Ballard, Wiley P.: *See*—  
 McIntosh, Claude H., and Ballard. 2,944,962.  
 Vander Ploeg, Alfred R., Crawley, and Ballard. 2,920,032.
- Ballarini, Alessandro: *See*—  
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- Ballarini, Carlo: *See*—  
 Sorlini, Giovanni. 2,936,696.
- Ballarini, Emilie: *See*—  
 Sorlini, Giovanni. 2,936,696.
- Ballast, Donald E., S. M. Englund, and R. M. Wiley, to The Dow Chemical Co. Suspension polymerization. 2,934,530, 4-26-60, Cl. 260-93.5.
- Ballaue, Alb C.: *See*—  
 Stulen, Frank L., and Ballauer. 2,951,542.  
 Stamm, Robert H., and Ballauer. 2,965,530.
- Ballentine, James B., to The Chemstrand Corp. Catalyzed process for the production of polyethylene terephthalate employing a catalyst system of manganous formate and silico tungstic acid. 2,952,664, 9-13-60, Cl. 260-75.
- Ballestra, Mario. Apparatus for the distillation of liquid material. 2,938,838, 5-31-60, Cl. 202-176.
- Ballman-Cummings Furniture Co.: *See*—  
 Ferguson, Rex. 2,931,602.
- Ballou, John McKnight, to W. Chudnof. Type holder. 2,947,243, 8-2-60, Cl. 101-28.
- Ballun, Aloysius T.: *See*—  
 Karabinos, Joseph V., and Ballun. 2,954,369.
- Ballwig, Leonard W.: *See*—  
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- Balmer, Donald F., W. H. Lyon, F. E. Runge, and E. P. Johnson, to The Soundscribe Corp. Portable dictation machine. 2,952,747, 9-13-60, Cl. 179-100.4.
- Balmes Solanas, Ramon, to Estirajes Balmes, S.A. Drawing mechanisms for textile rovings. 2,943,864, 7-5-60, Cl. 19-135.
- Balogh, Ernest: *See*—  
 Ramberg, Einar M., and Balogh. 2,962,303.
- Balogh, Roy O., to McCabe-Powers Body Co. Power-driven extension ladders. 2,933,150, 4-19-60, Cl. 182-208.
- Balogh, Roy O., to McCabe-Powers Body Co. Tower vehicles. 2,965,191, 12-20-60, Cl. 182-63.
- Balogh, Roy O., to McCabe-Powers Body Co. Power-driven aerial extension ladders. 2,965,192, 12-20-60, Cl. 182-66.
- Balogh, Harold O., to Clupak, Inc. Blanket applying and replacing means and method. 2,950,224, 8-23-60, Cl. 162-199.
- Balser, Otto W. Lamp construction for use with sand blasting equipment. 2,962,583, 11-29-60, Cl. 240-11.2.
- Balsiger, Harold E., to Landis Tool Co. Abrasive wheel forming and dressing apparatus. 2,926,651, 3-1-60, Cl. 125-11.
- Balsiger, Harold E., to Landis Tool Co. Feed correction mechanism. 2,943,425, 7-5-60, Cl. 51-165.
- Balsiger, Harold E., to Landis Tool Co. Feed adjusting mechanism. 2,961,807, 11-29-60, Cl. 51-165.
- Baltensperger, Paul, to Aktiengesellschaft Brown, Boveri & Cie. Contact structure for electric switches of the gas blast type. 2,937,256, 5-17-60, Cl. 200-148.



- Baltimore Spice Co., The: *See*—  
Meusel, Jerome A., and Brunn. 2,942,989.
- Baltus, George T., and W. Beauchemin, to Bell Aerospace Corp. Manual and automatic hydraulic servomechanism. 2,947,285, 8-2-60, Cl. 121-41.
- Baltus, George T., and M. P. Wolpin, to Bell Aerospace Corp. Integrated actuator. 2,947,286, 8-2-60, Cl. 121-41.
- Baltzer, Donald H., to Monsanto Chemical Co. Near-infrared spectrum filter media. 2,952,575, 9-13-60, Cl. 154-265.
- Baltzer, William W.: *See*—  
Atkeson, Florian V., and Baltzer. 2,960,800.
- Baltzly, Richard, and E. Lorz, to Burroughs Wellcome & Co. (U.S.A.) Inc. Process for the manufacture of xanthene carboxylic acid derivatives. 2,956,063, 10-11-60, Cl. 260-335.
- Balzars Patent-und-Lizenz Anstalt: *See*—  
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- Bamberger, Roland: *See*—  
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- Bamford, Calvin, and M. S. Prentice, to Globe Machine Mfg. Co. Inc. Machine for tilting and lifting a load. 2,928,558, 3-15-60, Cl. 214-1.
- Bamford, Clement H.: *See*—  
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- Bamford, William P., F. J. Carson, and L. H. Laine, to Libbey-Owens-Ford Glass Co. Apparatus for bending sheets of glass or the like. 2,950,573, 8-30-60, Cl. 49-67.
- Banas, Albert: *See*—  
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- Bancel, Paul: *See*—  
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- Bancroft-Brillotex International S.A.: *See*—  
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Boer, Arpad. 2,925,628.  
Boer, Arpad. 2,931,070.  
Boer, Arpad. 2,942,506.  
Boer, Arpad. 2,952,046.
- Bancroft, George H., G. F. Gerow, and D. L. Stevenson, to Consolidated Vacuum Corp. Heater for a diffusion pump. 2,943,783, 7-5-60, Cl. 230-101.
- Bancroft, Howard S. Pump valve. 2,925,094, 2-16-60, Cl. 137-625.28.
- Bancroft, James E., to Allied Control Co., Inc. Valve. 2,963,267, 12-6-60, Cl. 251-333.
- Bancroft, John W., to Minneapolis-Honeywell Regulator Co. Checking means for temperature limiter at start of engine. 2,949,011, 8-16-60, Cl. 60-39.09.
- Bancroft, Joseph, & Sons Co.: *See*—  
Russo, Carl J., Trifunovic, and Sinski. 2,960,729.  
Shattuck, Ewart H. 2,960,730.  
Stump, Charles D. 2,952,892.
- Bandel, David, to American Machine & Foundry Co. Dough mixer. 2,931,320, 4-5-60, Cl. 107-40.
- Bandel, Werner, to Spinnfaser Aktiengesellschaft. Manufacture of regenerated cellulose fibers. 2,966,391, 12-27-60, Cl. 18-54.
- Bandfabrik Breitenbach A.G.: *See*—  
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- Bandy, Owen L.: *See*—  
Mueller, Carl H., Wegmann, and Bandy. 2,925,075.
- Banes, Fred W.: *See*—  
Fitzgerald, William P., Banes, and Hubbard. 2,949,952.
- Banes, Fred W., I. Kirshenbaum, and J. H. Bartlett, to Esso Research and Engineering Co. Plasticizer from polymethyl alkanes and 3-alkyl alkanolic acids and polymeric compositions containing same. 2,920,056, 1-5-60, Cl. 260-31.6.
- Baney, Fred C. Combination luggage carrier and collapsible table. 2,965,424, 12-20-60, Cl. 311-3.
- Banfield, Raymond F., and H. E. Griensman, to Bendix Aviation Corp. Pendulous bobbin holder for spinning frames and the like. 2,922,597, 1-26-60, Cl. 242-130.2.
- Bang, Bernhard A., to The Bendix Corp. Light filter for television pickup tubes and the like. 2,952,188, 9-13-60, Cl. 88-61.
- Bange, Donald A., to The National Cash Register Co. Programming devices. 2,964,743, 12-13-60, Cl. 340-365.
- Bangert, Charles, Jr., to General Electric Co. Electrical apparatus assembly with sequence bussing. 2,929,966, 3-22-60, Cl. 317-119.
- Bangs, Gordon E., E. G. Loomis, and R. Gregory, to United States of America, Navy. Sector tracer. 2,926,606, 3-1-60, Cl. 102-34.5.
- Banholzer, Robert L. Sound reproducing apparatus. 2,930,624, 3-29-60, Cl. 274-46.
- Banigan, Thomas F., Jr., to Tidewater Oil Co. Gasoline fuel composition. 2,938,777, 5-31-60, Cl. 44-77.
- Banik, Oscar W., J. R. Carpenter, and H. J. Hampel, to Burroughs Corp. Magnetic core package. 2,961,584, 11-22-60, Cl. 317-10.
- Banios, Edward W., to Douglas Aircraft Co., Inc. Fluorescent light circuit. 2,923,854, 2-2-60, Cl. 315-100.
- Bank, Albert M., deceased; A. J. Katz, and S. Bank, administratrix of said Albert M. Bank, to Anton Lorenz Furniture. 2,958,370, 11-1-60, Cl. 155-106.
- Bank of America National Trust and Savings Association: *See*—  
Lewis, Howard B. 2,943,454.  
Schutte, Charles E. 2,934,744.  
Schutte, Charles E. 2,936,195.  
Shawley, George C., and Tice. 2,933,947.  
Zipf, Alfred R. 2,923,587.
- Bank, Morton L. Portable electric driven conduit bender. 2,921,619, 1-19-60, Cl. 153-45.
- Bank, Richard P., and C. P. Jacobs. Boat hull. 2,965,061, 12-20-60, Cl. 114-56.
- Bank, Sylvia: *See*—  
Bank, Albert M., and Katz. 2,958,370.
- Bank, Thomas A., to The Firestone Tire & Rubber Co. Flexible coupling. 2,929,231, 3-22-60, Cl. 64-11.
- Bank, Thomas A., to The Firestone Tire & Rubber Co. Apparatus and method of manufacturing rubber article. 2,959,817, 11-15-60, Cl. 18-35.
- Bankauf, William F., B. A. Century, and D. C. Reilly, to Hewitt-Robins Inc. Guard devices for the landings of belt conveyors. 2,953,232, 9-20-60, Cl. 198-16.
- Banke, Joseph J.: *See*—  
Mathews, Abe W., and Banke. 2,946,086.
- Banker, Charles F. Mooring device. 2,956,531, 10-18-60, Cl. 114-230.
- Banker, John J., and L. L. De Wolf, to The Babcock & Wilcox Co. Closure plugs. 2,938,646, 5-31-60, Cl. 220-24.5.
- Banker, Oscar H., to Fawick Corp. Flow divider valve with relief valve and variable orifice. Re. 24,892, 10-25-60, Cl. 137-101.
- Bankers & Merchants, Inc.: *See*—  
Weissman, Samuel M. 2,926,403.  
Weissman, Samuel M. and L. H., and Haimes. 2,950,676.
- Bankert, Ralph A., to Hercules Powder Co. Organic peroxides. 2,957,030, 10-18-60, Cl. 260-610.
- Banko, George. Auxiliary compound angle grinder for surface grinding machines. 2,926,461, 3-1-60, Cl. 51-34.
- Banks, Clarence K.: *See*—  
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- Banks, Kenneth S., and O. A. Poindexter. Road grader attachment. 2,940,193, 6-14-60, Cl. 37-143.
- Banks, Robert: *See*—  
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- Banks, Robert L.: *See*—  
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- Banks, Robert L., to Phillips Petroleum Co. Production of solid polymer. 2,930,788, 3-29-60, Cl. 260-94.9.
- Banks, Sholom A., to American Biltrite Rubber Co., Inc. Steam hose. 2,934,096, 4-26-60, Cl. 138-87.
- Banks, Waldo H., and H. N. Thibault, to Draper Corp. Replenishing mechanism for looms. 2,921,610, 1-19-60, Cl. 139-245.
- Banks, William B., and G. E. Duncan, to Black, Sivalls & Bryson, Inc. Apparatus for automatically testing and metering oil field production. 2,962,894, 12-6-60, Cl. 73-155.
- Banks, William L., Jr. Cargo hoisting apparatus. 2,944,680, 7-12-60, Cl. 212-3.
- Banner, Arthur,  $\frac{1}{2}$  to H. T. M. Rice and  $\frac{1}{2}$  to B. Kriegel. Automatically releasable torque transmitting apparatus. 2,927,672, 3-8-60, Cl. 192-56.
- Banner, Arthur,  $\frac{1}{2}$  to H. T. M. Rice and  $\frac{1}{2}$  to B. Kriegel. Fluid operated releasable torque transmitting apparatus. 2,963,134, 12-6-60, Cl. 192-56.
- Banner, Arthur,  $\frac{1}{2}$  to H. T. M. Rice, and  $\frac{1}{2}$  to B. Kriegel. Fluid pressure operated releasable torque transmitting apparatus. 2,964,152, 12-13-60, Cl. 192-56.
- Banner Metals, Inc.: *See*—  
Wilson, James D. 2,925,919.
- Banner, Robert G.: *See*—  
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Perrin, Tom S., and Banner. 2,928,723.
- Banning, Thomas A., Jr. Transmissions, and the like. 2,943,519, 7-5-60, Cl. 74-789.
- Banning, Thomas A., Jr. Clutches and the like. 2,957,964, 10-25-60, Cl. 200-98.
- Bannister, John J. Locking pliers. 2,942,508, 6-28-60, Cl. 81-330.
- Bannister, Lawrence H., E. E. Dinowitz, and D. M. Powers, to Laboratory for Electronics, Inc. Frequency-shift keying. 2,927,159, 3-1-60, Cl. 178-66.
- Bannow, Rudolph F., and M. Wahlstrom, to The Birdgeport Machines, Inc. Hinge jointed adapter. 2,930,291, 3-29-60, Cl. 90-17.
- Banstrom Industries, Inc.: *See*—  
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Rosebrook, Roy. 2,938,702.  
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- Bantar, Inc.: *See*—  
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- Bantob Products Corp.: *See*—  
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Schaflander, Gerald M. 2,943,959.
- Banus, Morris D.: *See*—  
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- Baprawski, Theodore J. Adjustable single joint miter clamp. 2,941,557, 6-21-60, Cl. 144-293.



- Baptist, James N., and P. J. Canterino, to Phillips Petroleum Co. Process for halogenation of polymers. 2,920,064, 1-5-60, Cl. 260-88.2.
- Bar, Manfred, to Jost-Werke GmbH. Replaceable kingpin mounting for semitrailer couplings. 2,958,541, 11-1-60, Cl. 280-433.
- Bara, Edwin S., to Webcor, Inc. Record player. 2,963,297, 12-6-60, Cl. 274-10.
- Barabas, Charles. Sliding doors and windows. 2,959,827, 11-15-60, Cl. 20-19.
- Barabas, John J.: See—  
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- Barabas, John J., and S. C. Willis, to Castro Convertible Corp. Power operated reclining chair. 2,944,595, 7-12-60, Cl. 155-106.
- Barabas, John J., and S. C. Willis, to Castro Convertible Corp. Reclining chair. 2,949,955, 8-23-60, Cl. 155-106.
- Baracz, Andrew J. Positive action vibration-proof relay. 2,928,285, 3-15-60, Cl. 74-96.
- Baran, John S., to G. D. Searle & Co. 3-oxo-11 $\alpha$ -hydroxy-11, 19-epoxycard-20(22)-enolides and derivatives thereof. 2,946,786, 7-26-60, Cl. 260-239.57.
- Baran, John S., to G. D. Searle & Co. 2-hydroxy- $\Delta^{1,4}$ -steroids. 2,948,740, 8-9-60, Cl. 260-397.4.
- Baran, Joseph G., to Burgess-Manning Co. Luminaire cooling means. 2,924,436, 2-9-60, Cl. 257-124.
- Baranauckas, Charles F., and W. E. Ashton, to Hooker Chemical Corp. Preparation of 2,2,3-trichloroheptafluorobutane. 2,924,627, 2-9-60, Cl. 260-653.7.
- Baranauckas, Charles F., W. E. Ashton, and S. Gelfand, to Hooker Chemical Corp. Process for the preparation of an aliphatic chlorofluorocarbon. 2,965,683, 12-20-60, Cl. 260-653.8.
- Baranoff, Albert J.: See—  
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- Baranowski, Frank, Jr., and J. L. Paine, to General Electric Co. Oscillograph film holder. 2,929,571, 3-22-60, Cl. 242-55.11.
- Baranowski, Leslie B.: See—  
Topol, George J., and Baranowski. 2,953,249.
- Barany, Thomas E., to The British Thomson-Houston Co. Ltd. Differential speed measurement. 2,954,520, 9-27-60, Cl. 324-69.
- Baranyi, Josef R. Aminoplastic resin impregnated laminates. 2,930,727, 3-29-60, Cl. 154-46.
- Barash, Ira M. Shock absorber. 2,953,189, 9-20-60, Cl. 155-9.
- Barash, Samuel A., to Bendix Aviation Corp. Transistor amplifier with variable feedback. 2,945,186, 7-12-60, Cl. 330-20.
- Barassi, Carlo, to Pirelli S.p.A. Pneumatic tire for use on ice and snow. 2,953,181, 9-20-60, Cl. 152-176.
- Barátossy, Jenő, and J. Svingor, to Szerszámgyártó Intézet. Regulating device for servo-motors. 2,921,563, 1-19-60, Cl. 121-45.
- Barbati, Guido J., to United Shoe Machinery Corp. Automatic bobbin winding machines. 2,935,268, 5-3-60, Cl. 242-21.
- Barbe, Georges. Large caliber smooth bore mortars. 2,922,338, 1-26-60, Cl. 89-1.
- Barbeau, Jean B., C. R. Johnson, and C. L. Schrader, to E. I. du Pont de Nemours and Co. Explosively operated rivet having spacer element to prevent failure of shank. 2,956,469, 10-18-60, Cl. 85-40.
- Barbeau, Jean E., to Crane Co. Baseboard panel radiator mounting. 2,934,299, 4-26-60, Cl. 248-232.
- Barbeau, Jean E., to Crane Co. End enclosures for baseboard radiator panels. 2,934,320, 4-26-60, Cl. 257-133.
- Barbeau, Raymond A., and D. K. Close, to International Business Machines Corp. Controlled end of record device. 2,954,435, 9-27-60, Cl. 178-69.
- Barbeau, Raymond A., J. R. Natvig, J. B. Norris, and D. K. Close, to International Business Machines Corp. Checking system for record data transmission. 2,958,727, 11-1-60, Cl. 178-23.
- Barbee, Fred E. Device for scouring rice and the like. 2,922,450, 1-26-60, Cl. 146-295.
- Barbee, Thomas L. Drainage pan. 2,949,213, 8-16-60, Cl. 222-160.
- Barber, Albert R., Hardy, and H. Rowbotham, to Black & Webster, Inc. Process of forming screw threads on a cold rod of rigid thermoplastic material. 2,957,205, 10-25-60, Cl. 18-56.
- Barber, Basil T., to Sperry Rand Corp. Visual indicating signal monitoring system. 2,943,303, 6-28-60, Cl. 340-213.
- Barber, Charles C., to Bell Telephone Laboratories, Inc. Electrical contact member. 2,944,240, 7-5-60, Cl. 339-64.
- Barber, Clair R.: See—  
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- Barber-Colman Co.: See—  
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Cibelli, Charles A., Jr. 2,924,763.  
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- Barber, Edmund A., Jr.: See—  
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- Barber, Franklin D., to Standard Car Truck Co. Lubricating pad for railway car journal. 2,936,202, 5-10-60, Cl. 308-243.
- Barber, Franklin D., to Standard Car Truck Co. Hot bearing signal. 2,952,238, 9-13-60, Cl. 116-101.
- Barber, Franklin T., to Phillips Petroleum Co. Process for producing sulfur from acid gases. 2,958,586, 11-1-60, Cl. 23-225.
- Barber, George A.: See—  
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- Barber-Greene Co.: See—  
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- Barber, Harold A.: See—  
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- Barber, Harry J., R. F. Collins, and M. Davis, to May & Baker Ltd. 1-(4-amino-2-alkoxyphenoxy)-benzamido-alkanes. 2,927,132, 3-1-60, Cl. 260-558.
- Barber, Herbert L., and G. F. Russell. Automatic flip flop target. 2,957,694, 10-25-60, Cl. 273-102.1.
- Barber, John B.: See—  
Franklin, Arthur W., and Barber. 2,941,882.
- Barber Mfg. Co., The: See—  
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- Barber, Ronald J.: See—  
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- Barber, William A., to American Cyanamid Co. Method of producing mixtures of bis(methylcyclopentadienyl) magnesium and bis(cyclopentadienyl) magnesium. 2,933,537, 4-19-60, Cl. 260-665.
- Barberis, Giovanni, to Riv Officine de Villar Perosa Società per Azioni. Change indicating device. 2,950,047, 8-23-60, Cl. 235-7.
- Barbian, Hugo A., G. F. Brackett, Jr., and L. S. Britton, to The Dow Chemical Co. Rolling magnesium alloy. 2,934,462, 4-26-60, Cl. 148-11.5.
- Barbier, Jean, to Eastman Kodak Co. Photographic emulsions containing an antifoggant and antiplumming agent. 2,928,735, 3-15-60, Cl. 96-67.
- Barbkuecht, Fred W., and C. E. Patton, to International Harvester Co. Cotton picker spindle nut structure. 2,934,878, 5-3-60, Cl. 56-50.
- Barbor, William J.: See—  
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- Barbour, Anthony K.: See—  
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- Barbour Weiting Co.: See—  
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- Barbour, William P.: See—  
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- Barbulesco, Daniel J.: See—  
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- Barbuto, Bernard. Pocketed cushion. 2,949,157, 8-16-60, Cl. 155-182.
- Barcena, Guillermo. Shoe fitting device. 2,948,964, 8-16-60, Cl. 33-3.
- Barch, William E., H. P. Latham, and J. L. Marini, to Standard Brands Inc. Preparation of angel food cake. 2,930,698, 3-29-60, Cl. 99-92.
- Barch, William E., and I. M. Reich, to Standard Brands Inc. Instant coffee. 2,929,716, 3-22-60, Cl. 99-71.
- Barcikowski, Walter W., and C. W. Sabotka, to Pittsburgh Plate Glass Co. Glass bending molds. 2,933,856, 4-26-60, Cl. 49-67.
- Barclay, Catherine: See—  
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- Barclay, Harry A., D. K. McLean, and C. R. Sandberg, to Socony Mobil Oil Co., Inc. High pressure visual test cell. 2,922,543, 1-26-60, Cl. 220-82.
- Barclay, Stanton D. Process for purifying oil with mono-isopropanolamine. 2,951,031, 8-30-60, Cl. 208-180.
- Barclay, William, and P. Smith, to Imperial Chemical Industries Ltd. Production of aluminum alkyls. 2,931,820, 4-5-60, Cl. 260-448.
- Barco, Allen A., to Radio Corp. of America. D.C. stabilized amplifiers. 2,935,556, 5-3-60, Cl. 178-5.4.
- Barco, John F.: See—  
Albon, Dean E., and Barco. 2,923,238.
- Barco, John F., and D. E. Albon, to Airmite-Midwest Inc. Method of charging water-filled blast holes with ammonium nitrate and primer cartridge used in same. 2,920,523, 1-12-60, Cl. 86-20.
- Bard, C. R., Inc.: See—  
Garth, Ernest D. G. 2,947,415.
- Bard, Elmer H., to Geerpres Wringer, Inc. Bumper assembly for buckets. 2,947,548, 8-2-60, Cl. 280-79.2.
- Bardach, Howard: See—  
Gerbe, John F. 2,958,303.
- BarDal, Inc.: See—  
D'Alello, Gaetano F. 2,951,024.
- Bardani, Frank M. Sustained action pill. 2,928,770, 3-15-60, Cl. 167-82.
- Bardeen, Thomas, to Gulf Research & Development Co. Monitoring system for seismograph filters. 2,952,833, 9-13-60, Cl. 340-15.
- Bardelli, Arturo. Automatic arms. 2,923,205, 2-2-60, Cl. 89-190.
- Barden Corp., The: See—  
Mims, Bruce L. 2,919,963.



- Barden, Wayne A., to Chicago Telephone Supply Corp. Variable resistor. 2,925,575, 2-16-60, Cl. 338-166.
- Barden, Wayne A., to Chicago Telephone Supply Corp. Electric switch unit with main and auxiliary switches. 2,932,698, 4-12-60, Cl. 200-6.
- Barden, Wayne A., to CTS Corp. Tandem control for stereophonic sound. 2,958,837, 11-1-60, Cl. 338-134.
- Barden, Wayne A., to CTS Corp. Variable resistor. 2,958,839, 11-1-60, Cl. 338-174.
- Barden, Wayne A., to CTS Corp. Variable resistor. 2,958,840, 11-1-60, Cl. 338-174.
- Barden, Wayne A., and C. C. Snyder, to Chicago Telephone Supply Corp. Adjustable resistor. 2,926,324, 2-23-60, Cl. 338-180.
- Barden, Wayne A., and M. B. Arisman, to Chicago Telephone Supply Corp. Combination electric switch and variable resistor. 2,929,040, 3-15-60, Cl. 338-172.
- Barden, Wayne A., and M. B. Arisman, to Chicago Telephone Supply Corp. Variable resistor with vernier control. 2,935,714, 5-3-60, Cl. 338-157.
- Barden, Wayne A., and M. B. Arisman, to CTS Corp. Rectilinearly adjustable variable resistor. 2,958,062, 10-25-60, Cl. 338-180.
- Barden, Wayne A., and M. B. Arisman, to CTS Corp. Combination electrical control. 2,958,748, 11-1-60, Cl. 200-114.
- Bardet, Gerard, and A. Bertin, to Societe de Materiel pour l'Industrie du Verre (Somiver). Machine for filling plastic packages with fluid products. 2,934,868, 5-3-60, Cl. 53-37.
- BarDET, Pierre, to Ste des Ciments de Marseille et d'Outre-Mer. Direct-passage valve. 2,964,285, 12-13-60, Cl. 251-5.
- Bardoneschi, Roland, and G. Muller, to Les Laboratoires Francais de Chimiotherapie. Process of producing 3 $\beta$ ,20 $\alpha$ -yohimbanes. 2,924,600, 2-9-60, Cl. 260-287.
- Bardsley, William: See—
- Arthur, James, Bardsley, Brown, and Gibson. 2,931,958.
- Bardy, Peter J., to General Binding Corp. Method and apparatus for binding books and forming plastic binding elements therefor. 2,930,054, 3-29-60, Cl. 11-1.
- Bare, Conrad B., and R. J. Horst, to Bethlehem Steel Co. Use of SO<sub>2</sub> in ammonia leaching Mayari ore. 2,928,732, 3-15-60, Cl. 75-119.
- Barecki, Chester J., D. N. Humphries, and G. F. Thompson, to American Seating Co. Reclining chair. 2,962,087, 11-29-60, Cl. 155-159.
- Bareis, Clarence W., to Olin Mathieson Chemical Corp. Separation of 1,2,4,5-tetrachlorobenzene from its isomers. 2,938,929, 5-31-60, Cl. 260-650.
- Barengoltz, Bernard A., to McGraw-Edison Co. Transformer lead supporting means. 2,934,726, 4-26-60, Cl. 336-192.
- Barényi, Bela: See—
- Wilfert, Karl, and Barényi. 2,947,020.
- Barényi, Bela, to Daimler-Benz Aktiengesellschaft. Reinforced floor and girder construction for motor vehicles. 2,921,812, 1-19-60, Cl. 296-28.
- Barényi, Bela, to Daimler-Benz Aktiengesellschaft. Automobile roof structure. 2,946,623, 7-26-60, Cl. 296-137.
- Barényi, Bela, to Daimler-Benz Aktiengesellschaft. Transparent plastic car top. 2,946,624, 7-26-60, Cl. 296-137.
- Barényi, Bela, to Daimler-Benz Aktiengesellschaft. Automobile top structure. 2,947,587, 8-2-60, Cl. 296-28.
- Barényi, Bela, to Daimler-Benz Aktiengesellschaft. Vehicle body construction for motor vehicles. 2,953,409, 9-20-60, Cl. 296-28.
- Barényi, Bela, to Daimler-Benz Aktiengesellschaft. Automobile bumper. 2,954,256, 9-27-60, Cl. 293-70.
- Barényi, Bela, to Daimler-Benz Aktiengesellschaft. Closed top construction for motor vehicle with slidable doors. 2,955,872, 10-11-60, Cl. 296-47.
- Barényi, Bela, and K. Wilfert, to Daimler-Benz Aktiengesellschaft. Wheel suspension for vehicles including an auxiliary frame. 2,929,639, 3-22-60, Cl. 280-106.5.
- Barényi, Bela, and K. Wilfert, to Daimler-Benz Aktiengesellschaft. Bumper construction. 2,965,403, 12-20-60, Cl. 293-63.
- Barfod, Frederik, to Bendix Aviation Corp. Fuel injection system. 2,930,370, 3-29-60, Cl. 123-140.
- Barford, John W. Play pen or yard. 2,932,039, 4-12-60, Cl. 5-99.
- Barg, Dora A. Spacing device. 2,940,144, 6-14-60, Cl. 24-81.
- Barger, Blon D., Jr., and J. A. Knaus, to The M. W. Kellogg Co. Purification of hydrocarbon oils using sodium. 2,927,074, 3-1-60, Cl. 208-208.
- Barggren, Richard W. Rotary file. 2,925,644, 2-23-60, Cl. 29-76.
- Barghausen, John W. B., to United States of America, Navy. Mass spectrometer arrangement. 2,939,126, 5-31-60, Cl. 340-345.
- Barham, William L.: See—
- Basore, Cleburne A., and Barham. 2,944,405.
- Baril, Edward A.: See—
- Meagher, James L., Jr., and Baril. 2,947,057.
- Barilla, Joseph R. Fog filter for headlights. 2,920,187, 1-5-60, Cl. 240-46.59.
- Barish, Thomas: See—
- Lear, William P., and Barish. Re. 24,880.
- Ledel, Alvin L., and Barish. 2,950,686.
- Barish, Thomas, to Thompson Ramo Wooldridge Inc. Constant speed drive. 2,941,422, 6-21-60, Cl. 74-796.
- Barium & Chemicals: See—
- Strater, Henry H. 2,962,358.
- Bark, Raymond S., to Boeing Airplane Co. Chopper amplifiers. 2,929,996, 3-22-60, Cl. 330-10.
- Barkalow, Clare E.: See—
- Webster, Stokely, and Barkalow. 2,919,584.
- Barkalow, Clare E., to United Aircraft Corp. Vibration-resistant mounting. 2,919,882, 1-5-60, Cl. 248-358.
- Barkalow, Clare E., to Lear, Inc. Vertical gyro erection mechanism. 2,923,161, 2-2-60, Cl. 74-5.43.
- Barkalow, Clare E., to United Aircraft Corp. Buoyed gyroscope. 2,937,533, 5-24-60, Cl. 74-5.5.
- Barkalow, Clare E., to Lear, Inc. Linear integrating torquing mechanism. 2,948,156, 8-9-60, Cl. 74-5.6.
- Barkalow, Dale E.: See—
- Swift, Gilbert, and Barkalow. 2,945,129.
- Barkan, Philip, to General Electric Co. Hydraulically-actuated operating mechanism for an electric circuit breaker. 2,920,607, 1-12-60, Cl. 121-38.
- Barkan, Philip, and H. N. Schneider, to General Electric Co. Fluid blast circuit interrupter. 2,927,182, 3-1-60, Cl. 200-150.
- Barkdoll, Howard W. Automatic mail box signal. 2,939,629, 6-7-60, Cl. 232-35.
- Barkdoll, Joseph P., to Smith-Corona Marchant Inc. Power driving mechanism for instrumentalities of typewriters. 2,921,660, 1-19-60, Cl. 197-17.
- Barke, Albert H.,  $\frac{1}{2}$  to D. Rosen. Battery terminal protectors. 2,960,560, 11-15-60, Cl. 136-181.
- Barkeley Mfg. Co.: See—
- Clayton, William. 2,947,600.
- Barker, Aaron T., and G. M. Young,  $\frac{1}{4}$  to C. F. Young and  $\frac{1}{4}$  to V. Magnusson. Flexible trap. 2,935,992, 5-10-60, Cl. 137-247.11.
- Barker, Alvin. Greeting card or folder. 2,943,416, 7-5-60, Cl. 46-34.
- Barker, Arthur F., J. J. Johnston, and J. D. Quinn, to E. I. du Pont de Nemours and Co. Recording apparatus. 2,925,308, 2-16-60, Cl. 346-17.
- Barker, Frank S., to Shakertown Corp. Apparatus for making shingle panels. 2,934,110, 4-26-60, Cl. 144-13.
- Barker, Frank S., to Shakertown Corp. Method of making shingle panel. 2,965,531, 12-20-60, Cl. 154-122.
- Barker, George A. Process and composition for preserving metal surfaces against rust. 2,939,437, 6-7-60, Cl. 123-1.
- Barker, George E., to Atlas Powder Co. Detergent reaction products of branched chain aliphatic alcohols and ethylene oxide. 2,934,568, 4-26-60, Cl. 260-615.
- Barker, George E., and C. E. Santangelo, to Quaker Chemical Products Corp. Process for the cold reduction of strip metal. 2,938,262, 5-31-60, Cl. 29-429.
- Barker, John L., to Eastern Industries, Inc. Electronic cycle computer. 2,932,003, 4-5-60, Cl. 340-41.
- Barker, John L., to Eastern Industries, Inc. Vehicle detector. 2,965,893, 12-20-60, Cl. 343-7.
- Barker, Maurice E., to United States of America, War, trustee. Tear gas bullet. 2,920,566, 1-12-60, Cl. 102-66.
- Barker, Norval G., and R. W. H. Chang, to General Mills, Inc. Preparation of vital gluten. 2,946,780, 7-26-60, Cl. 260-123.5.
- Barker, Orrin W., and J. G. Osburn, to Kearney & Trecker Corp. Backlash eliminator. 2,952,190, 9-13-60, Cl. 90-22.
- Barker, Orrin W., J. L. Martin, J. G. Osburn, and F. Zankl, to Kearney & Trecker Corp. Transmission and control mechanism. 2,963,945, 12-13-60, Cl. 90-21.
- Barker, Paul F., to The Gleason Works. Gear grinding machine. 2,952,948, 9-20-60, Cl. 51-33.
- Barker, Paul F., L. O. Carlsen, W. C. Critchley, and N. K. Haas, to The Gleason Works. Machine for grinding toothed parts. 2,930,163, 3-29-60, Cl. 51-32.
- Barker, Paul L. Chair for infants. 2,941,579, 6-21-60, Cl. 155-17.
- Barker, Robert A.: See—
- Jackson, Stuart P., and Barker. 2,942,165.
- Barker, Robert L. Marking apparatus. 2,934,004, 4-26-60, Cl. 101-35.
- Barker, Robert S., and A. Saffer, to Mid-Century Corp. Process for oxidation of monoalkyl naphthalene. 2,963,508, 12-6-60, Cl. 260-524.
- Barker, Robert S., and A. Saffer, to Mid-Century Corp. Process for oxidation of mono-alkyl benzene. 2,963,509, 12-6-60, Cl. 260-524.
- Barker, Robert S., and A. Saffer, to Mid-Century Corp. Oxidation process for the preparation of tertiary alkyl benzoic acid. 2,966,515, 12-27-60, Cl. 260-524.
- Barker, Wilbur V.: See—
- Renzoni, Louis S., and Barker. 2,966,407.
- Barker, William A., to United Shoe Machinery Corp. Shoe supports. 2,950,491, 8-30-60, Cl. 12-127.
- Barker, Woodrow F. Pump. 2,943,577, 7-5-60, Cl. 103-148.
- Barkhuff, Raymond A., Jr.: See—
- Lindstrom, Mary D., and Barkhuff. 2,962,465.
- Barklage, Herman F.: See—
- Reckman, Albert C., Francis, and Barklage. 2,965,948.
- Barkley, Charles R., to Evans Reamer and Machine Co. Electrical contactor device for continuous feed, consumable electrode-type welding apparatus. 2,957,101, 10-18-60, Cl. 314-129.
- Barkley, Lowell J., Jr. Pile with self-spreading anchors. 2,947,149, 8-2-60, Cl. 61-53.



- Barkman, Erik F.: *See*—  
Ramirez, Ernest R., and Barkman. 2,958,610.
- Barkow, William H., and M. W. Schmutz, to Radio Corp. of America. Electric beam controlling apparatus. 2,950,407, 8-23-60, Cl. 313-70.
- Barler Metal Products, Inc.: *See*—  
Yoder, John H. 2,964,372.
- Barlock, Joseph A.: *See*—  
Meyer, Robert E., and Barlock. 2,929,211.
- Barlow, Charles B. Fail-safe up lock mechanism. 2,937,541, 5-24-60, Cl. 74-532.
- Barlow, Charles B., to Lockheed Aircraft Corp. Floating joint. 2,960,287, 11-15-60, Cl. 244-102.
- Barlow Mfg. Co., The: *See*—  
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- Barlow, Roland J., to Bendix Aviation Corp. Roll control system for aircraft. 2,940,694, 6-14-60, Cl. 244-77.
- Barlow, Roland J., to The Bendix Corp. Control system for aircraft. 2,959,379, 11-8-60, Cl. 244-76.
- Barlow, Roland J., and J. Jarvis, to Bendix Aviation Corp. Aircraft control system. 2,929,584, 3-22-60, Cl. 244-77.
- Barlow, Vincent H.: *See*—  
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- Barlow, William R.: *See*—  
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- Barmar Products Corp.: *See*—  
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- Barmer Maschinenfabrik Aktiengesellschaft: *See*—  
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Rehn, Karl-Heinz. 2,939,268.  
Schroder, Otto. 2,949,724.
- Barmotone Products, Inc.: *See*—  
Ryan, James F., Jr. 2,929,418.
- Barna, Alex J. Bow. 2,957,470, 10-25-60, Cl. 124-24.
- Barnack, Stanley B. Paddle toy. 2,950,113, 8-23-60, Cl. 273-97.
- Barnard, George L., to United States of America, Army. Gating circuit with pedestal control. 2,943,260, 6-28-60, Cl. 328-91.
- Barnard, Kenneth H., to Chicopee Mfg. Corp. Textile fabrics and methods of making the same. 2,958,608, 11-1-60, Cl. 117-11.
- Barnard & Leas Mfg. Co., Inc.: *See*—  
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- Barnard, Theodore P., to Miniature Precision Bearings, Inc. Ball surface quality gage. 2,932,965, 4-19-60, Cl. 73-9.
- Barnard, William H.: *See*—  
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- Barnards Ltd. of Norfolk Iron Works: *See*—  
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- Barnby, Herbert A., to Owens-Illinois Glass Co. Method and apparatus for excluding air in packaging powdered materials. 2,931,147, 4-5-60, Cl. 53-22.
- Barnes, Alfred N.: *See*—  
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- Barnes, Brunner C., and R. H. Parekh, to Socony Mobil Oil Co., Inc. Recovery of propane from natural gas. 2,945,073, 7-12-60, Cl. 260-676.
- Barnes, Casper W., Jr.: *See*—  
Crews, Robert W., and Barnes. 2,952,796.
- Barnes, Casper W., Jr., to A. B. Dick Co. Electrostatic writing tubes. 2,933,556, 4-19-60, Cl. 178-6.6.
- Barnes, Charles H., to Specialties Development Corp. Fire extinguisher. 2,946,389, 7-26-60, Cl. 169-31.
- Barnes, Charles M., J. R. Chapman, Jr., and R. L. Lewis, to The Bendix Corp. Control valve having operating position hold. 2,959,190, 11-8-60, Cl. 137-622.5.
- Barnes, Charles W. Device for twisting metal strip. 2,929,434, 3-22-60, Cl. 153-78.
- Barnes Drill Co.: *See*—  
Estabrook, Mark R. 2,934,978.  
Johnson, Albert M. 2,923,101.
- Barnes, Elias B. Mobile expandable and contractible home. 2,965,413, 12-20-60, Cl. 296-27.
- Barnes Engineering Co.: *See*—  
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Astheimer, Robert W. 2,963,910.  
Astheimer, Robert W., and Merlen. 2,961,545.  
Wormser, Eric M., and De Waard. 2,963,673.  
Wormser, Eric M., and De Waard. 2,963,674.
- Barnes, Eugene W., to Michigan Modern Engineering Co. Receptacle for use in motor vehicles. 2,922,515, 1-26-60, Cl. 206-19.5.
- Barnes, Forrest E., to E. D. Bullard Co. Insulated tension link and method of making same. 2,924,643, 2-9-60, Cl. 174-178.
- Barnes, Fredrik R., and L. R. Greenaway, to Boeing Airplane Co. Accelerometer and magneto-resistive electromechanical transducer used therein. 2,945,379, 7-19-60, Cl. 73-517.
- Barnes, Fred K., to The B. F. Goodrich Co. Profiled tire tread splicing. 2,955,640, 10-11-60, Cl. 154-9.
- Barnes, Geoffrey W., to Easan Electrical (Proprietary) Ltd. Electrical regulating systems. 2,958,000, 10-25-60, Cl. 314-69.
- Barnes, Gerald L.: *See*—  
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- Barnes, Gerald L., to United States Rubber Co. Method of spraying by reducing the viscosity of a copolymer solution. 2,940,874, 6-14-60, Cl. 117-104.
- Barnes, Harold S., to Allentown Bobbin Works. Method of brazing two metal heads to a metal barrel to produce a bobbin for yarn. 2,940,169, 6-14-60, Cl. 29-471.1.
- Barnes, Harry E., to Gadget-Of-The-Month Club, Inc. Airfoil with adjustable through passage. 2,948,492, 8-9-60, Cl. 244-42.
- Barnes, Inez: *See*—  
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- Barnes, James F., and E. F. Rebholz, to Foil Process Corp. Tubular metallic foil products and method of producing them. 2,954,803, 10-4-60, Cl. 138-62.
- Barnes, James H., to E. L. Wood and C. B. Aske, Jr. Positioning means for a pneumatic tire trim member assembly. 2,937,426, 5-24-60, Cl. 24-81.
- Barnes, James H., to E. L. Wood and C. B. Aske, Jr. Resilient trim member and securing means therefor. 2,937,902, 5-24-60, Cl. 301-37.
- Barnes, James H., to E. L. Wood and C. B. Aske, Jr. Unitary trim member and securing ring. 2,937,904, 5-24-60, Cl. 301-37.
- Barnes, James H., to E. L. Wood. Separately attachable trim member assembly. 2,963,319, 12-6-60, Cl. 301-37.
- Barnes, James H., to E. L. Wood and C. B. Aske, Jr. Trim member for pneumatic tires and attachment means therefor. 2,964,357, 12-13-60, Cl. 301-37.
- Barnes, Jeffrey W., to Ferranti, Inc. Gyroscope apparatus. 2,924,978, 2-16-60, Cl. 74-5.
- Barnes, John I., Jr. Combined instrument and blade holder and container. 2,935,183, 5-3-60, Cl. 206-16.
- Barnes, John W.: *See*—  
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- Barnes, LeRoy E.: *See*—  
Heinlein, John L., and Barnes. 2,920,752.
- Barnes, Lloyd L., Jr., to The Bendix Corp. Visible filter clogging indicator. 2,954,751, 10-4-60, Cl. 116-70.
- Barnes, Logan V., to Hartwig, Inc. Knockdown display rack. 2,963,173, 12-6-60, Cl. 211-177.
- Barnes Mfg. Co.: *See*—  
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- Barnes, Marion D., and J. E. Lyon, to Monsanto Chemical Co. Process for producing mixed ammonium nitrate-monoammonium phosphate prills. 2,957,763, 10-25-60, Cl. 71-64.
- Barnes, Marshall F.: *See*—  
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- Barnes, Norman, N. W. Rickwood, and R. G. Sargent, to Ascot Gas Water Heaters Ltd. Gas fired burner. 2,959,217, 11-8-60, Cl. 158-114.
- Barnes, Preston D. and R. F.: *See*—  
said R. F. Barnes assor. to P. D. Barnes. Machine for leveling, bordering, grading and moving soil with automatic blade leveling. 2,964,864, 12-20-60, Cl. 37-168.
- Barnes, Ralph G. Crawler type assembly with self stabilizing frame. 2,934,383, 4-26-60, Cl. 305-4.
- Barnes & Reinecke, Inc.: *See*—  
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- Barnes, Robert E.: *See*—  
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- Barnes, Robert F.: *See*—  
Barnes, Preston D. and R. F. 2,964,864.
- Barnes, Sidney W., to United States of America, Atomic Energy Commission. Control system for isotope separating apparatus. 2,922,882, 1-26-60, Cl. 250-41.9.
- Barnes, Sidney W., and C. M. Cantrell, to United States of America, Atomic Energy Commission. Electromagnetic separation of isotopes. 2,923,822, 2-2-60, Cl. 250-41.9.
- Barnes, W. F. and John, Co.: *See*—  
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Smith, Clarence J. 2,963,048.  
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- Barnes, William A.: *See*—  
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Rozmus, Walter J., Barnes, and Rozmus. 2,926,030.
- Barnes, William A., to Kelsey-Hayes Co. Multicellular expanded material and process of manufacturing same. 2,920,510, 1-12-60, Cl. 78-82.
- Barnes, William A., to Kelsey-Hayes Co. Die control for cold pressure welding. 2,927,487, 3-8-60, Cl. 78-82.
- Barnes, William A., to Kelsey-Hayes Corp. Ratchet wrench. 2,963,929, 12-13-60, Cl. 81-62.
- Barnes, William A., and W. J. Rozmus, to Kelsey-Hayes Co. Die movement control for cold pressure welding. 2,932,221, 4-12-60, Cl. 78-82.
- Barnes, William A., and D. E. Brown, to Kelsey-Hayes Co. Joint construction together with means and apparatus for producing same. 2,939,348, 6-7-60, Cl. 78-82.
- Barnes, William B. Transmission and control therefor. 2,936,648, 5-17-60, Cl. 74-472.
- Barnett, Arthur A. C., K. C. Warner, and P. N. G. Knowles, to The Decca Record Co. Ltd. Resolvers for producing electrical signals representative of the components in co-ordinate directions of a mechanical movement. 2,944,238, 7-5-60, Cl. 338-131.
- Barnett, Charles H., and J. M. Beyvl, to The Foundry Equipment Co. Vertical oven. 2,926,008, 2-23-60, Cl. 263-8.



- Barnett, Charles H., and R. E. Teagle, to The Foundry Equipment Co. Vertical conveyor oven. 2,926,897, 3-1-60, Cl. 263-8.
- Barnett, Claude C., and H. J. Dana, to Research Corp. Detecting and recording physiological changes accompanying emotion stresses. 2,944,542, 7-12-60, Cl. 128-205.
- Barnett, Eugene J., to Westinghouse Electric Corp. Apparatus for drying fabrics. 2,942,353, 6-28-60, Cl. 34-82.
- Barnett, Glenroy W.: *See—*  
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- Barnett, Guy F., and G. R. Spencer, to Philco Corp. Electrical apparatus. 2,927,233, 3-1-60, Cl. 313-64.
- Barnett, Guy F., G. R. Spencer, W. F. Baghurst, and G. W. Pratt, to Philco Corp. Precision cathode-ray tube assembly. 2,950,406, 8-23-60, Cl. 313-69.
- Barnett, Harry E., and R. E. Birnbaum, to Alexander Doll Co., Inc. Doll. 2,959,891, 11-15-60, Cl. 46-135.
- Barnett, Henry W. Conveying device. 2,938,590, 5-31-60, Cl. 180-1.
- Barnett, John S., to Photographic Analysis, Inc. Apparatus for contour plotting. 2,933,008, 4-19-60, Cl. 88-14.
- Barnett, Ronald A.: *See—*  
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- Barnett, William P.: *See—*  
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- Barnette, William E.: *See—*  
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- Barney, Arthur L.: *See—*  
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- Barney, Arthur L., to E. I. du Pont de Nemours and Co. Photopolymerizable compositions, elements and processes. 2,948,611, 8-9-60, Cl. 98-35.
- Barney, Freeman, to The Challenge Machinery Co. Printer's proof press. 2,962,963, 12-6-60, Cl. 101-284.
- Barney, Harold L., and F. P. Burns, to Bell Telephone Laboratories, Inc. Hall effect memory device. 2,964,738, 12-13-60, Cl. 340-174.
- Barney, Walter, 25% to C. Conklin, 25% to L. Costello, and 10% to G. L. Hampton. Magnetically controlled lock and switch. 2,931,953, 4-5-60, Cl. 317-134.
- Barnhart, George E. Projectile construction. 2,941,469, 6-21-60, Cl. 102-49.
- Barnhart, William: *See—*  
Pfost, Robert F., and Barnhart. 2,942,061.
- Barnhill, William S., R. H. Wade, D. W. Wujciak, and J. L. Zollinger, to Minnesota Mining and Mfg. Co. Chemical compounds and methods for the preparation thereof. 2,920,086, 1-5-60, Cl. 260-399.
- Barnhill, William S., and E. S. Lo, to Minnesota Mining and Mfg. Co. Copolymers and method for the preparation thereof. 2,931,790, 4-5-60, Cl. 260-83.5.
- Barnhill, William S., and R. H. Wade, to Minnesota Mining and Mfg. Co. Fluoroperhalogenated alkanes and method of preparation thereof. 2,939,888, 6-7-60, Cl. 260-653.
- Barnhill, William S., and C. W. Weber, to Minnesota Mining and Mfg. Co. Recovery of telomer acid. 2,948,741, 8-9-60, Cl. 260-408.
- Barnhill, George B., deceased: L. S. Barnhill, administratrix, 25% to J. N. Adams, and 37½% to M. C. Friel. Method for improving soil texture. 2,946,155, 7-26-60, Cl. 47-58.
- Barnhill, Louise S.: *See—*  
Barnhill, George B. 2,946,155.
- Barnhill, Matthew T., to Avondale Mills, Inc. Dyed textile fiber and process for producing the same. 2,920,932, 1-12-60, Cl. 8-28.
- Barnothy, Jeno M., to Nuclear-Chicago Corp. Method and apparatus for indicating radio-activity percentage ratios. 2,952,777, 9-13-60, Cl. 250-83.3.
- Barnstead Still and Sterilizer Co.: *See—*  
Smith, Verity C. 2,949,119.  
Smith, Verity C. 2,962,438.
- Barnum, Hewitt M.: *See—*  
Jacobs, Philip F., Barnum, and Greengard. 2,940,635.
- Baron, Arthur L.: *See—*  
Cahn, Robert P., and Baron. 2,959,540.
- Baron, Heinz. Dressing material for wounds. 2,924,252, 2-9-60, Cl. 139-413.
- Baron, Joseph J., Jr.: *See—*  
Anson, Harry D., and Baron. 2,957,024.
- Baron, Lou. Speed alarm for vehicles. 2,963,694, 12-6-60, Cl. 340-263.
- Baronetzky, Egon O. M., and J. H. N. Van Vucht, to North American Philips Co., Inc. Thorium-containing getters for electric discharge tubes. 2,960,475, 11-15-60, Cl. 252-181.6.
- Baroni, Alessandro, and T. Garlanda, to Montecatini, Societa Generale per l'Industria Mineraria e Chimica. Process for separating carbon dioxide from ammonia in the production of melamine from urea. 2,950,173, 8-23-60, Cl. 23-196.
- Barnothy, Jeno M. Radiation measuring device. 2,933,608, 4-19-60, Cl. 250-83.3.
- Barr, Aaron C., R. G. Gorman, F. C. Minch, B. E. O'Connor, and J. G. Weaver, to Houdaille Industries, Inc. Steer damper. 2,953,324, 9-20-60, Cl. 244-50.
- Barr, Claude J., to Olin Mathieson Chemical Corp. Propellant powder. 2,960,393, 11-15-60, Cl. 52-5.
- Barr, Claude J., and D. G. Hummel, to Olin Mathieson Chemical Corp. Production of diborane. 2,965,450, 12-20-60, Cl. 23-204.
- Barr, David J.: *See—*  
Copping, Geoffrey P., Parker, and Barr. 2,950,675.
- Barr, Eugene A., and V. Auerbach, to Union Carbide Corp. Water-soluble phenol-formaldehyde condensation products. 2,940,954, 6-14-60, Cl. 260-59.
- Barr, Frank T.: *See—*  
Herrmann, John W., and Barr. 2,924,570.  
Smith, Brook L., Barr, and Jahmig. 2,964,464.
- Barr, Harry F.: *See—*  
Etchells, Eugene B., Kolbe, and Barr. 2,936,857.
- Barr, Irwin R., to Aircraft Armaments, Inc. Sabot for high velocity projectile. 2,939,395, 6-7-60, Cl. 102-93.
- Barr, Irwin R., to Aircraft Armaments, Inc. Ammunition. 2,956,500, 10-18-60, Cl. 102-38.
- Barr, Irwin R., J. F. Maloney, and R. L. Zouck, to Aircraft Armaments, Inc. Bomb rack. 2,956,477, 10-18-60, Cl. 89-1.5.
- Barr, Irwin R., and P. E. Sweeney, to Aircraft Armaments, Inc. Dual rate machine gun with gas chamber encircling the barrel. 2,956,481, 10-18-60, Cl. 89-129.
- Barr, James R.: *See—*  
Dutton, John C., and Barr. 2,931,009.
- Barr, James R., to General Electric Co. Gasket joint structure and method of making the same. 2,922,542, 1-26-60, Cl. 220-46.
- Barr, James R., to General Electric Co. Tap changing switch for electrical apparatus. 2,942,073, 6-21-60, Cl. 200-4.
- Barr, James R., to General Electric Co. Terminal board connection. 2,959,764, 11-8-60, Cl. 339-268.
- Barr Rubber Products Co., The: *See—*  
Chupa, John C. 2,934,344.  
Chupa, John C. 2,935,320.  
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Dorn, Randolph J. 2,926,705.  
Hobbs, Fred J. 2,956,530.  
Yoder, Alfred F. 2,946,092.
- Barr and Stroud Ltd.: *See—*  
Strang, John M., and Foster. 2,946,257.  
Strang, John M., and Mackenzie. 2,958,256.
- Barr, Thomas A.: *See—*  
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- Barracough, William E.: *See—*  
Johnson, Wesley W., and Barracough. 2,942,371.
- Barrass, Richard A., to Food Machinery and Chemical Corp. Liquid-cooled cable for electric furnaces and connectors thereof. 2,932,682, 4-12-60, Cl. 174-19.
- Barravecchia, Domenico P. Universal captive cap for collapsible tubes and bottles. 2,948,440, 8-9-60, Cl. 222-545.
- Barrer, Richard M., to Union Carbide Corp. Adsorption process. 2,930,447, 3-29-60, Cl. 183-114.2.
- Barrer, Richard M., and J. D. Falconer, to Union Carbide Corp. Silver recovery process. 2,934,429, 4-26-60, Cl. 75-118.
- Barrera, Louis A. Corrugated paper dispenser having adjustable feed rolls. 2,921,491, 1-19-60, Cl. 83-436.
- Barrett, Arthur L., to Joy Mfg. Co. Extensible belt conveyor. 2,920,747, 1-12-60, Cl. 198-139.
- Barrett, Arthur L., to Joy Mfg. Co. Disintegrating head for continuous miner. 2,932,496, 4-12-60, Cl. 262-26.
- Barrett, Calvin J., 49% to A. F. Cruse. Vehicle brake apparatus. 2,948,359, 8-9-60, Cl. 188-106.
- Barrett, Cedric A., and J. P. Kingsbury, to Grand Valley Machine and Tool Co. High capacity combination regulator and check valve. 2,930,398, 3-29-60, Cl. 137-489.
- Barrett-Cravens Co.: *See—*  
Paradise, Francis C. 2,920,713.
- Barrett, Fred O.: *See—*  
Myers, Latimer D., Goebel, and Barrett. 2,955,121.
- Barrett, Harry B. Cylinder honing element. 2,932,137, 4-12-60, Cl. 51-184.2.
- Barrett, Harry B. Methods and apparatus for preparing brake lining. 2,959,150, 11-8-60, Cl. 118-211.
- Barrett, Harry B. Methods and apparatus for finishing brake shoes and brake drums. 2,960,765, 11-22-60, Cl. 29-428.
- Barrett, Harry B. Means for grinding automotive brake shoes. 2,960,807, 11-22-60, Cl. 51-241.
- Barrett, Henry A. J.: *See—*  
Bohm, Otto M., and Barrett. 2,965,899.
- Barrett, Jack H. Venetian blinds. 2,928,461, 3-15-60, Cl. 160-115.
- Barrett, Jack P., to Pan American Petroleum Corp. Vapor barrier for cold surfaces. 2,961,030, 11-22-60, Cl. 154-28.
- Barrett, Leo V.: *See—*  
Eder, Harvey P., Barrett, Monk, and Oberlin. 2,940,747.
- Barrett, Maurice L., Jr.: *See—*  
Shea, Carter L., Harden, and Barrett. 2,953,158.
- Barrett, Michael T. Mobile auxiliary furniture. 2,957,185, 10-25-60, Cl. 5-59.
- Barrett, Michael W. Fracturing using calcium carbide. 2,943,681, 7-5-60, Cl. 166-38.
- Barrett, Neilon, and C. A. Grant, to Gaylord Bros., Inc. Apparatus for use in assembling and applying book covers. 2,943,336, 7-5-60, Cl. 11-1.
- Barrett, Richard O.: *See—*  
Bourns, Marian E., Harrison, Gaa, and Barrett. 2,953,763.
- Barrett, Robert E., E. R. Olson, and P. Schall, Jr., to The Battelle Development Corp. Indium oxide coatings. 2,932,590, 4-12-60, Cl. 117-201.
- Barrett, Walter, to Prince-Smith & Stells Ltd. Drafting apparatus of textile spinning machines. 2,922,198, 1-26-60, Cl. 19-134.



- Barrett, Wesley H., to Dowty Mining Equipment Ltd. Pushing device for shifting mining machinery. 2,948,508, 8-3-60, Cl. 254-35.
- Barrick, James G., and B. A. Fries, to United States of America, Atomic Energy Commission. Process of eliminating hydrogen peroxide in solutions containing plutonium values. 2,954,273, 9-27-60, Cl. 23-14.5.
- Barrios, Clement: *See*—  
Milla, Joseph. 2,949,939.
- Barrios, Maria: *See*—  
Milla, Joseph. 2,949,939.
- Barroero, Louis F. Upright refrigerated cabinet with unimpeded front access. 2,962,875, 12-6-60, Cl. 62-256.
- Barron, Edgar G., and H. O. Wires. Motored manometer for indicating and recording fluid level variations. 2,942,466, 6-28-60, Cl. 73-302.
- Barron, Lee H. Diamond edged band saw. 2,924,050, 2-9-60, Cl. 51-188.
- Barron, Samuel: *See*—  
Pagnotti, Joseph R., and Barron. 2,949,190.  
Pagnotti, Joseph R., and Barron. 2,954,870.
- Barros, Ramón. Vacuum-compressor washer-dryer. 2,920,471, 1-12-60, Cl. 68-20.
- Barrows, David W.: *See*—  
Thorndon, Clifford, and Barrows. 2,931,122.  
Willard, Paul V. 2,940,652.
- Barry, Adelbert: *See*—  
Mounce, Whitman D., and Barry. 2,942,669.
- Barry, Arthur W., and W. M. D. Bryant, to E. I. du Pont de Nemours and Co. Preparation of polyethylene having improved processability. 2,932,632, 4-12-60, Cl. 260-94.9.
- Barry, George D., 50% to G. S. Mitchell. Bowling wrist support. 2,924,458, 2-9-60, Cl. 273-54.
- Barry, James E., and M. V. Cross, Jr., to Lockheed Aircraft Corp. Card to tape translator. 2,954,824, 10-4-60, Cl. 164-111.
- Barry, John K.: *See*—  
Bisbing, Robert H., and Barry. 2,934,234.
- Barry, John N., to Hazeltine Research, Inc. Constantly forward biased non-linear element across detector input for controlling gain automatically. 2,941,070, 6-14-60, Cl. 250-20.
- Barry, Joseph C.: *See*—  
Dogliotti, Eugene C., Barry, and Mann. 2,933,418.
- Barry, Leon G., to United States Instrument Corp. Handset holders. 2,924,671, 2-9-60, Cl. 179-146.
- Barry, Leonard D. Adjustable sign. 2,947,101, 8-2-60, Cl. 40-53.
- Barry, Vincent C., J. G. Belton, M. L. Conalty, D. Twomey, J. F. O'Sullivan, and E. Hodel, to Geigy Chemical Corp. New phenazine derivatives. 2,943,089, 6-28-60, Cl. 260-267.
- Barry, Vincent C., J. G. Belton, M. L. Conalty, D. Twomey, J. F. O'Sullivan, and E. Hodel, to Geigy Chemical Corp. New phenazine derivatives. 2,946,792, 7-26-60, Cl. 260-267.
- Barry, Vincent C., J. G. Belton, M. L. Conalty, D. Twomey, J. F. O'Sullivan, and E. Hodel, to Geigy Chemical Corp. New phenazine derivatives. 2,948,726, 8-9-60, Cl. 260-267.
- Barsam, Arthur, Jr. Removable spindle rewind mechanism. 2,939,643, 6-7-60, Cl. 242-55.11.
- Barsel, Norman: *See*—  
Fleischhacker, Desider, and Barsel. 2,961,376.
- Barsky, George, V. K. Babayan, and G. Knafo, to E. F. Drew & Co., Inc. Synthetic hard butter. 2,924,528, 2-9-60, Cl. 99-118.
- Barsotti, Albert V. Invalid's commode. 2,942,648, 6-28-60, Cl. 155-31.
- Barsy, Imre J., to Armstrong Cork Co. Dielectric heating mold and method of forming a wooden mold member. 2,947,596, 8-2-60, Cl. 18-47.
- Bart Enterprises, Inc.: *See*—  
Bartolucci, Leo M. 2,952,024.
- Barta, James, and E. F. McEntee, to Vickers Inc. Power transmission. 2,934,919, 5-3-60, Cl. 64-9.
- Bartell, Charles: *See*—  
Weschler, Joseph R., and Bartell. 2,963,386.
- Bartell, Charles, C. L. Weidner, and R. M. Smith, to Johnson & Johnson. Pressure-sensitive adhesive tape. 2,937,109, 5-17-60, Cl. 117-122.
- Bartels, Alfred F. A., and P. F. W. Jobmann. Process for severing the heads of fish. 2,920,343, 1-12-60, Cl. 17-45.
- Bartels, Bernhard E., to Sylvania Electric Products Inc. Electroluminescent lamp. 2,928,015, 3-8-60, Cl. 313-108.
- Bartels, Milton A. Crushed ice making machine. 2,962,869, 12-6-60, Cl. 62-188.
- Bartels, Russell W., and C. E. Martin. Collapsible boat anchor. 2,940,411, 6-14-60, Cl. 114-208.
- Bartels, Russell, and C. E. Martin. Portable grill. 2,940,439, 6-14-60, Cl. 126-30.
- Bartels, Willi, and R. Holl. Ladies footwear without uppers. 2,933,830, 4-26-60, Cl. 36-2.5.
- Bartelt Engineering Co.: *See*—  
Bartelt, Harold L. 2,939,257.  
Harker, Charles B. 2,922,568.  
Harker, Charles B. 2,923,112.  
Harker, Charles B. 2,933,220.  
Harker, Charles B. 2,957,284.  
Matti, Leo F. 2,957,674.
- Bartelt, Harold L., to Bartelt Engineering Co., Inc. Mechanism for adding tape to tea bag. 2,939,257, 6-7-60, Cl. 53-134.
- Bartelt, John E.: *See*—  
Fox, Philip E., Bartelt, Crawford, and Rochester. 2,950,465.
- Bartelt, John E., and M. E. Femmer, to International Business Machines Corp. Motion controls for data input-output device. 2,921,293, 1-12-60, Cl. 340-174.
- Barten, Raymond J.: *See*—  
Ashton, Benjamin N., and Barten. 2,937,663.
- Barter, Charles J., Jr.: *See*—  
Norman, Irwin, and Barter. 2,932,851.
- Barter, Le Roy D., and P. R. Gilson, to Beckman Instruments, Inc. Display device segments and circuits therefor. 2,963,692, 12-6-60, Cl. 340-251.
- Barth, Bruce P.: *See*—  
Reinking, Norman H., Barth, and Castner. 2,951,825.
- Barth, Fritz P., to Alfred Gauthier G.m.b.H. Intra-lens shutter with delayed action device. 2,935,005, 5-3-60, Cl. 95-53.6.
- Barth, Fritz P., to Alfred Gauthier G.m.b.H. Photographic shutter with "B" exposure. 2,953,075, 9-20-60, Cl. 95-63.
- Barth, Hans, and C. H. Odell, to O'Dell Brothers. Position meter. 2,948,890, 8-9-60, Cl. 340-347.
- Barth, John W.: *See*—  
Strasel, Raymond K., and Barth. 2,955,404.
- Barth, Kurt: *See*—  
Appleton, Bernard S., and Barth. 2,941,834.  
Greer, Edward M., Appleton, and Barth. 2,946,304.
- Barth, Luther B. Auxiliary pedal attachment. 2,942,493, 6-28-60, Cl. 74-562.5.
- Barth, Robert M. Dispensing apparatus and window mount therefor. 2,932,860, 4-19-60, Cl. 20-40.
- Barthel, Roy W., to Minneapolis-Honeywell Regulator Co. Condition responsive device. 2,949,514, 8-16-60, Cl. 200-61.06.
- Barthelemy, Pierre: *See*—  
Nomine, Gerard, and Barthelemy. 2,941,993.
- Barthelmess, Hermann, to Alweg-Forschung Gesellschaft mit beschränkter Haftung. Monobeam transition section construction. 2,923,254, 2-2-60, Cl. 104-118.
- Barthelmess, Otto: *See*—  
Bauder, Ulrich, and Barthelmess. 2,920,794.
- Bartholoma, Johann, to Telefunken G.m.b.H. Antenna nutation system. 2,956,279, 10-11-60, Cl. 343-758.
- Bartholomäus, Werner J., to Daimler-Benz Aktiengesellschaft. Thrust bearing. 2,941,853, 6-21-60, Cl. 308-233.
- Bartholomäus, Werner J., to Daimler-Benz Aktiengesellschaft. Throttling mechanism for brakes. 2,956,647, 10-18-60, Cl. 188-90.
- Bartholomäus, Werner J., R. J. Wirsching, and H. P. Scheying, to Daimler-Benz Aktiengesellschaft. Discharge valve assembly for fuel injection pumps. 2,953,992, 9-27-60, Cl. 103-41.
- Bartholome, Ernst, H. Nonnenmacher, and O. Frey, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Reaction of gaseous hydrocarbons with oxygen. 2,951,749, 9-6-60, Cl. 48-196.
- Barthruff, Otto: *See*—  
Stutz Gerhart, and Barthruff. 2,951,439.
- Barth-Wehrenalp, Gerhard, to Pennsalt Chemicals Corp. Chemical process for the purification of perchloryl fluoride and recovery of fluosulfonic acid. 2,942,948, 6-28-60, Cl. 23-203.
- Barth-Wehrenalp, Gerhard, and H. C. Mandell, Jr., to Pennsalt Chemicals Corp. Process for the preparation of perchloryl fluoride. 2,942,949, 6-28-60, Cl. 23-203.
- Bartik, William J.: *See*—  
Blain, Albert, Bartik, and Cordivari. 2,926,340.  
Bonn, Theodore H., Lawrence, and Bartik. 2,931,015.
- Bartkowiak, Stanley A. Automatic towline release. 2,944,506, 7-12-60, Cl. 114-235.
- Bartl, Herbert: *See*—  
Schellenberg, Wolf-Dietrich, and Bartl. 2,948,706.  
Sinn, Gustav, and Bartl. 2,963,452.
- Bartl, Herbert. Process for the production of copolymers of ethylene. 2,947,735, 8-2-60, Cl. 260-87.3.
- Bartl, Herbert, and G. Sinn, to Farbenfabriken Bayer Aktiengesellschaft. Terpolymers containing salts of half esters of  $\alpha$ , unsaturated ethylene dicarboxylic acids and composition containing same. 2,939,855, 6-7-60, Cl. 260-29.7.
- Bartl, Hugo, H. Bestian, H. Diery, J. Heyna, and A. Ruckert, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for fixing pigments on fibrous materials. 2,961,349, 11-22-60, Cl. 117-161.
- Bartleson, John D., to Ethyl Corp. Petroleum hydrocarbon oil stabilized against oxidative deterioration. 2,928,790, 3-15-60, Cl. 252-46.7.
- Bartleson, John D., to Ethyl Corp. Fuel additives. 2,935,390, 5-3-60, Cl. 44-69.
- Bartleson, John D., and R. B. Faris, Jr., to The Standard Oil Co. Boric acid-diol-alcohol additive and liquid leaded motor fuel containing same. 2,929,695, 3-22-60, Cl. 44-56.
- Bartleson, John D., and H. E. Alford, to The Standard Oil Co. Process of treating hydrocarbons and product. 2,955,084, 10-4-60, Cl. 252-39.
- Bartlett, C. O., & Snow Co., The: *See*—  
Arms, Milo F. 2,927,587.  
Jooss, Reinhold, and Harding. 2,955,305.



- Bartlett, Christopher L., to Bristol Aero-Engines, Ltd. Measuring apparatus. 2,944,342, 7-12-60, Cl. 33—174.
- Bartlett, George H. Cylindrical-type lure holder. 2,927,395, 3-8-60, Cl. 43—57.5.
- Bartlett, James L., Jr., to The Garrett Corp. Refrigeration system with vortex means. 2,920,457, 1-12-60, Cl. 62—5.
- Bartlett, James L., Jr., to The Garrett Corp. Regenerative air cycle refrigeration. 2,952,981, 9-20-60, Cl. 62—5.
- Bartlett, Jeffrey H.: *See—*
- Banes, Fred W., Kirshenbaum, and Bartlett. 2,920,056.
- Kirshenbaum, Isidor, Bartlett, and Slotterbeck. 2,955,949.
- Lovett, John R., and Bartlett. 2,955,107.
- Morway, Arnold J., and Bartlett. 2,929,784.
- Morway, Arnold J., Bartlett, Gleason, and Lippincott. 2,929,785.
- Bartlett, Kenneth M., to Thompson Ramo Wooldridge Inc. Forged powdered metal articles. 2,957,232, 10-25-60, Cl. 29—192.
- Bartlett, Lawrence C., and H. J. Krall, to Eastman Kodak Co. Method for forming film or sheeting. 2,932,853, 4-19-60, Cl. 18—57.
- Bartlett, Merrill F., and C. Meystre, to Ciba Pharmaceutical Products Inc. Process for extraction of alkaloidal substance from plants of the apocynaceae family. 2,963,475, 12-6-60, Cl. 260—236.
- Bartlett, Richard J., and R. W. Hompe, to Smith, Kline & French Laboratories. Inspection device. 2,920,524, 1-12-60, Cl. 88—14.
- Bartley, Vernon L. Portable swimming pool digger. 2,946,146, 7-26-60, Cl. 37—192.
- Bartnik, Raymond J., to Hays Mfg. Co. Flow control valve. 2,937,496, 10-25-60, Cl. 133—43.
- Barto, Floyd D. Scribing device. 2,934,827, 5-3-60, Cl. 33—27.
- Barto, John K. Bundle loading device. 2,924,340, 2-9-60, Cl. 211—148.
- Bartolomeo, Frank T. Screen means for pour openings of paper beverage receptacles. 2,927,695, 3-8-60, Cl. 210—464.
- Bartolomeo, Frank T. Smoking articles. 2,958,328, 11-1-60, Cl. 131—9.
- Bartolucci, Leo M., to Bart Enterprises, Inc. Pool cover securing means. 2,952,024, 9-13-60, Cl. 4—172.
- Barton, Arthur F. Electrical connecting device. 2,924,640, 2-9-60, Cl. 174—71.
- Barton, Charles J., Sr.: *See—*
- Overholser, Lyle G., Barton, and Ramsey. 2,938,769.
- Barton, Charles J., and W. R. Grimes, to United States of America, Atomic Energy Commission. Molten fluoride nuclear reactor fuel. 2,920,024, 1-5-60, Cl. 204—193.2.
- Barton, Daniel M., E. W. Schoeffel, and F. J. Zimmermann, to Sterling Drug Inc. Process and apparatus for complete liquid-vapor phase oxidation and high enthalpy vapor production. 2,944,396, 7-12-60, Cl. 60—39.05.
- Barton, David W., to Chrysler Corp. Fuel control valve mechanism for use with a gas turbine power plant or the like. 2,941,357, 6-21-60, Cl. 60—39.28.
- Barton, David W., and G. A. Ulrich, to Ford Motor Co. Power steering mechanism. 2,955,668, 10-11-60, Cl. 180—79.2.
- Barton, Donn C. Carton. 2,955,734, 10-11-60, Cl. 229—16.
- Barton Electronics, Inc.: *See—*
- Hatton, Arthur T. 2,928,951.
- Barton, Frank D., to J. S. Williams, J. R. Biven, and L. B. Irish. Expendable barbecue. 2,965,096, 12-20-60, Cl. 126—25.
- Barton, Frederic D. Stop leak package. 2,935,189, 5-3-60, Cl. 206—47.
- Barton, George C., to United Shoe Machinery Corp. Molding machines for pressing and vulcanizing plastic materials. 2,922,191, 1-26-60, Cl. 18—17.
- Barton, George C., to United Shoe Machinery Corp. Machines for trimming and skiving heel breast covering flaps. 2,937,388, 5-24-60, Cl. 12—16.2.
- Barton Instrument Corp.: *See—*
- Cooper, William J. 2,927,813.
- Barton, James, to Frederic B. Stevens, Inc. Plating machine. 2,945,579, 7-19-60, Cl. 198—19.
- Barton, James, to Frederic B. Stevens, Inc. Barrel type conveyor apparatus. 2,963,140, 12-6-60, Cl. 198—19.
- Barton, John S.: *See—*
- Lewis, Dan, Jr., and Barton. 2,927,865.
- Miller, George. 2,928,425.
- Barton, Loy E., to Radio Corp. of America. Semi-conductor signal conveying circuits. 2,924,778, 2-9-60, Cl. 330—15.
- Barton, Loy E., to Radio Corp. of America. Temperature controlled semi-conductor bias circuit. 2,951,208, 8-30-60, Cl. 330—14.
- Barton, Loy E., to Radio Corp. of America. High-level modulated signal amplifier system. 2,961,615, 11-22-60, Cl. 330—10.
- Barton, Loy E., to Radio Corp. of America. High gain semi-conductor devices. 2,965,820, 12-20-60, Cl. 317—235.
- Barton, Paul D., to Sun Oil Co. Crude oil storage and loading dock. 2,945,465, 7-19-60, Cl. 114—5.
- Barton, Raymond W.: *See—*
- Thompson, Robert D., and Barton. 2,935,088.
- Barton, Robert H., to Radio Corp. of America. Amplifier oscillator for magnetic recorder-reproducer. 2,957,050, 10-18-60, Cl. 179—100.2.
- Barton, Suzanne P., D. Burn, G. Cooley, B. Ellis, V. Petrow, and I. A. Stuart-Webb, to The British Drug Houses Ltd. 21-alkyl-17 $\beta$ -hydroxy-17 $\alpha$ -pregn-20-yne, therapeutic compositions comprising same, and process therefor. 2,939,819, 6-7-60, Cl. 167—65.
- Barton, Thomas H.: *See—*
- Butler, Oliver I., Barton, and Sterling. 2,959,721.
- Bartorelli, Ugo, to Ottico Meccanica Italiana e Rilevamenti Aerofotogrammetrici, Soc. p. Az. Three-picture radial triangulating stereocomparator. 2,960,006, 11-15-60, Cl. 88—29.
- Bartos, Jaroslav: *See—*
- Velluz, Leon, Amiard, Bartos, Goffinet, and Heymes. 2,938,891.
- Bartos, John, and R. L. Brown, to Electrolux Corp. Disposable dust containers. 2,964,128, 12-13-60, Cl. 183—51.
- Bartosh, Roman F.: *See—*
- Wilson, John H., and Bartosh. 2,924,005.
- Bartosz, Frank J.: *See—*
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- Bartsch, Cornelius. Rotary loading and scraping machine. 2,944,350, 7-12-60, Cl. 37—4.
- Bartus, Frank G. Combination toilet tissue roll and deodorant container. 2,946,511, 7-26-60, Cl. 239—52.
- Bartusek, Josef: *See—*
- Novak, Bedrich, Bartusek, and Kerhart. 2,965,951.
- Bartz, Gunter E., and W. Bill, to Ernst Leitz G.m.b.H. Electronic microscope for top illumination of surfaces. 2,928,943, 3-15-60, Cl. 250—49.5.
- Bartz, Heinrich K.G.: *See—*
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- Bartz, Kenneth W., to Celanese Corp. of America. Catalytic polymerization process. 2,947,727, 8-2-60, Cl. 260—67.
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- Bartz, Quentin R.: *See—*
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- Moore, Alexander M., De Wald, Westland, Bartz, Dion, and Fusari. 2,965,633.
- Baruch, Jordan J.: *See—*
- Watters, Bill G., and Baruch. 2,935,151.
- Baruh, Morton G. Pop-up spout for non-refillable bottles. 2,931,542, 4-5-60, Cl. 222—500.
- Barusch, Maurice R.: *See—*
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- Lindstrom, Eddie G., and Barusch. 2,922,707.
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- Barusch, Maurice R., to California Research Corp. Fuels for compression-ignition engines. 2,930,681, 3-29-60, Cl. 44—74.
- Barusch, Maurice R., and B. J. Fontana, to California Research Corp. Rust inhibited fuels. 2,929,696, 3-22-60, Cl. 44—66.
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- Barwell, John H., and Lanham. 2,958,098.
- Bärwinkel, Paul. Quick change drill chuck. 2,931,660, 4-5-60, Cl. 279—48.
- Barwood, Victor H. Composite self-sealing washer. 2,927,495, 3-8-60, Cl. 85—1.
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- Basford, Kenneth A., to Rolls-Royce Ltd. Fuel systems of gas-turbine engines. 2,946,189, 7-26-60, Cl. 60—39.28.
- Basham, Edgar W. J., to Normalair Ltd. Couplings. 2,936,183, 5-10-60, Cl. 284—4.
- Basharrah, William J., to Burroughs Corp. Wide-band amplifier. 2,930,985, 3-29-60, Cl. 330—15.
- Bashford, Leslie A., to Courtaulds Ltd. Dyeing of threads, filaments, fibres and the like. 2,960,381, 11-15-60, Cl. 8—83.
- Bashover, Albert, to Conmar Products Corp. Slide fasteners. 2,946,109, 7-26-60, Cl. 24—205.15.
- Bashuk, Peter. Detachable wing for half couch casket. 2,943,376, 7-5-60, Cl. 27—1.
- Basiago, Raymond, to McGraw-Edison Co. Thermal-type marker. 2,934,395, 4-26-60, Cl. 346—139.
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- Basile, Carmen L., P. Terry, R. R. Tullgren, and R. R. Kaufmann, to Taylor Spring and Mfg. Co. Method of stripping insulation from wire. 2,935,786, 5-10-60, Cl. 29—547.
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- Baskey, Raymond H., to Horizons Inc. Seal material. 2,928,167, 3-15-60, Cl. 29—182.5.
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- Bassore, Cleburne A., and W. L. Barham, to Union Tank Car Co. Conservation arrangement. 2,944,405, 7-12-60, Cl. 62—54.
- Bass, Alton S., and R. L. Vehicle brake line valve. 2,930,391, 3-29-60, Cl. 137—118.
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- Bass, George E., F. Martindell, and C. K. Emerson, to Ferracuta Machine Co. Exhaust valve for fluid motors. 2,954,010, 9-27-60, Cl. 121—46.5.
- Bass, Miles M., R. M. Bell, L. C. Hammond, and P. J. Robischung, to Hammond Machinery Builders, Inc. Grinder with oscillating head. 2,922,258, 1-26-60, Cl. 51—55.
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- Bassett, John W. C., to General Electric Co. Toroid winding apparatus. 2,944,745, 7-12-60, Cl. 242—4.
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- Bassett, Raymond C., Jr., to General Electric Co. Reversible contrast illuminated control indicator. 2,953,668, 9-20-60, Cl. 200—167.
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- Bassindale, Isaac B., to T.M.M. (Research) Ltd. Yarn breakage stop motions in textile machinery. 2,955,343, 10-11-60, Cl. 28—51.
- Bassinger, Ross, to Bassinger Tool Co. Fluid actuated impact tool. 2,943,603, 7-5-60, Cl. 121—30.
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- Bassler, Fritz. Method and apparatus for aligning record carriers relative to a record scanner. 2,928,953, 3-15-60, Cl. 250—219.
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- Bas-Taymaz, Enis, to Gesellschaft Zur Forderung der Forschung an der Eidg. Techn. Hochschule. Arrangement for controlling and correcting the location of the focal spot produced by a cathode-ray on the target of a roentgen-tube. 2,946,892, 7-26-60, Cl. 250—99.
- Bastian, Arthur L., to Ward Leonard Electric Co. Fluorescent lamp dimming ballast. 2,930,998, 3-29-60, Cl. 336—165.
- Bastian, Arthur L., to Ward Leonard Electric Co. Dimmer compensating circuit. 2,933,649, 4-19-60, Cl. 315—206.
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- Batchelor, James D., G. P. Curran, and E. Gorin, to Consolidation Coal Co. Process for maintaining high level of activity for supported manganese oxide acceptors for hydrogen sulfide. 2,927,063, 3-1-60, Cl. 202—31.
- Batchelor, James D., G. P. Curran, and E. Gorin, to Consolidation Coal Co. Method for maintaining high level of activity for supported manganese oxide acceptors for hydrogen sulfide. 2,950,229, 8-23-60, Cl. 202—31.
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- Batchelor, James D., G. P. Curran, and E. Gorin, to Consolidation Coal Co. Manganese ore acceptors for hydrogen sulfide. 2,950,231, 8-23-60, Cl. 202—31.
- Batcher, Ralph R.: See—  
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- Bateman, Coates F., to Symington Wayne Corp. Fluid dispensing system. 2,921,719, 1-19-60, Cl. 222—135.
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- Bates, David J., to Hughes Aircraft Co. Periodically focused traveling wave tube with tapered phase velocity. 2,956,200, 10-11-60, Cl. 315—3.5.
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- Bourassa, Robert H., and Korol. 2,921,752.
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- Bates, Reginald A., to Pass & Seymour, Inc. A.C. rocker switch of four-way type. 2,953,656, 9-20-60, Cl. 200-67.
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- Hein, Henry W. 2,945,529.
- Hufgard, Edwin F., Antochow, and Yurka. 2,924,262.
- Matthews, Peter F. 2,949,145.
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- Bath, Cyril J. Method and apparatus for combined stretch and die forming of metal stock. 2,961,028, 11-22-60, Cl. 153-35.
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- McCrorry, Rollin J., McNinch, and Underwood. 2,964,026.
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- Batty, Harry A., and J. J. Higgins, to James Lees and Sons Co. Warp yarn stop motion for carpet looms. 2,936,795, 5-17-60, Cl. 139-355.
- Batty, Harry A., and T. G. Pullen III, to James Lees and Sons Co. Uptwister. 2,944,382, 7-12-60, Cl. 57-62.
- Batty, John W., A. E. Henshall, and H. Sagar, to Imperial Chemical Industries Ltd. Modification of the properties of synthetic fibres. 2,955,960, 10-11-60, Cl. 117-138.8.
- Batz, Walter, and J. W. Thurman, to Jones & Laughlin Steel Corp. Aluminum cladding of steel. 2,965,963, 12-27-60, Cl. 29-487.
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- Bauer, Eldon E., and G. Broughton, to United States of America, War. Incendiary fuels. 2,922,703, 1-26-60, Cl. 44-7.
- Bauer, Ernest K., to American Viscose Corp. Yarn tube drive. 2,926,511, 3-1-60, Cl. 64-30.
- Bauer, Ernest K., to American Viscose Corp. Bulked yarn manufacture. 2,938,257, 5-31-60, Cl. 28-1.
- Bauer, Ernest K., to American Viscose Corp. Gear type blender assembly. 2,955,319, 10-11-60, Cl. 18-2.
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- Bauer, Jackson, and C. Campbell, to Collins and Aikman Corp. Method of producing foam backed carpet, and product. 2,950,221, 8-23-60, Cl. 154-100.
- Bauer, Johannes. Automatic control means for a gear transmission. 2,961,884, 11-29-60, Cl. 74-336.5.
- Bauer, John A., to Bendix Aviation Corp. Calendar clock. 2,927,418, 3-8-60, Cl. 58-5.
- Bauer, Josef. Canopy structure. 2,963,290, 12-6-60, Cl. 268-30.
- Bauer, Lester L., to Gendron Wheel Co. Seat tube guide for folding wheel chairs. 2,959,212, 11-8-60, Cl. 155-191.
- Bauer, Lester L., and R. M. Wolaver, to Gendron Wheel Co. Detachable foot rest assembly for invalid chairs. 2,960,150, 11-15-60, Cl. 155-165.
- Bauer Machine Co., Inc.: *See—*
- Bauer, Alois. 2,932,275.
- Bauer, Matthew F. Self-flaring tube coupling. 2,946,607, 7-26-60, Cl. 285-334.5.
- Bauer, Matthew F. Tube coupling connection for plastic or soft metal tubing. 2,951,715, 9-6-60, Cl. 285-249.
- Bauer, Oliver F., and E. D. Dammert, to The Gleason Works. Machine for lapping or burnishing gears, or like operations. 2,919,518, 1-5-60, Cl. 51-26.
- Bauer, Oliver F., and E. Stark, to The Gleason Works. Machine and method for running gears together for testing and finishing. 2,947,120, 8-2-60, Cl. 51-26.
- Bauer, Peter, to Pye Ltd. Indexing mechanisms. 2,959,061, 11-8-60, Cl. 74-84.
- Bauer, Richard. Helicopter structures. 2,949,254, 8-16-60, Cl. 244-17.27.
- Bauer, Robert D., and N. W. Mitchell, to Phillips Petroleum Co. Distillation system. 2,949,408, 8-16-60, Cl. 202-71.
- Bauer, Robert E.: *See—*
- Mancuso, Joseph P., and Maffett. 2,948,097.



- Bauer, Robert F., and H. Stratton, to Shell Oil Co., Continental Oil Co., The Superior Oil Co., and Union Oil Co. of California. Drilling. 2,923,531, 2-2-60, Cl. 235-25.
- Bauer, Rudolf E. Layer built dry battery. 2,938,065, 5-24-60, Cl. 136-90.
- Bauer, Russell E., to Ex-Cell-O Corp. Electro hydraulic servo valve. 2,924,241, 2-9-60, Cl. 137-623.
- Bauer, William C. Polarized light process and means for producing stereograms. 2,933,994, 4-26-60, Cl. 95-18.
- Bauer, William C., A. P. McCue, and K. C. Rule, to Food Machinery and Chemical Corp. Method of crystallizing. 2,954,282, 9-27-60, Cl. 23-300.
- Bauerle, Alfred: See—
- Rodenhauser, Ludwig, and Bauerle. 2,939,426.
- Bauerle, Kurt: See—
- Junghans, Helmut, and Bauerle. 2,941,417.
- Bauerlein, Carl C., to The Dole Valve Co. Valves. 2,925,090, 2-16-60, Cl. 137-218.
- Bauerlein, Carl C., to The Dole Valve Co. Self-releasing ice mold. 2,939,298, 6-7-60, Cl. 62-344.
- Bauerlein, Carl C., to The Dole Valve Co. Pneumatic control valve. 2,942,837, 6-28-60, Cl. 251-28.
- Bauerlein, Carl C., to The Dole Valve Co. Collapsible detergent dispenser. 2,965,268, 12-20-60, Cl. 222-193.
- Bauerlein, Carl C., M. M. Reddi, and M. F. Bedocs, to The Dole Valve Co. Liquid measuring device. 2,923,134, 2-2-60, Cl. 62-137.
- Bauerlein, Carl C., and M. M. Reddi, to The Dole Valve Co. Fluid pump. 2,950,684, 8-30-60, Cl. 103-40.
- Bauerlein, Carl C., and W. L. Taylor, to The Dole Valve Co. Pneumatic control system for washing machines and the like. 2,960,856, 11-22-60, Cl. 68-12.
- Bauers, Barton M., to Owens-Corning Fiberglas Corp. Load handling device and method of operation. 2,954,138, 9-27-60, Cl. 214-658.
- Bauerschmidt, Frank W. Gas-liquid ratio control mechanism. 2,954,094, 9-27-60, Cl. 183-27.
- Bauger, Louis A.: See—
- Bertin, Jean H., Turinetti, Meulien, and Bauger. 2,949,734.
- Baugh, Charles, and R. A. Patton, to Morton Salt Co. Process and apparatus for coating granules. 2,955,956, 10-11-60, Cl. 117-100.
- Baugh, Charles W., Jr., to Westinghouse Electric Corp. Television apparatus. 2,953,637, 9-20-60, Cl. 178-58.
- Baugh, Robert T.: See—
- Anderson, Richard F., Kececioğlu, and Baugh. 2,959,364.
- Baughman, Howard B., to General Electric Co. Mean free path vacuum gage. 2,961,601, 11-22-60, Cl. 324-33.
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- Baukus, Frank W. Book liner and magnifier. 2,957,390, 10-25-60, Cl. 88-39.
- Bauleke, Maynard P., to Minneapolis-Honeywell Regulator Co. Ceramic compositions. 2,961,326, 11-22-60, Cl. 106-39.
- Baum, Bernard, and J. Harding, to Union Carbide Corp. Treatment of thermoplastic articles with organo-halosilanes and the resulting products. 2,921,870, 1-19-60, Cl. 117-138.8.
- Baum, Charles W.: See—
- Voegel, James E., Baum, and Stockstrom. 2,932,304.
- Baum, Custer C., to Hughes Aircraft Co. Scanner for optical systems. 2,946,893, 7-26-60, Cl. 250-203.
- Baum, Elmer: See—
- Vosburgh, Malcolm C., Baum, and Demars. 2,938,949.
- Baum, Peter A., to United States of America, Air Force. Boot-strap type driver circuit for producing high voltage pulses. 2,933,690, 4-19-60, Cl. 328-176.
- Baum, Peter A., to Hazeltine Research, Inc. Pulse-distribution system. 2,951,153, 8-30-60, Cl. 250-27.
- Baum, Sidney J., to Foster Grant Co., Inc. Method of making a moldable composition from styrene and a styrene-rubber interpolymers. 2,957,833, 10-25-60, Cl. 260-4.
- Baum, William A., to Photo Research Corp. Constant D.C. voltage circuit. 2,962,649, 11-29-60, Cl. 321-16.
- Bauman, Edward: See—
- Mohler, Robert D., and Bauman. 2,938,082.
- Bauman, Edward E., to North Electric Co. Substation signalling device. 2,951,909, 9-6-60, Cl. 179-84.
- Bauman, Edward E., to North Electric Co. Substation signalling device. 2,951,910, 9-6-60, Cl. 179-87.
- Bauman, Howard E., J. L. MacMillan, and J. A. Stein, to The Pillsbury Co. Process for rapid manufacture of cheese product. 2,965,492, 12-20-60, Cl. 99-116.
- Bauman, Hubert F.: See—
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- Bauman, Hubert F., to The Electric Storage Battery Co. Electrical batteries. 2,937,220, 5-17-60, Cl. 136-90.
- Baumann, Arnold W., P. P. Noznick, R. H. Bundus, and G. C. North. Sterile vacuum pan. 2,954,821, 10-4-60, Cl. 159-1.
- Baumann, Arthur N., to International Minerals & Chemical Corp. Method of manufacturing alkali metal tripolyphosphates. 2,948,588, 8-9-60, Cl. 23-106.
- Baumann, Emil, to Georg Fischer Aktiengesellschaft. Automatic charging device for pin changing apparatus. 2,956,593, 10-18-60, Cl. 139-257.
- Baumann, Emil, to Georg Fischer Aktiengesellschaft. Weft pin supply mechanism. 2,957,497, 10-25-60, Cl. 139-245.
- Baumann, Ernst. Chair lift. 2,927,539, 3-8-60, Cl. 105-150.
- Baumann, Ferdinana A. J.: See—
- Hock, Josef, Schüppel, and Baumann. 2,935,999.
- Baumann, Fritz, to Farbenfabriken Bayer Aktiengesellschaft. Dyes of the 1,4-diamino-2,3-anthraquinone-dicarboximide series. 2,945,861, 7-19-60, Cl. 260-272.
- Baumann, George P., to Esso Research and Engineering Co. Process for controlled supply of steam to catalysts. 2,924,632, 2-9-60, Cl. 260-680.
- Baumann, Hans: See—
- Hensel, Hans R., Eistert, Baumann, and Dehnert. 2,920,071.
- Baumann, Hans, and D. Leuchs, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Diazacyanine dyestuffs cations. 2,951,847, 9-6-60, Cl. 260-305.
- Baumann, Hans, and D. Leuchs, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of metal-containing dyestuffs. 2,954,370, 9-27-60, Cl. 260-146.
- Baumann, Karl. Valve actuating mechanism. 2,925,808, 2-23-60, Cl. 123-90.
- Baumann, Manfred, to Bauwerk A.G. Double-surface planer for wood strip material. 2,947,332, 8-2-60, Cl. 144-116.
- Baumann, Manfred. Machine for the production of small parquet battens. 2,954,807, 10-4-60, Cl. 143-58.
- Baumann, Manfred, and E. Schneider, to Bauwerk A.G. Device for the manufacture of small parquet battens. 2,957,506, 10-25-60, Cl. 144-116.
- Baumann, Marie C., to Pet Milk Co. Carton insert. 2,947,460, 8-2-60, Cl. 229-14.
- Baumann, Paul, F. Broich, and G. Schäfer, to Chemische Werke Huls Aktiengesellschaft. Process and apparatus for carrying out gas reactions. 2,930,822, 3-29-60, Cl. 260-680.
- Baumbach, Harlan L.: See—
- Enkelmann, Walter, Baumbach, and Ford. 2,951,651.
- Baumbach, Harlan L., and H. M. Little, to Unicorn Engineering Corp. Automatic control system for film printing machines and the like. 2,935,923, 5-10-60, Cl. 95-75.
- Baumbach, Harlan L., and H. M. Little, to Unicorn Engineering Corp. Automatic fade device. 2,939,372, 6-7-60, Cl. 95-75.
- Baume, Frank J., to Inks Bros. Process of preparing a coffee product. 2,933,394, 4-19-60, Cl. 99-68.
- Baumeister, Heard K., to International Business Machines Corp. Externally pressurized fluid bearing. 2,928,709, 3-15-60, Cl. 346-74.
- Baumeister, Heard K., and L. B. Feierabend, to International Business Machines Corp. Tape drive. 2,954,911, 10-4-60, Cl. 226-5.
- Baumel, Joseph. Foldable stereoscopic viewer. 2,934,999, 5-3-60, Cl. 88-29.
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- Stinnes, Hanns, and Baumer. 2,936,549.
- Baumgardner, John C. Thread-tension eyelet device. 2,942,803, 6-28-60, Cl. 242-153.
- Baumgartner, Albert F. Automatic package stamping device. 2,927,525, 3-8-60, Cl. 101-35.
- Baumgartner, Doyle M. Carton holder. 2,932,423, 4-12-60, Cl. 220-85.
- Baumgartner, Frederick N., to Esso Research and Engineering Co. Two-stream process of preparing hydrocarbon oil thickening soap. 2,922,799, 1-26-60, Cl. 260-414.
- Baumgartner, Frederick N., to Esso Research and Engineering Co. Two-stage preparation of soap thickener for hydrocarbon. 2,922,800, 1-26-60, Cl. 260-414.
- Baumgartner, Hans, to Schweizerische Lokomotiv- und Maschinenfabrik. Torsional vibration pickup devices. 2,963,902, 12-13-60, Cl. 73-70.1.
- Baumgartner, John R., to Mercury Engineering Corp. Printing press. 2,930,319, 3-29-60, Cl. 101-248.
- Baumgartner, John R., to Mercury Engineering Corp. Carton blank feeding mechanism. 2,942,765, 6-28-60, Cl. 225-94.
- Baumgartner, John R., to Mercury Engineering Corp. Automatic registry control system and method for printing and cutting a web. 2,963,965, 12-13-60, Cl. 101-227.
- Baumgartner, John R., and P. Zernov, to Mercury Engineering Corp. Printing press. 2,929,317, 3-22-60, Cl. 101-181.
- Baumgartner, John R., and P. Zernov, to Mercury Engineering Corp. Turnover supply roll stand. 2,929,572, 3-22-60, Cl. 242-58.
- Baumgartner, William H.: See—
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- Baumhart, Earl E., M. W. Kiebler, Jr., and A. Zier, to The Glidden Co. Process for curing butadiene-styrene copolymer drying oils and their blown derivatives. 2,957,786, 10-25-60, Cl. 117-161.
- Baumstark, Leopold, Jr., and R. G. Rawlings; said Rawlings assor. to said Baumstark. Grooving and recessing tool. 2,945,404, 7-19-60, Cl. 77-58.
- Baur, George W., and H. B. Woods, to Hughes Tool Co. Water separator for air drilling. 2,920,872, 1-12-60, Cl. 255-24.
- Baur, George W., and E. A. Morlan, to Hughes Tool Co. Large diameter earth boring drill. 2,949,281, 8-16-60, Cl. 255-327.
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 Bavley, Abraham, and C. J. Knuth, to Chas. Pfizer & Co., Inc. Organo-tin compounds. 2,936,299, 5-10-60, Cl. 260-45.75.  
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- Beach, Frank A. Detachable and foldable container carrier. 2,944,713, 7-12-60, Cl. 224-45.
- Beach, Frederick E. Chair dolly. 2,961,250, 11-22-60, Cl. 280-35.
- Beach, James B., to Lockheed Aircraft Corp. Aircraft component dolly. 2,931,519, 4-5-60, Cl. 214-1.
- Beach, James B., and D. C. Olson, to Lockheed Aircraft Corp. Adapter pads and fittings. 2,931,626, 4-5-60, Cl. 254-1.
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- Beach, Leland K., and J. E. Shewmaker, to Esso Research and Engineering Co. Extraction of metals from heavy petroleum oils utilizing pyridine containing 10-40% water. 2,922,760, 1-26-60, Cl. 208-251.
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- Beach, Robert E.: *See—*  
Evans, Thomas, Doering, and Beach. 2,942,483.
- Beach, Ronald O.: *See—*  
Piatt, Alvin R., and Beach. 2,964,603.
- Beacham, Robert C., and W. F. Butler, to Cutter Laboratories. Pinch valve. 2,922,613, 1-26-60, Cl. 251-4.
- Beachem, Michael T., to American Cyanamid Co. Bis-sulfones by reaction of quinones with bis-sulfonic acids. 2,943,097, 6-28-60, Cl. 260-396.
- Beachler, Edward D., to Beloit Iron Works. Paper machine drive. 2,927,481, 3-8-60, Cl. 74-689.
- Beachler, Edward D., to Beloit Iron Works. Fourdrinier wire stringing method and apparatus. 2,938,581, 5-31-60, Cl. 162-273.
- Beachler, Edward D., to Beloit Iron Works. Multi-ply sheet former. 2,942,661, 6-28-60, Cl. 162-304.
- Beachler, Edward D., to Beloit Iron Works. Instrument control of freedom on the Fourdrinier wire. 2,965,168, 12-20-60, Cl. 162-253.
- Beachner, Robert W.: *See—*  
Thut, Paul J., and Beachner. 2,933,038.
- Beach-Russ Co.: *See—*  
Beach, Edward J., 2,952,331.
- Beachy, Alvin S.: *See—*  
Beachy, Sam A., A. S., and M. S. 2,946,143.
- Beachy, Menno S.: *See—*  
Beachy, Sam A., A. S., and M. S. 2,946,143.
- Beachy, Roman S. Poultry feeder. 2,919,675, 1-5-60, Cl. 119-52.
- Beachy, Sam, and Sons: *See—*  
Beachy, Sam A., A. S., and M. S. 2,946,143.
- Beachy, Sam A., A. S., and M. S., to Sam Beachy & Sons. Ditching machine. 2,946,143, 7-26-60, Cl. 37-92.
- Beacon Milling Co., Inc. The: *See—*  
Snyder, John M., Rowth, and Lee. 2,945,765.
- Beacon Production Equipment Corp.: *See—*  
Fenton, Frank W. 2,944,702.  
Fenton, Frank W. 2,947,405.
- Beadle, Anthony C., to International Standard Electric Corp. Telephone transmitters. 2,960,579, 11-15-60, Cl. 179-122.
- Beagle, Melvin J., Jr., and H. H. Newman, to Whiting Corp. Double effect evaporators and method of operating same. 2,929,443, 3-22-60, Cl. 159-20.
- Beagles, Robert, and V. W. Wall, to North American Aviation, Inc. Signal generator having independent output frequency and phase adjustment means. 2,920,284, 1-5-60, Cl. 331-38.
- Beal, John P. Water ski towing assembly. 2,944,507, 7-12-60, Cl. 114-235.
- Beal, Laurence J., and A. R. Jokela. Hair straightener. 2,955,604, 10-11-60, Cl. 132-38.
- Beal, Robert, to Structural Products, Inc. Fixture support. 2,940,718, 6-14-60, Cl. 248-245.
- Beal, Robert, to Structural Products, Inc. Supporting post for fixtures. 2,961,212, 11-22-60, Cl. 248-356.
- Beale, Alton G., Jr., to Wisconsin Electrical Mfg. Co., Inc. Automatic control for material distribution. 2,922,610, 1-26-60, Cl. 249-2.
- Beale, Alvin F., Jr., and A. L. Larsen, to The Dow Chemical Co. Method of and solvent for removing inorganic fluoride scale deposits. 2,961,355, 11-22-60, Cl. 134-27.
- Beale, Julian R. A., to North American Phillips Co., Inc. Method of making semiconductor device. 2,964,430, 12-13-60, Cl. 148-1.5.
- Beall, Glenn L., to Abbott Laboratories. Container. 2,940,444, 6-14-60, Cl. 128-214.
- Beall, Richard W., Jr.,  $\frac{1}{2}$  to L. H. Chandler. Liquid dispensing device. 2,963,205, 12-6-60, Cl. 222-484.
- Beals, Malcolm D., L. R. Blair, and J. W. Lindenthal, to National Lead Co. Stabilization of vitreous enamel stains. 2,937,951, 5-24-60, Cl. 106-48.
- Beam, Chester R., and C. E. Berthold, to American Potash & Chemical Corp. Process for the recovery of manganese compounds from rhodolite. 2,959,477, 11-8-60, Cl. 75-7.
- Beaman, Norman V., to C. J. Patterson Co. Dough shaper and conveyor. 2,925,055, 2-16-60, Cl. 107-9.
- Beamish, William R., to Northern Electric Co., Ltd. Fluid-cooled electric cable. 2,946,837, 7-26-60, Cl. 174-15.
- Beams, Jesse W., and L. B. Snoddy, to United States of America, Atomic Energy Commission. Centrifuge end cap. 2,947,471, 8-2-60, Cl. 233-15.
- Beams, Jesse W., and L. B. Snoddy, to United States of America, Atomic Energy Commission. Centrifuges. 2,948,572, 8-9-60, Cl. 308-143.
- Bean, Claude T.: *See—*  
Robtschek, Paul, and Bean. 2,931,746.
- Bean, Hobart R. Safety plug for tool and drill strings. 2,966,277, 12-27-60, Cl. 220-25.
- Bean, Jesse M.: *See—*  
Powers, Clyde W., Bean, and Carter. 2,952,498.
- Bean, Morris, & Co.: *See—*  
Bean, Karifa L. 2,923,990.
- Bean Rubber Mfg. Co.: *See—*  
Mosher, James R. 2,925,148.
- Bean, Karifa L., to Morris Bean & Co. Casting mold for fusible pattern. 2,923,990, 2-9-60, Cl. 22-196.
- Bear, Clarence. Tandem vehicle construction. 2,931,450, 4-5-60, Cl. 180-14.
- Bear Mfg. Co.: *See—*  
MacMillan, Charles W. 2,923,147.  
MacMillan, Charles W. 2,923,149.  
MacMillan, Charles W. 2,927,758.  
MacMillan, Charles W. 2,952,435.  
MacMillan, Charles W., Holaday, and Pierce. 2,923,067.
- Bearbower, Nola E.: *See—*  
Bearbower, Ray E. and N. E. 2,920,803.
- Bearbower, Ray E. and N. E., to Gadget-of-The-Month Club, Inc. Lunch kit holder. 2,920,803, 1-12-60, Cl. 224-42.45.
- Beard, Arthur D.: *See—*  
Bensky, Lowell S., Nettleton, and Beard. 2,926,338.
- Beard, Edward S. Renewable ring and holer for globe valve. 2,920,862, 1-12-60, Cl. 251-357.
- Beard, Ernest G. Projection screen. 2,934,998, 5-3-60, Cl. 88-28.93.
- Beard, Joe. Trading stamp dispenser. 2,941,707, 6-21-60, Cl. 225-33.
- Beard, Leslie R., to Modern Products, Inc. Door structure. 2,926,395, 3-1-60, Cl. 20-16.
- Beard, Richard B., to Minneapolis-Honeywell Regulator Co. Measuring apparatus. 2,927,888, 3-8-60, Cl. 204-195.
- Beard, Richard B., to Minneapolis-Honeywell Regulator Co. Means for measuring thermoelectrically a constituent of an atmosphere. 2,928,276, 3-15-60, Cl. 73-23.
- Beard, Richard B., and H. J. Hartz, to Minneapolis-Honeywell Regulator Co. Ultrasonic level measuring apparatus. 2,960,678, 11-15-60, Cl. 340-1.
- Beard, Walter C., Jr., to The Risdon Mfg. Co. Metering type aerosol spray dispenser. 2,932,432, 4-12-60, Cl. 222-394.
- Beard, Walter C., Jr., to The Risdon Mfg. Co. Method and apparatus for dispensing dry powders. 2,959,325, 11-8-60, Cl. 222-1.
- Beard, William D., and L. Peters. Elevated discharge sump pump (cellar drainer). 2,930,325, 3-29-60, Cl. 103-87.
- Bearden, William G., R. P. Murphy, Jr., and P. P. Scott, Jr., to Pan American Petroleum Corp. Shutting off water in wells. 2,946,383, 7-26-60, Cl. 166-33.
- Beardslee, Gerald M. Dispenser reel rack. 2,957,644, 10-25-60, Cl. 242-139.
- Beardslee, Mark L., W. N. Frank, and J. L. Stone, to General Motors Corp. Method for sealing electrical switches or the like. 2,955,327, 10-11-60, Cl. 18-59.
- Beardsley, Kenneth D.: *See—*  
Vienneau, Jacob J., and Beardsley. 2,937,352.
- Bearer, Henry P., Jr., to Blaw-Knox Co. Program control for soot blowers. 2,948,013, 8-9-60, Cl. 15-316.
- Bearse, Arthur E.: *See—*  
Morin, Richard D., Fishel, and Bearse. 2,933,448.  
Morin, Richard D., Fishel, and Bearse. 2,963,429.
- Beas, Bernard: *See—*  
Gailliot, Paul, Baget, and Beas. 2,941,924.
- Beas, Urban J., to International MacGregor Organization. Hatch cover and means for mounting the same. 2,932,272, 4-12-60, Cl. 114-202.
- Beasley, George A., to Univis Lens Co. Ophthalmic lens. 2,923,201, 2-2-60, Cl. 88-54.
- Beasley, George A., to The Univis Lens Co. Method of making a multifocal ophthalmic lens. 2,936,674, 5-17-60, Cl. 88-54.
- Beasley, William A. Cautionary signal for automotive vehicles. 2,946,042, 7-19-60, Cl. 340-69.
- Beaton, Roy H., to United States of America, Atomic Energy Commission. Separation of plutonium values from other metal values in aqueous solutions by selective complexing and adsorption. 2,942,939, 6-28-60, Cl. 24-14.5.
- Beatrice Foods Co.: *See—*  
Bundus, Robert H., North, and Nozick. 2,959,192.
- Beattie, Earl L. Rotary case printer. 2,949,079, 8-16-60, Cl. 101-35.
- Beattie, Horace S.: *See—*  
Perkins, Norwood K., Toben, and Beattie. 2,937,455.



- Beattie, Horace S., and T. L. Buley, to International Business Machines Corp. Matrix storage accumulator. 2,932,451, 4-12-60, Cl. 235-174.
- Beattie, Horace S., R. E. Page, and R. L. Palmer, to International Business Machines Corp. Comparing device for employment in a record card collator or like machine. 2,939,110, 5-31-60, Cl. 340-149.
- Beattie, Horace S., T. L. Buley, and B. M. Muenzer, to International Business Machines Corp. Accounting machine. 2,946,504, 7-26-60, Cl. 235-61.9.
- Beattie, Horace S., R. E. Page, and R. L. Palmer, to International Business Machines Corp. Comparing device for employment in a record card collator or like machine. 2,966,660, 12-27-60, Cl. 340-172.5.
- Beattie, Malcolm B. Vehicle actuated controller for sound reproducer. 2,939,711, 6-7-60, Cl. 274-1.
- Beattie Mfg. Co., The: *See*—  
Patrick, James H. 2,932,325.
- Beattie, Robert W. Electric pipe lighters. 2,932,717, 4-12-60, Cl. 219-32.
- Beattie, William G.: *See*—  
Vogelfanger, Isaac J., Beattie, Klein, Smialowski, and Fischer. 2,940,451.
- Beatty, Allan W. Method of fabricating curved fittings. 2,957,229, 10-25-60, Cl. 29-157.
- Beatty Bros. Ltd.: *See*—  
Hughes, Griffith J. 2,937,517.
- Beatty, Charles G.: *See*—  
Kowalsky, Stephen, Daly, Jones, Osbon, and Beatty. 2,938,486.
- Beatty, Harold A., and M. E. Gluckstein, to Ethyl Corp. Igniter compositions. 2,935,839, 5-10-60, Cl. 60-35.4.
- Beatty, Robert W., to United States of America, Commerce. Adjustable waveguide termination. 2,922,963, 1-26-60, Cl. 333-22.
- Beauchaine, Alvah D. Center insert for abrasive wheels. 2,950,582, 8-30-60, Cl. 51-168.
- Beauchamp, Wilfred A.: *See*—  
Cook, Elmo L., and Beauchamp. 2,930,332.
- Beauchemin, William: *See*—  
Baltus, George T., and Beauchemin. 2,947,285.
- Beaulac, Raymond E.: *See*—  
Englehardt, Gustave O., and Beaulac. 2,944,835.
- Beaulieu, Delton C., to Kimberly-Clark Corp. Method and apparatus for stacking sheet material. 2,960,243, 11-15-60, Cl. 214-6.
- Beaumont, James O., and R. W. Weeks, to V. J. Pick. Apparatus for displaying tri-dimensional data. 2,936,207, 5-10-60, Cl. 346-29.
- Beaurline, Arthur W.: *See*—  
Hollingsworth, Edward E., and Beaurline. 2,933,027.
- Beaurline, Arthur W. Golf carts. 2,957,700, 10-25-60, Cl. 280-47.19.
- Beaurline Industries, Inc.: *See*—  
Hollingsworth, Edward E., and Beaurline. 2,933,027.
- Beautiful Bryans, Inc.: *See*—  
Cobert, Arthur J. 2,920,468.
- Beaven, Leslie W. Two and four cycle turbocyl high pressure turbine engine. 2,962,861, 12-6-60, Cl. 60-39.34.
- Beaven, Leslie W. Single or multiple row two cycle rotary radial engine with fuel injection and simplified ignition. 2,963,705, 12-6-60, Cl. 60-39.34.
- Beaver, David J., and P. J. Stoffel, to Monsanto Chemical Co. Halophenyl 3,4-dichlorocarbanilates. Re. 24,868, 9-13-60, Cl. 260-471.
- Beaver, David J., P. J. Stoffel, and R. S. Shumard, to Monsanto Chemical Co. Antiseptic soap compositions. 2,926,141, 2-23-60, Cl. 252-107.
- Beaver, David J., and P. J. Stoffel, to Monsanto Chemical Co. Nitroso-amines as anti-exposure agents in vulcanized butadiene-styrene rubber. 2,931,785, 4-5-60, Cl. 260-45.9.
- Beaver, David J., and R. O. Zerbe, to Monsanto Chemical Co. 4,4'-thénylidene bis phenols. 2,959,595, 11-8-60, Cl. 260-352.3.
- Beaver, David J., and P. J. Stoffel, to Monsanto Chemical Co. Dialkylaminoalkyl 3,4-dihalocarbanilates. 2,959,612, 11-8-60, Cl. 260-472.
- Beaver, David J., and P. J. Stoffel, to Monsanto Chemical Co. Antiseptic detergent compositions. 2,965,575, 12-20-60, Cl. 252-106.
- Beaver, Garth H.: *See*—  
Windover, Francis E., Beaver, and Anderson. 2,965,508.
- Windover, Francis E., Rodgers, and Beaver. 2,958,607.
- Beaver, Herman C. Standard cloth cutting machine blade. 2,937,442, 5-24-60, Cl. 30-351.
- Beaver Precision Products, Inc.: *See*—  
Morris, Walter H. 2,932,209.
- Morris, Walter H., and Anderson. 2,936,645.
- Sears, Richard E. 2,945,366.
- Sears, Richard E., and Morris. 2,930,252.
- Beaver Tool & Engineering Corp.: *See*—  
Nixon, Raymond F. 2,959,991.
- Beavers, Dorothy J.: *See*—  
Carroll, Burt H., Sagal, and Beavers. 2,944,902.
- Beavers, Dorothy J., C. V. Wilson, and J. L. Graham, to Eastman Kodak Co. Sensitization of photographic emulsions. 2,940,851, 6-14-60, Cl. 96-66.
- Beavers, Dorothy J., C. V. Wilson, and J. L. Graham, to Eastman Kodak Co. Sensitization of photographic emulsions. 2,940,855, 6-14-60, Cl. 96-66.
- Beavers, Dorothy J., C. V. Wilson, and J. L. Graham, to Eastman Kodak Co. Sensitization of photographic emulsions. 2,944,898, 7-12-60, Cl. 96-66.
- Beavers, Ellington M.: *See*—  
Rowland, Stanley P., and Beavers. 2,963,490.
- Beaverson, Wayne A., to Electro-Voice, Inc. Pressure gradient noise canceling microphone. 2,921,993, 1-19-60, Cl. 179-121.
- Beavis, Grace M.: *See*—  
Beavis, Hugh H. 2,923,951.
- Beavis, Hugh H., deceased; by G. M. Beavis, Administratrix, to Ridge Tool Co. Drive release means for pipe threaders. 2,923,951, 2-9-60, Cl. 10-105.
- Beavon, David K., to Texaco Inc. Hydrocarbon conversion process with the recycling of an enriched hydrogen stream. 2,920,033, 1-5-60, Cl. 208-134.
- Beavon, David K., to Texaco Inc. Solvent deasphalting. 2,943,050, 6-28-60, Cl. 208-309.
- Beavon, David K., to Texaco Inc. Desulfurization of petroleum hydrocarbons employing an arsenic-containing catalyst. 2,954,339, 9-27-60, Cl. 208-216.
- Beavon, David K., R. D. Kent, and E. D. Wurster, to Texaco Inc. Vapor phase isomerization process for normal butane. 2,935,546, 5-3-60, Cl. 260-683.75.
- Beber, Oral L.: *See*—  
Carr, Norman L., and Beber. 2,965,561.
- Beber, Oral L., and N. L. Carr, to The Pure Oil Co. Process and catalyst for the isomerization of light paraffin. 2,939,897, 6-7-60, Cl. 260-683.68.
- Bebie, Edwin W., to International Paper Co. Pallet and palletized package. 2,930,481, 3-29-60, Cl. 206-60.
- Bebow, Harvey H. Self-propelled forage harvester with common conveying means for loading and unloading thereof. 2,926,477, 3-1-60, Cl. 56-16.
- Beby, Bedding Corp.: *See*—  
Beby, Peter P. 2,962,729.
- Laemmle, David C., and Hawryluk. 2,937,382.
- Beby, Peter P., to Beby Bedding Corp. Convertible couch bed. 2,962,729, 12-6-60, Cl. 5-13.
- Beccio, Giuseppe, to Ing. C. Olivetti & C., S.p.A. Variable spacing mechanism for typewriters. 2,945,578, 7-19-60, Cl. 197-84.
- Becher, Ernest F., and R. C. Howell, Jr., to S. A. Cook, & Co. Spring foundation for davenport and the like. 2,949,156, 8-16-60, Cl. 155-179.
- Bechik, Michael, to Bechik Products Inc. Mattress handle assembly. 2,961,669, 11-29-60, Cl. 5-345.
- Bechik Products Inc.: *See*—  
Bechik, Michael. 2,961,669.
- Bechstein, Herbert, G. Sokol, A. Grozinger, and F. Heydenbluth, to R. Bosch, G.m.b.H. Commutators and process for manufacturing the same. 2,956,190, 10-11-60, Cl. 310-235.
- Bechtel, Charles B. Fault location in electrical cables. 2,931,975, 4-5-60, Cl. 324-52.
- Bechtel, Daniel L., to General Dynamics Corp. Bearing construction. 2,919,942, 1-5-60, Cl. 287-96.
- Bechtel, John H.: *See*—  
James, Walter R., and Bechtel. 2,956,532.
- Bechtol, Lavon D., to Baxter Laboratories, Inc. Method of treating hypercholesterolemia with d-thyroxine. 2,925,364, 2-16-60, Cl. 167-55.
- Bechtold, Edwin W., to Mergenthaler Linotype Co. Character presentation scheme for phototypographical machine. 2,942,538, 6-28-60, Cl. 95-4.5.
- Bechtold, Edwin W., M. Kapilow, and A. J. Weinstein, to The Ednalite Optical Co., Inc. View finder for zoom lens. 2,945,415, 7-19-60, Cl. 88-1.5.
- Bechtold, Edwin W., M. Kapilow, and A. J. Weinstein, to The Ednalite Optical Co., Inc. Variable focal length lens system for movie cameras. 2,945,419, 7-19-60, Cl. 88-57.
- Bechtold, Max F., to E. I. du Pont de Nemours and Co. Opaque porous pressure-clarifiable films of addition polymers. 2,957,791, 10-25-60, Cl. 154-46.
- Beck, Arnold H. W., to International Standard Electric Corp. Electron velocity modulation tubes. 2,939,991, 6-7-60, Cl. 315-3.
- Beck, Basil D., Sr., and A. B. Swain, to Owens-Illinois Glass Co. Manufacture of colored glass by addition of colorant to flint glass in a feeder. 2,923,635, 2-2-60, Cl. 106-52.
- Beck, Cecil I.: *See*—  
Shumaker, Lawrence E., and Beck. 2,952,324.
- Shumaker, Lawrence E., and Beck. 2,955,369.
- Beck, Cecil I., to Eversman Mfg. Co. Earth scrapers and movers. 2,941,318, 6-21-60, Cl. 37-126.
- Beck, Edward S., to Enterprise Paint Mfg. Co. Coating composition comprising methyl methacrylate copolymer and polymerized alpha-methyl styrene and aluminum structure coated therewith. 2,952,655, 9-13-60, Cl. 260-33.6.
- Beck, Edward W. Buck lure. 2,959,354, 11-8-60, Cl. 239-36.
- Beck, Erich, and H. Bode, to Henschel-Werke Gesellschaft mit beschränkter Haftung. Machine for mixing and comminuting materials. 2,945,634, 7-19-60, Cl. 241-98.
- Beck, Francis M., and J. R. Burch, to General Electric Co. Plastic-supported terminal assembly. 2,923,914, 2-2-60, Cl. 339-220.
- Beck, Geoffrey E., and F. A. Onians, to Slacconi's Wireless Telegraph Co. Ltd. Selective directional slotted wave guide antenna. 2,932,823, 4-12-60, Cl. 343-771.



- Beck, Hans, and J. Wahlandt, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Shut-off nozzle for injection molding of thermoplastic materials. 2,940,123, 6-14-60, Cl. 18-30.
- Beck, Harold L., and H. E. Boettger, to General Motors Corp. Patch element for tubeless tires and the like. 2,956,606, 10-18-60, Cl. 152-370.
- Beck, Henry C.: *See*—
- Berman, Alan, Beck, and Imperato. 2,929,324.
- Beck, Henry C., to Sun Oil Co. Process for decolorizing lube oil and wax fractions with granular solids. 2,961,396, 11-22-60, Cl. 208-26.
- Beck, Ivan L.: *See*—
- Samuelson, Le Roy, and Beck. 2,958,556.
- Beck, James T. Propagation caps. 2,939,248, 6-7-60, Cl. 47-37.
- Beck, Kenneth H., to Minneapolis-Honeywell Regulator Co. Electrical control apparatus. 2,947,875, 8-2-60, Cl. 250-214.
- Beck, Kenneth H., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,947,916, 8-2-60, Cl. 317-148.5.
- Beck, Kenneth O., to Titanium Metals Corp. of America. Titanium anodizing process. 2,949,411, 8-16-60, Cl. 204-56.
- Beck, Koller & Co. (England) Ltd.: *See*—
- Swann, Geoffrey, and Evans. 2,952,647.
- Swann, Geoffrey, and Evans. 2,952,648.
- Swann, Geoffrey, and Evans. 2,956,968.
- Beck, Loren E., and J. A. Wanamaker, to T. E. Evans. Winch mounting for tiltable truck beds. 2,963,186, 12-6-60, Cl. 214-505.
- Beck, Louis. Electrostatic spray painting method and apparatus. 2,933,414, 4-19-60, Cl. 117-93.
- Beck, Olga. Self tensioning detachable luggage caster rollers. 2,964,329, 12-13-60, Cl. 280-79.2.
- Beck, Ralph F., and J. W. Qualman, to General Motors Corp. Accessory drive transmission. 2,964,959, 12-20-60, Cl. 74-336.
- Beck, Robert M., J. A. Beck, Jr., G. E. Hagen, C. R. Russell, and C. R. Williams, to Northrop Corp. Digital differential analyzer. 2,923,470, 2-2-60, Cl. 235-152.
- Beck, Robert W., to Jersey Production Research Co. Percussive rotary rock drilling tool. 2,942,851, 6-28-60, Cl. 255-44.
- Beck, Robert W., to Jersey Production Research Co. Method and apparatus for removing marine drilling rigs. 2,959,015, 11-8-60, Cl. 61-46.5.
- Beck, Roland D., to Minneapolis-Honeywell Regulator Co. Gas fueled pilot burner. 2,933,132, 4-19-60, Cl. 158-115.
- Beck, Rudolf H. W. Kretsch, and R. W. Stewart, to Consolidated Controls Corp. High temperature control apparatus. 2,924,388, 2-9-60, Cl. 236-99.
- Beck, Samuel J., to C. W. Fairchild, trustee. Universal skate. 2,945,454, 7-19-60, Cl. 104-259.
- Beck, Samuel J., to C. W. Fairchild, trustee. Skate for railroad cars. 2,945,455, 7-19-60, Cl. 104-259.
- Beck, Walter: *See*—
- Jorn, Raoul, and Beck. 2,923,570.
- Beck, Walter, to Montgomery Elevator Co. Hydraulic elevator leveling system. 2,944,401, 7-12-60, Cl. 60-52.
- Beck, Warren R.: *See*—
- Palmquist, Philip V., and Beck. 2,963,378.
- Beck, Warren R., and G. C. Hann, to Minnesota Mining & Mfg. Co. Ion exchange glass and use. 2,943,059, 6-28-60, Cl. 252-179.
- Beck, William S. Overhead garage door assemblies. 2,923,981, 2-9-60, Cl. 20-16.
- Becka, Paul N., to Tru-Fit Screw Products Corp. Switch. 2,921,164, 1-12-60, Cl. 200-87.
- Beckadolph, Richard, to Continental Gummi-Werke Aktiengesellschaft. Pneumatic tire for vehicles and method of making same. 2,925,623, 2-23-60, Cl. 18-59.
- Becke, Friedrich, H. Sperber, H. Stummeyer, and H. Adolphi, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Insecticidal composition comprising pyrethrins and octachlorodipropylether. 2,929,760, 3-22-60, Cl. 167-24.
- Becke, Friedrich, and H. Bittermann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of benzylacetophenones. 2,961,468, 11-22-60, Cl. 260-590.
- Beckenbach, Karl. Apparatus for charging kilns. 2,950,019, 8-23-60, Cl. 214-18.
- Becker, Arthur C. Bread dusting mixture and method. 2,949,365, 8-16-60, Cl. 99-118.
- Becker, Carl: *See*—
- Wegmann, Jacques, and Becker. 2,927,035.
- Becker, Carl H., to Western Geophysical Co. of America. Method of geophysical exploration. 2,925,138, 2-16-60, Cl. 181-5.
- Becker, Carl H., to Trionics Corp. Method and apparatus for magnetic recording and reproducing. 2,952,503, 9-13-60, Cl. 346-74.
- Becker, Charles W.: *See*—
- Mod, William A., Becker, and Carlson. 2,926,995.
- Becker, Erhard: *See*—
- Awender, Hans, and Becker. 2,937,293.
- Becker, Erwin W. Process for separation of vapor phase mixtures, especially of isotopes. 2,951,554, 9-6-60, Cl. 183-115.
- Becker, Erwin W. A. Process for the recovery of hydrogen which has been enriched in deuterium. 2,927,003, 3-1-60, Cl. 23-211.
- Becker, Eugene C. H., and V. M. D'Atre, to General Electric Co. Vibration mount. 2,932,474, 4-12-60, Cl. 248-24.
- Becker, Floyd K., to Bell Telephone Laboratories Inc. Electrotographic transmitter. 2,925,467, 2-16-60, Cl. 178-18.
- Becker, Frank E., and L. E. Palmer, to International Business Machines Corp. Single element printing mechanism. 2,926,768, 3-1-60, Cl. 197-52.
- Becker, George J.: *See*—
- Deichmann, Walter, and Becker. 2,921,786.
- Becker, Hal C., to Precon Process and Equipment Corp. Actuating system. 2,953,689, 9-20-60, Cl. 250-209.
- Becker, Harold W. Fuel delivery information device. 2,930,155, 3-29-60, Cl. 40-2.
- Becker, Heinz: *See*—
- Gaudlitz, Paul. 2,963,735.
- Becker, Henry. Pocket hand stamp. 2,920,559, 1-12-60, Cl. 101-405.
- Becker, Johannes, and B. S. Blaisse, to N. V. Optische Industrie "De Oude Delft." Optical systems. 2,949,820, 8-23-60, Cl. 88-57.
- Becker, John E. Reversible fluid couplings. 2,932,950, 4-19-60, Cl. 60-54.
- Becker, Louie E.: *See*—
- Becker, Rudolph R. and L. E. 2,941,507.
- Becker, Lyman. Flush valve control for plumbing fixtures. 2,947,323, 8-2-60, Cl. 137-624.14.
- Becker, Maximilian C. Demagnetizers and methods for demagnetizing. 2,942,162, 6-21-60, Cl. 317-157.5.
- Becker, Mitchell, to Scientific Design Co., Inc. Preparation of maleic anhydride by azeotropic distillation of maleic acid. 2,942,006, 6-21-60, Cl. 260-346.8.
- Becker, Otto A. Selectively power-operated drawer structure. 2,946,637, 7-26-60, Cl. 312-223.
- Becker, Philip D., to United-Carr Fastener Corp. Sheet metal lock nut with deformable flange and sealing material. 2,945,524, 7-19-60, Cl. 151-38.
- Becker, Robert E., to Logansport Machine Co., Inc. Cylindrical cushion bushing. 2,960,068, 11-15-60, Cl. 121-38.
- Becker, Ronald K.: *See*—
- Harris, Joseph E., Jr., and Becker. 2,944,139.
- Becker, Rudolph R. and L. E. Animal head control harness. 2,941,507, 6-21-60, Cl. 119-96.
- Becker, Ruth E.: *See*—
- Eimmerman, Gustave F. 2,943,856.
- Becker, Sylvan J., to Borg-Warner Corp. Thermostatically controlled clutch. 2,950,796, 8-30-60, Cl. 192-82.
- Becker, Wayne M., to Burroughs Mfg. Corp. Combination dish rack and drainboard. 2,954,875, 10-4-60, Cl. 211-41.
- Becker, William A., and H. M. Wendling, to Rolite Mfg., Inc. Metal window and frame structure. 2,949,985, 8-23-60, Cl. 189-75.
- Becker-Boost, Erich H., and H. Kronacher, to Dr. C. Otto & Comp. G.m.b.H. Process for recovering hydrocyanic acid from gas mixtures containing the same. 2,946,402, 7-26-60, Cl. 183-114.2.
- Beckerich, John F., and K. W. Hannah, to Collins Radio Co. Aircraft proximity warning system with incorporated testing system. 2,939,135, 5-31-60, Cl. 343-14.
- Beckerman, M., & Sons, Inc.: *See*—
- Sillman, Louis, and Hacker. 2,964,766.
- Becket, Frederick J., H. Bury, and R. Smith, to The General Electric Co. Ltd. Thermoelectric cooling units. 2,932,953, 4-19-60, Cl. 62-3.
- Beckett, Frederick R.: *See*—
- Robinson, Frederick C., and Beckett. 2,958,117.
- Beckett, John C.: *See*—
- Hicks, William W., and Beckett. 2,928,941.
- Hicks, William W., and Beckett. 2,928,942.
- Beckham, Lee: *See*—
- Rucker, Benjamin C. 2,935,995.
- Beckham, Virgil E. Trailer axle with pivot tilt and spring. 2,937,776, 5-24-60, Cl. 214-505.
- Beckjord, William E. Hand operated actuator for a drive shaft to change the pitch of a reversible blade propeller. 2,939,334, 6-7-60, Cl. 74-491.
- Beckman, George, to Globe Roofing Products Co., Inc. Metallic surfaced siding and roofing material. 2,961,804, 11-29-60, Cl. 50-238.
- Beckman, George, and J. Robert, to Globe Siding Products Co. Metallic surfaced insulating structural materials for siding and roofing. Re. 2,828, 5-24-60, Cl. 20-5.
- Beckman, George H., and G. B. White, to Globe Roofing Products Co., Inc. Wrapping machine. 2,925,696, 2-23-60, Cl. 53-58.
- Beckman Instruments, Inc.: *See*—
- Barter, Le Roy D., and Gilson. 2,963,692.
- Boff, Albert F. 2,930,988.
- Engelhardt, Walter D. 2,956,754.
- Gordon, James F. 2,921,286.
- Hinrichs, Karl. 2,963,595.
- Liston, Max D. 2,924,713.
- Noyce, Robert N. 2,929,753.
- Place, Thomas M., Sr., and T. M. Place, Jr. 2,950,995.
- Place, Thomas M., Sr., and T. M. Place, Jr. 2,950,996.
- Prill, William K., and Marason. 2,952,480.
- Rohrer, David A. 2,925,370.
- Schendel, Herbert M. 2,931,002.
- Schendel, Herbert M. 2,934,732.
- Thayer, Louis C., and Czuba. 2,943,028.
- Thayer, Louis C., Czuba, and Greene. 2,950,176.
- Thayer, Louis C., and Greene. 2,949,765.
- Thayer, Louis C., and Haagen-Smit. 2,943,036.
- Ward, William M., and Ashley. 2,948,185.



- Beckman, Paul, to High Temperature Instruments Engineering Corp. Strain gage device and method of applying same. 2,927,878, 3-8-60, Cl. 154-90.
- Beckman, Paul. Sensing means. 2,948,872, 8-9-60, Cl. 338-3.
- Beckman, Richard H.: *See*—  
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- Beckman, William R.: *See*—  
Crooks, Charles E., and Beckman. 2,928,094.
- Beckmann, Heinrich. Process and apparatus for conveying finely divided material. 2,924,489, 2-9-60, Cl. 302-53.
- Beckner, Bernard E., deceased; by Security First National Bank of Los Angeles, executor, and J. Irving, to Thompson Ramo Wooldridge Inc. Apparatus for magnetically recording high-frequency signals by means of a rotating transducer means. 2,964,594, 12-13-60, Cl. 179-100.2.
- Becksted, Vernon E., to Austin Powder Co. Fuse connector. 2,952,206, 9-13-60, Cl. 102-27.
- Becksted, Vernon E. Adjustable rolling friction torque clutch. 2,956,656, 10-18-60, Cl. 192-74.
- Beckstrom, August W. Sliding door unit. 2,929,115, 3-22-60, Cl. 20-19.
- Beckstrom, Carl V.: *See*—  
Silver, Walter H., and Beckstrom. 2,935,141.
- Becktel, Jack M.: *See*—  
Steiner, Charles S., Fritz, Becktel, and Kloster. 2,931,780.
- Beckwith-Arden Inc.: *See*—  
Lennon, Eric W. 2,959,510.  
Morse, Ronald W. 2,953,880.
- Beckwith, John R., to Washington Gas Light Co. Automatic zeroing controls for meter test devices. 2,934,939, 5-3-60, Cl. 73-3.
- Beckwith, Sterling, to Allis-Chalmers Mfg. Co. Supercharged dynamoelectric machine with cooling gas in contact with conductors. 2,920,218, 1-5-60, Cl. 310-55.
- Beckwith, Sterling, to Allis-Chalmers Mfg. Co. Dynamoelectric machine with gas cooled rotor and stator conductors. 2,920,219, 1-5-60, Cl. 310-55.
- Beckwith, Sterling, to Constock Liquid Methane Corp. Housing for cold boiling liquids. 2,937,780, 5-24-60, Cl. 220-9.
- Becton, Dickinson and Co.: *See*—  
Adams, John Q., and Howe. 2,940,445.  
Bednarz, Edward W. 2,922,419.  
Hein, George N., Jr. 2,940,446.  
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- Bedard, Roger E.: *See*—  
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- Beddoes, Michael P.: *See*—  
Cherry, Edward C., and Beddoes. 2,965,709.
- Beddow, Raymond R. Funnel and clip assembly. 2,924,253, 2-9-60, Cl. 141-337.
- Bede Products Corp.: *See*—  
Nord, Eric T., and Rosen. 2,936,959.
- Bedenbaugh, Calvin C.: *See*—  
Eisenhauer, Leigh E., and Bedenbaugh. 2,934,592.
- Bederman, Nathan B., and N. M. Jones, to Arcole Midwest Corp. Subgrade planer. 2,957,254, 10-25-60, Cl. 37-108.
- Bederman, Nathan B., and N. M. Jones, to Arcole Midwest Corp. Concrete road finishing machine. 2,957,396, 10-25-60, Cl. 94-45.
- Bedford, Howard E., and T. A. Henshaw, to The Pyrene Co. Ltd. Foam producing apparatus. 2,934,149, 4-26-60, Cl. 169-15.
- Bedford, James R., Jr. Tire pressure maintaining means. 2,939,504, 6-7-60, Cl. 152-418.
- Bedford, William A., Jr., to United-Carr Fastener Corp. Fastening device. 2,950,937, 8-30-60, Cl. 287-126.
- Bedford, William A., Jr., to United-Carr Fastener Corp. Fastening device. 2,955,690, 10-11-60, Cl. 189-88.
- Bedford, William A., Jr., to United-Carr Fastener Corp. Electrical connector. 2,965,812, 12-20-60, Cl. 317-101.
- Bedker, Leo W. Slide. 2,948,160, 8-9-60, Cl. 74-110.
- Bednars, Charles: *See*—  
Smith, Martin R., and Bednars. 2,929,773.
- Bednarz, Edward W., to Becton, Dickinson and Co. Hypodermic syringe assembly. 2,922,419, 1-26-60, Cl. 128-218.
- Bednarz, Felix L., to Curtis Laboratories, Inc. Optical scanning system. 2,928,952, 3-15-60, Cl. 250-216.
- Bedocs, Michael F.: *See*—  
Bauerlein, Carl C., Reddi, and Bedocs. 2,923,134.
- Bedoit, William C., Jr., to Jefferson Chemical Co., Inc. Preparation of high molecular weight polyethylene glycols. 2,923,690, 2-2-60, Cl. 260-2.
- Bedrosian, Samuel D., and F. P. Simmons, to Burroughs Corp. Great circle and celestial data computer. 2,936,120, 5-10-60, Cl. 235-188.
- Bee, Carl R.: *See*—  
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- Beebe Bros.: *See*—  
Beebe, Dan D. 2,941,627.
- Beebe, Clarence W.: *See*—  
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Luvisi, Fred P., Happich, Hannigan, and Beebe. 2,942,930.
- Beebe, Dan D., to Beebe Bros. Boat trailer winch. 2,941,627, 6-21-60, Cl. 188-82.7.
- Beebe, Emmett R., to S & C Electric Co. Material handling means. 2,922,459, 1-26-60, Cl. 153-21.
- Beebe, Herbert R., to Toy Ideas, Inc. Doll with novel arm movement. 2,942,377, 6-28-60, Cl. 46-119.
- Beebe, John N., to Raytheon Co. Electrical reactance devices. 2,963,680, 12-6-60, Cl. 340-1.
- Beebe, John N., and R. E. Kirkland, to Raytheon Co. Velocity-determining system. 2,964,729, 12-13-60, Cl. 340-3.
- Beebe, Leslie W. Pedal actuated mixing valve. 2,929,403, 3-22-60, Cl. 137-607.
- Beebe, Stanley J., to G. B. Sparrow. Garbage can cover. 2,939,321, 11-8-60, Cl. 220-36.
- Beebe, Wayne M., to Task Corp. Swivel mounted aircraft instruments. 2,936,617, 5-17-60, Cl. 73-178.
- Beech Aircraft Corp.: *See*—  
Class, Charles R., Spero, and McIntosh. 2,937,076.  
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- Beech, Austin S., to Foundry Equipment Ltd. Apparatus for filling and ramming foundry flasks. 2,944,308, 7-12-60, Cl. 22-36.
- Beecham Research Laboratories Ltd.: *See*—  
Doyle, Frank E., Nayler, and Rolinson. 2,941,995.  
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- Beecher, Norman, to National Research Corp. Production of metal. 2,958,719, 11-1-60, Cl. 13-31.
- Beecher, Norman, M. P. Hnilicka, Jr., P. W. Patton, and A. G. Walsh, to National Research Corp. High vacuum device. 2,939,316, 6-7-60, Cl. 73-116.
- Beecher, Norman, and M. P. Hnilicka, Jr., to National Research Corp. Arc furnace for the production of metals. 2,960,557, 11-15-60, Cl. 13-31.
- Beech-Nut Life Savers, Inc.: *See*—  
Martin, William T. 2,935,217.  
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- Beede, Arnold H., and A. P. Cawl, to Electrolux Corp. Combination of vacuum cleaner and cordwinder. 2,965,916, 12-27-60, Cl. 15-323.
- Beeh, Roland C., to Daystrom, Inc. Non-contacting thickness gauges. 2,963,585, 12-6-60, Cl. 250-83.3.
- Beehler, Vernon D.: *See*—  
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- Beek, Joseph A., Jr.: *See*—  
Beck, Robert M., Beek, Hagen, Russell, and Williams. 2,923,470.
- Beek, Joseph A., Jr., and G. E. Hagen, to Alwac International Inc. Computer data control system. 2,939,634, 6-7-60, Cl. 235-157.
- Beekman, Robert L. Magnetic holder. 2,939,671, 6-7-60, Cl. 248-360.
- Beekman, Stewart M., and J. E. Garizio, to Reheis Co., Inc. Aluminum protein antacid and process of making. 2,945,783, 7-19-60, Cl. 167-55.
- Beekman, Stewart M., and J. F. Cipriano, 1/2 to Reheis Co., Inc., and 1/2 to Adelphi Research & Mfg. Co. Surface-sizing of fibrous void-containing sheets with hydrous zirconium compounds. 2,964,403, 12-13-60, Cl. 96-75.
- Beeley, Howard K. Seals for gas carrying pipe lines. 2,931,671, 4-5-60, Cl. 285-95.
- Beelitz, Guenter. Apparatus for determining the width of a metal strip. 2,931,917, 4-5-60, Cl. 250-219.
- Beem, Donald W., R. L. Carter, and F. H. Wallace, to North American Aviation, Inc. Personnel escape equipment. 2,940,701, 6-14-60, Cl. 244-122.
- Beeman, Archie W., and C. D. New. Power operated spinning devices for pipe. 2,928,301, 3-15-60, Cl. 81-53.
- Beemer, Paul K.: *See*—  
Bowen, John T., Olson, Beemer, and Shea. 2,961,783.
- Beemer, Paul K., P. Z. Anderson, and H. W. Burney, to Preco Inc. Car icing machine. 2,919,560, 1-5-60, Cl. 62-321.
- Beemer, Paul K., and R. P. Shea, to Preco Inc. Grading machine blade support. 2,941,319, 6-21-60, Cl. 37-156.
- Been, Jerome L., and M. M. Grover, to Rubber and Asbestos Corp. Structural adhesive compositions. 2,920,990, 1-12-60, Cl. 154-43.
- Been, Paul, to Allis-Chalmers Mfg. Co. Method of making turbine diaphragm element having a hub and shroud formed from a single piece. 2,961,748, 11-29-60, Cl. 29-156.8.
- Beeninga, Dale E.: *See*—  
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- Beer, Jack. Perpetual calendar. 2,952,932, 9-20-60, Cl. 40-113.
- Beer, Ludwig A., to Monsanto Chemical Co. Process for preparing porous films of vinyl chloride polymers. 2,946,095, 7-26-60, Cl. 18-57.
- Beer, Ludwig A., to Monsanto Chemical Co. Preparation of porous vinyl chloride polymer films. 2,960,728, 11-22-60, Cl. 18-57.
- Beer, Thomas: *See*—  
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- Beer, Walter A.: *See*—  
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- Beerbower, Alan: *See*—  
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- Beerbower, Alan, R. O'Halloran, and H. G. Vesterdal, to Esso Research and Engineering Co. Process for making a lithium-calcium base grease. 2,929,781, 3-22-60, Cl. 252-40.
- Beerbower, Alan, and W. H. Meyer, to Esso Research and Engineering Co. Continuous grease manufacture using coated free-flowing alkali metal saponifying agent. 2,946,751, 7-26-60, Cl. 252-40.
- Beerbower, Alan, and W. H. King, Jr., to Esso Research and Engineering Co. Radioactive tracer. 2,955,088, 10-4-60, Cl. 252-301.1.
- Beerend, Ray F. Method for packaging sausage patties. 2,942,987, 6-28-60, Cl. 99-174.
- Beerli, George A., to Congoleum-Nairn Inc. Rug packaging apparatus. 2,961,182, 11-22-60, Cl. 242-66.
- Beerli, Karl, to Spindel-Motoren- und Maschinenfabrik A.G. Bearing arrangement on a vertical shaft. 2,942,919, 6-28-60, Cl. 308-187.
- Beermann, Claus: See—
- Clauss, Karl, and Beermann. 2,951,085.
- Beernink, Gerardus J.: See—
- Van Heel, Abraham C. S., Beernink, and Raterink. 2,947,219.
- Van Heel, Abraham C. S., Beernink, and Raterink. 2,964,997.
- Beers, George L., to Radio Corp. of America. Image viewing apparatus. 2,942,254, 6-21-60, Cl. 340-367.
- Beers, Kenneth H.: See—
- Bower, John L., and Beers. 2,945,527.
- Beers, Robert T., to Chicago Pneumatic Tool Co. Socket retainer for rotary power tools. 2,954,994, 10-4-60, Cl. 287-119.
- Beers, Roland F., Jr. Submerged fermentation process for increasing yields of micrococcus lysodeikticus. 2,966,445, 12-27-60, Cl. 195-102.
- Beesch, Otto, to R. Bosch, G.m.b.H. Center electrode structure for spark plugs and process for making the same. 2,955,222, 10-4-60, Cl. 313-141.
- Beese, Norman C., to Westinghouse Electric Corp. Phosphor and method. 2,951,767, 9-6-60, Cl. 117-33.5.
- Beese, Norman C., to Westinghouse Electric Corp. Lamp and mount. 2,959,702, 11-8-60, Cl. 313-109.
- Beesley, John H., to The General Electric Co. Ltd. Electric circuit arrangements for generating trains of electric pulses. 2,953,749, 9-20-60, Cl. 328-95.
- Beeson, Harry E., to Detroit, Toledo and Ironton Railroad Co. Lockout mechanism for scale. 2,920,881, 1-12-60, Cl. 265-71.
- Beeston, John T., Jr., to Frontier Development Co. Rotary lawn mower blade. 2,924,059, 2-9-60, Cl. 56-295.
- Beeston, John T., Jr., to Frontier Development Co. Rotary mower blade. 2,932,147, 4-12-60, Cl. 56-295.
- Beets, Muus G. J.: See—
- Heeringa, Lambertus G., and Beets. 2,944,077.
- Beets, Muus G. J., and H. Van Essen, to Polak & Schwarz Internationaal N.V. Process of preparing macrocyclic lactones. 2,936,310, 5-10-60, Cl. 260-340.2.
- Beets, Muus G. J., and H. Van Essen, to Polak & Schwarz Internationaal N.V. Preparation of pseudo isomethyl ionone. 2,957,027, 10-18-60, Cl. 260-593.
- Beez, Jacques R., to Allum, S.A., societe anonyme. Apparatus for forming cartons or containers. 2,925,758, 2-23-60, Cl. 93-51.
- Beever, Jack, and W. Goodman, to Jerrold Electronics Corp. Tunable device for extracting radio frequency energy from a power line. 2,946,883, 7-26-60, Cl. 250-16.
- Befia, Fabio: See—
- Biedermann, Walter, Belf, and Schetty. 2,933,488.
- Biedermann, Walter, Belfa, and Schetty. 2,933,489.
- Biedermann, Walter, Belfa, and Schetty. 2,933,490.
- Be-Ge Mfg. Co.: See—
- White, John A., Jr. 2,925,802.
- Begell, William. Accessory for coffee percolators. 2,953,985, 9-27-60, Cl. 99-289.
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- Pearson, Edward K. 2,936,189.
- Beggs, Donald: See—
- De Vaney, Fred D., and Beggs. 2,946,469.
- Beggs, James E.: See—
- Grattidge, Walter, and Beggs. 2,961,352.
- Beggs, John C., to United Aircraft Corp. Emergency temperature control means for aircraft air conditioning system. 2,959,028, 11-8-60, Cl. 62-172.
- Beggs, John C., H. W. Carrier, and T. P. Farkas, to United Aircraft Corp. Aircraft air conditioning system. 2,948,475, 8-9-60, Cl. 236-13.
- Beggs, John C., and F. M. Rosenbush, to United Aircraft Corp. Compressor surge prevention and drive motor cooling system. 2,963,878, 12-13-60, Cl. 62-196.
- Begian, Mehrin, to Holley Carburetor Co. Ignition distributors. 2,941,049, 6-14-60, Cl. 200-31.
- Begovich, Nicholas A., H. Epstein, and R. H. Reed, to Hughes Aircraft Co. Instrument approach and landing system for aircraft. 2,952,845, 9-13-60, Cl. 343-5.
- Béguin, Pierre, to Revue Fabriques d'Horlogerie Thommen S.A. Selfwinding watches. 2,942,486, 6-28-60, Cl. 74-125.
- Begun, Semi J., to Cleviste Corp. Multichannel magnetic reproducing apparatus. 2,958,849, 11-1-60, Cl. 340-172.5.
- Begun, Semi J., G. P. Chan, and A. P. Dank, to Cleviste Corp. Multichannel magnetic recording. 2,938,195, 5-24-60, Cl. 340-174.
- Beha, Walter: See—
- Rott, Horst-Gunther, Gruber, Beha, and Ankert. 2,936,930.
- Behl, Dan. Device for sportsmen. 2,959,275, 11-8-60, Cl. 206-16.
- Behles, Michael M.: See—
- Clark, James B., Jr., Behles, and Mackenzie. 2,919,670.
- Behling, Milton H. Tooth brush holder. 2,942,925, 6-28-60, Cl. 312-207.
- Behn, Leonard A.: See—
- Conley, Weld E., Kopp, Olson, and Behn. 2,924,271.
- Behnisch, Robert: See—
- Worffel, Udo, Behnisch, and Mietzsch. 2,921,066.
- Behnke, Albert R. Regulator for automotive electrical systems. 2,923,793, 2-2-60, Cl. 200-95.
- Behnke, Max W. Lock for bag ropes. 2,953,010, 9-20-60, Cl. 70-65.
- Behr, Siegfried, and M. M. Hirtenstein. Lady's hair comb. 2,929,386, 3-22-60, Cl. 132-156.
- Behrendt, John G. Automobile hat rack. 2,923,413, 2-2-60, Cl. 211-31.
- Behrendt, John G. Hat rack. 2,947,420, 8-2-60, Cl. 211-31.
- Behrens, Alfred, and G. Jaekel, to The Babcock & Wilcox Co. Air heater seal. 2,965,358, 12-20-60, Cl. 257-230.
- Behrens, Emerson G. Head rest. 2,958,373, 11-1-60, Cl. 155-174.
- Behrens, Hugh C., and J. T. Vick, Jr., to The Dow Chemical Co. Direct current measuring apparatus. 2,952,266, 9-13-60, Cl. 137-85.
- Behrens, Robert W.: See—
- Costine, Raymond L., and Behrens. 2,945,818.
- Behrent, Lewis E.: See—
- Selby, Myron C., and Behrent. 2,933,684.
- Behrmann, Herwart, and F. Kudritzki, to Askania-Werke A.G. Position indicator. 2,930,668, 3-29-60, Cl. 345-8.
- Behymer, Oral C.: See—
- Bloomsburg, Harry E., Behymer, and Robbins. 2,946,745.
- Beidler, Edward A.: See—
- Yntema, Leonard F., Beidler, and Campbell. 2,920,006.
- Beierlein, Karl. Tamping implement. 2,934,026, 4-26-60, Cl. 104-13.
- Beiersdorf, P., & Co. A.G.: See—
- Fendius, Kurt, and Riecke. 2,937,956.
- Beigay, Jack M.: See—
- Bongartz, Roy C., and Beigay. 2,957,812.
- Beighley, Clair M., to United States of America, Air Force. Fluid cooled homogeneous ceramic rocket motor wall structure. 2,956,399, 10-18-60, Cl. 60-35.6.
- Beike, Hans, and G. Eberich, to Knapsack-Griesheim Aktiengesellschaft. Process and apparatus for comminuting solid viscous substances, with a liquefied gas as a precooling agent. 2,919,862, 1-5-60, Cl. 241-23.
- Beiler, Clara C.: See—
- Steiner, Robert L., and Beiler. 2,965,383.
- Beindorff, Arthur B.: See—
- De Witt, Hobson D., and Beindorff. 2,956,974.
- Beindorff, Arthur B., and H. D. De Witt, to The Chemstrand Corp. Solutions of polyesters in substituted phosphoric amides and process for making same. 2,952,652, 9-13-60, Cl. 260-30.6.
- Beinfest, Sidney, P. Adams, and J. Halpern, to Berkeley Chemical Corp. Preparation of diol dicarbamates at sub-atmospheric pressure. 2,934,559, 4-26-60, Cl. 260-482.
- Beintema, Chester D., to Hughes Aircraft Co. Color-shift direct-view half-tone storage tube. 2,962,623, 11-29-60, Cl. 315-12.
- Beissbarth, Hermann H. Means for testing shock absorbers. 2,934,940, 5-3-60, Cl. 73-11.
- Beitler, Eddie B.: See—
- Burgess, Louis. 2,956,868.
- Bejeuhr, Walter. Weaving apparatus. 2,948,302, 8-9-60, Cl. 139-11.
- Belanger, Edward S. Automatic band marking machine. 2,932,248, 4-12-60, Cl. 101-4.
- Belanger, John W., and I. F. Kinnard, to General Electric Co. Viewing device for selecting color filters used in photography. 2,927,500, 3-8-60, Cl. 88-1.
- Belanger, William J.: See—
- Hicks, Darrell D., Masters, and Belanger. 2,934,506.
- Masters, John E., Hicks, and Belanger. 2,934,521.
- Belanger, William J., to Devco & Reynolds Co., Inc. Epoxide resins. 2,847,726, 8-2-60, Cl. 260-47.
- Belanger, William J., to Devco & Reynolds Co., Inc. Preparation and use of halohydrin ether-amine condensates. 2,921,050, 1-12-60, Cl. 260-47.
- Belanger, William J., to Devco & Reynolds Co., Inc. Curing of polyepoxides. 2,928,807, 3-15-60, Cl. 260-47.
- Belanger, William J., to Devco & Reynolds Co., Inc. Curing of polyepoxides. 2,928,808, 3-15-60, Cl. 260-47.
- Belanger, William J., to Devco & Reynolds Co., Inc. Aliphatic alcohol-epoxide resin compositions. 2,928,810, 3-15-60, Cl. 260-47.
- Belanger, William J., to Devco & Reynolds Co., Inc. Epoxy resin-amide compositions. 2,928,811, 3-15-60, Cl. 260-47.
- Belanger, William J., to Devco & Reynolds Co., Inc. Epoxide resins. 2,940,953, 6-14-60, Cl. 260-47.
- Belanger, William J., and H. G. Cooke, Jr., to Devco & Reynolds Co., Inc. Curing of polyepoxides. 2,928,794, 3-15-60, Cl. 260-2.



- Belanger, William J., and H. G. Cooke, Jr., to Devoe & Raynolds Co., Inc. Curing of polyepoxides. 2,928,803, 3-15-60, Cl. 260-43.
- Belanger, William J., J. E. Masters, and D. D. Hicks, to Devoe & Raynolds Co., Inc. Epoxide resin compositions. 2,947,712, 8-2-60, Cl. 260-18.
- Belanger, William J., and J. E. Masters, to Devoe & Raynolds Co., Inc. Epoxide resin compositions. 2,947,717, 8-2-60, Cl. 260-45.4.
- Belasco, Irvin J., to E. I. du Pont de Nemours and Co. Ruminant feed composition. 2,965,488, 12-20-60, Cl. 99-2.
- Belcher, Jesse H.: *See*—  
Stone, Aidan M., and Belcher. 2,919,568.
- Belcher, Mason E., Mason's corner-guide and course-gauge. 2,949,673, 8-23-60, Cl. 33-85.
- Belchetz, Arnold, to National Distillers and Chemical Corp. Decarbonization of spent acids. 2,955,920, 10-11-60, Cl. 23-172.
- Belchis, Samuel: *See*—  
Stavis, Gus, Belchis, and McKay. 2,923,932.
- Belck, Hans B., to Rensselaer Polytechnic Institute. System for recording and reproducing signal waves. 2,950,352, 8-23-60, Cl. 179-100.2.
- Belden, Byron B., and C. R. Talmage, said Belden assor. to Baldwin-Lima-Hamilton Corp. Adjustable compacting press with removable punch assemblies. 2,932,063, 4-12-60, Cl. 18-16.5.
- Belden, Donald H., to Universal Oil Products Co. Isomerization of saturated hydrocarbons. 2,938,936, 5-31-60, Cl. 260-683.68.
- Belden Mfg. Co.: *See*—  
Wermine, Hugo H. 2,927,952.
- Belden, Perry. Chlorinator for marine toilets. 2,951,251, 9-6-60, Cl. 4-222.
- Belden, Sarah H.: *See*—  
De Gray, Richard J., and Belden. 2,965,459.
- Belden, Sarah H., to The Standard Oil Co. Novel boron compounds and gasoline containing the same. 2,948,597, 8-9-60, Cl. 44-63.
- Beldin, Royal L.: *See*—  
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- Belding, Francis M., to Wales-Strippit Corp. Self-contained perforating and countersinking unit. 2,928,450, 3-15-60, Cl. 153-21.
- Beler, Robert J., to Cullen-Friedstedt Co. Coil lifting and positioning mechanism. 2,945,608, 7-19-60, Cl. 214-658.
- Belf, Leon J., to The National Smelting Co. Ltd. Production of fluoriform. 2,946,827, 7-26-60, Cl. 260-653.7.
- Belfield, Frederick W. Marker for rosary. 2,937,459, 5-24-60, Cl. 35-23.
- Belfob Corp., The: *See*—  
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- Belgarde, Leo, to Fram Corp. Combined full-flow and part-flow oil filters. 2,929,506, 3-22-60, Cl. 210-315.
- Bel Geddes, Edith: *See*—  
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- Bel Geddes, Norman. 2,943,579.
- Bel Geddes, Norman, deceased; E. Geddes, executrix. Building structures. 2,941,794, 6-21-60, Cl. 268-30.
- Bel Geddes, Norman, deceased; E. Bel Geddes, executrix. Transit grid. 2,943,579, 7-5-60, Cl. 104-94.
- Belicka, Michael E.: *See*—  
Allen, Oliver L., Belicka, and Lofgren. 2,964,777.
- Belicka, Michael E., and A. P. Cawl, to Electrolux Corp. Cordwinder bumpers. 2,945,921, 7-19-60, Cl. 191-12.4.
- Belisle, Adelard J. Reclining chair. 2,922,464, 1-26-60, Cl. 155-106.
- Belisle, Adelard J. Device for connecting and adjusting the ends of cables. 2,961,726, 11-29-60, Cl. 24-126.
- Beljers, Hugo G.: *See*—  
Schulkes, Johannes A., Gorter, and Beljers. 2,927,897.
- Beljers, Hugo G., K. S. Knol, and A. E. Pannenberg, to North American Philips Co., Inc. Device comprising a cavity resonator. 2,944,232, 7-5-60, Cl. 333-73.
- Belk, Wilber C.: *See*—  
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- Belke Mfg. Co.: *See*—  
Belke, William E. 2,958,642.
- Belke, William E., to Belke Mfg. Co. Electroplating rack. 2,958,642, 11-1-60, Cl. 204-297.
- Bell Aerospace Corp.: *See*—  
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- Baltus, George T., and Wolpin. 2,947,286.
- Browning, Iben, and Robinson. 2,960,603.
- De Florez, Luis, Smith, and Andrade. 2,961,778.
- Fletcher, Harold K., Seamone, and Wolpin. 2,950,703.
- Jones, Warren C. 2,962,403.
- Stevens, Emerson W. 2,961,198.
- Tanner, Walter E. 2,933,812.
- Tanner, Walter E. 2,962,671.
- Bell Aircraft Corp.: *See*—  
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- Myers, Harry S., and Piselli. 2,935,841.
- Sing, Daniel Y., and Banas. 2,948,316.
- Bell, Alan: *See*—  
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- Strickland, Thomas H., and Bell. 2,928,879.
- Tholstrup, Clarence E., and Bell. 2,925,400.
- Wheelock, Robert H. 2,954,945.
- Bell, Alan, to Foster Wheeler Corp. Liquid leak transmitting device. 2,937,520, 5-24-60, Cl. 73-40.5.
- Bell, Alan, to Foster Wheeler Corp. Pressure sealing means for liquid level gages. 2,956,433, 10-18-60, Cl. 73-325.
- Bell, Alan, to Foster Wheeler Corp. Gas sealing arrangement for pressurized liquid systems. 2,956,553, 10-18-60, Cl. 122-32.
- Bell, Alan, and C. E. Tholstrup, to Eastman Kodak Co. Organic plastics containing N,N'-dioleoyl polyethylene polyamines or related compounds. 2,921,048, 1-12-60, Cl. 260-45.9.
- Bell, Angus S., L. Krause, and G. Hammerschmidt, to British Celanese Ltd. Fabrics and fabric articles. 2,959,793, 11-15-60, Cl. 5-334.
- Bell, Arthur, and G. D. Horgan, to American Machine & Foundry Co. Defective article rejector. 2,945,587, 7-19-60, Cl. 209-74.
- Bell Brothers (Domestic) Ltd.: *See*—  
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- Bell, Charles R., to Bendix Aviation Corp. Altitude control servosystem including pressure sensor booster. 2,931,965, 4-5-60, Cl. 318-481.
- Bell, Charles R., to Bendix Aviation Corp. Monitoring system. 2,939,123, 5-31-60, Cl. 340-213.
- Bell, Charles R., to Bendix Aviation Corp. Automatic pilot system. 2,945,647, 7-19-60, Cl. 244-77.
- Bell, Charles R., to Bendix Aviation Corp. Monitoring apparatus for automatic pilot systems. 2,949,258, 8-16-60, Cl. 244-77.
- Bell, Charles R., to Bendix Aviation Corp. Automatic steering system for aircraft. 2,949,259, 8-16-60, Cl. 244-77.
- Bell, Donald E.: *See*—  
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- Bell Electric Co.: *See*—  
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- Bell, Francis H. Insulated thermocouple. 2,963,532, 12-6-60, Cl. 136-4.
- Bell, Francis J., to The Allen Iron & Steel Co. Storage rack. 2,944,676, 7-12-60, Cl. 211-148.
- Bell, Frank C., B. E. Dixon, H. L. Ellsworth, and R. D. James, to Northrop Corp. Angle setting device. 2,940,172, 6-14-60, Cl. 33-61.
- Bell, Frederick H., to Jet Research Center, Inc. Well perforating apparatus. 2,960,930, 11-22-60, Cl. 102-20.
- Bell, George A., to Commonwealth Scientific and Industrial Research Organization. Apparatus for use in the sharpening of knives, knife blades and the like. 2,950,585, 8-30-60, Cl. 51-221.
- Bell & Gossett Co.: *See*—  
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- Durkee, James D. 2,939,912.
- Durkee, James D. 2,939,913.
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- Van Blarcom, James P., Jr., and Gatto. 2,951,449.
- Bell Helicopter Corp.: *See*—  
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- Bell, Henry S.: *See*—  
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- Bell & Howell Co.: *See*—  
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- Bell, Norton W. 2,942,161.
- Bell, Norton W. 2,943,237.
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- Harris, Thomas I., Johnson, and Sandback. 2,956,475.
- Hutchings, Robert A., Schwichtenberg, and Buble. 2,938,307.
- Johnson, Walter J. 2,962,930.
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- Bell Intercontinental Corp., Wheelabrator Division: *See*—  
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- Bell, James F., to Marvalaud, Inc. Method for determining strain. 2,929,242, 3-22-60, Cl. 73-88.
- Bell, Jerome, to The Upjohn Co. Thermometer. 2,949,032, 8-16-60, Cl. 73-353.



- Bell, Jerome V.: See—  
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- Bell, John, to Muirhead & Co. Ltd. Control gear for ship stabilisation. 2,923,874, 2-2-60, Cl. 318—489.
- Bell, John, to Muirhead & Co. Ltd. Ship construction for use with fin stabilizing arrangements. 2,936,728, 5-17-60, Cl. 114—126.
- Bell, John F., to Zenith Radio Corp. Receiver having two input sources and respective tuning means, one of which, when selected, grounds the non-used source for both incoming interference and outgoing radiation signals. 2,964,623, 12-13-60, Cl. 250—20.
- Bell, Keith L., 5% to R. J. and S. S. Patch, 50% to B. J. Chromy, and 15% to H. J. A. and H. N. Runsdorf. Vacuum tube and electric signalling apparatus. 2,926,282, 2-23-60, Cl. 315—10.
- Bell, Keith L., 35% to R. C. Sullivan. Apparatus for and method of guiding radiant energy. 2,927,157, 3-1-60, Cl. 178—75.
- Bell, Kenneth: See—  
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- Bell, Neville L., to United Shoe Machinery Corp. Mold assemblies. 2,945,260, 7-19-60, Cl. 18—42.
- Bell, Norman, and G. R. Jones, to Kaiser Aluminum & Chemical Corp. Method of removing scale. 2,935,430, 5-3-60, Cl. 134—22.
- Bell, Norton W., to Bell & Howell Co. Clamping relay comparison circuit. 2,942,161, 6-21-60, Cl. 317—150.
- Bell, Norton W., to Bell & Howell Co. Multi-electrode tube circuit. 2,943,237, 6-28-60, Cl. 315—84.6.
- Bell, Norton W., to Consolidated Electrodynamics Corp. Pilot signal control apparatus. 2,965,717, 12-20-60, Cl. 179—155.
- Bell, Norton W., to Consolidated Electrodynamics Corp. Transistor switch. 2,965,769, 12-20-60, Cl. 307—88.5.
- Bell, Pearl B.: See—  
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- Bell, Persa R., and J. S. Luce, to United States of America, Atomic Energy Commission. Method and apparatus for producing intense energetic gas discharges. 2,920,235, 1-5-60, Cl. 315—111.
- Bell, Persa R., and J. E. Francis, to United States of America, Atomic Energy Commission. Scintillation spectrometer. 2,942,109, 6-21-60, Cl. 250—71.5.
- Bell Punch Co. Ltd.: See—  
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- Bell, Ramsay M.: See—  
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- Bell, Raymond W., and A. Tamsma, to United States of America, Agriculture. Concentrated sweetened cream and process of producing same. 2,959,485, 11-8-60, Cl. 99—55.
- Bell, Richard J.: See—  
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- Bell, Richard M., and A. Stosuy, to International Business Machines Corp. Process for forming an insulation backed wiring panel. 2,925,645, 2-23-60, Cl. 29—155.5.
- Bell, Richmond T., to The Pure Oil Co. Fractional condensation method of methanethiol recovery from reaction mixtures thereof. Re. 24,796, 3-15-60, Cl. 260—609.
- Bell, Robert: See—  
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- Bell, Robert. Airplane with sightseeing lounge floor. 2,942,811, 6-28-60, Cl. 244—118.
- Bell, Robert C., to American Cyanamid Co. Machine for plating surgical needles. 2,941,501, 6-21-60, Cl. 118—418.
- Bell, Robert E., to Toledo Scale Corp. Label activator. 2,954,455, 9-27-60, Cl. 219—19.
- Bell, Robert E., and C. F. Spademan, to Toledo Scale Corp. Servomotor control circuit. 2,945,166, 7-12-60, Cl. 318—28.
- Bell, Robert E., and M. C. Yeasting, to Toledo Scale Corp. Electronic multiplier. 2,961,160, 11-22-60, Cl. 235—160.
- Bell, Russell N., and L. E. Netherton, to Victor Chemical Works. Conditioned sodium chloride. 2,922,697, 1-26-60, Cl. 23—89.
- Bell, Seaton J., to Ethyl Corp. Transport container unit. 2,959,316, 11-8-60, Cl. 220—1.
- Bell Telephone Laboratories, Inc.: See—  
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- Bender, John C., and C. J. McWhorter, to Houston Oil Field Material Co., Inc. Method of making a magnetic core. 2,960,755, 11-22-60, Cl. 29-155.57.
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- Bender, Lloyd F. Eaves gutter support bracket. 2,928,634, 3-15-60, Cl. 248-48.2.
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- Bender, Richard B., to Worth Engineering and Development Co. Wire splice cover. 2,943,140, 6-28-60, Cl. 174-93.
- Bender, Robert D. Prefabricated interlocking structural slabs. 2,930,222, 3-29-60, Cl. 72-38.
- Bender, Thomas J. Secondary alarm system. 2,931,020, 3-29-60, Cl. 340-261.
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- Benn, Robert E., G. A. Harris, and R. J. Phelps, to Burroughs Corp. Electrographic inking powder moisture control. 2,919,672, 1-5-60, Cl. 118—4.
- Benner, Frank C., to National Research Corp. Electrolytic production of titanium. 2,943,032, 6-28-60, Cl. 204—64.
- Benner, Franklin H., Sr. Fishing lure. 2,922,244, 1-26-60, Cl. 43—26.2.
- Benner-Nawman, Inc.: *See*—  
 Nawman, Rollie B. 2,964,146.
- Bennes, William J., to Celanese Corp. of America. Production of matte finish sheeting in dope casting procedure by use of air blast. 2,921,345, 1-19-60, Cl. 18—57.
- Bennet, Eugene L., to Laboratory Equipment Corp. Hydrogen analysis. 2,932,558, 4-12-60, Cl. 23—230.
- Bennet, Eugene L., W. C. Rohn, and H. J. Schmitt, to Laboratory Equipment Corp. Automatic carbon determinator. 2,962,360, 11-29-60, Cl. 23—253.
- Bennett, Alan, and D. W. Heywood, to British Industrial Plastics Ltd. Treatment of textiles. 2,940,863, 6-14-60, Cl. 117—11.
- Bennett, Albert E.: *See*—  
 Critchley, Octavius H., Bennett, and Sammons. 2,927,292.
- Bennett, Arthur S.: *See*—  
 Hunt, Clayton E., Jr., and Bennett. 2,951,444.
- Bennett, Arthur S., to United States of America, Army. Fuze self destruction delay and point detonation mechanism. 2,948,220, 8-9-60, Cl. 102—86.2.
- Bennett, Charlotte S.: *See*—  
 Bennett, John C. 2,938,735.
- Bennett, David, to Modern Millinery Box Corp. Collapsible boxes. 2,954,153, 9-27-60, Cl. 229—41.
- Bennett, Donald L.: *See*—  
 Paxton, Douglas R. 2,934,617.
- Bennett, Edward A., to United States of America, Army. Stop mechanism. 2,928,516, 3-15-60, Cl. 192—138.
- Bennett, Edward A., to Radio Corp. of America. Multi-contact connector. 2,956,260, 10-11-60, Cl. 339—176.
- Bennett, Edward L., to Hiller Aircraft Corp. Jet driven rotor. 2,950,763, 8-30-60, Cl. 170—135.4.
- Bennett, Edward O., and E. B. Hodge. Process for the control of bacteria in secondary oil recovery. 2,947,691, 8-2-60, Cl. 252—8.55.
- Bennett, Elmer O., to Rohr Aircraft Corp. Drill bushing and jig. 2,920,509, 1-12-60, Cl. 77—62.
- Bennett, Frank K., to Victory Engineering Corp. Electrothermal measuring apparatus and method for the calibration thereof. 2,947,938, 8-2-60, Cl. 324—62.
- Bennett, Harold R.: *See*—  
 Ludy, Paul, Bennett, and Moorman. 2,922,195.
- Bennett, Herbert L., to American Can Co. Molded plastic container lid. 2,956,721, 10-18-60, Cl. 229—43.
- Bennett, J. Douglas: *See*—  
 Welser, Thomas D., and Bennett. 2,924,423.
- Bennett, Jack F. Venetian blinds. 2,920,695, 1-12-60, Cl. 272—31.
- Bennett, Jack O. Toy helicopter. 2,942,880, 6-28-60, Cl. 160—167.



- Bennett, James C., to Mission-West Mfg. Co. Jalousie operator. 2,949,042, 8-16-60, Cl. 74-425.
- Bennett, James H. Travel trailer. 2,963,313, 12-6-60, Cl. 296-26.
- Bennett, James P. Composition and method of correcting nutrient deficiency in plants. 2,929,700, 3-22-60, Cl. 71-1.
- Bennett, John C., deceased; C. S. Bennett, administratrix. Sectional boat trailer. 2,938,735, 5-31-60, Cl. 230-34.
- Bennett, John D., and R. Walker, to The Forgrove Machinery Co. Ltd. Wrapping machines. 2,934,196, 4-26-60, Cl. 198-24.
- Bennett, Leslie H.: See—
- Decker, William H., Rieck, and Bennett. 2,943,520.
- Bennett, Lucius L. Adjustable trowel device. 2,934,937, 5-3-60, Cl. 72-136.
- Bennett, Paul H. Drill rod. 2,958,513, 11-1-60, Cl. 255-28.
- Bennett, Pearl G. Combination fishing rod holder and hook-setting apparatus. 2,964,868, 12-20-60, Cl. 43-15.
- Bennett, Phillip. Loose leaf binders. 2,947,309, 8-2-60, Cl. 129-24.
- Bennett, Porter K., to Champion Sheet Metal Co., Inc. Muffler. 2,942,684, 6-28-60, Cl. 181-58.
- Bennett, Rexford P., to Heavy Industrial Ceramic Corp. Strand tension mechanism. 2,950,877, 8-30-60, Cl. 242-154.
- Bennett, Richard C., and W. G. Dedert, to Whiting Corp. Apparatus for removing impurities from vapors released in evaporation process. 2,929,690, 3-22-60, Cl. 23-263.
- Bennett, Richard L.: See—
- Lentz, John J., Bennett, and Eckert. 2,922,332.
- Bennett, Robert G.: See—
- Corwin, Robert G., and Bennett. 2,927,626.
- Bennett, Robert P. Relay apparatus. 2,957,966, 10-25-60, Cl. 200-105.
- Bennett, Robert R., to Hughes Aircraft Co. Electronic resolver. 2,926,852, 3-1-60, Cl. 235-189.
- Bennett, Robert W., Jr. Method and apparatus for erecting swimming pools. 2,954,645, 10-4-60, Cl. 50-100.
- Bennett, Rose, Co.: See—
- Henderson, John, and Langston. 2,921,609.
- Bennett, Sidney W., to Phillips Petroleum Co. Pivoted valve structure. 2,928,697, 3-15-60, Cl. 308-36.1.
- Bennett, Sterling J., and E. D. Dilling, to Titanium Metals Corp. of America. Apparatus for determination of oxygen in metals. 2,964,389, 12-13-60, Cl. 23-253.
- Bennett, Thomas R., to R. W. Crabtree & Sons Ltd. Web-removing mechanism. 2,950,874, 8-30-60, Cl. 232-58.3.
- Bennett, Wallis R.: See—
- Minger, Forest R., and Bennett. 2,958,585.
- Bennett, Walter, to Utility Trailer Mfg. Co. Unitary floor and frame structure for vehicles. 2,926,928, 3-1-60, Cl. 280-106.
- Bennett, Willard H. Device for producing sustained magnetic self-focusing streams. 2,925,505, 2-16-60, Cl. 313-62.
- Bennett, Willard H. Charged particle accelerator. 2,942-106, 6-21-60, Cl. 250-27.
- Bennett, Willard H. Non-magnetic mass spectrometer. 2,955,204, 10-4-60, Cl. 250-41.9.
- Bennett, William B.: See—
- Greene, George B., Hill, Hamilton, Bennett, and Steed. 2,936,118.
- Rinder, Robert M., Walsh, Hamilton, Hill, Cotey, Greene, and Bennett. 2,927,732.
- Bennett, Worthy L., 1/4 to K. Norton. Fuel injection system pump. 2,921,529, 1-19-60, Cl. 103-38.
- Bennie, James: See—
- Hofreiter, Bernard T., Mehlretter, Bennie, and Hamerstrand. 2,929,811.
- Bennie, Ralph F. Helicopter landing gear. 2,927,747, 3-8-60, Cl. 244-17.17.
- Benning, Anthony F., to E. I. du Pont de Nemours and Co. Isocyanate-based polymers containing at least two different types of polymeric segments. 2,948,707, 8-9-60, Cl. 260-77.5.
- Benning, Anton, W. Emte, O. Grosskinsky, and H. Fruhbuss, to Bergwerksverband G.m.b.H. Method of producing benzene polycarboxylic acid. 2,966,514, 12-27-60, Cl. 260-524.
- Benning, Arthur D.: See—
- Alford, Edward L., and Benning. 2,919,762.
- Benning, Calvin J., to W. R. Grace & Co. Ethylene polymerization process and catalyst therefor. 2,956,050, 10-11-60, Cl. 260-94.9.
- Benning, Samuel, and L. E. Bacon. Apparatus for forming bundles of tobacco leaves. 2,964,043, 12-13-60, Cl. 131-149.
- Benninghofen, Paul: See—
- Diesbach, Frederick B. 2,949,318.
- Benninghoff, William L. Floating chuck. 2,932,041, 4-12-60, Cl. 10-107.
- Benninghoff, William L., and D. P. Geck, to The Pipe Machinery Co. Feed and rapid return device for machine tools. 2,958,232, 11-1-60, Cl. 74-424.8.
- Bennion, David R.: See—
- Crane, Hewitt D., Bennion, and Heinzmann. 2,958,854.
- Bennion, David R., and D. C. Engelbart, to Burroughs Corp. Multiple-setting magnetic core circuits. 2,936,445, 5-10-60, Cl. 340-174.
- Bennon, Saul, to United States of America, Navy. Electrical steering control system. 2,950,698, 8-30-60, Cl. 114-23.
- Bennon, Saul, and M. Morisuye, to Westinghouse Electric Corp. Corona shield. 2,942,215, 6-21-60, Cl. 336-70.
- Bennon, Saul, and F. H. Hofing, to United States of America, Navy. Electrical submarine torpedo. 2,960,956, 11-22-60, Cl. 114-23.
- Benoit, Claude A., to Societe STEB. Magnetic drives notably those of tachometers. 2,949,552, 8-16-60, Cl. 310-105.
- Benoit, Claude A., to Societe STEB. Automatically starting synchronous motor operating at variable frequencies. 2,949,553, 8-16-60, Cl. 310-162.
- Benoit, George J., Jr., to California Research Corp. Diesters of mixed aromatic dibasic acids. 2,936,320, 5-10-60, Cl. 260-475.
- Benoit, Henry F. Spool. 2,957,642, 10-25-60, Cl. 242-118.61.
- Benrus Watch Co., Inc.: See—
- Doerwald, Albert. 2,935,202.
- Bensel, Duryea, 10% to B. Monte, 10% to D. M. Winkler, 5% to J. Billings, 5% to F. L. Pellissier, 5% to R. S. Brice, and 5% to D. M. Higer. Milk, oil and fruit container. 2,933,229, 4-19-60, Cl. 229-14.
- Bensen Aircraft Corp.: See—
- Bensen, Igor B. 2,952,320.
- Bensen, George H.: See—
- Glassman, Alfred R., and Bensen. 2,922,606.
- Bensen, Igor B., to Bensen Aircraft Corp. Airfoil. 2,952,320, 9-13-60, Cl. 170-159.
- Bensing, Wolf-Dieter, and K. D. Kurz, to Daimler-Benz Aktiengesellschaft. Electric shifting arrangement for change speed transmissions. 2,956,444, 10-18-60, Cl. 74-336.5.
- Bensky, Lowell S.: See—
- Nettleton, David L., and Bensky. 2,920,313.
- Sublette, Ivan H., and Bensky. 2,925,588.
- Bensky, Lowell S., D. L. Nettleton, and A. D. Beard, to Radio Corp. of America. Method of and system for storing data magnetically. 2,926,338, 2-23-60, Cl. 340-174.
- Benson, Alfred, to Stanley Woodworkers. Starch tray. 2,951,606, 9-6-60, Cl. 217-65.
- Benson, Alfred D., H. Schlottmann, and R. Hector, to Control Design and Fabricate Inc. Demand actuated conveyor system. 2,924,324, 2-9-60, Cl. 198-78.
- Benson, Carl B., and C. G. Carlson. Air-cooled outboard motor. 2,943,592, 7-5-60, Cl. 115-17.
- Benson, Carl H., to O. F. Mossberg & Sons, Inc. Firearm firing mechanism. 2,926,446, 3-1-60, Cl. 42-69.
- Benson, Charles J., E. F. Potter, Jr., C. Rose, and E. P. Schollenberger. Self-retracting hook mechanism. 2,940,793, 6-14-60, Cl. 294-83.
- Benson, Donald O., to Toro Mfg. Corp. Rotary safety blade. 2,920,436, 1-12-60, Cl. 56-295.
- Benson, Donald O. Extrusion of spirally formed article. 2,954,121, 9-27-60, Cl. 207-6.
- Benson, George O. Tent. 2,938,524, 5-31-60, Cl. 135-1.
- Benson, George R., to United Aircraft Corp. Combustion chamber swirler. 2,951,339, 9-6-60, Cl. 60-39.65.
- Benson, Gordon E.: See—
- Benson, Watkin E., and G. E. 2,933,124.
- Benson, Harold R., to nuArc Co., Inc. Storage apparatus. 2,962,335, 11-29-60, Cl. 312-184.
- Benson, James A.: See—
- Santora, Hugo R., Lunday, and Benson. 2,925,013.
- Benson, Jewell E.: See—
- Odasz, Francis B., Jr. 2,921,313.
- Benson, Jewell E. Process for rubberizing bitumen by interblending rubber latex with molten bitumen. 2,921,105, 1-12-60, Cl. 260-758.
- Benson, John A., and L. J. Pierce, to General Electric Co. Fuel injection nozzle. 2,926,495, 3-1-60, Cl. 60-39.74.
- Benson, John L., and C. E. Norfleet. Front wheel mounting for tractors and the like. 2,933,327, 4-19-60, Cl. 280-87.
- Benson Mfg. Co.: See—
- Slota, William P. 2,947,440.
- Benson, Richard E., to E. I. du Pont de Nemours and Co. Catalytic process for preparing 3,5- and 3,6-dimethylene-cyclohexenes and monomeric and polymerized isomeric mixtures thereof. 2,943,116, 6-28-60, Cl. 260-666.
- Benson, Richard E., to E. I. du Pont de Nemours and Co. Copolymerizable methylene-substituted cycloalkenes, their preparation, coating compositions containing them and polymers thereof. 2,957,035, 10-18-60, Cl. 260-666.
- Benson, Richard W. H., to Imperial Chemical Industries Ltd. Manufacture of synthetic linear polymers. 2,964,391, 12-13-60, Cl. 23-285.
- Benson, Robert M.: See—
- Slater, John M., Benson, and Tauscher. 2,933,267.
- Benson, Robert M., to Inertial Instruments, Inc. Mass flow meter. 2,943,483, 7-5-60, Cl. 73-194.
- Benson, Ross L. Wet separating apparatus. 2,956,681, 10-18-60, Cl. 209-464.
- Benson, Ross L. Apparatus for separating fine and coarse particles. 2,960,222, 11-15-60, Cl. 209-17.
- Benson, Sidney W., J. J. Grossman, and H. S. Elkin, to Vard Products Inc. Molecular mass spectrometer. 2,938,116, 5-24-60, Cl. 250-41.9.
- Benson, Swan W.: See—
- Ostline, John E., Benson, and Esperseth. 2,955,163.
- Benson, Walter L., and N. C. Dahl, to Constock Liquid Methane Corp. Expandable container for fluids at low temperature. 2,944,693, 7-12-60, Cl. 220-9.



- Benson, Watkin E. and G. E., to Kronprinz Aktiengesellschaft. Machines for the formation of wheel rims and the like. 2,933,124, 4-19-60, Cl. 153-54.
- Benson, William C., to Spencer-Safford Loadcraft, Inc. Vehicle chassis and axle mounting assembly. 2,941,816, 6-21-60, Cl. 280-124.
- Benson, William C., to Spencer-Safford Loadcraft, Inc. Adjustable vehicle axle and air suspension assembly. 2,941,817, 6-21-60, Cl. 280-124.
- Bent, John H., to Gardner-Denver Co. Angle attachment for drills. 2,930,262, 3-29-60, Cl. 77-34.4.
- Bent Tube, Inc.: *See*—  
Swan, William. 2,927,368.
- Bent, William H., to Dunlop Rubber Co. Ltd. Vehicle wheel anti-skid device. 2,961,275, 11-22-60, Cl. 303-24.
- Bentkowsky, Jerome: *See*—  
Chadwick, Joseph H., Jr., and Bentkowsky. 2,960,959.  
Jones, Grandville R., and Bentkowsky. 2,945,170.
- Bentley, Albert D., to General Electric Co. Information display apparatus. 2,933,648, 4-19-60, Cl. 315-169.
- Bentley, Alfred H.: *See*—  
Halford, Frank B., Hardy, Owner, and Clarke. 2,926,489.
- Bentley, George W.: *See*—  
Noble, Jack D., Bentley, and Rice. 2,941,675.
- Bentley, Harold A., to American-Fire Apparatus Co. Priming device for pumps. 2,927,597, 3-8-60, Cl. 137-202.
- Bentley, Jack A.: *See*—  
Baldwin, Joseph L., and Bentley. 2,954,628.
- Bentley, James S., to Teleflex Inc. Electric actuators. 2,927,473, 3-8-60, Cl. 74-424.8.
- Bentley, John G., to Porter Cable Machine Co. Chain saw with tensioning means. 2,933,112, 4-19-60, Cl. 143-32.
- Bentley, John H.: *See*—  
Halford, Frank B., Owner, and Clarke. 2,926,489.
- Bentley, John W., Hand operated meat ball mold. 2,957,199, 10-25-60, Cl. 107-32.
- Bentley, Lawrence C.: *See*—  
Nuttall, Thomas C., and Bentley. 2,930,898.
- Bentley, Lawrence C., to U. D. Engineering Co. Ltd. Photoelectric inspection apparatus. 2,943,531, 7-5-60, Cl. 88-14.
- Bentley, Lawrence C., to U. D. Engineering Co. Ltd. Container ejector mechanisms. 2,961,094, 11-22-60, Cl. 209-74.
- Bentley, Norman H.: *See*—  
Robinson, Frederick C., and Bentley. 2,930,109.
- Bentley, R. B.: *See*—  
Bettencourt, Alexander R. and W. G. 2,959,313.
- Bentley, Robert H., to The Arrow-Hart & Hegeman Electric Co. Wire gripping means for electric wiring devices. 2,944,242, 7-5-60, Cl. 339-95.
- Benton, Charles H., Jr., and L. A. Anderson, to Eastman Kodak Co. Dry vitamin E composition. 2,940,900, 6-14-60, Cl. 167-81.
- Benton, Louis A., to Johns-Manville Corp. Method and apparatus for feeding high viscosity materials. 2,923,439, 2-2-60, Cl. 222-146.
- Benton, William H., Jr., to Anaconda Wire and Cable Co. Fabrication of insulated electrical conductors. 2,936,258, 5-10-60, Cl. 154-228.
- Bentsen, Arthur R., to General Electric Co. Mercury feed-through cord switch. 2,959,656, 11-8-60, Cl. 200-152.
- Benveniste, Jacques, C. P. West, and H. N. Lieberman, to Esso Research and Engineering Co. Process for visibly detecting reactor insulation failure by means of color change in temperature indicating paint applied to exterior wall thereof. 2,943,475, 7-5-60, Cl. 73-15.
- Benz, August. Appliance for lifting loads. 2,942,692, 6-28-60, Cl. 187-17.
- Benz, George W.: *See*—  
Calva, Jose B. 2,919,981.
- Benz & Hilgers Maschinenfabrik: *See*—  
Topfer, Ernst. 2,929,340.
- Benz, Jakob, and A. Schweizer, to Sandoz A.G. (Also known as Sandoz Ltd.) Substantive azo dyestuffs. 2,963,473, 12-6-60, Cl. 260-153.
- Benz, Robert: *See*—  
Bjorklund, Carl W., Benz, Maraman, Leary, and Walsh. 2,923,670.
- Benzel, Howard A., to Scott Aviation Corp. Means for detachably attaching a lens to a face mask. 2,952,853, 9-20-60, Cl. 2-14.
- Benzel, Wolfgang: *See*—  
Meinhard, Günter, and Benzel. 2,950,254.
- Benzing, Walter C., to Merck & Co., Inc. Process for preparing metal selenides. 2,921,834, 1-19-60, Cl. 23-50.
- Beppu, Teruhiko: *See*—  
Sakaguchi, Kinichiro, Abe, and Beppu. 2,949,404.
- Beran, Karel: *See*—  
Hofbauer, Ivo, Sebor, Beran, and Novák. 2,924,279.
- Beran, Robert L.: *See*—  
Pettit, Otis J. 2,926,007.
- Beranek, Emanuel, to Družstevní práce Ustřední družstvo uměleckých remesel, výtvarní oddělení. Manufacture of decorative glass articles. 2,937,477, 5-24-60, Cl. 49-85.
- Beranek, Jiří: *See*—  
Smrt, Jiří, Beranek, and Sicher. 2,943,092.  
Smrt, Jiří, Beranek, and Sicher. 2,958,691.
- Beranek, Rudolph B., to American Radiator & Standard Sanitary Corp. Tube bending apparatus. 2,942,644, 6-28-60, Cl. 153-45.
- Beranger, Raymond, to North American Philips Co., Inc. Devices for carrying out a division. 2,955,757, 10-11-60, Cl. 235-160.
- Berardi, Vincenzo, and G. Manzari. Device for detecting combustible gas. 2,943,919, 7-5-60, Cl. 23-255.
- Berardinelli, Frank M.: *See*—  
Hudgin, Donald E., and Berardinelli. 2,936,298.
- Berardinelli, Frank M., and J. S. Shanly, to Celanese Corp. of America. Coated polyethylene and process of making same. 2,925,354, 2-16-60, Cl. 117-12.
- Berberich, Helmut R., and W. Hirschmann, to Thoma Co. G.m.b.H. Suction device for textile machinery. 2,956,389, 10-18-60, Cl. 57-34.5.
- Berberich, Wilfred A. Ladder mount for vehicles. 2,946,397, 7-26-60, Cl. 182-39.
- Berch, Julian: *See*—  
Harkenrider, Robert J., Mizell, and Berch. 2,943,378.
- Berchan, Paul, to Morris Lam, Michael Campaioia, and Paul Berchan, d.b.a. L. B. C. Watch Case and Jewelry Co. Linkage of flexibly joined two-piece links. 2,963,852, 12-13-60, Cl. 59-80.
- Berchold, Max, to I-T-E Circuit Breaker Co. Aerodynamic wave machine used as a supercharger for reciprocating engines. 2,957,304, 10-25-60, Cl. 60-13.
- Bercik, Paul G., and A. M. Henke, to Gulf Research & Development Co. Start up procedure for catalytic hydrogen treatment of hydrocarbons. 2,953,519, 9-20-60, Cl. 208-143.
- Berck, William F., to Ralph N. Brodie Co. Air eliminator valve and float therefor. 2,938,531, 5-31-60, Cl. 137-174.
- Berck, William F., to Ralph N. Brodie Co. Automatic temperature compensator. 2,942,497, 6-28-60, Cl. 74-691.
- Berck, William F., to Ralph N. Brodie Co. Linkage connection for indicators. 2,959,058, 11-8-60, Cl. 74-1.
- Bereman, John W. Folding tables. 2,963,331, 12-6-60, Cl. 311-90.
- Beremand, Donald G., to Thompson Ramo Wooldridge, Inc. Expulsion bag fuel tank. 2,924,359, 2-9-60, Cl. 222-386.5.
- Berenbaum, Morris B.: *See*—  
Fettes, Edward M., and Berenbaum. 2,925,362.
- Berenbaum, Morris B., to Thiokol Chemical Corp. Preparation of chloromethyl dienes. 2,937,125, 5-17-60, Cl. 204-163.
- Berenbaum, Morris B., to Thiokol Chemical Corp. Resinous condensation product of a polyepoxy-polyether resin and a hydroxyl-terminated polyester and method of making same. 2,944,996, 7-12-60, Cl. 260-45.4.
- Berendt, Carl: *See*—  
Demarest, Daniel D., Karius, and Berendt. 2,929,100.
- Berens, Alan R., to The B. F. Goodrich Co. Polymerizable polyesters and polymers thereof. 2,945,012, 7-12-60, Cl. 260-78.3.
- Berens, Edward J. Dental cotton roll holder. 2,930,128, 3-29-60, Cl. 32-35.
- Bereskin, Alexander B., to The Baldwin Piano Co. Audio amplifier system. 2,924,780, 2-9-60, Cl. 330-81.
- Bereskin, Alexander B., to The Baldwin Piano Co. High power audio amplifier employing transistors. 2,932,800, 4-12-60, Cl. 330-14.
- Bereskin, Alexander B., to The Baldwin Piano Co. Transistor circuit. 2,963,933, 12-13-60, Cl. 84-120.
- Beretvas, Helen S., to Standard Oil Co. Extreme pressure lubricants. 2,921,903, 1-19-60, Cl. 252-37.2.
- Berezin, Evelyn, and P. Hersh, to Curtiss-Wright Corp. Arithmetic device. 2,943,790, 7-5-60, Cl. 235-170.
- Berezny, Mischa N., to G. and H. Florence. Anti-theft device for carts. 2,964,140, 12-13-60, Cl. 188-111.
- Berfield, Robert G., to United States of America, Army. Automatic gain control. 2,959,675, 11-8-60, Cl. 250-20.
- Berg Airlectro Products Co.: *See*—  
Dobrikina, Harold L. 2,928,913.  
Dobrikina, Harold L. 2,935,581.
- Berg, Benjamin, W. D. Clegg, and M. W. Smith, said Clegg and said Smith assors. to said Berg. Mounting and operating means for zoom lenses for television and motion picture cameras. 2,940,373, 6-14-60, Cl. 95-45.
- Berg, Carl O., and D. R. Taylor, Jr., to Philco Corp. Deflection system for a cathode ray tube. 2,962,626, 11-29-60, Cl. 315-27.
- Berg, Clyde H. O., to Union Oil Co. of California. Adsorption process and apparatus. 2,921,817, 1-19-60, Cl. 302-53.
- Berg, Clyde H. O., to Union Oil Co. of California. Solids elutriation apparatus. 2,952,357, 9-13-60, Cl. 209-138.
- Berg, Edward T. Method of and means for installing a counterflashing in a wall. 2,928,274, 3-15-60, Cl. 72-127.
- Berg, Einar, to Automatic Electric Laboratories, Inc. Method of assembling junction transistor. 2,946,114, 7-26-60, Cl. 29-25.3.
- Berg, Florence R. Retouching of photographic images. 2,941,462, 6-21-60, Cl. 95-101.
- Berg, Frank R. Vehicle automatic stop light. 2,945,209, 7-12-60, Cl. 340-71.
- Berg, Gifford C. Trailer third wheel. 2,954,963, 10-4-60, Cl. 254-86.
- Berg, Heinrich: *See*—  
Wenz, Herbert, and Berg. 2,957,645.
- Berg, John V., and C. G. H. Stare, to Casius Corp. Ltd. Method for manufacturing reinforced lightweight concrete. 2,948,947, 8-16-60, Cl. 25-154.



- Berg, Jozef T., and A. Larigaldie, to North American Philips Co., Inc. Method of enclosed welding. 2,948,805, 8-9-60, Cl. 219-137.
- Berg Mfg. and Sales Co.: See—  
Dobrikin, Harold L. 2,948,450.
- Berg, Martin. Clothesline assembly. 2,950,824, 8-30-60, Cl. 211-119.1.
- Berg, Quentin, to AMP Inc. Electrical connector. 2,929,046, 3-15-60, Cl. 339-276.
- Berg, Quentin. Multiple applicator. 2,932,826, 4-19-60, Cl. 1-2.
- Berg, Quentin, to AMP Inc. Shear means with integral cam surfaces effective to longitudinally shift workpiece to correct shearing position. 2,951,409, 9-6-60, Cl. 83-228.
- Berg, Ralph L., to Controls Co. of America. Direction controlling means for self-starting synchronous motors. 2,960,201, 11-15-60, Cl. 192-4.
- Berg, Richard D.: See—  
Anderson, Paul E., and Berg. 2,955,394.
- Berg, Richard D., to Western Electric Co., Inc. Article aligning fixture with quick-acting clamping devices. 2,955,820, 10-11-60, Cl. 269-155.
- Berg, Robert B. Cultivator or chopper. 2,920,708, 1-12-60, Cl. 172-111.
- Berg, Robert H., to Abbott Laboratories. Pilot tube. 2,949,203, 8-16-60, Cl. 215-6.
- Berg, Robert L. Combined line reel and arrow holder for bows. 2,938,514, 5-31-60, Cl. 124-24.
- Berg, Rudolph G.: See—  
Buckley, Jay S., Jr., and Berg. 2,948,749.
- Berg, Willie. Unitary foldable music stand. 2,963,817, 12-13-60, Cl. 45-121.
- Berge, Jacques M. A. C. Catamaran sail boat. 2,944,505, 7-12-60, Cl. 114-39.
- Bergen Machine & Tool Co., Inc., The: See—  
Kovach, John E. 2,963,762.
- Bergen Pipesupport Corp.: See—  
Suozzo, Leonard S. 2,923,507.
- Suozzo, Leonard S. 2,939,663.
- Berger, Alfred: See—  
Albrecht, Otto, Berger, and Maeder. 2,965,517.
- Berger, Bernard. Amusement device. 2,919,921, 1-5-60, Cl. 273-145.
- Berger, Brynjulf, to Western Electric Co., Inc. Designation strips for apparatus. 2,945,204, 7-12-60, Cl. 339-113.
- Berger, Carl, to Union Carbide Corp. Aluminum gas plating of various substrates. 2,921,868, 1-19-60, Cl. 117-107.
- Berger, Charles V., to Universal Oil Products Co. Reforming process using a group VI metal sulfide or oxide-containing catalyst. 2,939,837, 6-7-60, Cl. 208-136.
- Berger, Christian D., to Polytechnic Research & Development Co., Inc. Temperature-compensating indicators. 2,949,881, 8-23-60, Cl. 116-129.
- Berger, Christian D., to PRD Electronics, Inc. Temperature-compensated indicator. 2,960,606, 11-15-60, Cl. 250-40.
- Berger, Donald E., to Phillips Petroleum Co. Apparatus for production of substituted pyridines. 2,926,074, 2-23-60, Cl. 23-263.
- Berger, Earl C., to Electric Steel Foundry Co. Means for securing excavating tooth. 2,939,227, 6-7-60, Cl. 37-142.
- Berger, Edwin I. Pivoted type head for toy typewriter. 2,964,156, 12-13-60, Cl. 197-47.
- Berger, Frank M., and B. J. Ludwig, to Carter Products, Inc. N-monosubstituted-2,2-dialkyl-1,3-propanediol dicarbamates. 2,937,119, 5-17-60, Cl. 167-65.
- Berger, George E. Remote control toy airplane. 2,937,870, 5-24-60, Cl. 272-31.
- Berger, Harold: See—  
Jacobs, John E., and Berger. 2,939,027.
- Berger, Heinz: See—  
Weyde, Edith, and Berger. 2,937,945.
- Berger, Helmut, and J. Finkenzeller, to Siemens-Reiniger-Werke Aktiengesellschaft. X-ray apparatus. 2,921,202, 1-12-60, Cl. 250-105.
- Berger, Irving. Traction device for vehicle wheels. 2,951,522, 9-6-60, Cl. 152-236.
- Berger, Johannes, to C. Zeiss. Photographic objective. 2,927,507, 3-8-60, Cl. 88-57.
- Berger, Leo, and J. Lee, to Hoffmann-La Roche Inc. Cycloamylose sulfates and derivatives thereof. 2,923,704, 2-2-60, Cl. 260-209.
- Berger, Melvin L., to Chas. Pfizer & Co., Inc. Aqueous therapeutic compositions. 2,939,818, 6-7-60, Cl. 167-65.
- Berger, Melvin L., to Chas. Pfizer & Co., Inc. Aqueous readily injectable therapeutic compositions containing water-insoluble penicillin and sucrose dilaurate. 8,951,015, 8-30-60, Cl. 167-82.
- Berger, O. L., & Sons, Inc.: See—  
Howley, Bernard G., and Holmberg. 2,941,297.
- Berger, Otto: See—  
Douglass, Harry H., Miller, and Berger. 2,922,950.
- Berger, Paul. Apparatus for igniting and operating gaseous discharge devices. 2,920,237, 1-5-60, Cl. 315-138.
- Berger, Paul, to Advance Transformer Co. Apparatus for igniting and operating gaseous discharge devices. 2,947,909, 8-2-60, Cl. 315-100.
- Berger-Rivenburgh: See—  
Berger, Sol J., and Rivenburgh. 2,922,552.
- Berger, Robert H., to Radio Corp. of America. Multiple contact connector. 2,942,229, 6-21-60, Cl. 339-176.
- Berger, Sol J., and J. G. Rivenburgh, to Berger-Rivenburgh. Merchandise display device. 2,922,552, 1-26-60, Cl. 222-185.
- Berger, Uriah S., and M. Cocchiario, to Bell Telephone Laboratories, Inc. Integer analyzer and sequence detector. 2,929,048, 3-15-60, Cl. 340-164.
- Bergeron, Maurice G. J. Machines for smoothing wood. 2,929,173, 3-22-60, Cl. 51-138.
- Bergeson, Raymond L., to Minneapolis-Honeywell Regulator Co. Center of gravity indicator. 2,948,146, 8-9-60, Cl. 73-65.
- Bergey, Taylor G. Receptacle and handle for milk cartons and the like. 2,961,121, 11-22-60, Cl. 220-85.
- Bergey, Taylor G., to Houston Oil Field Material Co., Inc. Centrifuge system. 2,961,154, 11-22-60, Cl. 233-19.
- Bergfeldt, Julius V. Electrode wheel and holder assembly for resistance spot welding machine. 2,929,916, 3-22-60, Cl. 219-120.
- Bergfors, Carl A., to International Business Machines Corp. Transistor tube switching circuits. 2,935,690, 5-3-60, Cl. 328-198.
- Bergfors, Gordon A., to Exercycle Corp. Pedal and foot strap therefor. 2,964,973, 12-20-60, Cl. 74-594.6.
- Berggreen, Alf M. Reading apparatus for the blind. Re. 2,910,12-20-60, Cl. 35-35.
- Berggren, Lloyd E., G. B. Schneider, and H. P. Sorensen, to Minneapolis-Honeywell Regulator Co. Jet engine control apparatus. 2,943,448, 7-5-60, Cl. 60-39.28.
- Berggren, Loring J., A. S. Dorosz, and J. F. Leahy, to United Shoe Machinery Corp. Plastic injection molding machines. 2,937,405, 5-24-60, Cl. 18-30.
- Bergh Bros. Co., Inc.: See—  
Bergh, George G. and R. G. 2,963,149.
- Bergh, George G. and R. G., to Bergh Bros. Co., Inc. Jewelry display device. 2,963,149, 12-6-60, Cl. 206-76.
- Bergh, Robert G.: See—  
Bergh, George G. and R. G. 2,963,149.
- Bergh, Roland C., and R. O. Trott, to Republic Aviation Corp. Sound-proof enclosure. 2,942,682, 6-28-60, Cl. 181-35.
- Bergh, Roland C., G. J. Elsbeck, and E. A. Muller, to Republic Aviation Corp. Anchoring and positioning means for airplanes. 2,957,661, 10-25-60, Cl. 244-115.
- Bergh, Sven S., to Wargous Aktiebolag. Method for the powder metallurgical manufacture of chromium alloys. 2,920,958, 1-12-60, Cl. 75-200.
- Bergh, Sverre E., T. O'Callaghan, and W. H. Vining, to E. I. du Pont de Nemours and Co. Anode structure. 2,934,486, 4-26-60, Cl. 204-288.
- Berghaus, Bernhard, and H. Bucek, to Elektrophysikalische Anstalt. Lead-in for electric currents in gas discharge vessels. 2,929,947, 3-22-60, Cl. 313-19.
- Berghaus, Bernhard, and H. Bucek, to Elektrophysikalische Anstalt Bernhard Berghaus. Nitriding with electric glow discharge. 2,946,708, 7-26-60, Cl. 148-10.
- Berghaus, Bernhard, and H. Bucek. Process for carrying out technical operations in a glow discharge. 2,955,998, 10-11-60, Cl. 204-177.
- Berghell, Robin C. Tabulating card reproducing punch. 2,965,169, 12-20-60, Cl. 164-114.
- Berghgracht, Marius. Fluid tight packages. 2,936,940, 5-17-60, Cl. 229-16.
- Berghoff, Frank, and E. H. Ricks. Fishing signal light. 2,964,869, 12-20-60, Cl. 43-17.
- Bergier, Arnold H., and M. Umanoff, to C.A.P. Inc. Changeable price indicator. 2,934,844, 5-3-60, Cl. 40-5.
- Bergknoff, Irwin. Data recording system. 2,966,370, 12-27-60, Cl. 282-22.
- Bergland, Harry R., to Burroughs Corp. Trading stamp dispensing apparatus. 2,962,282, 11-29-60, Cl. 271-2.4.
- Berglund, Bertil V.: See—  
Strinning, Nils E., and Berglund. 2,951,594.
- Berglund, Bjorn E. A., H. O. Hormander, and J. E. K. Svenke, to Aktiebolaget Atomenergi. Method of burning sulphur containing fuels such as shale. 2,928,718, 3-15-60, Cl. 23-1.
- Berglund, Lennart N., and W. J. Barbor. Golf cart. 2,921,797, 1-19-60, Cl. 230-41.
- Bergman, Carl A., and E. C. Hansen, to General Aniline & Film Corp. Ampholytic compositions in wet treatments. 2,953,526, 9-20-60, Cl. 252-8.8.
- Bergman, Edward, to Art Steel Co., Inc. Locking device for cabinet drawers. 2,966,384, 12-27-60, Cl. 312-218.
- Bergman, Herbert F., Jr.,  $\frac{1}{2}$  to R. C. Orren and K. P. Griswold, and  $\frac{1}{2}$  to E. R. Brink. Display stands. 2,939,584, 6-7-60, Cl. 211-27.
- Bergmann, Anders K., J. Brynildsen, J. C. G. Borgstrom, and J. B. Goos, to Telefonaktiebolaget LM Ericsson. Automatic telephone system. 2,948,780, 8-9-60, Cl. 179-16.
- Bergmann, Andrew M., to American Optical Co. Process of mounting lenses. 2,919,626, 1-5-60, Cl. 88-57.
- Bergmann, Ernst R., to Goodman Mfg. Co. Side cutting mining head for continuous mining machine. 2,954,220, 9-27-60, Cl. 262-19.
- Bergmann, Friedrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of ferrites. 2,927,896, 3-8-60, Cl. 252-62.5.
- Bergmann, Paul F., to Johnson Products, Inc. Hydraulic tappet. 2,941,523, 6-21-60, Cl. 123-90.
- Bergmann, Paul F., to Johnson Products, Inc. Means for metering lubricating oil from an hydraulic tappet to a hollow push rod. 2,948,270, 8-9-60, Cl. 123-90.



- Bergmann, Paul F., Sr., and M. V. Dadd, to Johnson Products Inc. Hydraulic tappet. 2,942,595, 6-28-60, Cl. 123-90.
- Bergmark, Eric N. Ball retainers for use in cooperation with rackets. 2,932,514, 4-12-60, Cl. 273-73.
- Bergonzo, Charles. Writing instrument. 2,928,374, 3-15-60, Cl. 120-42.13.
- Bergs, E. A., Fabriks Aktiebolag: *See*—  
Andersson, Carl G., and Ekstrom. 2,939,214.
- Bergsland, Charles H., and R. S. Hedin, to General Mills, Inc. Assembling machine for circuit components. 2,928,093, 3-15-60, Cl. 1-2.
- Bergsland, Charles H., K. E. Neumeier, and P. S. Petersen, to General Mills, Inc. Disc capacitor inserter. 2,949,665, 8-23-60, Cl. 29-203.
- Bergsma, Rudolph, to King-Seely Corp. Thermal motor. 2,928,958, 3-15-60, Cl. 310-4.
- Bergson, Gustav. Electro-meter amplifier. 2,965,854, 12-20-60, Cl. 330-139.
- Bergstedt, Bengt A., to Aktiebolaget Atomenergi. Electrostatic precipitator. 2,949,167, 8-16-60, Cl. 183-7.
- Bergstedt, Bengt A., to Aktiebolaget Atomenergi. Method of measuring the particle concentration of aerosols. 2,953,013, 9-20-60, Cl. 73-28.
- Bergstedt, Bengt A., to Aktiebolaget Atomenergi. Instrument for the measurement of radioactive aerosols. 2,953,687, 9-20-60, Cl. 250-83.3.
- Bergstedt, Milton A., and K. C. Young, to Johnson & Johnson. Pressure sensitive adhesive tape. 2,953,475, 9-20-60, Cl. 117-72.
- Bergstedt, Milton A., and J. H. Collins, to Johnson & Johnson. Pressure sensitive adhesive sheet and method of manufacture. 2,964,422, 12-13-60, Cl. 117-76.
- Bergstein, Frank D., to Bergstein Packaging Trust. Dry gloss pre-cast clay laminated paper and method of making it. 2,934,467, 4-26-60, Cl. 154-97.5.
- Bergstein Packaging Trust: *See*—  
Bergstein, Frank D. 2,934,467.  
Nerenberg, Robert W. 2,964,226.
- Bergstrom, Carl N., deceased, (by B. F. Cole, executor). Method and apparatus for preparing combustible fuel mixtures. 2,960,975, 11-22-60, Cl. 123-119.
- Bergstrom, Clarence G.: *See*—  
Dodson, Raymond M., and Bergstrom. 2,951,857.
- Bergstrom, Clarence G., to G. D. Searle & Co. 17-oxygenated 9A-substituted androstano[3,2-C]pyrazoles and derivatives. 2,945,852, 7-19-60, Cl. 260-239.5.
- Bergstrom, Clarence G., to G. D. Searle & Co. 17a-hydroxy-21-fluoro-4-pregnene-3,11,20-trione. 2,964,539, 12-13-60, Cl. 260-397.45.
- Bergstrom, Clarence G., to G. D. Searle & Co. 11-oxygenated-21-fluoro-4-pregnene-3,20-dione. 2,965,654, 12-20-60, Cl. 260-397.3.
- Bergstrom, Clarence G., and R. T. Nicholson, to G. D. Searle & Co. Dehydro derivatives of 11-oxygenated 17a-lower alkanoyl-oxy-9a-halopregnane-3,20-diones. 2,963,498, 12-6-60, Cl. 260-397.45.
- Bergstrom, Daniel P., to Sun Oil Co. Apparatus for gauging liquid level. 2,957,347, 10-25-60, Cl. 73-321.
- Bergstrom, Eric V., to Socony Mobil Oil Co., Inc. Method and apparatus for the supply of hydrocarbon charge to conversion reactors. 2,923,677, 2-2-60, Cl. 203-48.
- Bergstrom, Eric V., to Socony Mobil Oil Co., Inc. Kiln for regeneration of contact material. 2,936,221, 5-10-60, Cl. 23-288.
- Bergstrom, Eric V., to Socony Mobil Oil Co., Inc. Regeneration of contact material. 2,941,956, 6-21-60, Cl. 252-413.
- Bergstrom, Eric V., to Socony Mobil Oil Co., Inc. Method and apparatus for the supply of hydrocarbon charge to a conversion reactor. 2,956,011, 10-11-60, Cl. 208-166.
- Bergstrom, Eric V., and R. D. Drew, to Socony Mobil Oil Co., Inc. Catalyst transfer apparatus in moving bed system. 2,941,874, 6-21-60, Cl. 23-288.
- Bergstrom, Eric V., T. C. Catrall, Jr., and J. H. Haddad, to Socony Mobil Oil Co., Inc. Method and apparatus for the supply of hydrocarbon charge to moving mass hydrocarbon conversion processes. 2,956,008, 10-11-60, Cl. 208-166.
- Bergstrom, Eric V., and J. E. Penick, to Socony Mobil Oil Co., Inc. Hydrocarbon conversion process and apparatus. 2,956,009, 10-11-60, Cl. 208-166.
- Bergstrom, James D. Power operated shoe care device. 2,934,775, 5-3-60, Cl. 15-131.
- Bergstrom, Lars O., and J. O. Persson, to Aktiebolaget Bofors. Explosive ammunition and a method of manufacturing the same. 2,940,390, 6-14-60, Cl. 102-8.
- Bergstrom, Lars R., to Allmanna Svenska Elektriska Aktiebolaget. Arrangement for high speed reclosing of electrical power lines. 2,960,630, 11-15-60, Cl. 317-25.
- Bergstrom, Roland F. M.: *See*—  
Edgar, John A., Bergstrom, and Jones. 2,958,660.  
Edgar, John A., Bergstrom, and Jones. 2,958,662.
- Bergstrom, Victor J., to Johnson Spring Cushion Co. Spring unit lacing machine. 2,925,099, 2-16-60, Cl. 140-92.7.
- Bergvall, Ardell J.: *See*—  
Naeser, Howard J., Hall, and Bergvall. 2,942,308.
- Bergwerksgesellschaft Hibernia Aktiengesellschaft: *See*—  
Rindtorff, Ermbrecht, and Schmitt. 2,936,279.  
Rindtorff, Ermbrecht, Schmitt, and Keller. 2,956,983.
- Bergwerksverband G.m.b.H.: *See*—  
Benning, Anton, Emte, Grosskinsky, and Fruhbuss. 2,966,514.
- Beriger, Ernst, to Ciba Ltd. Process for the manufacture of dialkyl dichlorovinyl phosphates. 2,931,826, 4-5-60, Cl. 260-461.
- Beringer, William J. Liquid gas contact device. 2,932,361, 4-12-60, Cl. 183-26.
- Berk, Aristid D., to Hughes Aircraft Co. Rectangular to circular waveguide coupler. 2,939,094, 5-31-60, Cl. 333-21.
- Berk, Aristid D., and E. Strumwasser, to Hughes Aircraft Co. Waveguide coupling device with switching arrangement. 2,951,215, 8-30-60, Cl. 333-7.
- Berk, Martin A., to Deere & Co. Feed grinder with wagon unloader. 2,927,740, 3-8-60, Cl. 241-186.
- Berkeley Chemical Corp.: *See*—  
Beinfest, Sidney, Adams, and Halpern. 2,934,559.  
Halpern, Joseph. 2,957,026.
- Berkeley, Peter J., Jr., to Esso Research and Engineering Co. Increasing viscosity of copolymers. 2,925,449, 2-16-60, Cl. 260-669.
- Berkelhammer, Gerald: *See*—  
Young, Richard W., and Berkelhammer. 2,959,610.
- Berkelmans, Nicholas T. Stenographic machine. 2,923,393, 2-2-60, Cl. 197-9.
- Berkemann, Heinrich, Ad.: *See*—  
Berkemann, Walter. 2,958,324.
- Berkemann, Walter, to Heinrich Berkemann, Ad. Toe straightening device. 2,958,324, 11-1-60, Cl. 128-81.
- Berkenblit, Samuel E.: *See*—  
Graff, Alan R., Jurgens, and Berkenblit. 2,947,669.
- Berkenbosch, Rinke: *See*—  
Dost, Nicolaas, and Berkenbosch. 2,923,657.
- Berkey, Donald C.: *See*—  
Gatzemeyer, Jacob B., Berkey, and Loft. 2,936,028.
- Berkey, Harry L., and F. Nell, to Landis Machine Co. Thread rolling attachment. 2,919,612, 1-5-60, Cl. 80-6.
- Berkey, Reynold A., and H. Bluestone, to Diamond Alkali Co. 3,3,4,4-tetrachlorotetrahydrothiophene-1,1-dioxide and method of preparation. 2,957,887, 10-25-60, Cl. 260-332.1.
- Berkeyheiser, James E., Jr.: *See*—  
Kazan, Benjamin, and Berkeyheiser. 2,943,205.
- Berkhimer, Arthur K., to Architectural Porcelain Constructors. Shaping die for bending anchor clips over a reinforcing member of a building panel. 2,925,848, 2-23-60, Cl. 153-11.
- Berkin, George M., to International Business Machines Corp. Relay arithmetic device. 2,955,760, 10-11-60, Cl. 235-174.
- Berklegge, Emil. Power load equalizer. 2,939,343, 6-7-60, Cl. 74-752.
- Berkley, Carl, H. P. Mansberg, G. N. Thomas, and Y. Yamagami, to Allen E. Du Mont Laboratories, Inc. Particle counter. 2,948,470, 8-9-60, Cl. 235-92.
- Berkley, Earl E., S. C. Mayne, Jr., and J. A. Reddick, to The Sheffield Corp. Apparatus for measuring fiber permeability. 2,919,573, 1-5-60, Cl. 73-38.
- Berkley Machine Co.: *See*—  
Skow, Ross E. 2,929,319.  
Subklew, Hermann. 2,956,484.  
Winkler, Richard, and Dunnebie. 2,944,812.
- Berkman, John W., R. E. Jones, and P. D. Senstad, to Research Corp. Pump-oxygenator. 2,927,582, 3-8-60, Cl. 128-214.
- Berkoben, Charles W., to Westinghouse Air Brake Co. Compressor control system. 2,937,801, 5-24-60, Cl. 230-7.
- Berkowitz, Barry: *See*—  
Rosenfeld, Azriel, and Berkowitz. 2,941,311.
- Berkowitz, Hyman C., to Mr. Boston Distiller Inc. Display rack for bottles. 2,919,814, 1-5-60, Cl. 211-74.
- Berkowitz, Leonard I., and S. G. Davis. Method of coating and protecting frozen meat. 2,957,772, 10-25-60, Cl. 99-194.
- Berkowitz, Lewis M.: *See*—  
Rylander, Paul N., and Berkowitz. 2,944,094.
- Berkowitz, Nathan L.: *See*—  
Foote, Daniel J., and Berkowitz. 2,949,185.
- Berky, Richard K., to Sperry Rand Corp. Threaded drive yoke. 2,957,715, 10-25-60, Cl. 287-117.
- Berl, Leo, to National Distillers and Chemical Corp. Process for the recovery of nitric oxide. 2,960,386, 11-15-60, Cl. 23-161.
- Berlener, Clarence M. Sanitary graduate rack. 2,957,585, 10-25-60, Cl. 211-74.
- Berley, Eugene F., to General Aniline & Film Corp. System for rapid processing of photographic film. 2,922,353, 1-26-60, Cl. 95-89.
- Berlin, Aaron S., R. J. Classen, F. B. Hale, J. J. Keenan, and R. L. Ortynsky, to United States of America, Army. Explosive gas bomb suitable for clustering. 2,920,561, 1-12-60, Cl. 102-7.2.
- Berlin, Daniel. Collapsible shopping cart. 2,947,546, 8-2-60, Cl. 280-36.
- Berlin, Daniel. Collapsible garment stand. 2,957,669, 10-25-60, Cl. 243-121.
- Berlin, Erna. Method of making buttonholes. 2,922,167, 1-26-60, Cl. 2-243.
- Berlin, Milton, and L. M. Rheingold, to Templet Industries, Inc. Drill-centering jig. 2,936,657, 5-17-60, Cl. 77-62.
- Berlincourt, Don A., and F. T. Brunarski, to Clevite Corp. Polarization of titanate ceramics. 2,928,163, 3-15-60, Cl. 29-25.35.
- Berliner, Henry A. Construction panel. 2,934,934, 5-3-60, Cl. 72-40.



- Berliner Maschinenbau-Actien-Gesellschaft: *See*—  
Diener, Richard. 2,924,016.
- Berliner Maschinenbau A.G., vorm L. Schwartzkopff: *See*—  
Diener, Richard. 2,925,000.
- Berly, Edward M. Air cleaning devices and components therefor. 2,945,554, 7-19-60, Cl. 183-37.
- Berly, Edward M., and J. Welts, to Raytheon Co. Electrical precipitators. 2,925,881, 2-23-60, Cl. 183-7.
- Berly, Milton K. Furniture truck. 2,945,699, 7-19-60, Cl. 280-79.3.
- Berman, Alan, H. C. Beck, and G. J. Imperato, to United States of America, Navy. Weight release mechanisms. 2,929,324, 3-22-60, Cl. 102-13.
- Berman, Baruch, to ACF Industries, Inc. Magnetic reset control for rectifier. 2,925,546, 2-16-60, Cl. 321-25.
- Berman, Elliot, to The National Cash Register Co. Photographic data storage capsules and base coated therewith. 2,953,454, 9-20-60, Cl. 96-90.
- Berman, Howard I., and H. Davis. Attachable adjustable elevating and supporting device. 2,935,813, 5-10-60, Cl. 45-139.
- Berman, Leon J., and A. S. Jacoby, to Hughes Aircraft Co. Magnetic transducer and housing. 2,923,780, 2-2-60, Cl. 179-100.2.
- Berman, Nelson, to United Aircraft Corp. Contactless switch. 2,930,034, 3-22-60, Cl. 340-364.
- Berman, Nelson, to United Aircraft Corp. Sequential pulse analogue to digital converter. 2,938,199, 5-24-60, Cl. 340-347.
- Berman, Nelson, to United Aircraft Corp. Rotary variable inductor and method of making the same. 2,958,057, 10-25-60, Cl. 336-135.
- Berman, Nelson, to United Aircraft Corp. Displacement-to-frequency transducer. 2,964,716, 12-13-60, Cl. 331-113.
- Berman, Nelson, and S. Girsch, to United Aircraft Corp. Analogue to digital transducer. 2,938,198, 5-24-60, Cl. 340-347.
- Berman, Walter B.: *See*—  
Burd, Samuel I., Mayer, and Berman. 2,948,240.
- Bernabei, Elmer J. Rotary slide holder for projectors. 2,938,287, 5-31-60, Cl. 40-36.
- Bernander, Nels K., and R. J. Jones, to United States of America, Atomic Energy Commission. Neutron source. 2,957,096, 10-18-60, Cl. 313-61.
- Bernard, Abraham. Disc counting device. 2,926,673, 3-1-60, Cl. 133-8.
- Bernard, Arthur A. Electrode feeding device for arc welding apparatus. 2,931,890, 4-5-60, Cl. 219-130.
- Bernard, Arthur A. and R. A. Method and device for flux-covered electrode welding. 2,949,528, 8-16-60, Cl. 219-138.
- Bernard, Donald P.: *See*—  
Kirby, Ben H., Bernard, and Milazzo. 2,964,531.
- Bernard Edward Co.: *See*—  
Yellin, Edward. 2,939,422.
- Bernard, Francois R. C., and J. W. Wentworth, to Radio Corp. of America. Color television test signal generator. 2,924,647, 2-9-60, Cl. 178-5.4.
- Bernard, George G., to The Pure Oil Co. Well treating. 2,935,475, 5-3-60, Cl. 252-8.55.
- Bernard, George G., to The Pure Oil Co. Treatment of clayey materials. 2,947,360, 8-2-60, Cl. 166-9.
- Bernard, George G., to The Pure Oil Co. Water flooding process. 2,950,760, 8-30-60, Cl. 166-42.
- Bernard, George G., and N. L. Rimes, to The Pure Oil Co. Water flooding process wherein thickening agent formed in situ. 2,954,825, 10-4-60, Cl. 166-9.
- Bernard, George G., and O. C. Holbrook, to The Pure Oil Co. Method of measuring corrosion rates. 2,963,349, 12-6-60, Cl. 23-230.
- Bernard, George R., and C. F. Falkenberg, to Lazy Boy Lawn Mower Co., Inc. Power driven lawn mower. 2,944,616, 7-12-60, Cl. 180-19.
- Bernard, Gustave J. H. J. Bracing rings for aerial masts. 2,929,472, 3-22-60, Cl. 189-31.5.
- Bernard, Herbert J., and J. A. Morgan. Overload spring. 2,954,970, 10-4-60, Cl. 267-45.
- Bernard, Pierre D. Application of modulated decreasing frequencies to the body. 2,936,762, 5-17-60, Cl. 128-422.
- Bernard, Richard A.: *See*—  
Bernard, Arthur A. and R. A. 2,949,528.
- Bernard, Walter J.: *See*—  
Ross, Sidney D., Bernard, and Markarian. 2,941,946.
- Bernard, Walter J., M. Markarian, and S. D. Ross, to Sprague Electric Co. Electrolytic capacitor and method of making. 2,932,153, 4-12-60, Cl. 317-230.
- Bernard, William B. Saturable bridge modulator. 2,920,290, 1-5-60, Cl. 332-51.
- Bernardi, Luigi: *See*—  
Alberti, Carlo G., Bernardi, Larini, and Vercellone. 2,945,883.
- Bernardini, Angelo. Photoelectric colorimeter. 2,942,515, 6-28-60, Cl. 88-14.
- Bernards, Marwin A.: *See*—  
Werner, Frank D., Keppel, and Bernards. 2,930,227.
- Bernart, William F., and W. J. Hanson, to Pitney-Bowes, Inc. Collating machine. 2,951,697, 9-6-60, Cl. 270-58.
- Bernath, John, to Radio Corp. of America. Self-supported electrode structure and method of making same. 2,923,828, 2-2-60, Cl. 250-211.
- Berne, William E. Exercising apparatus. 2,921,791, 1-19-60, Cl. 272-79.
- Berner, Christian, Aktiebolag: *See*—  
Hallén, Nils R. 2,931,524.
- Berner, Leo, to Aerojet-General Corp. Apparatus for drying or heating granular material. 2,929,152, 3-22-60, Cl. 34-57.
- Berner, Robert G., and W. G. Marancik, to Callery Chemical Co. Preparation of metal borohydrides from sodium borohydride. 2,928,719, 3-15-60, Cl. 23-14.
- Berner, Robert G., R. P. Berni, and S. J. Klach, to Callery Chemical Co. Sodium borohydride from sodium hydride and excess trimethyl borate. 2,939,762, 6-7-60, Cl. 23-14.
- Bernero, Elbert L.: *See*—  
Miller, Thomas M., Persons, and Bernero. 2,936,464.
- Bernet, Edwin J., to Institute of Textile Technology. Portable uniformity meter. 2,923,881, 2-2-60, Cl. 324-61.
- Bernhard, Benjamin S., to The American Hardware Corp. Hold-open device. 2,951,723, 9-6-60, Cl. 292-275.
- Bernhard, Hermann, O. Wahl, and H. Genth, to Farbenfabriken Bayer Aktiengesellschaft. Process for treating protein with pyrocarbonic acid esters. 2,920,068, 1-5-60, Cl. 260-117.
- Bernhard, Johann, to Aktiebolaget Svenska Precisionsverktyg. Reversible screw thread cutting device. 2,940,571, 6-14-60, Cl. 192-56.
- Bernhardt, Carl P.: *See*—  
Baker, Robert M., and Bernhardt. 2,937,217.
- Bernhardt, Daniel. Package sealer. 2,951,141, 8-30-60, Cl. 219-19.
- Bernhardt, Ernest C., to E. I. du Pont de Nemours and Co. Process for intermittent flow of plastic material. 2,952,041, 9-13-60, Cl. 18-55.
- Bernhardt, Ernest C., J. A. Boxler, and P. E. Prince, to E. I. du Pont de Nemours and Co. Coating the interior surfaces of tubular articles. 2,944,298, 7-12-60, Cl. 18-59.
- Bernhardt, Henry. Paint tray and liner therefor. 2,922,176, 1-26-60, Cl. 15-121.3.
- Bernhauer, Konrad, and W. Friedrich, to Merck & Co., Inc. Vitamin B<sub>12</sub> factor. 2,937,167, 5-17-60, Cl. 260-211.5.
- Bernhauer, Konrad, W. Friedrich, G. Gross, and S. Spaude, to Aschaffenburg Zellstoffwerke, A.G. Process of obtaining concentrates of vitamins of the B<sub>12</sub> group from waste liquors and residual products of industrial fermentation processes. 2,943,983, 7-5-60, Cl. 195-96.
- Berni, Rene P.: *See*—  
Berner, Robert G., Berni, and Klach. 2,939,762.
- Bernick, Leslie M.: *See*—  
Holowaty, Michael O., and Bernick. 2,957,349.
- Bernier, Carl J.: *See*—  
Waymouth, John F., Gungle, and Bernier. 2,961,566.
- Bernier, Gaston P. M., to Construccions Meca-Metalliques Chalonnaises. Variable-speed epicyclic gear train transmission device. 2,953,239, 11-1-60, Cl. 74-789.
- Bernier, Napoleon M. Coating composition. 2,964,486, 12-13-60, Cl. 260-23.
- Bernier, Robert V., to Globe Industries, Inc. Flush tank guide. 2,948,901, 8-16-60, Cl. 4-57.
- Berning, Donald F.: *See*—  
Munn, Jay A., Schweikert, Sphar, and Berning. 2,944,331.
- Berning, Rudolf, to Firma Otto Berning & Co. Buckle for belts or the like. 2,924,865, 2-16-60, Cl. 24-74.
- Berninghaus, Karl, to Robert Berninghaus & Söhne. Machine tool, such as a milling machine, particularly for the cutting of keys. 2,924,316, 2-9-60, Cl. 192-25.
- Berninghaus, Robert, & Söhne: *See*—  
Berninghaus, Karl. 2,924,316.
- Bernot, Lucien J., to Societe les Piles Wonder. Plastic encased flat dry battery stack with means to prevent peripheral electrolyte creep. 2,966,538, 12-27-60, Cl. 36-111.
- Bernotas, Ralph J., to General Motors Corp. Vehicle having pivotally interconnected front and rear frame sections. 2,941,612, 6-21-60, Cl. 180-51.
- Bernotsky, George A.: *See*—  
Knox, Lawrence H., and Bernotsky. 2,935,524.
- Berns Air King Corp.: *See*—  
Bernstein, Samuel M., and M. and S. Fischel. 2,929,373.
- Bernstein, Abraham L., to Westinghouse Electric Corp. Transistor pulse generator. 2,957,145, 10-18-60, Cl. 331-112.
- Bernstein, Bernard, to The Nuclear Corp. of America. Multi-element counter tube. 2,957,098, 10-18-60, Cl. 313-108.
- Bernstein, Harold A., to Simmonds Aerocessories Ltd. Liquid densitometers. 2,943,476, 7-5-60, Cl. 73-32.
- Bernstein, Jack: *See*—  
Sowinski, Francis A., Lott, and Bernstein. 2,951,092.
- Yale, Harry L., and Bernstein. 2,943,086.
- Bernstein, Leon B.: *See*—  
Metzler, Charles L., Dennerlein, and Bernstein. 2,948,383.
- Bernstein, Marvin, to United States of America, Army. Frequency responsive circuits. 2,935,610, 5-3-60, Cl. 250-27.
- Bernstein, Samuel M. Portable combination electric rotisserie and charcoal broiler. 2,956,497, 10-18-60, Cl. 99-421.
- Bernstein, Samuel M. Ventilating range hood. 2,962,955, 12-6-60, Cl. 98-115.
- Bernstein, Samuel M., and M. and S. Fischel, to Berns Air King Corp. Portable fan-exhausted cooking device. 2,929,373, 3-22-60, Cl. 126-25.



- Bernstein, Seymour: *See*—  
Allen, William S., and Bernstein. 2,955,119.
- Bernstein, Seymour, J. Garbarini, R. H. Lenhard, and L. L. Smith, to American Cyanamid Co. 16 alpha-17 alpha-20 beta-21 beta-tetrahydroxy 4-pregnenes and esters thereof. 2,938,917, 5-31-60, Cl. 260—397.45.
- Bernstein, Seymour, R. H. Lenhard, and W. S. Allen, to American Cyanamid Co. Pregnadienes and method of preparing the same. 2,943,098, 6-28-60, Cl. 260—397.45.
- Bernstein, Seymour, and R. H. Lenhard, to American Cyanamid Co. Cortisone derivatives and method of preparing the same. 2,951,084, 8-30-60, Cl. 260—397.45.
- Bernstein, Seymour, L. L. Feldman, W. S. Allen, and R. H. Blank, to American Cyanamid Co. Oxidation of steroids and products thereof. 2,962,512, 11-29-60, Cl. 260—397.45.
- Bernstein, Stanley, to General Electric Co. Back scatter thickness gauge. 2,964,633, 12-13-60, Cl. 250—83.6.
- Bernstein-Bervery, Sergio, to General Precision, Inc. Audio amplifier. 2,947,947, 8-2-60, Cl. 330—117.
- Bernuth Lembeck Co., Inc.: *See*—  
Jack, Arthur C. 2,929,561.
- Bernutz, Johannes, to International Standard Electric Corp. Multi-contact arrangement for multi-switches. 2,936,340, 5-10-60, Cl. 179—27.54.
- Bernz, Otto, Co., Inc.: *See*—  
Kachergis, Henry J. 2,944,743.  
Le Blanc, Gerald A. 2,944,742.
- Berr, Robert J.: *See*—  
Zeidler, Reinhold C., and Berr. 2,931,476.
- Berridge, Thomas W.: *See*—  
De Smet, George W., and Berridge. 2,964,225.
- Berrill, Carroll H.,  $\frac{2}{3}$  to S. Maizue. Electro magnetic actuator. 2,954,701, 10-4-60, Cl. 74—126.
- Berriozabal, José M.: *See*—  
De Sillano, Carlos S. F. D., and Berriozabal. 2,930,699.
- Berry, Charles C., to James Lees and Sons Co. Pile fabric. 2,961,010, 11-22-60, Cl. 139—403.
- Berry, Clifford E., to Bell & Howell Co. Stabilized D.C. amplifier. 2,936,423, 5-10-60, Cl. 330—9.
- Berry, Clifford E., to Bell & Howell Co. Measuring system. 2,938,170, 5-24-60, Cl. 330—9.
- Berry, Clifford E., to Consolidated Electrodynamics Corp. Stair-step voltage function generator. 2,963,579, 12-6-60, Cl. 250—27.
- Berry, Donald S., to Sun Printers Ltd. Machines for folding paper sheets. 2,950,105, 8-23-60, Cl. 270—72.
- Berry, Foster W., and W. L. Jolitz, to Brunswick Corp. Bowling pins. 2,964,319, 12-13-60, Cl. 273—82.
- Berry, Frank K., to General Motors Corp. Air supply system. 2,926,689, 3-1-60, Cl. 137—322.
- Berry, Henry E., A. C. Hirschle, and T. Zarabara, to United States of America, Army. Time setting mechanism for dual purpose clock. 2,947,137, 8-2-60, Cl. 58—80.
- Berry, Henry W., to Minneapolis-Honeywell Regulator Co. Rebalancing control apparatus. 2,950,429, 8-23-60, Cl. 318—28.
- Berry, James W.: *See*—  
Mitchell, Reid L., Berry, and Wadman. 2,937,922.  
Mitchell, Reid L., Berry, and Wadman. 2,942,931.
- Berry, Jean-Luc. Liquid phase-fluid phase contacting apparatus. 2,923,533, 2-2-60, Cl. 261—110.
- Berry, Kenneth L., to E. I. du Pont de Nemours and Co. Colloidal dispersions of polytetrafluoroethylene in certain alcohols, ethers, or amines and process for preparing same. 2,937,156, 5-17-60, Cl. 260—29.6.
- Berry, Moses E., to Pallet Adapter Co., Inc. Materials handling apparatus. 2,935,283, 5-3-60, Cl. 248—120.
- Berry, Richard C.: *See*—  
Runkel, La Vern E., Berry, and Oaks. 2,938,624.
- Berry, Robert L. P., A. D. Busby, and D. V. Badger, to Imperial Chemical Industries Ltd. Electric arc furnaces. 2,955,333, 10-11-60, Cl. 22—57.2.
- Berry, Robert W., Jr., to Wesson Co. Milling cutter. 2,945,288, 7-19-60, Cl. 29—105.
- Berry, Ronald: *See*—  
Consoletti, Paul C., and Berry. 2,928,430.
- Berry, Thomas H. Blade unit for rotary brush cutters. 2,936,564, 5-17-60, Cl. 56—295.
- Berry, William L.: *See*—  
Mosby, William L., and Berry. 2,938,904.
- Berry, William L., and W. L. Mosby, to American Cyanamid Co. Azopyrazolanthrones. 2,962,494, 11-29-60, Cl. 260—162.
- Berry, William S. Self-opening and self-closing dispenser. 2,950,027, 8-23-60, Cl. 222—92.
- Berryman, Arthur D.: *See*—  
Elbreder, Charles H. 2,955,087.
- Bersa, Guido, to Gebr. Bohler & Co. Aktiengesellschaft. Equipment for collecting workpieces. 2,926,767, 3-1-60, Cl. 193—38.
- Bersinger, Everitt V., to Minneapolis-Honeywell Regulator Co. Aircraft instruments. 2,941,399, 6-21-60, Cl. 73—116.
- Berst, Neil W.: *See*—  
Dvorkovitz, Vladimir, Berst, and Leist. 2,962,448.
- Berstein, Gregor: *See*—  
Marsden, Peter B., and Berstein. 2,965,568.
- Bersworth, Frederick C., and M. Rubin, to The Dow Chemical Co. Radio-active decontaminant. 2,924,576, 2-9-60, Cl. 252—117.
- Bersworth, Frederick C., and A. E. Martell, to The Dow Chemical Co. Metal ion control. 2,961,311, 11-22-60, Cl. 71—1.
- Berta, Louis F., Jr. Door pull template. 2,949,798, 8-23-60, Cl. 77—62.
- Bertelsen, Alberta M.: *See*—  
Bertelsen, William R., and A. M. 2,935,107.
- Bertelsen, Bruce I., to International Business Machines Corp. Machine and method for reproducing images with photoconductive ink. 2,924,519, 2-9-60, Cl. 96—1.
- Bertelsen, Bruce I., to International Business Machines Corp. Method of manufacturing printed circuits. 2,947,625, 8-2-60, Cl. 96—1.
- Bertelsen, Svend I. Closet construction. 2,944,863, 7-12-60, Cl. 312—238.
- Bertelsen, William R., and A. M. Cutting board. 2,935,107, 5-3-60, Cl. 146—215.
- Berthet, Francois, and J. Desvaux. Device for effecting the driving and facilitating the extraction of piles. 2,942,427, 6-28-60, Cl. 61—73.
- Berthiaume, Laurent: *See*—  
Campbell, Norman B., and Berthiaume. 2,923,706.
- Berthiez, Charles W., to Innocenti Societa Generale per l'Industria Metallurgica e Meccanica. Machine tools. 2,955,515, 10-11-60, Cl. 90—16.
- Berthold, Alfred, and O. J. Grummitt, to The Sherwin-Williams Co. Coating compositions having reduced odor on drying. 2,950,982, 8-30-60, Cl. 106—263.
- Berthold, Cornelius E.: *See*—  
Beam, Chester R., and Berthold. 2,959,477.
- Berthold, George H., and A. Pace, Jr., to Olin Mathieson Chemical Corp. Method for treating preformed polyethylene with an electrical glow discharge. 2,935,418, 5-3-60, Cl. 117—47.
- Berthold, Wolfgang, to International Standard Electric Corp. Gun system comprising an ion trap. 2,921,212, 1-12-60, Cl. 313—76.
- Berthold, Wolfgang, J. Rottgardt, and G. Heller, to International Standard Electric Corp. Storage tube. 2,950,409, 8-23-60, Cl. 313—92.
- Berti, Roland J., and D. C. Bettison. Display switching systems and apparatus therefor. 2,948,881, 8-9-60, Cl. 340—23.
- Berti, Vittorio: *See*—  
Padovani, Carlo, and Berti. 2,929,776.
- Bertie, Louis C., R. G. Plette, and B. Champoux. Gas operated engine heater. 2,950,754, 8-30-60, Cl. 158—125.
- Bertin, Andre: *See*—  
Bardet, Gerard, and Bertin. 2,934,868.
- Bertin, Daniel: *See*—  
Joly, Robert, Warnant, Nomine, and Bertin. 2,923,721.
- Bertin, Jean H.: *See*—  
De Jurquet de la Salle d'Anfreville, Louis M. G., Bertin, and Kadosch. 2,948,148.  
Kadosch, Marcel, and Bertin. 2,934,896.  
Paris, Francois G., Bertin, and Salmon. 2,944,391.
- Bertin, Jean H., to Societe Bertin & Cie (Societe a Responsabilite Limitee). Device for increasing the momentum of a fluid especially applicable as a lifting or propulsion device. 2,922,277, 1-26-60, Cl. 60—35.5.
- Bertin, Jean H., to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Arrangement for deflecting the jets of reaction propulsion units. 2,960,822, 11-22-60, Cl. 60—35.54.
- Bertin, Jean H., and H. F. Schmitt, to Societe Bertin & Cie. Device for increasing the impulsion of a fluid, especially applicable as a lift or propulsion device. 2,944,386, 7-12-60, Cl. 60—35.5.
- Bertin, Jean H., H. Turinetti, H. L. P. Meulien, and L. A. Bauger, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Removable grate for jet deflection. 2,949,734, 8-23-60, Cl. 60—35.
- Bertin, Jean H., and B. J. M. Salmon, to Societe Bertin et Cie. Flame control device for combustion chambers. 2,964,906, 12-20-60, Cl. 60—39.72.
- Bertling, Ronald J., to McGraw-Edison Co. Insulator bracket. 2,942,821, 6-28-60, Cl. 248—67.7.
- Bertling, Ronald J., to McGraw-Edison Co. Insulated dead-end for cables and the like. 2,943,135, 6-28-60, Cl. 174—40.
- Bertling, Ronald J., to McGraw-Edison Co. Mid span spacer and service tap assembly. 2,961,479, 11-22-60, Cl. 174—43.
- Bertolacini, Ralph J., to Standard Oil Co. Activity of platinum-alumina catalyst. 2,928,792, 3-15-60, Cl. 252—441.
- Bertolet, Elmer C., Jr., to United States Gasket Co. Reinforced bellows. 2,920,656, 1-12-60, Cl. 138—49.
- Bertossa, Giuseppe: *See*—  
Conradin, Fritz, Bertossa, and Giesen. 2,965,679.
- Bertossa, Robert C.: *See*—  
Stiles, Lloyd C., and Bertossa. 2,919,487.
- Bertram, James F.: *See*—  
Holness, Douglas, and Bertram. 2,955,120.
- Bertram, John C., to Bertram Wire Products, Inc. Basket and handle combination. 2,938,656, 5-31-60, Cl. 229—52.
- Bertram Wire Products, Inc.: *See*—  
Bertram, John C. 2,938,656.
- Bertrand, Margaret, to United Merchants and Manufacturers, Inc. Process of shaping and forming brassiere cups by chemical shrinkage of the fabric. 2,962,025, 11-29-60, Cl. 128—516.



- Bertrang, Hermann: *See*—  
Riegger, Paul, and Bertrang. 2,924,497.
- Bertsch, Joseph F., to General Motors Corp. Dual height leveling device. 2,930,628, 3-29-60, Cl. 280—124.
- Bertsche, Ralph H., and E. E. Gegenheimer, to General Motors Corp. Dynamoelectric machine. 2,928,963, 3-15-60, Cl. 310—168.
- Bertschinger, Charles F., to Chart-Pak, Inc. Tape dispenser. 2,953,274, 9-20-60, Cl. 216—20.
- Bertuzzi, Andrew F.: *See*—  
Tek, Mehmet R., and Bertuzzi. 2,946,382.
- Berumen, Guillermo: *See*—  
Berumen, Jose A., and Berumen. 2,949,655.
- Berumen, Jose A., and G. Berumen. Method and apparatus for making pre-stressed spun concrete articles. 2,949,655, 8-23-60, Cl. 25—30.
- Berwin, Ted W.: *See*—  
Liu, Frederick F., and Berwin. 2,924,777.
- Berwin, Teddy W., and F. F. Liu, to Dresser Industries, Inc. Oscillograph deflection circuit. 2,962,625, 11-29-60, Cl. 315—26.
- Berwind Fuel Co.: *See*—  
Jolin, Gerald. 2,956,933.
- Beryllium Corp., The: *See*—  
Lenhart, Robert E. 2,943,933.
- Berz, Max. Ring and roller pulverizing apparatus. 2,944,744, 7-12-60, Cl. 241—132.
- Berz, Max, and H. R. Rehmer. Garage. 2,961,718, 11-29-60, Cl. 20—113.
- Berzac, John: *See*—  
Berzack, Steven, and Berzac. 2,957,272.
- Berzack, Steven, and J. Berzac. Action toy savings bank. 2,957,272, 10-25-60, Cl. 46—4.
- Berzins, Talivaldis, to E. I. du Pont de Nemours and Co. Bleaching of mechanical wood pulp with boranes. 2,960,427, 11-15-60, Cl. 162—7.
- Besimer, William B.: *See*—  
Lytle, Gene S., Wilcox, and Besimer. 2,943,539.
- Besley-Welles Corp.: *See*—  
Napp, Sidney M. Re. 24,777.
- Beslier, Jacques P. J., L. Cotadze, and P. Chaffiotte, to Societe d'Exploitation des Matiers Hispano-Suiza. Engine fuel control including acceleration-biased control signal selector. 2,948,114, 8-9-60, Cl. 60—35.6.
- Bess, Leon, to United States of America, Navy. Pulse decoder having pulse width and pulse spacing discriminating means. 2,948,854, 8-9-60, Cl. 328—56.
- Besse, Celestine P., to California Research Corp. Method of operating an elevated deck drill barge. 2,927,436, 3-8-60, Cl. 61—46.5.
- Besse, Harlan F.: *See*—  
Houser, Philip H., and Besse. 2,943,740.
- Bessen, Irwin I., to North American Philips Co., Inc. Fluorescence analysis. 2,925,497, 2-16-60, Cl. 250—53.
- Besserer, Carl W., Jr., to United States of America, Navy. Launching carriage for jet-propelled missiles. 2,960,034, 11-15-60, Cl. 102—49.
- Bessiere, Pierre E. Reciprocating action liquid pumps and in particular in fuel injection pumps. 2,940,398, 6-14-60, Cl. 103—41.
- Bessiere, Pierre E. Self-regulating piston pumps, in particular fuel injection pumps for internal combustion engines. 2,946,287, 7-26-60, Cl. 103—41.
- Bessiere, Pierre E. Reciprocating piston pumps, in particular for the injection of fuel. 2,947,257, 8-2-60, Cl. 103—41.
- Bessiere, Pierre E. Self-regulating reciprocating piston pumps, in particular for the injection of fuel into internal combustion engines. 2,947,258, 8-2-60, Cl. 103—41.
- Bessiere, Pierre E. Injection devices including a reciprocating piston injection pump. 2,950,709, 8-30-60, Cl. 123—139.
- Bessiere, Pierre E., to Compagnie Telma. Eddy current braking apparatus. 2,957,093, 10-18-60, Cl. 310—93.
- Bessiere, Pierre E. Reciprocating action pumps and in particular fuel injection pumps. 2,958,290, 11-1-60, Cl. 103—41.
- Bessiere, Pierre E. Reciprocating action pumps and in particular in fuel injection pumps for internal combustion engines. 2,965,037, 12-20-60, Cl. 103—41.
- Besson, Louis, to Sud-Aviation Societe Nationale De Constructions Aeronautiques. Aerodynes, more particularly pilotless aerodynes. 2,943,815, 7-5-60, Cl. 244—14.
- Besson, Louis. Power propelled vehicle or other machine. 2,960,293, 11-15-60, Cl. 244—119.
- Besson, Paul: *See*—  
Galvin, Andre, Besson, Brun, and Thirion. 2,944,083.
- Besson, Rene: *See*—  
Beyner, Andre, and Besson. 2,964,901.
- Best, Bernard H. Rotary spool rack. 2,944,761, 7-12-60, Cl. 242—139.
- Best, Cleafe A., Jr., and W. Chow, to Sparks-Withington Co. Horn with plastic projector. 2,958,307, 11-1-60, Cl. 116—137.
- Best, Cyril: *See*—  
Pocock, Frederick, and Best. 2,952,262.
- Best Feeds & Farm Supplies, Inc.: *See*—  
Shiffler, Albert E. 2,953,429.
- Best, Fred: *See*—  
Fortess, Fred and Best. 2,954,269.
- Best, John E., to Electric & Musical Industries Ltd. Class B amplifiers. 2,931,990, 4-5-60, Cl. 330—117.
- Best, John H., & Sons: *See*—  
Best, Leon H. 2,958,425.
- Best, Leon H. 2,962,170.
- Best, John H., & Sons, Inc.: *See*—  
Best, Leon H., and Buckner. 2,930,488.
- Best, Leon H., and Sourian. 2,919,812.
- Best, Leon H., to John H. Best & Sons, Inc. Racks. 2,958,425, 11-1-60, Cl. 211—44.
- Best, Leon H., to John H. Best & Sons. Storage racks. 2,962,170, 11-29-60, Cl. 211—182.
- Best, Leon H., and Z. Sourian, to John H. Best & Sons, Inc. Display stands. 2,919,812, 1-5-60, Cl. 211—45.
- Best, Leon H., and J. F. Buckner, to John H. Best & Sons, Inc. Storage racks. 2,930,488, 3-29-60, Cl. 211—147.
- Best, Melvin H., to The Cal-Dak Co. Shopping cart. 2,920,900, 1-12-60, Cl. 280—36.
- Best Metal Kraft, Inc.: *See*—  
Meyers, Leo J. 2,963,275.
- Best, Stanley G., to United Aircraft Corp. Hydromechanical propeller control. 2,923,361, 2-2-60, Cl. 170—135.29.
- Best, Stanley G., to United Aircraft Corp. Fuel control. 2,941,601, 6-21-60, Cl. 170—135.74.
- Best, Stanley G., to United Aircraft Corp. Distribution system for aircraft air conditioning. 2,953,078, 9-20-60, Cl. 98—1.5.
- Best, Stanley G., to United Aircraft Corp. Turbine engine fuel control. 2,959,002, 11-8-60, Cl. 60—39.16.
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- Best, Stanley G., to United Aircraft Corp. Aircraft air conditioner distribution system. 2,960,020, 11-15-60, Cl. 98—1.5.
- Best, Stanley G., to United Aircraft Corp. Fuel control mechanism. 2,963,860, 12-13-60, Cl. 60—39.28.
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- Beste, Harold E., to A. B. Du Mont Laboratories, Inc. Detector. 2,956,203, 10-11-60, Cl. 315—30.
- Bestenreiner, Friedrich: *See*—  
Biedermann, Friedrich, and Bestenreiner. 2,956,488.
- Bester, Werner, and H. Kustenmacher, to Siemens and Halske Aktiengesellschaft Berlin and Munich. Receiver-translator for teleprinter machines. 2,966,547, 12-27-60, Cl. 178—33.
- Bestian, August H. W., to Firma Johann A. Wulff. Derivatives of theophylline and methods of preparing same. 2,924,598, 2-9-60, Cl. 260—253.
- Bestian, Herbert: *See*—  
Bartl, Hugo, Bestion, Diery, Heyna, and Ruckert. 2,961,349.
- Bestoso, Napoleon S. Process for forming candy into twisted stick length units. 2,931,321, 4-5-60, Cl. 107—54.
- Bestrom, Carl J. Tailgate latch. 2,935,350, 5-3-60, Cl. 292—27.
- Besuch, Joachim A., and G. R. Kayes. Magnetic attachment device. 2,954,257, 9-27-60, Cl. 294—65.5.
- Beteiligungs- und Patentverwaltungsgesellschaft mit beschränkter Haftung: *See*—  
Lutcke, Helmut O. 2,935,178.
- May, Johann W. 2,962,880.
- Beter, Ralph H.: *See*—  
Brown, Ralph B., Beter, and Maddox. 2,964,242.
- Beter, Ralph H., and E. L. Newman, to Philco Corp. Electrical system. 2,938,196, 5-24-60, Cl. 340—253.
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- Bethany, Alex. Ditcher gauge. 2,919,490, 1-5-60, Cl. 33—185.
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- Bethea, Malcolm. Cable clamp. 2,946,108, 7-26-60, Cl. 24—135.
- Bethea, John R., III: *See*—  
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- Bethea, Sam R., and B. N. Hill, to Esso Research and Engineering Co. Isomerization of paraffinic hydrocarbons. 2,966,536, 12-27-60, Cl. 260—683.65.
- Bethell, Ralph C.: *See*—  
Scott, Leroy W., Sr. 2,924,347.
- Bethke, John R., R. R. Driscoll, and S. Kuchinsky, to Burroughs Corp. Multi-position electronic gating circuits. 2,940,047, 6-7-60, Cl. 328—52.
- Bethlehem Foundry & Machine Co.: *See*—  
Uhl, Vincent W., and Sturman. 2,963,996.
- Bethlehem Gear and Machine Co.: *See*—  
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- Bethlehem Steel Co.: *See*—  
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- Blickwede, Donald J., Frame, and Mayer. 2,956,906.
- Drake, Herbert J. 2,938,861.
- Francisco, Herbert H., Ressler, and Ward. 2,930,740.
- Joy, Robert F., and Smollinger. 2,943,434.
- Kowalski, Frank J., and Scavone. 2,966,228.
- Mancke, Edgar B., and Shingledecker. 2,927,871.
- Ray, Francis A., and Myers. 2,964,203.
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- Bethune, George R., Jr., to The Goodyear Tire & Rubber Co. Knot-tying apparatus. 2,947,558, 8-2-60, Cl. 289-2.
- Bett, Kenneth J.: *See*—  
Loret, Jerzy A., Morris, Mayne, and Bett. 2,953,414.
- Bettencourt, Alexander R. and W. G.: said W. G. Bettencourt assor. to R. B. Bentley. Fork lift stacker. 2,959,313, 11-8-60, Cl. 214-731.
- Bettencourt, Theodore R., to John I. Paulding, Inc. Electric switch with terminal plate and wire grip therefor. 2,946,036, 7-19-60, Cl. 339-95.
- Bettencourt, William G.: *See*—  
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- Bettendorf Bakery Equipment Co.: *See*—  
Boitscha, Herbert E., and Metz. 2,966,015.
- Better, Bernard R., and R. F. Wharton, to Scully-Jones and Co. Hydraulically expanding thin walled tools. 2,963,298, 12-6-60, Cl. 279-4.
- Better Belts, Inc.: *See*—  
Stollman, Harry E. 2,924,827.
- Bettigole, Alfred W.: *See*—  
Sullivan, Edward M. 2,943,842.
- Bettin, Roger R., and W. E. Herzog, to Collins Radio Co. Regulator for carrier signal insertion circuit. 2,965,857, 12-20-60, Cl. 332-38.
- Bettison, David C.: *See*—  
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- Bettman, Ernest: *See*—  
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- Betton, Arnold L. Tweezers. 2,943,521, 7-5-60, Cl. 81-43.
- Bettoni, Eugene C.: *See*—  
Larges, Ernest R., and Bettoni. 2,935,076.
- Bettoni, Guido. Revolving comb for combing machines. 2,941,260, 6-21-60, Cl. 19-115.
- Betts, Howard B.: *See*—  
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Subach, Albert C., and Betts. 2,937,447.
- Betts, Joseph L., Jr., and H. K. Wiese, to Esso Research and Engineering Co. Production of binders for sand cores. 2,963,456, 12-6-60, Cl. 260-23.7.
- Betts, Raymond L.: *See*—  
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- Betts, Sanford N., and W. P. Downey, to Hyster Co. Load carrier having hold-down device. 2,924,346, 2-9-60, Cl. 214-394.
- Betts, Timon R.: *See*—  
Ogle, George L., Betts, and Turner. 2,939,260.
- Betty, Charles E.: *See*—  
Evans, Arthur, and Betty. 2,960,622.
- Betz, Howard T.: *See*—  
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- Betzel, Alvin E., Sr. Power driven pipe wrapping machine. 2,923,486, 2-2-60, Cl. 242-11.
- Beucker, Albert W., to Raybestos-Manhattan, Inc. Method of producing designs on heat-treated articles. 2,940,125, 6-14-60, Cl. 18-47.5.
- Beuermann, Wilhelm, to Firma Seismos, Gesellschaft mit beschränkter Haftung. Seismic device. 2,933,715, 4-19-60, Cl. 340-17.
- Beuermann, Wilhelm, to Seismos G.m.b.H. Seismic exploration apparatus. 2,949,974, 8-23-60, Cl. 180-5.
- Beuk, Jack F.: *See*—  
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- Beurle, Raymond L., to National Research Development Corp. Electron optical devices. 2,922,922, 1-26-60, Cl. 315-11.
- Beurrier, Henry R., to Bell Telephone Laboratories, Inc. Electron discharge devices using grid control scanning. 2,920,231, 1-5-60, Cl. 315-30.
- Beurtheret, Charles A. E., to General Electric Co. Electric discharge device cooling system. 2,935,305, 5-3-60, Cl. 257-250.
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- Beusker, Gerardus H., and F. A. Schneider, to Accumulatoren-fabrik "Varta" N.V. Separator for electric accumulators. 2,925,456, 2-16-60, Cl. 136-145.
- Beutel, Ralph H., and P. P. Klemchuk, to Merck & Co., Inc. Processes for preparing  $\beta$ -alanine. 2,956,080, 10-11-60, Cl. 260-534.
- Beuther, Harold, to Gulf Research & Development Co. Apparatus and process for hydrofining hydrocarbons. 2,937,138, 5-17-60, Cl. 208-213.
- Beuther, Harold, and R. A. Flinn, to Gulf Research & Development Co. Process for hydrogen treatment and catalytic cracking of petroleum hydrocarbons. 2,945,803, 7-19-60, Cl. 208-89.
- Beuther, Harold, A. M. Henke, and J. B. McKinley, to Gulf Research & Development Co. Process for preparing a multi-grade lubricating oil and product. 2,960,458, 11-15-60, Cl. 208-19.
- Beutler, Hervey F., to Dow Corning Corp. Zirconium acetate-zinc acetate catalyzed organohydrogenosiloxane emulsions and the treatment of fabrics therewith. 2,927,870, 3-8-60, Cl. 117-135.5.
- Bevans, Rowland S., to Ethyl Corp. Fuel systems for compression ignition engines. 2,955,028, 10-4-60, Cl. 44-2.
- Beveridge, Harold N., to Curtiss-Wright Corp. Miss-distance indicator. 2,955,778, 10-11-60, Cl. 244-14.
- Beveridge, Harold N., to Minneapolis-Honeywell Regulator Co. Bidirectional tape transport apparatus. 2,956,718, 10-18-60, Cl. 226-50.
- Beverley, Graham E., and J. F. Wallace, to National Research Development Corp. Forming of sheet metal. 2,952,294, 9-13-60, Cl. 153-48.
- Beverly, Rheinhardt J. Hair curler. 2,936,766, 5-17-60, Cl. 132-39.
- Bevis, George E., and P. C. Hungerford, Jr., to Curtiss-Wright Corp. Steering mechanisms and the like. 2,927,551, 3-8-60, Cl. 115-18.
- Beyer, Arthur: *See*—  
Siebels, Ernst, and Beyer. 2,947,404.
- Beyer, Donald C.: *See*—  
Martens, Jack E., and Beyer. 2,929,652.
- Beyer, Eugen. Magnetic recording and reproducing equipment. 2,946,593, 7-26-60, Cl. 274-4.
- Beyer, Fred K. Garden tool. 2,945,543, 7-19-60, Cl. 172-376.
- Beyer, Fred K., and W. Bader, to Wesson Co. Grinding machine. 2,958,164, 11-1-60, Cl. 51-55.
- Beyer, Haim, to Cornell-Dubilier Electric Corp. Method of encapsulating and impregnating electrical capacitors. 2,942,302, 6-28-60, Cl. 18-59.
- Beyer Peacock & Co. Ltd.: *See*—  
Hadfield, James. 2,929,662.
- Beyer, Thomas W. Attachment for bench work holder. 2,941,796, 6-21-60, Cl. 269-134.
- Beyer, Walter O. Flexible pipe coupling. -2,921,801, 1-19-60, Cl. 285-5.
- Beyer, Walter O. Grip element and coupling device. 2,922,665, 1-26-60, Cl. 285-105.
- Beyerstedt, Ralph L., to The Frank G. Hough Co. Tractor loader. 2,929,521, 3-22-60, Cl. 214-140.
- Beyerstedt, Ralph L., to The Frank G. Hough Co. Motor vehicle transmissions. 2,946,238, 7-26-60, Cl. 74-665.
- Beyland, Sidney W., to American Telephone and Telegraph Co. Teletypewriter storage control system. 2,965,713, 12-20-60, Cl. 178-17.5.
- Beyler, Roger E.: *See*—  
Saret, Lewis H., and Beyler. 2,922,797.
- Beyler, Roger E., to Merck & Co., Inc. 16-methyl-17-lower acyloxy-21-fluoro-steroid-3,20-diones. 2,954,386, 9-27-60, Cl. 260-397.47.
- Beyner, Andre, I. Scherrer, and H. Morier, to Ebauches S.A. Timepiece comprising an electromagnetically maintained oscillating regulator. 2,946,940, 7-26-60, Cl. 318-128.
- Beyner, Andre, and R. Besson, to Ebauches S.A. Lever escapement for timepieces. 2,964,901, 12-20-60, Cl. 58-121.
- Beyrle, Thomas T., to Jackson Exit Device Corp. Door assembly. 2,923,036, 2-2-60, Cl. 20-16.
- Beyrle, Thomas T., to Jackson Exit Device Corp. Push bar for metal doors. 2,931,078, 4-5-60, Cl. 20-16.
- Beyvl Joseph M.: *See*—  
Barnett, Charles H., and Beyvl. 2,926,008.
- Bhattacharyya, Sasanka C.: *See*—  
Kelkar, Govind R., and Bhattacharyya. 2,946,783.
- Bialer, Max, to United States of America, Air Force. Vacuum tube socket. 2,943,291, 6-28-60, Cl. 339-75.
- Bialy, Joseph. Strain gage trimmer. 2,959,082, 11-8-60, Cl. 83-561.
- Bianchi, Henry E., to G. Cella Inc. Conveyor systems and tray orienting means therefor. 2,925,902, 2-23-60, Cl. 198-158.
- Bianchi, Louis R., to The Proctor-Silex Corp. Shelf assembly. 2,958,427, 11-1-60, Cl. 211-148.
- Bianco, Louis E.: *See*—  
Grangie, Pierre R. C. 2,942,404.
- Bianco, Ruthe F. Brassiere. 2,946,334, 7-26-60, Cl. 128-484.
- Biasoni, Luigi, to Granell Mfg. Ltd. Floor grinding machine. 2,923,107, 2-2-60, Cl. 51-177.
- Bibbero, Robert J., and A. Mann, to Bulova Research and Development Laboratories, Inc. Illuminated inspection probe for small objects. 2,922,873, 1-26-60, Cl. 240-218.
- Bibbins, Gareth L., to Norton Co. Metal bonded grinding wheel. 2,960,392, 11-15-60, Cl. 51-308.
- Bibbo, Carmen, and R. E. Browning, to United States of America, National Aeronautics and Space Administration. Flexible seal for valves. 2,945,667, 7-19-60, Cl. 251-173.
- Biber, Albert, to Gulf Research & Development Co. Fluid proportioning system. 2,938,650, 5-31-60, Cl. 222-70.
- Bible, Roy H., Jr., to G. D. Searle & Co. 17a-carboxyethyl-6-halo-17 $\beta$ -hydroxyandrost-4-en-3-one lactones and intermediates. 2,946,787, 7-26-60, Cl. 260-239.57.
- Bible, Roy H., Jr., to G. D. Searle & Co. 1,12-dimethyl-6-hydroxy-7-aroxy-1,2,3,4,9,10,11,12-octahydrophenanthrene-1-carboxylic acids, ethers and esters thereof. 2,947,778, 8-2-60, Cl. 260-468.5.
- Bible, Roy H., Jr., and R. R. Burtner, to G. D. Searle & Co. 17-carboxyalkylated 3-oxygenated 6-methylandrosten-17-ol lactones and intermediates. 2,938,031, 5-24-60, Cl. 260-239.55.
- Bible, Roy H., Jr., and W. M. Hoehn, to G. D. Searle & Co. 1,4A-dimethyl- $\alpha$ -oxopropylphenanthrene-1-carboxylic acid and related compounds. 2,921,956, 1-19-60, Cl. 260-468.5.



- Bic Pen Corp.: See—  
Williams, Harold W. 2,931,338.
- Bice, Charles C., to Phillips Petroleum Co. Extrusion aids for extrudable solid compositions. 2,965,465, 12-20-60, Cl. 52-5.
- Bice, Lloyd R., to United States Steel Corp. Impact head for setting mine-roof bolts. 2,953,082, 11-1-60, Cl. 1-49.9.
- Bicek, Edward J., to Universal Oil Products Co. Production of alumina hydrogel. 2,955,915, 10-11-60, Cl. 23-143.
- Biche, Jean, and L. Andouart; said Biche assor. to said Societe Le Materiel De Cablerie. Manufacture of wire strands, bunches and cables. 2,941,348, 6-21-60, Cl. 57-7.
- Biche, Jean, and L. Andouart; said Biche assor. to Le Materiel de Cablerie. Machines for furnishing electric wires with a multi-colored plastic covering. 2,962,756, 12-6-60, Cl. 18-13.
- Bichsel, Harry J.: See—  
Steinert, Emil F., Bichsel, and Lester. 2,957,118.
- Bichsel, Harry J., to Westinghouse Electric Corp. Arc welding apparatus. 2,933,592, 4-19-60, Cl. 219-131.
- Bicicchi, Vincent A., to Henry Pratt Co. Closure seal. 2,932,862, 4-19-60, Cl. 20-69.
- Bick, David H. Ring sizer. 2,962,796, 12-6-60, Cl. 29-8.
- Bick, John D., to Radio Corp. of America. Phonograph apparatus. 2,921,992, 1-19-60, Cl. 179-100.4.
- Bick, Rudolf, and F. Brochhagen, to Mobay Chemical Co. Preparation of cellular polyurethane resins using sulfated compounds as emulsifiers. 2,938,005, 5-24-60, Cl. 260-2.5.
- Bickers, Arthur, to Marconi's Wireless Telegraph Co. Ltd. Reactance valve circuit arrangements. 2,965,862, 12-20-60, Cl. 333-80.
- Bickerstaff, Inc.: See—  
Brooks, Marion E. 2,938,351.
- Bickford, Arthur M.: See—  
Scott, William D., Gaffney, and Bickford. 2,965,071.
- Bickford, Fred A., and F. I. Peters, to United States of America, Atomic Energy Commission. Granulation method. 2,933,766, 4-26-60, Cl. 18-47.5.
- Bicking, John B., G. S. Skinner, and J. R. Lovett. Derivatives of 3,5-morpholinediones. 2,948,723, 8-9-60, Cl. 260-247.7.
- Bickmore, John T., and J. Hoffman, said J. Hoffman assor. to Haloid Xerox Inc. Double screen corona device. 2,965,754, 12-20-60, Cl. 250-49.5.
- Bickoff, Emanuel M., and A. N. Booth, to United States of America, Agriculture. Preparation of coumestrol esters and use thereof. 2,929,713, 3-22-60, Cl. 99-2.
- Biddison, John M., to H. W. Moore. Method of winding a lap winding. 2,949,554, 8-16-60, Cl. 310-206.
- Biddle, James G.: See—  
Foster, William P. 2,948,849.
- Biddle, Leslie G. Air and vapor eliminator for pipe lines. 2,935,990, 5-10-60, Cl. 137-202.
- Bider, Gianni. Movable roll support for a baller. 2,948,484, 8-9-60, Cl. 242-54.4.
- Bidlingmaier, Ernst R., and V. H. Dutchik, to General Motors Corp. Roof rail molding and clip for a vehicle. 2,930,652, 3-29-60, Cl. 296-137.
- Bidner, John: See—  
Schofield, William W., Owen, and Bidner. 2,957,213.
- Bidwell, Carolyn S.: See—  
Ober, Andrew, Henley, and Bidwell. 2,963,003.
- Bidwell, Harry H., to Allis-Chalmers Mfg. Co. Bulldozer tractor. 2,921,392, 1-19-60, Cl. 37-144.
- Bidwell, Howard. Apparatus for the treatment of paper stock. 2,936,128, 5-10-60, Cl. 241-157.
- Bidwell, Joseph B., to General Motors Corp. Servo system with controls for vehicular power steering. 2,962,108, 11-29-60, Cl. 180-79.2.
- Bie, Edward L., to Western Progress Manufacturers. Man-hole cover lifter. 2,952,373, 9-13-60, Cl. 214-370.
- Bieber, Herman: See—  
Rust, James H., and Bieber. 2,943,048.
- Bieber, Herman, and H. M. Hartzband, to Esso Research and Engineering Co. Process for the removal of porphyrin metallic contaminants using ozone. 2,934,497, 4-26-60, Cl. 208-251.
- Bieberdorf, Frederick W., and J. W. Rhoades, to American Hospital Supply Corp. Liquid packaging method. 2,949,712, 8-23-60, Cl. 53-29.
- Biedenstein, Vincent G.: See—  
Schmidt, Harold J. H., and Biedenstein. 2,941,699.
- Biedenstein, Vincent G., to R. C. Can Co. Caulking cartridge, spout-type, end closure. 2,941,697, 6-21-60, Cl. 222-160.
- Biedermann, Friedrich: See—  
Lingg, Alfred, Biedermann, and Wick. 2,961,921.
- Wick, Richard, and Biedermann. 2,933,011.
- Biedermann, Friedrich, and R. Wick. Timing apparatus. 2,935,649, 5-3-60, Cl. 315-241.
- Biedermann, Friedrich, and F. Bestenreiner, to Agfa Aktiengesellschaft. Photographic camera with automatic shutter retarding device. 2,956,488, 10-18-60, Cl. 95-10.
- Biedermann, Walter, F. Beffa, and G. Schetty, to J. R. Geigy, A.-G. Heavy metal-containing azo dyestuffs. 2,933,488, 4-19-60, Cl. 260-145.
- Biedermann, Walter, F. Beffa, and G. Schetty, to J. R. Geigy, A.-G. Heavy metal-containing dyestuffs. 2,933,489, 4-19-60, Cl. 260-145.
- Biedermann, Walter, F. Beffa, and G. Schetty, to J. R. Geigy, A.-G. Chromium-containing azo dyestuffs. 2,933,490, 4-19-60, Cl. 260-145.
- Biedinger, Henry J., to The Syracuse Stamping Co., Inc. Typewriter ribbon spool. 2,961,083, 11-22-60, Cl. 197-175.
- Biedinger, Henry J., to The Syracuse Stamping Co., Inc. Typewriter ribbon spool. 2,961,084, 11-22-60, Cl. 197-175.
- Biefeld, Lawrence P., and R. F. Shannon, to Owens-Corning Fiberglas Corp. Molding composition containing urea formaldehyde resin, gypsum, and glass fiber. 2,966,473, 12-27-60, Cl. 260-29.4.
- Bieger, Jacob J., and A. T. Hill, to Daco Instrument Co. Miniaturized gear reducer. 2,950,635, 8-30-60, Cl. 74-801.
- Biehl, Melvin L. Chemical dispenser for swimming pools. 2,934,409, 4-26-60, Cl. 23-267.
- Biehl, Richard E., and E. A. Gallo, to Curtiss-Wright Corp. Jet engine exhaust nozzle limiting mechanism. 2,923,127, 2-2-60, Cl. 60-35.6.
- Biek, George. Window envelope and addressed filler sheet assembly. 2,941,711, 6-21-60, Cl. 229-73.
- Biel, Hans, and E. Pfäffe, to H. Sickinger. Spiral binder applying device. 2,963,049, 12-6-60, Cl. 140-92.3.
- Biel, John H., to Lakeside Laboratories, Inc. "N-alkyl-piperidyl alkylamines." Re. 24,826, 5-17-60, Cl. 260-247.5.
- Biel, John H., to Lakeside Laboratories, Inc. "a- $\beta$ , (Disubstituted aminoalkyl) acetylenes." Re. 24,853, 8-9-60, Cl. 260-247.5.
- Biel, John H., to Lakeside Laboratories, Inc. 2-(aminoalkyl-hydrazino)-methylpyrrolidines. 2,930,795, 3-29-60, Cl. 260-313.
- Biel, John H., to Lakeside Laboratories, Inc. Tropolyl hydrazines. 2,927,111, 3-1-60, Cl. 260-247.5.
- Biel, John H., to Lakeside Laboratories, Inc. N-amino-nitrogen containing heterocyclic compounds. 2,932,646, 4-12-60, Cl. 260-294.7.
- Biel, John H., to Lakeside Laboratories, Inc. Diamino alkanols and alkanones. 2,937,185, 5-17-60, Cl. 260-326.5.
- Biel, John H., to Lakeside Laboratories, Inc. 1-(1,2,3,4-tetrahydroisoquinoline)- $\omega$ -amino-3-ethinyl-3-hydroxy alkanes. 2,948,722, 8-9-60, Cl. 260-247.5.
- Biel, John H., to Lakeside Laboratories, Inc. 2-(aminoalkyl-amino)-methylpyrrolidines. 2,951,078, 8-30-60, Cl. 260-247.5.
- Biel, John H., to Lakeside Laboratories, Inc. Nor-piperidyl glycolate esters. 2,955,114, 10-4-60, Cl. 260-294.3.
- Bielan, Joseph. Divider for packing container and the like. 2,960,219, 11-15-60, Cl. 206-63.
- Bieling, Howard J.: See—  
Mastrobattista, Alex A., Bieling, and Peters. 2,930,643.
- Biemiller, Philip E.: See—  
Van Horn, John A., Biemiller, and Reese. 2,948,821.
- Van Horn, John A., Biemiller, and Reese. 2,953,896.
- Biemiller, Philip E., to Hamilton Watch Co. Electric time piece. 2,923,123, 2-2-60, Cl. 58-28.
- Biemiller, Philip E., to Hamilton Watch Co. Balance wheel for an electric watch. 2,924,728, 2-9-60, Cl. 310-27.
- Biemiller, Philip E., to Hamilton Watch Co. Counterbalance for balance wheel. 2,936,571, 5-17-60, Cl. 58-28.
- Biemiller, Philip E., and J. A. Van Horn, to Hamilton Watch Co. Balance wheel for electric watch. 2,936,572, 5-17-60, Cl. 58-28.
- Biemiller, Philip E., J. H. Reese, and H. S. Detwiler, to Hamilton Watch Co. Contact mechanism for electric watch. 2,954,663, 10-4-60, Cl. 58-28.
- Biemiller, Philip E., and J. H. Reese, to Hamilton Watch Co. Magnetic circuit for an electric wrist watch. 2,954,664, 10-4-60, Cl. 58-28.
- Biemiller, Philip E., and M. S. Walmer, to Hamilton Watch Co. Electric watch. 2,966,622, 12-27-60, Cl. 318-128.
- Bienvenu, Claude: See—  
Chambadal, Paul, and Bienvenu. 2,924,074.
- Bier, Louis W.: See—  
Littwin, Arthur K. 2,946,932.
- Bierbaum, J. Armin: See—  
Ward, John W., and Bierbaum. 2,963,416.
- Bierman, Charles, Jr., to The Cincinnati Milling Machine Co. Spinning machine. 2,960,951, 11-22-60, Cl. 113-52.
- Biermann, Arnold E. Fluid flowmeter. 2,924,972, 2-16-60, Cl. 73-204.
- Biermann, David, to Hartzell Propeller, Inc. Constant speed and feathering propeller. 2,948,344, 8-9-60, Cl. 170-160.32.
- Biermann, William A., and L. V. McCarty, to Controls Co. of America. Fuel valve limit control. 2,928,407, 3-15-60, Cl. 137-79.
- Biermann, William A., and L. V. McCarty, to Controls Co. of America. Oil control valve. 2,930,388, 3-29-60, Cl. 137-65.
- Biernath, Emil, to Schloemann Aktiengesellschaft. Controlling means for attaining equal speeds of two pistons working against resistances. 2,926,497, 3-1-60, Cl. 60-52.
- Bierwirth, Henry C., and N. L. Rutgers, to Lennox Industries, Inc. Weatherproof outside air intake louver unit. 2,936,874, 5-17-60, Cl. 98-121.
- Biesecker, Donald L., to Illinois Tool Works. Fastening means for a resilient sealing strip. 2,933,794, 4-26-60, Cl. 24-216.



- Biewald, Harold F. Pressurized containers and auxiliary adapter-actuators therefor. 2,942,631, 6-28-60, Cl. 141-360.
- Bigatti, Aldo P. F. Dish drying rack. 2,958,424, 11-1-60, Cl. 211-41.
- Bigbie, Claude R., and E. A. Pence, Jr., to United States of America, Navy. Spherical electro-acoustic transducer with internal heater. 2,966,656, 12-27-60, Cl. 340-10.
- Bigelow, Frederick E.: *See*—  
Bates, Uri C., and Bigelow. 2,957,474.
- Bigelow, Herbert L., to Baker Oil Tools, Inc. Subsurface well bore anchor. 2,966,216, 12-27-60, Cl. 166-134.
- Bigelow, James H., to Cutler-Hammer, Inc. Electromagnetically releasable brake. 2,930,457, 3-29-60, Cl. 188-171.
- Bigelow, John F., to Philco Corp. Circuit tester. 2,922,954, 1-26-60, Cl. 324-158.
- Bigelow, John F., to International Telephone and Telegraph Corp. Electric filter. 2,927,205, 3-1-60, Cl. 250-27.
- Bigelow, John F., to Raytheon Co. Reactance networks. 8,948,869, 8-9-60, Cl. 333-80.
- Bigelow-Liptak Corp.: *See*—  
Sampson, Richard E. 2,933,917.
- Bigelow, Robert P. Level winding device. 2,922,599, 1-26-60, Cl. 242-158.4.
- Bigelow-Sanford Carpet Co., Inc.: *See*—  
Parlin, David B. 2,940,405.  
Reinhardt, Henry A. 2,940,479.  
Reinhardt, Henry A. 2,945,511.
- Biggs, Orrick H., to Sylvania Electric Products Inc. Fluorescent lamp. 2,966,606, 12-27-60, Cl. 313-109.
- Biggs, Robert M., Jr.: *See*—  
Merion, Howard D., and Biggs. 2,919,464.
- Biggs, Robert W., to The S. K. Wellman Co. Method of bending sintered material. 2,946,369, 7-26-60, Cl. 153-48.
- Bigham, George A.: *See*—  
Szostak, Henry T., and Bigham. 2,925,284.
- Bigler, Joseph G.: *See*—  
Bigler, William P., and J. G. 2,931,236.
- Bigler, William P., and J. G. Shock roller assembly. 2,931,236, 4-5-60, Cl. 74-230.01.
- Bignon, Andre P.: *See*—  
Aldrich, David E., and Bignon. 2,949,007.
- Bigos, Chester J. Magnet timing tool. 2,954,849, 10-4-60, Cl. 188-69.
- Bihaly, Lajos, to Trubenised Co. (Registered Trust). Collars for wear. 2,928,098, 3-15-60, Cl. 2-131.
- Bikales, Norbert M., and R. J. Munch, to American Cyanamid Co. Stabilization of acrylamide. 2,927,942, 3-8-60, Cl. 260-561.
- Bilbrey, Charles R. Coordinated control autogyro. 2,954-186, 9-27-60, Cl. 244-17.19.
- Bilco Co., The: *See*—  
Lyons, Robert J. 2,939,738.
- Bilderback, Laverne W.: *See*—  
Young, Henry B., and Bilderback. 2,942,754.
- Bilek, Andrew G., and E. G. Roser, to United States of America, Air Force. Ammunition link. 2,947,222, 8-2-60, Cl. 89-35.
- Bilenker, Eugene N., to Curtiss-Wright Corp. Methods of making beverage concentrate. 2,949,364, 8-16-60, Cl. 99-71.
- Bilinski, Chester F., to Cook Electric Co. System for expelling a mass. 2,945,439, 7-19-60, Cl. 102-4.
- Bill, Clifford E., and N. G. Schwartz, to General American Transportation Corp. Central processed material discharge assembly for rotary processing vessels. 2,936,220, 5-10-60, Cl. 28-286.
- Bill, Walter: *See*—  
Bartz, Gunter E., and Bill. 2,928,943.
- Billard, Paul L., and M. Oliffson, to North American Philips Co., Inc. Optical reproducing system. 2,959,099, 11-8-60, Cl. 88-57.
- Bille, Torben, to Aktieselskabet Nakskov Skibsvareft. Cargo hoisting arrangements. 2,941,674, 6-21-60, Cl. 212-3.
- Billen, Peter, to Schloemann Aktiengesellschaft. Horizontal metal extrusion press. 2,923,407, 2-2-60, Cl. 207-2.
- Billen, Peter, to Schloemann Aktiengesellschaft. Hydraulic drives for extrusion press. 2,931,497, 4-5-60, Cl. 207-4.
- Billen, Peter, to Schloemann Aktiengesellschaft. Pawl and ratchet mechanism for adjusting gap between male and female cable sheathing dies. 2,931,498, 4-5-60, Cl. 207-4.
- Billen, Peter, to Schloemann Aktiengesellschaft. Extrusion press. 2,949,186, 8-16-60, Cl. 207-1.
- Billen, Peter, and H. Robra, to Schloemann Aktiengesellschaft. Extrusion press. 2,933,184, 4-19-60, Cl. 207-3.
- Billeter, Henry R., to Ammco Tools Inc. Comparison gauge. 2,924,020, 2-9-60, Cl. 33-174.
- Billeter, Henry R., to Liquid Controls Corp. Liquid flow control devices. 2,940,460, 6-14-60, Cl. 137-99.5.
- Billeter, Henry R., and G. B. Richards, to Liquid Controls Corp. Fluid valve mechanism. 2,955,797, 10-11-60, Cl. 251-51.
- Billeter, Jean-Rene: *See*—  
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 2,934-543.  
Wettstein, Albert, Anner, Heusler, Ueberwasser, Wieland, Schmidlin, and Billeter. 2,957,868.
- Billey, Leino H., to Donaldson Co., Inc. Silencer. 2,940,538, 6-14-60, Cl. 181-63.
- Billfaldt, Russell V. Golf practicing device. 2,938,729, 5-31-60, Cl. 273-178.
- Billica, Harry R., to E. I. du Pont de Nemours and Co. Process for preparing polyesters in the presence of manganese carboxylate catalysts. 2,951,060, 8-30-60, Cl. 260-75.
- Billin, Arthur G., to Liebel-Flarsheim Co. Reciprocating bucky diaphragm. 2,922,046, 1-19-60, Cl. 250-62.
- Billin, Arthur G., to Liebel-Flarsheim-Co. Basal metabolism apparatus. 2,933,082, 4-19-60, Cl. 128-2.07.
- Billin, James J., to Electric & Musical Industries Ltd. Automatic gain control circuits for television receivers. 2,942,063, 6-21-60, Cl. 178-7.3.
- Billingham, Kenneth A.: *See*—  
Shittitto, Arthur, Watts, and Billingham. 2,930,744.
- Billings, Charles K., to General Motors Corp. Dispensing device for a domestic appliance. 2,933,912, 4-26-60, Cl. 68-17.
- Billings, Joan: *See*—  
Bensel, Duryea. 2,933,229.
- Billings, Roy O. Mortar joint simulator tool. 2,945,253, 7-19-60, Cl. 15-235.3.
- Billings, Roy O. Line marking tool. 2,947,084, 8-2-60, Cl. 33-32.
- Billings, Thomas A. Cutter type land clearing implement. 2,949,945, 8-23-60, Cl. 144-34.
- Billingsley, William F., to The B. F. Goodrich Co. Tire construction. 2,947,339, 8-2-60, Cl. 152-361.
- Billingsley, William F., to The B. F. Goodrich Co. Tire bead grommet. 2,952,293, 9-13-60, Cl. 152-362.
- Billington, Evans R.: *See*—  
Norway, Harold L., and Billington. 2,951,502.
- Billion, Jacques. Apparatus for helically crimping thermoplastic threads. 2,957,224, 10-25-60, Cl. 28-1.
- Billman, Louis S., to United Aircraft Corp. Thrust reversers. 2,931,172, 4-5-60, Cl. 60-35.54.
- Billman, Louis S., to United States of America, Navy. Fuel injection system for ramjet aircraft. 2,935,848, 5-10-60, Cl. 60-39.74.
- Billos, William: *See*—  
Croft, George M., Fisher, and Billos. 2,932,458.
- Bills, Richard H. Negative retouching box. 2,926,593, 3-1-60, Cl. 95-102.
- Bills, Richard H. Double turret mounting for architectural view camera and multiple lenses. 2,960,018, 11-15-60, Cl. 95-44.
- Billson, John A.: *See*—  
Sindy, Clarence F., Kolda, and Billson. 2,960,762.
- Billups, James O., to Northern Union, Inc. Through-wall divided connector. 2,945,085, 7-12-60, Cl. 174-153.
- Billow, Walter, to American Machine and Foundry Co. Bowling pin setting machine. 2,962,284, 11-29-60, Cl. 273-43.
- Bilsback, Malvin S., to International Business Machines Corp. Tape cartridge and tape loading mechanism. 2,941,741, 6-21-60, Cl. 242-55.13.
- Bilwin Co., Inc.: *See*—  
Hunsbedt, Theodore. 2,946,599.
- Bily, Peter J., to Food Machinery and Chemical Corp. Fluid transferring apparatus. 2,927,607, 3-8-60, Cl. 137-615.
- Bilz, Wilhelm, to Siemens-Schuckertwerke Aktiengesellschaft. Automatic recording system. 2,942,243, 6-21-60, Cl. 340-182.
- Bimber, Russell M., to Diamond Alkali Co. Method of controlling insect and fungi comprising contacting with a 1,4-diformyl-2,5-dimethyl piperazine. 2,958,624, 11-1-60, Cl. 167-33.
- Bincer, Hans, and J. R. Boxcer, to The Babcock & Wilcox Co. Apparatus for ultrasonically testing welds. 2,953,017, 9-20-60, Cl. 73-67.8.
- Bindel, Paul: *See*—  
Schieber, Hans, and Bindel. 2,955,634.
- Bindel, Paul H. Signalling system. 2,936,111, 5-10-60, Cl. 235-23.
- Binder, Alfred, to The Sherwin-Williams Co. Spout for metallic containers. 2,920,799, 1-12-60, Cl. 222-541.
- Binder, Burton A.: *See*—  
Binder, Fred, and B. A. 2,955,274.
- Binder, Fred, and B. A. Locking device for fluorescent bulbs. 2,955,274, 10-4-60, Cl. 339-54.
- Binder, Richard, and F.-J. von Bomhard, to Fichtel & Sachs A.G. Control apparatus for vehicles equipped with speed responsive clutches. 2,924,313, 2-9-60, Cl. 192-9.
- Binder, Robert, to Firma Dr.-Ing. h.c.F. Porsche K.G. Air-cooled internal combustion engine arrangement. 2,942,593, 6-28-60, Cl. 123-41.65.
- Binder, Robert, to Dr.-Ing. h.c.F. Porsche, K.G. Air-cooled internal combustion engine arrangement. 2,966,147, 12-27-60, Cl. 123-41.65.
- Binding, Kenneth W., to Market Forge Co. Auxiliary seat. 2,942,651, 6-28-60, Cl. 153-131.
- Bindl, Ludwig, to Allegheny Ludlum Steel Corp. Method of providing an electrode assembly. 2,963,756, 12-13-60, Cl. 22-139.
- Bindler, Jakob: *See*—  
Model, Ernst, and Bindler. 2,922,794.
- Bindler, Jakob, and H. Schlapfer, to J. R. Geigy, A.-G. Reaction products of cis-1,2-diamino cycloalkanes. 2,920,077, 1-5-60, Cl. 260-268.
- Blindsboro Steel Foundry and Machine Co.: *See*—  
Peterson, Edward C. 2,924,136.
- Binford, Benjamin L., to Magnetrol, Inc. Magnetic control means. 2,966,330, 12-27-60, Cl. 251-65.



- Binford, Kenneth L., J. W. Miller, and G. J. Nelson, to Western Electric Co., Inc. Conveyor system. 2,958,411, 11-1-60, Cl. 198-38.
- Binford, Robert S., to General Electric Co. Proportional fluid flow measurement and control system. 2,940,461, 6-14-60, Cl. 137-100.
- Binford, Robert S., R. C. S. Bolgen, H. L. Cheeseman, and J. Wood, Jr., to General Electric Co. Flow divider for fuel system. 2,963,082, 12-6-60, Cl. 158-36.
- Bing, Charles W., to Daystrom, Inc. Ring assembly. 2,948,162, 8-9-60, Cl. 74-399.
- Binggell, Jean L., to Contraves AG. Two-phase asynchronous generator. 2,958,035, 10-25-60, Cl. 322-76.
- Bingham, George H., Jr., to Cambridge Rubber Co. Means for positioning slide fasteners in articles of manufacture. 2,940,095, 6-14-60, Cl. 12-53.5.
- Bingham, George H., Jr., to Cambridge Rubber Co. Method of making a hollow mold. 2,949,410, 8-16-60, Cl. 204-9.
- Bingham, George H., Jr., to Cambridge Rubber Co. Method of making a waterproof boot of synthetic resin. 2,957,188, 10-25-60, Cl. 12-142.
- Bingham, Robert E.: See—  
Salem, Samuel, and Bingham. 2,938,823.
- Bingham-Herbrand Corp., The: See—  
Hinsey, Robert S. 2,923,168.  
Hinsey, Robert S. 2,923,169.  
Hinsey, Robert S. 2,953,037.  
Hinsey, Robert S. 2,963,920.  
Johnstone, Theodore H. 2,943,511.  
Sandberg, Ray A. 2,934,972.
- Bingley, Frank J., to Philco Corp. Method of producing controlled displacement of screen elements in cathode ray tubes. 2,950,969, 8-30-60, Cl. 96-41.
- Binkley, Albert L., to International Shear Corp. Grass shears. 2,923,058, 2-2-60, Cl. 30-248.
- Binkley, Charles H., and C. E. Pardo, to United States of America, Agriculture. Method for imparting permanent deformation to textiles. 2,933,409, 4-19-60, Cl. 117-11.
- Binko, Ivan, and J. Kolar, to Svit, narodni podnik. Extracting tanning agent with cation-containing solution with subsequent cation exchange. 2,934,398, 4-26-60, Cl. 8-94.32.
- Binmore, John M. Apparatus for separating oil from ballast water in tanks on board ship. 2,940,594, 6-14-60, Cl. 210-180.
- Binney & Smith Inc.: See—  
Mackes, Harold. 2,945,586.
- Binning, Robert C.: See—  
Jennings, Joseph F., and Binning. 2,956,070.  
Lee, Robert J., and Binning. 2,923,749.
- Binning, Robert C., and R. J. Lee, to The American Oil Co. Production of high octane alkylate using a permeable membrane separation system. 2,923,751, 2-2-60, Cl. 260-683.62.
- Binning, Robert C., and R. J. Lee, to The American Oil Co. Separation of azeotropic mixtures. 2,953,502, 9-20-60, Cl. 102-42.
- Binning, Robert C., and J. M. Stuckey, to The American Oil Co. Method of separating hydrocarbons using ethyl cellulose permselective membrane. 2,958,657, 11-1-60, Cl. 210-23.
- Binns, Philip G.: See—  
Johnson, Christopher L., and Binns. 2,950,133.  
Lombard, Adrian A., and Binns. 2,928,649.
- Binns, Philip G., to Rolls-Royce Ltd. Flexible joint member for ducting. 2,954,990, 10-4-60, Cl. 285-114.
- Binns, Robert A., to Allied Chemical Corp. Apparatus and method for transfer tail winding using magnetically attached ring. 2,952,965, 9-20-60, Cl. 57-34.
- Bino Specialties, Inc.: See—  
Bushnell, David P., and Chapin. 2,933,992.
- Bins, Clemence A. Glue applicator. 2,935,961, 5-10-60, Cl. 118-3.
- Binter, Frederick C. Method for treatment of exhaust gases from internal combustion engines. 2,932,364, 4-12-60, Cl. 183-115.
- Binzler, Robert R., to Ransohoff Co. Continuous feed tumbling apparatus. 2,933,861, 4-26-60, Cl. 51-164.
- Bionics Ltd.: See—  
Kahn, Morton C., and Offenhauser. 2,928,204.
- Bipes, Wilbur L., to Clementina Ltd. Control system for sandblasting equipment. 2,938,305, 5-31-60, Cl. 51-12.
- Birch, Richard W., to General Precision Inc. Camera. 2,953,073, 9-20-60, Cl. 95-1.1.
- Birch, Stanley F., and P. D. Holmes, to The British Petroleum Co. Ltd. Catalytic conversion process. 2,943,094, 6-28-60, Cl. 260-329.
- Birch-Field, Charles A. Color television apparatus. 2,941,030, 6-14-60, Cl. 178-5.2.
- Birchfield, George S., to Esso Research and Engineering Co. Preparation of catalytic cracking feed stocks. 2,963,423, 12-6-60, Cl. 208-251.
- Birchfield, Jesse J. Lawn edger. 2,949,670, 8-23-60, Cl. 30-315.
- Birchkraft, Inc.: See—  
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- Birchler, Robert O., and O. M. Nielsen, to Western Electric Co., Inc. Arbor for coil winding apparatus. 2,953,311, 9-20-60, Cl. 242-46.2.
- Birchler, Robert O., and O. M. Nielsen, to Western Electric Co., Inc. Apparatus for and method of winding coils on spools. 2,961,174, 11-22-60, Cl. 242-9.
- Birkhead Corp.: See—  
Birkhead, Lennox, Jr. and T. A. 2,924,851.
- Birkhead, Lennox, Jr. and T. A., to Birkhead Corp. Segmental mold. 2,924,851, 2-16-60, Cl. 18-42.
- Birkhead, Taylor A.: See—  
Birkhead, Lennox, Jr. and T. A. 2,924,851.
- Bird Electric Corp.: See—  
Bird, James R., Calderhead, and Heller. 2,966,645.  
Bird, James R., Frederico, and Heller. 2,958,830.  
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Heller, Herbert H. 2,966,639.
- Bird Electronic Corp., The: See—  
Waterfield, Clayton F., Calderhead, and Heller. 2,946,005.
- Bird, Harold R. Drapery pleating machine. 2,954,907, 10-4-60, Cl. 223-30.
- Bird, Henry W., and R. L. Stephens. Plaster composition comprising plaster of Paris and polyacrylamide. 2,962,458, 11-29-60, Cl. 260-8.
- Bird, James E., to T. Fazio. Arm support for intravenous injections. 2,953,131, 9-20-60, Cl. 128-215.
- Bird, James R., B. D. Frederico, and H. H. Heller, to Bird Electronic Corp. Coaxial line load device. 2,958,830, 11-1-60, Cl. 333-22.
- Bird, James R., H. J. Calderhead, and H. H. Heller, to Bird Electronics Corp. Demountable coaxial connectors. 2,966,645, 12-27-60, Cl. 333-97.
- Bird, Lester F., to Engelhard Industries, Inc. Operating circuit for high pressure arc lamp. 2,926,287, 2-23-60, Cl. 315-174.
- Bird, Lester F., to Engelhard Industries, Inc. Automatic control circuit for discharge lamps. 2,928,989, 3-15-60, Cl. 315-90.
- Bird, Lester F., to Engelhard Industries, Inc. Electrical discharge lamp. 2,930,920, 3-29-60, Cl. 313-161.
- Bird Machine Co.: See—  
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Troland, Edwin P. 2,925,177.  
Troland, Edwin P. 2,931,504.  
Troland, Edwin P. 2,953,248.
- Bird, Milo A., to California Research Corp. Pressure relief assembly. 2,962,038, 11-29-60, Cl. 137-68.
- Bird, Ralph C., C. H. Bouvy, and J. Dolza, to General Motors Corp. Induction system. 2,947,294, 8-2-60, Cl. 123-55.
- Bird, Raymond, and P. Wood, to International Computers and Tabulators Ltd. Shifting register shift means. 2,935,259, 5-3-60, Cl. 235-165.
- Bird, Raymond, and J. R. Cartwright, to International Computers and Tabulators Ltd. Magnetic data storage systems. 2,958,856, 11-1-60, Cl. 340-174.1.
- Bird, Robert M.: See—  
Ackerman, Charles B., and Bird. 2,933,787.
- Bird and Son, Inc.: See—  
Crawford, Earl A. 2,925,034.  
Crawford, Earl A. 2,925,035.  
Crawford, Earl A. 2,925,036.
- Bird, William A.: See—  
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- Birdsall, Charles K., to Hughes Aircraft Co. Electron gun. 2,921,215, 1-12-60, Cl. 313-85.
- Birdsall, Charles K., to Hughes Aircraft Co. High-power traveling-wave tube. 2,921,223, 1-12-60, Cl. 315-3.5.
- Birdsall, Charles K., to Hughes Aircraft Co. Traveling wave amplifier. 2,935,640, 5-3-60, Cl. 315-3.5.
- Birdsall, Charles K., to Hughes Aircraft Co. High power microwave tube. 2,957,103, 10-18-60, Cl. 315-3.6.
- Birdsall, Fred R., to Ingersoll-Rand Co. Directional control valve for air motors having cut-off means. 2,939,432, 6-7-60, Cl. 121-46.5.
- Birdsall, Oscar M., to All Metal Products Co. Toy truck with automatic loading scoop. 2,941,330, 6-21-60, Cl. 46-40.
- Birdseye, Sidney H., and M. C. Tyler. Apparatus for making three-dimensional reliefs. 2,961,772, 11-29-60, Cl. 33-189.
- Birdsboro Corp.: See—  
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- Birdsboro Steel Foundry and Machine Co.: See—  
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- Birge, Homer, and L. Latham. Flexible sign post. 2,949,324, 8-16-60, Cl. 287-86.
- Birge, Warren A., to The Martin Co. High speed electronic integrator. 2,958,826, 11-1-60, Cl. 328-127.
- Birkemier, Henry P., to Bell & Gossett Co. Tuning vibratory elements. 2,948,181, 8-9-60, Cl. 84-409.
- Birkenes, Bernhard: See—  
Byles, Theodore A., and Birkenes. 2,946,015.
- Birkenes, Bernhard, to Motorola, Inc. Control circuit. 2,929,967, 3-22-60, Cl. 317-130.
- Birkenes, Bernhard, to Motorola, Inc. Tone and volume control. 2,943,190, 6-28-60, Cl. 250-20.
- Birkenes, Bernhard, to Motorola, Inc. Radio receiver having anode power of front-end stages derived from cathode of output stage. 2,951,154, 8-30-60, Cl. 250-27.3.
- Birkenes, Bernhard, and B. Anthun, to Motorola, Inc. Radio receiver circuit. 2,932,736, 4-12-60, Cl. 250-20.
- Birkenmeyer, Robert D.: See—  
Kagan, Fred, and Birkenmeyer. 2,956,064.



- Birkett, Earl. Hopping mechanisms for pen connectors. 2,924,355, 2-9-60, Cl. 221-167.
- Birkigt, Louis, to Brevets Aero-Mecaniques S.A. Spindle including a centrifugal clutch. 2,940,246, 6-14-60, Cl. 57-132.
- Birkness, Harold A., P. N. Randall, and L. T. Wright, to Standard Oil Co. Burner structure for high temperature gas generators. 2,943,674, 7-5-60, Cl. 158-109.
- Birmann, Rudolph, to De Laval Steam Turbine Co. Turbo-compressor. 2,939,626, 6-7-60, Cl. 230-116.
- Birmann, Rudolph, to De Laval Steam Turbine Co. Turbo-compressor. 2,940,658, 6-14-60, Cl. 230-116.
- Birmann, Rudolph, to De Laval Steam Turbine Co. Elastic fluid mechanism. 2,943,839, 7-5-60, Cl. 253-39.
- Birmingham Hydraulics, Inc.: See—
- Eklund, Ralph H. 2,927,602.
- Birmingham Paper Co.: See—
- Osteen, Belmont D. 2,926,780.
- Birmingham Small Arms Co. Ltd., The: See—
- Carman, Eric H. 2,945,936.
- Collins, George M. 2,940,596.
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- Birmingham Sound Reproducers Ltd.: See—
- Guest, Lawrence V. 2,939,464.
- Guest, Lawrence V. 2,950,921.
- Birmingham, William J.: See—
- Muffat, Donald L., and Birmingham. 2,946,736.
- Birnbaum, George: See—
- Sargent, Jack, and Birnbaum. 2,964,703.
- Birnbaum, Richard E.: See—
- Barnett, Harry E., and Birnbaum. 2,959,891.
- Birnbaum, Richard E., to Alexander Doll Co., Inc. Doll with rotatable head and liquid reservoir. 2,934,857, 5-3-60, Cl. 46-141.
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- De Bona, Paul. 2,964,468.
- Biro, Guillaume. Device for projecting pulverulent substances such as fire-extinguishing products or insect-powders. 2,926,456, 3-1-60, Cl. 43-147.
- Birr, Rudolph G., to Steiner American Corp. Time delay device. 2,940,720, 6-14-60, Cl. 248-309.
- Birther Corp., The: See—
- Booher, Charles F., II. 2,958,515.
- Weller, Robert A., and Finch. 2,939,542.
- Birtwell, Stanley, to Imperial Chemical Industries Ltd. Guanidines. 2,959,616, 11-8-60, Cl. 260-565.
- Birtwell, Stanley, R. F. Maisey, and D. N. Richardson, to Imperial Chemical Industries Ltd. Aminoguanidine compounds. 2,952,677, 9-13-60, Cl. 260-240.
- Birum, Gail H.: See—
- Gaertner, Van R., and Birum. 2,965,665.
- Birum, Gail H., to Monsanto Chemical Co. O,O-dialkyl or O,O-bis (haloalkyl) S-dichloromethyl phosphorothioates. 2,931,755, 4-5-60, Cl. 167-22.
- Birum, Gail H., to Monsanto Chemical Co. Preparation of metallo alkyl xanthate-trialkyl phosphite complexes. 2,945,872, 7-19-60, Cl. 260-431.
- Birum, Gail H., to Monsanto Chemical Co. Pest control method. 2,957,801, 10-25-60, Cl. 167-33.
- Birum, Gail H., to Monsanto Chemical Co. Pentachlorobenzenesulfenyl chloride. 2,965,535, 12-20-60, Cl. 167-30.
- Birum, Gail H., and T. M. Patrick, Jr., to Monsanto Chemical Co. Composition comprising vinyl chloride polymer and butyl carboxy stearate. 2,965,598, 12-20-60, Cl. 260-31.8.
- Birum, Gail H., and J. L. Dever, to Monsanto Chemical Co. Adducts of organic phosphorus compounds and process for producing same. 2,961,455, 11-22-60, Cl. 260-461.
- Birum, Herbert L., Jr.: See—
- Hammit, Andrew B., and Birum. 2,934,180.
- Bisbe, Richard E., to E. I. du Pont de Nemours and Co. Yarn winding. 2,957,635, 10-25-60, Cl. 242-18.
- Bisbing, Robert H., and J. K. Barry, to South Chester Corp. Rivet expander tool. 2,934,234, 4-26-60, Cl. 218-30.
- Bisceglia, Dominic T., and A. W. Miller, to United States of America, Army. Boring bar for profiling the interior of hollow members. 2,956,456, 10-18-60, Cl. 77-58.
- Bischof, Walter J., to Bendix Aviation Corp. Multi-range echo sounding system. 2,941,183, 6-14-60, Cl. 390-3.
- Bischoff, Edward S. Liquid coating applicator. 2,932,043, 4-12-60, Cl. 15-123.
- Bischoff, Edward S. Snap-on brush. 2,959,800, 11-15-60, Cl. 15-123.
- Bischoff, Edward S. Pump device. 2,960,040, 11-15-60, Cl. 103-148.
- Bischoff, Gustav H. Tumbling toy. 2,932,824, 4-12-60, Cl. 46-134.
- Bischoff, Heinrich: See—
- Hagmaier, Eugen, Walther, and Bischoff. 2,929,888.
- Bischoff, Waldemar O., to American Bosch Arma Corp. Fuel injection pump. 2,922,370, 1-26-60, Cl. 103-2.
- Bischoff, Waldemar O., to American Bosch Arma Corp. Fuel injection pump. 2,922,371, 1-26-60, Cl. 103-2.
- Bischoff, Waldemar O., and I. J. Daborowski, to American Bosch Arma Corp. Fuel injection pump. 2,949,904, 8-23-60, Cl. 123-140.
- Bischoff, Waldemar O., and H. Hogeman, to American Bosch Arma Corp. Fuel injection pump. 2,965,087, 12-20-60, Cl. 123-140.
- Bisen, Herbert. Checkout counters. 2,924,053, 2-9-60, Cl. 53-390.
- Bisen, Herbert. Checkout counter. 2,964,134, 12-13-60, Cl. 186-1.
- Biser, Roger W.: See—
- Leland, Gerald H., and Biser. 2,959,969.
- Bishman Mfg. Co.: See—
- Bishman, Walter A. 2,923,347.
- Bishman, Walter A. 2,948,314.
- Bishman, Walter A., to Bishman Mfg. Co. Circumferentially traveling type tire changing device. 2,923,347, 2-2-60, Cl. 157-124.
- Bishman, Walter A., to Bishman Mfg. Co. Wheel centering and supporting device. 2,948,314, 8-9-60, Cl. 144-288.
- Bishoff, Theodore: See—
- Carpenter, James C., McNelley, David, and Bishoff. 2,964,353.
- Bishop and Babcock Mfg. Co., The: See—
- Getz, Arnstead G. 2,929,310.
- Getz, Arnstead G. 2,961,834.
- Mayo, Edward L. 2,931,179.
- Mayo, Edward L. 2,931,181.
- Bishop, Basil T. G., to D. Napier & Son Ltd. Turbine blade shroud rings. 2,962,256, 11-29-60, Cl. 253-39.
- Bishop, Basil T. G., to D. Napier & Son Ltd. Turbine blade rings and methods of assembly. 2,962,259, 11-29-60, Cl. 253-77.
- Bishop, Donald R., and R. E. Corb, to Polaroid Corp. Photographic apparatus. 2,963,953, 12-13-60, Cl. 95-89.
- Bishop, Harold P. Cyclone-type separator. 2,943,698, 7-5-60, Cl. 183-37.
- Bishop, Homer L. Electrotpe plate, method of making same and the method and apparatus for mounting the electrotpe plate upon a printing cylinder. 2,931,298, 4-5-60, Cl. 101-395.
- Bishop, J., and Co.: See—
- Hunter, James B., and Hickey. 2,961,062.
- Bishop, John, to The United Kingdom Atomic Energy Authority. Mass-spectrometers. 2,961,538, 11-22-60, Cl. 250-41.9.
- Bishop, John J., and F. C. Shaffer, to The L. S. Starrett Co. Bore measuring dial gauge. 2,930,134, 3-29-60, Cl. 33-178.
- Bishop, John R.: See—
- Tafuro, Anthony J., and Bishop. 2,957,760.
- Bishop, John R., to Amchem Products, Inc.  $\alpha,\beta,\beta'$ -trichloroisobutyric acid and a process of eradicating plants with functional derivatives thereof. 2,951,754, 9-6-60, Cl. 71-2.5.
- Bishop, John W. Incinerator construction. 2,936,724, 5-17-60, Cl. 110-18.
- Bishop, John W. H. Ribbon spool and ribbon and method of assembling same. 2,931,482, 4-5-60, Cl. 197-175.
- Bishop, Leon H.: See—
- Wintrobe, Warner C., and Bishop. 2,962,860.
- Bishop, Leonard J., to Mechanical Handling Systems, Inc. Drop section for overhead conveyor. 2,956,514, 10-18-60, Cl. 104-128.
- Bishop, Leonard J., R. Krammer, and K. R. Karlstrom, to Mechanical Handling Systems Inc. Work handling and transfer systems. 2,934,195, 4-26-60, Cl. 198-24.
- Biskup, John, S. Johnson, and P. C. Wetterau, to Congoleum-Nairn Inc. Enamel paint and method of producing a surface covering resembling a tile surface. 2,935,417, 5-3-60, Cl. 117-15.
- Bissell Carpet Sweeper Co.: See—
- Yonkers, Robert A. 2,939,163.
- Bissell, Henry M., A. Zarouni, to Bell Telephone Laboratories, Inc. Transistorized bipolar amplifier. 2,964,656, 12-13-60, Cl. 307-88.5.
- Bissell Inc.: See—
- Plantholt, Robert G. 2,962,740.
- Bissell, Ray H., to Milko Products Ltd. Process for increasing the solubility of powdered milk. 2,949,363, 8-16-60, Cl. 99-56.
- Bisset, Claude O. Underwater breathing apparatus. 2,949,113, 8-16-60, Cl. 128-142.
- Bisset, Thomas B., W. V. Conover, and A. S. Fulton, to Thompson Ramo Wooldridge Inc. Passive position determining system. 2,940,076, 6-7-60, Cl. 343-112.
- Bissinger, William E.: See—
- Strain, Franklin, and Bissinger. 2,942,035.
- Bisso, Louis A., and H. G. Hall, to Tidewater Oil Co. Wear test method and apparatus. 2,939,011, 5-31-60, Cl. 250-83.
- Bisterfeld & Stoltz: See—
- Osenberg, Werner. 2,940,226.
- Osenberg, Werner. 2,952,103.
- Bitco Inc.: See—
- Mosely, Donald E. 2,928,559.
- Bitel, Joseph A., to The Preferred Engineering and Research Corp. Pipe coupling having a cam operated coupler to engage a resilient ring. 2,939,728, 6-7-60, Cl. 285-315.
- Bither, Harold A. Multiplex terminal spreader. 2,956,104, 10-11-60, Cl. 174-44.
- Bitner, Jack L., and I. W. Silberstein, to United States of America, Navy. Corrective lens holder for face mask. 2,951,418, 9-6-60, Cl. 88-41.
- Bitter, Francis: See—
- Waymouth, John F., and Bitter. 2,966,602.
- Bitterli, John A.: See—
- Frommelt, Horace A., and Aberlin. 2,950,523.
- Frommelt, Horace A., and Aberlin. 2,950,524.



- Bittermann, Herbert:** *See—*  
Becke, Friedrich, and Bittermann. 2,961,468.
- Bittle, Dewey D.** Portable garbage can holder. 2,930,561, 3-29-60, Cl. 248-149.
- Bittle, Harold G.:** *See—*  
Christenson, Roger M., and Bittle. 2,940,945.
- Bittman, Jess C.:** *See—*  
Nye, Maurice A., and Bittman. 2,927,744.
- Bittman, Loran R., N. M. Gutlove, and R. D. Geyer,** to Sperry Rand Corp. Travelling wave tube. 2,945,154, 7-12-60, Cl. 315-35.
- Bittner, Burt J., and R. H. Opperman,** to United States of America, Atomic Energy Commission. Transformer for joining unbalanced to balanced transmission means. 2,943,275, 6-28-60, Cl. 333-26.
- Bituminous Coal Research, Inc.:** *See—*  
Yellott, John I., and Broadley. 2,925,143.  
Yellott, John I., and Broadley. 2,954,097.
- Bitzer, Gottlob,** to Textile Machine Works. Sinkers-head structure for knitting machines. 2,931,198, 4-5-60, Cl. 66-110.
- Bitzer, Martin:** *See—*  
Riester, William C., and Bitzer. 2,935,759.
- Biven, J. R.:** *See—*  
Barton, Frank D. 2,965,096.
- Bivens, Lucienne J.:** *See—*  
Bivens, Maurice E. 2,926,250.
- Bivens, Maurice E.,** to General Electric Co. Synchronous precision sequence timer. 2,926,246, 2-23-60, Cl. 250-27.
- Bivens, Maurice E., deceased,** by L. J. Bivens, administratrix, to General Electric Co. Synchronous precision sequence control. 2,926,250, 2-23-60, Cl. 250-27.
- Bivens, Norman A.** Magnetic gun recoil pad structure. 2,925,679, 2-23-60, Cl. 42-74.
- Bivens, Paul E., and E. F. Schaefer,** to Owens-Illinois Glass Co. Apparatus for applying surface coatings to glassware. 2,925,801, 2-23-60, Cl. 118-2.
- Biwax Corp.:** *See—*  
Herbst, Clarence A. 2,948,930.
- Bixby, Harold W.,** to United States of America, Navy. Fuze. 2,962,967, 12-6-60, Cl. 102-70.2.
- Bixby, Leo A.,** to Rockwell-Standard Corp. Vehicle drive mechanism. 2,949,040, 8-16-60, Cl. 74-390.
- Bixby, Paul W., Jr.:** *See—*  
Atkins, Walter W., and Bixby. 2,926,566.
- Bixby, William E.:** *See—*  
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- Bixby, William H.,** to Power Equipment Co. Current supply apparatus. 2,945,172, 7-12-60, Cl. 321-19.
- Bixel, Clayton C.** Paint roller cleaner. 2,938,368, 5-31-60, Cl. 68-205.
- Bixler, Milo E.,** to United States of America, Agriculture. Carpet or rug scrubbing system. 2,923,956, 2-9-60, Cl. 15-50.
- Bizet, Pierre M.,** to Compagnie Industrielle des Telephones. Synchronism correcting device for a multi-channel telegraphy installation. 2,934,604, 4-26-60, Cl. 178-53.
- Bjalmé, Bengt G.,** to Reed Mfg. Co. Quick opening cam operated chaser die head with thread size selector means. 2,938,221, 5-31-60, Cl. 10-96.
- Bjalmé, Bengt G.,** to Reed Mfg. Co. Quick opening die head with chaser adjusting means for different size pipes. 2,938,222, 5-31-60, Cl. 10-122.
- Bjarnow, Fred B., M. T. Cichelli, and A. G. Hamilton,** to E. I. du Pont de Nemours and Co. Vapor treatment of a moving web. 2,939,760, 6-7-60, Cl. 8-149.2.
- Bjelland, John L.:** *See—*  
Schutt, Norman C., Flynn, and Bjelland. 2,939,371.
- Bjereus, Sven R.,** to Svenska Aktiebolaget Bromsregulator. Brake apparatus particularly for railway vehicles. 2,939,552, 6-7-60, Cl. 188-195.
- Bjering, Olav,** to Owens-Illinois Glass Co. Closure cap feeder mechanism. 2,950,842, 8-30-60, Cl. 221-251.
- Bjering, Olav, and J. Hohl,** to Owens-Illinois Glass Co. Container closing apparatus. 2,942,394, 6-28-60, Cl. 53-314.
- Bjerke, Earl B.:** *See—*  
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- Bjong, Leo V., C. F. Schafer, and J. S. Hochheiser,** to Bendix Aviation Corp. Ball bearing testing device. 2,937,513, 5-24-60, Cl. 73-9.
- Bjorholm, Poul U. S.** Curved armour plate. 2,960,424, 11-15-60, Cl. 154-52.5.
- Bjork, John C. H.:** *See—*  
Nilsson, Nils E., Bjork, and Rodnert. 2,924,664.
- Bjork, Wilbur E.** Water shut off box cap. 2,959,198, 11-8-60, Cl. 138-89.
- Bjorklund, Carl W., R. Benz, W. J. Maraman, J. A. Leary, and K. A. Walsh,** to United States of America, Atomic Energy Commission. Method and means for electrolytic purification of plutonium. 2,923,670, 2-2-60, Cl. 204-1.5.
- Bjorklund, Stanley A.,** to Rockford Machine Tool Co. Servo valve having helically arranged metering parts. 2,924,239, 2-9-60, Cl. 137-622.
- Björkman, Ake K. A. G.:** *See—*  
Siljeholm, Gösta E. V., and Björkman. 2,928,990.
- Bjorksten, Johan:** *See—*  
Fiedler, Stuart O., Bjorksten, and Fiedler. 2,937,938.  
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- Bjorksten Research Laboratories, Inc.:** *See—*  
Elliott, John C. 2,934,457.  
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Henning, James E. 2,932,598.  
Zeldin, Lawrence. 2,962,489.
- Bjornson, Beatrice F.** Thermometer holder. 2,943,745, 7-5-60, Cl. 211-60.
- Bjursten, Nils E.:** *See—*  
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- Blacet, Francis E., and R. J. Grabenstetter,** to United States of America, War. Whetlerite product and process. 2,920,050, 1-5-60, Cl. 252-447.
- Blachly, Donald L.,** to John Oster Mfg. Co. Portable hand held saw. 2,949,944, 8-23-60, Cl. 143-68.
- Black, Alexander,** to United Shoe Machinery Corp. Welt guides. 2,922,387, 1-26-60, Cl. 112-46.
- Black, Cline,** to Shell Oil Co. Extractive distillation. 2,961,383, 11-22-60, Cl. 202-39.5.
- Black-Clawson Co.:** *See—*  
Baxter, Joseph, Jr. 2,930,534.  
Dain, John E., and Phelps. 2,950,875.  
Moore, Lawrence A. 2,954,082.  
Penrod, William R., and Phelps. 2,940,418.  
Phelps, Richard W. 2,943,806.
- Black and Decker Mfg. Co.:** *See—*  
Fogle, William B. 2,959,388.  
Lee, Walter, and Fogle. 2,962,118.  
Muller, Robert C., Bradyhouse, and Kerpelman. 2,941,426.  
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Riley, Robert H., Jr., and Short. 2,942,490.  
Sheps, Martin I. 2,929,177.  
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- Black, George S.,** to Pan American Petroleum Corp. Variable-density recording of multiple signal traces. 2,951,736, 9-6-60, Cl. 346-1.
- Black, George S., and R. H. Peterson,** to Radio Corporation of America. Electromechanical resolver. 2,963,696, 12-6-60, Cl. 340-324.
- Black, Harold G., B. A. Arnaz, and H. C. Scheufele,** to The Proctor-Silex Corp. Feeding apparatus for fibrous material. 2,960,212, 11-15-60, Cl. 198-204.
- Black, Harold S., and S. P. Morgan, Jr.,** to Bell Telephone Laboratories, Inc. Low-loss transmission line. 2,924,795, 2-9-60, Cl. 333-96.
- Black, Harvey C., Jr.:** *See—*  
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- Black, Howard S.,** to The Robert Howard Co. Reproduction process. 2,957,411, 10-25-60, Cl. 101-149.5.
- Black, Isadore E.** Apparatus for dispensing cloth towels. 2,929,480, 3-22-60, Cl. 194-4.
- Black, James F., and E. O. Forster,** to Esso Research and Engineering Co. Method for measuring the degree of uniformity of compositions. 2,936,377, 5-10-60, Cl. 250-106.
- Black, James F., W. C. Hollyday, Jr., and D. A. Guthrie,** to Esso Research and Engineering Co. Solvents for radiochemical reactions. 2,955,995, 10-11-60, Cl. 204-158.
- Black, James G., Jr.:** *See—*  
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- Black, James J.,** to Trailmobile, Inc. Floor construction for refrigerated roadway vehicle. 2,923,384, 2-2-60, Cl. 189-34.
- Black, James J.,** to Trailmobile Inc. Transfer system for cargo bodies. 2,936,912, 5-17-60, Cl. 214-38.
- Black, James S.,** to Standard-Vacuum Oil Co. Shipping container for oil samples and the like. 2,941,689, 6-21-60, Cl. 220-23.
- Black, John B.,** to Murray Corp. Tangential hose clamp. 2,944,314, 7-12-60, Cl. 24-279.
- Black, John E.,** to Electric Eye Equipment Co. Static control switching apparatus. 2,923,835, 2-2-60, Cl. 307-88.
- Black, John M.:** *See—*  
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Stiles, Samuel R., Warburton, and Black. 2,927,009.
- Black, John W.,** to Pemco Wheel Co. Mechanical device. 2,923,961, 2-9-60, Cl. 16-44.
- Black, John W.,** to Pemco Wheel Co. Caster swivel construction. 2,944,280, 7-12-60, Cl. 16-21.
- Black, John W.,** to Pemco Wheel Co. Swivel caster structure. 2,947,021, 8-2-60, Cl. 16-21.
- Black, Lloyd V.,** to Pittsburgh Plate Glass Co. Apparatus for the air chilling of bent glass. 2,921,411, 1-19-60, Cl. 49-45.
- Black, Marion B.:** *See—*  
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- Black, Paul F.,** to The B. F. Goodrich Co. Brake mechanism. 2,924,302, 2-9-60, Cl. 188-73.
- Black, Paul R.,** to Ford Motor Co. Fluid pressure operated clutch means. 2,925,159, 2-16-60, Cl. 192-85.
- Black, Peter P.** Soot shield for chimneys. 2,930,308, 3-29-60, Cl. 98-67.
- Black Products Co.:** *See—*  
Lau, Erwin M. 2,936,994.
- Black, Robert S., and J. S. Carroll.** Roll type glue spreaders, surface coaters, and the like. 2,926,628, 3-1-60, Cl. 118-244.
- Black, Robert P.:** *See—*  
Ritter, David M., and Black. 2,933,369.



- Black, Roy D., to L. R. Crow. Educational device for teaching electric motor or generator principles. 2,949,680, 8-23-60, Cl. 35-19.
- Black, Sivalis & Bryson, Inc.: *See*—  
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- Spangler, Carl D., Jr., and Laurence. 2,951,347.
- Black, Theodore R., Sr.: *See*—  
Larsh, Everett P., and Black. 2,938,250.  
Larsh, Everett P., and Black. 2,954,177.
- Black & Webster, Inc.: *See*—  
Barber, Albert, Hardy, and Rowbotham. 2,957,205.
- Black, William A.: *See*—  
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- Black, William A., to General Time Corp. Hot wire initiator. 2,936,576, 5-17-60, Cl. 60-23.
- Black, William T.: *See*—  
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- Black, William T., to Union Carbide Corp. Transesterification product of gamma-carbethoxypropylmethyldiethoxysilane with ethylene glycol. 2,920,091, 1-5-60, Cl. 260-448.2.
- Black, William T., to Union Carbide Corp. Carbobenzophenoneoxalkyl siloxanes and their preparation. 2,938,047, 5-24-60, Cl. 260-448.2.
- Black, William T., D. L. Bailey, and V. B. Jex, to Union Carbide Corp. Alkaline hydrolysis of cyanoalkylsiloxanes. 2,957,899, 10-25-60, Cl. 260-448.2.
- Blackburn, Charles M., and W. W. Hagner, to United States of America, Navy. Expendable liquid evaporative coolant system. 2,925,722, 2-23-60, Cl. 62-175.
- Blackburn, Charles W., to Phillips Petroleum Co. Level indicator for underground storage of fluids. 2,938,383, 5-31-60, Cl. 73-304.
- Blackburn, George T.: *See*—  
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- Blackburn, George T., to National Research Corp. High vacuum device. 2,936,107, 5-10-60, Cl. 230-45.
- Blackburn Group Ltd., The: *See*—  
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- Blackburn, Harry F., and K. U. Hanback, to Flagg-Utica Corp. Apparatus for detecting flaws in knitted cloth. 2,936,602, 5-17-60, Cl. 66-166.
- Blackburn, Jasper, Corp.: *See*—  
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Toedman, John A., and Wilton. 2,938,069.
- Blackburn, Norman D., to Actuation Research Corp. Differential pressure energized pilot valve controlled shut-off valve with fluid pressure actuator seal. 2,921,768, 1-19-60, Cl. 251-30.
- Blackett, James C., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,954,679, 10-4-60, Cl. 62-139.
- Blackhawk Co.: *See*—  
Brown, David W. 2,955,639.  
Flessate, Clarence L., and Luedicke. 2,955,578.  
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- Blackhawk Mfg. Co.: *See*—  
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- Blacklock, Kenneth A.: *See*—  
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- Blackman, Alan E., to The M-O Valve Co. Ltd. Manufacture of interdigital metal structures. 2,936,519, 5-17-60, Cl. 29-418.
- Blackman, Alexander,  $\frac{3}{4}$  to M. L. Stephens. Gas compressor. 2,933,239, 4-19-60, Cl. 230-147.
- Blackman, Alexander,  $\frac{3}{4}$  to M. L. Stephens. Compressor and controlling means therefor. 2,942,774, 6-28-60, Cl. 230-138.
- Blackman, Arthur W., to United Aircraft Corp. Variable pressure wave absorption for combustion chambers. 2,941,356, 6-21-60, Cl. 60-39.23.
- Blackman, Arthur W., Jr., and A. E. Wetherbee, Jr., to United Aircraft Corp. Oscillating flow combustion chamber. 2,930,195, 3-29-60, Cl. 60-39.69.
- Blackman, Fred T., and R. H. Devanney, to Veeder-Root Inc. Shutter mechanism for counters. 2,965,290, 12-20-60, Cl. 235-1.
- Blackman, Ralph B., to Bell Telephone Laboratories, Inc. Apparatus for the solution of plane triangles. 2,950,863, 8-30-60, Cl. 235-190.
- Blackman, Toby, and J. Chapman. Illuminated jig-saw puzzle. 2,923,550, 2-2-60, Cl. 273-157.
- Blackman, Vernon H.: *See*—  
Ducati, Adriano C., and Blackman. 2,941,063.  
Giannini, Gabriel M., and Blackman. 2,944,140.
- Blackman, Vernon H., to Plasmadyne Corp. Apparatus for generating high temperatures. 2,939,049, 5-31-60, Cl. 315-236.
- Blackman, Vernon H., to Plasmadyne Corp. Stabilized magnetic nozzle for plasma jets. 2,945,119, 7-12-60, Cl. 219-123.
- Blackman, Vernon H., to Plasmadyne Corp. Apparatus and method for generating and accelerating ions. 2,952,970, 9-20-60, Cl. 60-35.5.
- Blackmer, Dwight W., to Ekco Products Co. Sliding door guide unit. 2,949,626, 8-23-60, Cl. 16-90.
- Blackmer, Leroy L., and C. A. Morrison, to Eastman Kodak Co. Continuous photographic printer. 2,928,327, 3-15-60, Cl. 95-75.
- Blackmer, Richard H., to General Electric Co. Internal combustion engine. 2,942,598, 6-28-60, Cl. 123-180.
- Blackmon, Leland E.: *See*—  
Blackmon, Louise R., and Leland E. 2,950,912.
- Blackmon, Louise R. and Leland E. Even stretch elastic-stitcher. 2,950,912, 8-30-60, Cl. 269-189.
- Blackstone, Henry, to Servo Corp. of America. Stereo strip camera. 2,929,305, 3-22-60, Cl. 95-12.5.
- Blackstone, Henry, to Servo Corp. of America. Optical scanning device. 2,945,414, 7-19-60, Cl. 88-1.
- Blackstone, Henry, to Servo Corp. of America. Stereoscopic scanner. 2,949,055, 8-16-60, Cl. 88-1.
- Blackstone, Henry, to Servo Corp. of America. Absolute-altitude meter. 2,958,253, 11-1-60, Cl. 88-1.
- Blackstone, Henry, to Servo Corp. of America. Scanner-recorder. 2,963,542, 12-6-60, Cl. 178-6.7.
- Blackstone, Henry, and W. A. Wiener, to United States of America, Air Force. Method of and apparatus for step reduction of a scanned field. 2,958,784, 11-1-60, Cl. 250-203.
- Blackwell, Charles C. Automotive servicing device. 2,931,316, 4-5-60, Cl. 104-172.
- Blackwell, John S., to The Howe Scale Co. Electrical control. 2,934,730, 4-26-60, Cl. 338-67.
- Blackwood, Albert J.: *See*—  
Heigl, John J., and Blackwood. 2,947,900.
- Blackwood, Robert C. Tracheostomy tube device. 2,923,299, 2-2-60, Cl. 128-351.
- Blaedel, Walter J.: *See*—  
Seaborg, Glenn T., Blaedel, and Walling. 2,950,166.
- Blain, Albert. Automatic record player. 2,919,923, 1-5-60, Cl. 274-10.
- Blain, Albert, to Sperry Rand Corp. Printed circuit board with bifurcated terminals. 2,946,976, 7-26-60, Cl. 339-17.
- Blain, Albert, to Sperry Rand Corp. Interlocking systems. 2,958,014, 10-25-60, Cl. 317-101.
- Blain, Albert, W. J. Bartik, and G. C. Cordivari, to Sperry Rand Corp. Edge connectors. 2,926,340, 2-23-60, Cl. 340-174.
- Blaine, Alan, to United States of America, Atomic Energy Commission. Method of producing shaped bodies from powdered metals. 2,938,791, 5-31-60, Cl. 75-226.
- Blair, David. Undergarments. 2,965,103, 12-20-60, Cl. 128-466.
- Blair, David T., to Dynex, Inc. Hydraulic pump. 2,941,475, 6-21-60, Cl. 103-10.
- Blair, Etcyl H.: *See*—  
Britton, Edgar C., and Blair. 2,922,811.
- Blair, Etcyl H., and E. C. Britton, to The Dow Chemical Co. O-aryl o-alkyl o-hydrogen phosphorothioates and their salts. 2,954,394, 9-27-60, Cl. 260-461.
- Blair, Hugh T., Jr.: *See*—  
Stahl, William F., and Blair. 2,925,624.
- Blair, J. Thomas, R. S. Ross, and R. L. Wolcott, to Goodyear Aircraft Corp. Fuel cell. 2,941,762, 6-21-60, Cl. 244-135.
- Blair, John W., to Bendix Aviation Corp. Combination check valve. 2,926,046, 2-23-60, Cl. 303-30.
- Blair, Laurence R.: *See*—  
Beals, Malcolm D., Blair, and Lindenthal. 2,937,951.  
Vander Linden, Carl R., and Blair. 2,966,441.
- Blair, Lyman C. Respirator apparatus. 2,946,330, 7-26-60, Cl. 128-29.
- Blair, Orby E., to Northrop Corp. Muffler. 2,961,059, 11-22-60, Cl. 181-56.
- Blair, Robert. Lifting, lowering and hauling and especially in mine hoisting. 2,961,216, 11-22-60, Cl. 254-172.
- Blair, Royer R., to Bell Telephone Laboratories, Inc. Pulse steering circuit. 2,924,725, 2-9-60, Cl. 307-88.5.
- Blair, Royer R., to Bell Telephone Laboratories, Inc. Transistor binary counters with fast carry. 2,954,485, 9-27-60, Cl. 307-88.5.
- Blais, Joseph L., to Tricnit Hosiery Mills, Inc. Jack. 2,919,564, 1-5-60, Cl. 66-40.
- Blaisdell Pencil Co.: *See*—  
Baldwin, Joseph L., and Bentley. 2,954,628.
- Blaise, Jean: *See*—  
Mattel, Jean I., Blaise, and Manganne. 2,925,582.
- Blaisse, Berndt S.: *See*—  
Becker, J., and Blaisse. 2,949,820.
- Blake, Arthur E., to Phillips Petroleum Co. Optical analyzer. 2,934,647, 4-26-60, Cl. 250-43.5.
- Blake, Arthur J.: *See*—  
Fessler, Frank. 2,958,570.
- Blake, Charles A., Jr., K. B. Brown, and D. E. Horner, to United States of America, Atomic Energy Commission. Solvent extraction process for uranium from chloride solutions. 2,937,925, 5-24-60, Cl. 23-14.5.
- Blake, Edward S., to Monsanto Chemical Co. Detergent compositions. 2,932,616, 4-12-60, Cl. 252-135.
- Blake, Edward S., to Monsanto Chemical Co. Derivatives of glycerol 1,3-dialkyl ethers and their preparation. 2,932,670, 4-12-60, Cl. 260-615.
- Blake, Edward S., and R. J. Wineman, to Monsanto Chemical Co. Amino acid analogues. 2,938,053, 5-24-60, Cl. 260-561.
- Blake, Frederick H. Single-faced sliding doors. 2,940,137, 6-14-60, Cl. 20-19.



- Blake, Frederick H. Stick weaving loom. 2,954,055, 9-27-60, Cl. 139-28.
- Blake, Jules, to E. I. du Pont de Nemours and Co. Process of coating with methyl methacrylate composition therefor and article produced thereby. 2,949,383, 8-16-60, Cl. 117-72.
- Blake, Jules, to E. I. du Pont de Nemours and Co. Methyl methacrylate polymers containing amino residues. 2,949,445, 8-16-60, Cl. 260-86.1.
- Blake, Neal A.: *See*—  
Fromm, Kenneth N., and Blake. 2,941,033.
- Blake, Neal A., to International Telephone and Telegraph Corp. Distortion-correcting system. 2,939,910, 6-7-60, Cl. 178-7.2.
- Blake, Norman B., and W. E. Holtkamp, Jr., to Sun Oil Co. Oscillator. 2,941,160, 6-14-60, Cl. 331-137.
- Blake, Ralph K., F. C. Forsgard, and H. D. Hunt, to E. I. du Pont de Nemours and Co. Process for forming silver images. 2,952,537, 9-13-60, Cl. 96-29.
- Blake, Richard F., to United States of America, Navy. Method of charging, holding, and automatically resetting the voltage level on a condenser. 2,931,983, 4-5-60, Cl. 328-121.
- Blake, Webster, to Douglas Aircraft Co., Inc. Time code generator for cameras. 2,937,914, 5-24-60, Cl. 346-107.
- Blake, William T. Shock absorber with vacuum compensator. 2,944,639, 7-12-60, Cl. 188-97.
- Blake, William T. Railway draft appliance. 2,944,681, 7-12-60, Cl. 213-43.
- Blakelock, Harold D., to The General Electric Co. Ltd. Manufacture of semiconductor devices. 2,929,751, 3-22-60, Cl. 148-1.5.
- Blakely, Bryce, Jr., to Bell Telephone Laboratories, Inc. Line switching systems. 2,927,968, 3-8-60, Cl. 179-15.
- Blakely, Russel E., to Western Electric Co., Inc. Apparatus for simultaneously stripping jacketing and shielding sheaths from twisted-pair cable. 2,929,286, 3-22-60, Cl. 81-9.51.
- Blakeslee, G. S., & Co.: *See*—  
Karp, Edward J. 2,959,134.
- Blakistone, James T., 30% to M. Goodson and W. E. Hannan. Solenoid structure and control. 2,923,864, 2-2-60, Cl. 317-155.5.
- Blakistone, James T. Control system for recording apparatus. 2,930,855, 3-29-60, Cl. 179-100.2.
- Blakstad, Nigel H., to Perry Chain Co. Ltd. Chain or belt tensioning devices. 2,963,918, 12-13-60, Cl. 74-242.8.
- Blalock, James L., to Piedmont Machine Shop, Inc. Roll support for textile apparatus. 2,944,301, 7-12-60, Cl. 19-134.
- Blanch, Julian E.: *See*—  
Knox, William H., Jr., Blanch, and Carroll. 2,957,750.
- Blanchard, Andre, to Schlumberger Well Surveying Corp. Well logging method and apparatus. 2,951,198, 8-30-60, Cl. 324-2.
- Blanchard, Andre, to Schlumberger Well Surveying Corp. Electro-acoustic transducer having coaxially spaced cylindrical coils. 2,964,730, 12-13-60, Cl. 340-12.
- Blanchard, Andre R.: *See*—  
Bafour, Georges P., Blanchard, and Raymond. 2,947,357.
- Blanchard, Arthur H. Rotary edger with guard. 2,952,110, 9-13-60, Cl. 56-25.4.
- Blanchard, Bruce R. Device for casting fishing lure. 2,952,091, 9-13-60, Cl. 43-19.
- Blanchard, Phillip L.: *See*—  
Wade, Robert C., and Blanchard. 2,951,819.
- Blanchard, Robert L. Portable collapsible shelter. 2,963,030, 12-6-60, Cl. 135-3.
- Blanchard, Roger M. Trampoline type bouncer toy. 2,961,235, 11-22-60, Cl. 272-57.
- Blanchard, Seward A. Tiltable garbage can assembly. 2,952,434, 9-13-60, Cl. 248-137.
- Blanchard, William J., Sr.: *See*—  
Hill, Clifford W., and Blanchard. 2,949,526.
- Blanchette, Joseph A.: *See*—  
Walter, Henry A., and Blanchette. 2,962,485.
- Blanchette, Joseph A., to Monsanto Chemical Co. Asymmetric polyamides. 2,938,885, 5-31-60, Cl. 260-78.
- Blanchette, Joseph A., to Monsanto Chemical Co. Reactive group containing styrene homopolymers. 2,945,839, 7-19-60, Cl. 260-63.
- Blanchette, Joseph A., to Monsanto Chemical Co. New asymmetric polyamides. 2,959,572, 11-8-60, Cl. 260-78.
- Blanchette, Joseph A., to Monsanto Chemical Co. Reduced copolymers. 2,962,477, 11-29-60, Cl. 260-63.
- Blanchette, Leonard E., E. T. Ortis, and S. H. Wanserski. Arrowhead. 2,925,277, 2-16-60, Cl. 273-106.5.
- Blanck, Joachim H.: *See*—  
Happel, John, Marsel, and Blanck. 2,949,493.
- Blanco, Elias: *See*—  
Evans, William I., and Blanco. 2,939,601.
- Blanco, Elias, to Daystrom, Inc. Variable resistor. 2,954,559, 9-27-60, Cl. 338-7.
- Blanc, Charles C., to Flex-O-Lite Mfg. Corp. Method and apparatus for producing glass beads from a free falling molten glass stream. 2,965,921, 12-27-60, Cl. 18-2.5.
- Bland, Edward F. Roadable aircraft and sailboat. 2,940,688, 6-14-60, Cl. 244-2.
- Bland, Marshall R., to Turco Products, Inc. Apparatus for agitating cleansing liquid. 2,960,991, 11-22-60, Cl. 134-182.
- Bland, Marshall R., to Turco Products, Inc. Engine cleaning procedure. 2,964,429, 12-13-60, Cl. 134-28.
- Bland, Percy N., to Canadian Sumner Iron Works Ltd. Chipper knife supporting means. 2,922,590, 1-26-60, Cl. 241-92.
- Bland, Richard L., and J. E. Cagle. Hand truck for covered refuse cans. 2,940,707, 6-14-60, Cl. 248-129.
- Bland, Rophie E., to Houdry Process Corp. Catalytic cracking of heavy charge stocks. 2,935,461, 5-3-60, Cl. 208-74.
- Blanding, Wendell S., and W. W. Shaver, to Corning Glass Works. Cathode-ray tube manufacture. 2,936,924, 5-17-60, Cl. 220-2.5.
- Blanding, Wendell S., and S. A. Claypoole, to Corning Glass Works. Dip coating machine. 2,937,616, 5-24-60, Cl. 118-612.
- Blanding, Wendell S., L. H. Foster, and P. F. Spremulli, to Corning Glass Works. Glass-metal sealing method. 2,949,702, 8-23-60, Cl. 49-81.
- Blane, Jack B., to Ekco-Alcoa Containers Inc. Polygonal foil container. 2,960,255, 11-15-60, Cl. 220-67.
- Blank, Fritz A., 1/2 to A. Kip Livingston, and 1/2 to Longines-Wittnauer Watch Co., Inc. Blinds for light apertures in combined camera and projector apparatus and operating mechanism therefor and for shifting shutter means. 2,950,646, 8-30-60, Cl. 88-17.
- Blank, Fritz A., and J. W. Oxberry, 1/2 to A. Kip Livingston, and 1/2 to Longines-Wittnauer Watch Co., Inc. Driving mechanism for combined moving picture camera and projector apparatus. 2,950,647, 8-30-60, Cl. 88-17.
- Blank, John M., to General Electric Co. Equilibrium atmosphere tunnel kilns for ferrite manufacture. 2,960,744, 11-22-60, Cl. 25-142.
- Blank, Lawrence F.: *See*—  
Huebener, William C., and Blank. 2,926,024.
- Blank, Robert E., to The Sherwin-Williams Co. Cleaner for paint applicators. 2,951,043, 8-30-60, Cl. 252-171.
- Blank, Robert H.: *See*—  
Bernstein, Seymour, Feldman, Allen, and Blank. 2,962,512.
- Blankenbaker, John V., to Hughes Aircraft Co. Multiple input binary-coded decimal adders and subtractors. 2,923,474, 2-2-60, Cl. 235-170.
- Blankenship, John P. A. Sound making device for toy guns. 2,925,685, 2-23-60, Cl. 46-189.
- Blankenship, Royce E.: *See*—  
Slater, Frank W. 2,943,858.
- Blankenship, Thomas H. Door stop. 2,964,780, 12-20-60, Cl. 16-82.
- Blankenship, Wesley B.: *See*—  
Slater, Frank W. 2,943,858.
- Blankenship, William M., and A. R. Wirth, to The Dow Chemical Co. Halogen substituted mono-aromatic phenolic reserving agents for acrylonitrile polymer base fibers. 2,931,695, 4-5-60, Cl. 8-21.
- Blankmeyer, Harrison C.: *See*—  
Marzocchi, Alfred, Brown, and Blankmeyer. 2,959,701.
- Blanton, William G., 1/2 to C. Goldstein. Remote control toy waterway. 2,940,214, 6-14-60, Cl. 46-91.
- Blanzly, Eugene J., to Lincoln Brass Works. Lighter system for gas burners. 2,941,588, 6-21-60, Cl. 158-115.
- Bardinelli, Albert J., and W. H. Yanko, to Monsanto Chemical Co. Dimerization of trichloroethylene. 2,961,388, 11-22-60, Cl. 204-154.
- Blary, Louis W. Wire reel. 2,965,327, 12-20-60, Cl. 242-77.2.
- Blasberg, Lawrence A., W. A. Hughes, and L. J. Lader, to Hughes Aircraft Co. Sequential lobing system with ferrite phase shifters. 2,929,058, 3-15-60, Cl. 343-16.
- Blaschke, Rudolph O. Traction increasing and safety device. 2,924,486, 2-9-60, Cl. 301-48.
- Blaschko, Gerald F. Combined ottoman and collapsible back rest. 2,966,205, 12-27-60, Cl. 155-169.
- Blasdel, Howard C. Multiple bit tool. 2,933,963, 4-26-60, Cl. 81-71.
- Blaser, Bruno, W. Stein, and H. Schirp, to Henkel & Cie. G.m.b.H. Process for the introduction of carboxyl groups into heterocyclic compounds. 2,948,735, 8-9-60, Cl. 260-295.5.
- Blaser, Bruno, W. Stein, and H. Schirp, to Henkel & Cie. G.m.b.H. Process for the production of thiophene carboxylic acids. 2,948,737, 8-9-60, Cl. 260-332.2.
- Blaser, Bruno, H. Schirp, and W. Stein, to Henkel & Cie. G.m.b.H. Process for the introduction of carboxyl groups into aromatic hydrocarbons. 2,948,750, 8-9-60, Cl. 260-515.
- Blaser, Bruno, and E. Mayer, to Amchem Products, Inc. Method and solution for phosphatizing metals. 2,955,967, 10-11-60, Cl. 148-6.15.
- Blaser, Bruno, and G. Tschibirek, to Henkel & Cie. G.m.b.H. Polyether sulfuric acid addition compounds. 2,964,564, 12-13-60, Cl. 260-584.
- Blaser, Hans. Aerodynamic motorcar. 2,955,869, 10-11-60, Cl. 296-1.
- Blaser, William J.: *See*—  
Bonner, Charles A., Jr., and Blaser. 2,960,041.
- Blashfield, William H., to North Electric Co. Distributor arrangement. 2,930,853, 3-29-60, Cl. 179-18.
- Blashfield, William H., to North Electric Co. Automatic telephone system. 2,956,127, 10-11-60, Cl. 179-7.1.
- Blasingame, Benjamin P. Accelerometer. 2,928,668, 3-15-60, Cl. 264-1.



- Blasingame, Jesse J., and R. Overholt, Jr. Two antenna airborne moving target search radar. 2,965,895, 12-20-60, Cl. 343-7.7.
- Blaskiewicz, John A., Sr. Adjustable telescopic barricade device. 2,930,589, 3-29-60, Cl. 256-64.
- Blasutta, Victor V., and J. F. Hedge, to American Brake Shoe Co. Fluid pressure energy translating device. 2,924,182, 2-9-60, Cl. 103-136.
- Blaszowski, Henry. Insulating window. 2,934,801, 5-3-60, Cl. 20-56.5.
- Blatner, Richard P.: *See*—  
Szymczyk, Joseph W., Dinder, and Blatner. 2,936,466.
- Blatt, Leland F. Vacuumatic valve. 2,934,086, 4-26-60, Cl. 137-560.
- Blatt, Leland F., and J. M. Jateko. Cylinder assembly. 2,934,040, 4-26-60, Cl. 121-38.
- Blatt, Paula. Panty girdle. 2,955,598, 10-11-60, Cl. 128-546.
- Blatt, Paula. Maternity panty-girdle. 2,955,599, 10-11-60, Cl. 128-547.
- Blatter, Hans, to Aktiengesellschaft Brown, Boveri & Cie. Base load circuit for contact converter apparatus. 2,965,831, 12-20-60, Cl. 321-48.
- Blattner, Elizabeth: *See*—  
Blattner, Emil H. Re. 24,808.  
Blattner, Emil H. 2,919,819.
- Blattner, Emil H., deceased, by Elizabeth Blattner, executrix; to Symington Wayne Corp. Universal coupler and yoke connection. Re. 24,808, 4-12-60, Cl. 213-72.
- Blattner, Emil H., deceased, E. Blattner, executrix, to Symington Wayne Corp. Rubber-friction draft gear. 2,919,819, 1-5-60, Cl. 213-39.
- Blattner, Emil H., to The Symington Wayne Corp. Housed draft gear. 2,925,182, 2-16-60, Cl. 213-40.
- Blattner, Emil H., to Symington Wayne Corp. Automatic hydraulic slack adjuster. 2,925,892, 2-23-60, Cl. 188-198.
- Blattner, Emil H., to Symington Wayne Corp. Draft gear. 2,929,518, 3-22-60, Cl. 213-41.
- Blattner, Emil H., to Symington Wayne Corp. Draft gears. 2,937,769, 5-24-60, Cl. 213-61.
- Blattner, Emil H., to Symington Wayne Corp. Draft gears. 2,942,737, 6-28-60, Cl. 213-46.
- Blattner, Emil H., to Symington Wayne Corp. Draft attachment. 2,942,738, 6-28-60, Cl. 213-57.
- Blattner, Emil H., to Symington Wayne Corp. Draft rigging. 2,956,693, 10-18-60, Cl. 213-72.
- Blattner, Emil H., to Symington Wayne Corp. Snubbed strut. 2,966,321, 12-27-60, Cl. 248-119.
- Blatz, Peter A.,  $\frac{1}{2}$  to E. B. Jenkins,  $\frac{1}{2}$  to M. B. Simon, and  $\frac{1}{2}$  to E. B. Kane. Supplying method and apparatus. 2,956,427, 10-18-60, Cl. 69-33.
- Blatz, Walter L., to General Electric Co. Electrode assemblies and methods of making. 2,929,954, 3-22-60, Cl. 313-357.
- Blatz, William E.: *See*—  
Pitler, Richard K., and Blatz. 2,948,603.
- Blauer, Louis. Waterproof body protecting garment. 2,952,022, 9-13-60, Cl. 2-87.
- Blaupunkt-Werke: *See*—  
Schneider, Fritz. 2,926,319.
- Blaupunkt-Werke G.m.b.H.: *See*—  
Boochs, Hans. 2,942,064.
- Blauvelt, Roland G., to Herring-Hall-Marvin Safe Co. Rotary device. 2,921,735, 1-19-60, Cl. 232-44.
- Blauvelt, Roland G., to Diebold, Inc. Security file multi-bolt locking mechanism. 2,956,525, 10-18-60, Cl. 109-59.
- Blaw-Knox Co.: *See*—  
Bearer, Henry P., Jr. 2,948,013.  
Bowlus, Sanford S. 2,945,685.  
Gordon, Neil T., and Michaels. 2,951,575.  
Hale, Andrew, and Bailey. 2,954,580.  
Hale, Andrew, and Conley. 2,962,753.  
Kohlins, William D. 2,929,531.  
Kohlins, William D., Moore, and Montgomery. 2,953,199.  
Kullgren, Gilbert V., and Stephenson. 2,944,286.  
Lowey, Roy E., Jr. 2,938,231.  
Pottmeyer, Edward W. 2,922,538.  
Pottmeyer, Edward W., and McCarthy. 2,957,538.  
Rodder, William. 2,958,244.  
Schuetz, James W. 2,958,518.  
Steinhoff, Paul F. 2,961,301.  
Strock, Donald V., Moore, Schmidt, and Wadleck. 2,919,741.
- Blaw-Knox Ltd.: *See*—  
Nicholls, Cecil E. 2,939,198.
- Blazek, Henry: *See*—  
Schalkowsky, Samuel, Blazek, and Tolins. 2,936,624.
- Blazina, Anthony. Lock defroster. 2,965,741, 12-20-60, Cl. 219-19.
- Bleachers Association Ltd.: *See*—  
Landells, George, and Bragg. 2,947,058.  
Parker, Charles S., and Melville. 2,919,484.
- Bleasdale, William J., to Superior Pipe Specialties Co. Accumulator. 2,934,093, 4-26-60, Cl. 138-31.
- Blecker, Raymond H., J. S. Petersen, and K. J. Unwin, to Simmons Co. Sofa bed. 2,943,333, 7-5-60, Cl. 5-18.
- Blefary, Vincent F., and M. Ignatowicz, to Bell Telephone Laboratories, Inc. Visual display apparatus. 2,921,027, 3-29-60, Cl. 340-378.
- Bleich, Leon, and N. J. Weinstein, to Esso Research and Engineering Co. Isomerization process and preparation of feed stream therefor. 2,937,215, 5-17-60, Cl. 260-683.73.
- Bleikamp, Donald K., W. V. Wenger, and T. F. Pauls, to Olin Mathieson Chemical Corp. Hollow articles. 2,933,806, 4-26-60, Cl. 29-157.3.
- Bleikamp, Roy H., Jr., to Olin Mathieson Chemical Corp. Mine fuse. 2,923,237, 2-2-60, Cl. 102-8.
- Bleil, Carl E., to General Motors Corp. Color television pick-up tube. 2,939,026, 5-31-60, Cl. 313-65.
- Blemly, Marvin S., and A. J. Schenk, to Jervis B. Webb Co. Switch actuating mechanism. 2,964,600, 12-13-60, Cl. 200-47.
- Blennan, William G., and W. A. Brady, Jr., to General Motors Corp. Paint spraying apparatus. 2,955,568, 10-11-60, Cl. 118-323.
- Bles, Marcus J. Tool for cutting tree stumps and roots. 2,934,108, 4-26-60, Cl. 144-2.
- Bles, Marcus J. Apparatus for cutting tree stumps and roots. 2,934,109, 4-26-60, Cl. 144-2.
- Bles, Marcus J. Tree stump cutting and splitting apparatus. 2,966,180, 12-27-60, Cl. 144-2.
- Bless, Harold, to United States of America, Navy. Gas operated wire rope driven catapult. 2,926,871, 3-1-60, Cl. 244-63.
- Bless, Harold, to United States of America, Navy. Friction brake for catapults. 2,928,503, 3-15-60, Cl. 188-62.
- Bless, William. Immobilization attachment for an orthopedic traction shoe or boot. 2,959,169, 11-8-60, Cl. 128-80.
- Bletcher, James H.: *See*—  
Bletcher, Ralph E., Ward, and Bucknell. 2,923,315.
- Bletcher, Pearl W.: *See*—  
Bletcher, Ralph E., Ward, and Bucknell. 2,923,315.
- Bletcher, Ralph E., deceased (P. W. and J. H. Bletcher and L. E. Irell, executors); I. A. Ward and E. H. Bucknell; 10% to R. E. Bletcher, 12 $\frac{1}{2}$ % to E. H. Bucknell, 12 $\frac{1}{2}$ % to M. Bucknell, 10% to P. W. Bletcher, 25% to M. B. Liston, 10% to J. H. Bletcher, 10% to H. B. Skinner, and 10% to C. R. B. Robertson. Removable valve. 2,923,315, 2-2-60, Cl. 137-454.6.
- Bletsch, Charles E. Rip strip removing device. 2,928,569, 3-15-60, Cl. 220-52.
- Bletzinger, John C.: *See*—  
Rickard, Charlotte I., and Bletzinger. 2,922,423.
- Bletzinger, John C., to Kimberly-Clark Corp. Cellulosic product. 2,922,422, 1-26-60, Cl. 128-263.
- Bletzinger, John C., and H. N. Nelson, to Kimberly-Clark Corp. Method for making a cellulosic product. 2,926,394, 3-1-60, Cl. 19-144.5.
- Bletzinger, John C., and L. H. Allan, to Kimberly-Clark Corp. Cellulosic product. 2,950,223, 8-23-60, Cl. 162-114.
- Blauenstein, Julius M.: *See*—  
Horn, John S., and Blauenstein. 2,955,336.
- Blauenstein, Julius M., to Ford Motor Co. Shell molding material and process. 2,947,641, 8-2-60, Cl. 106-38.3.
- Blewer, Edward H. Container and holder for fusee or flare. 2,923,240, 2-2-60, Cl. 102-37.52.
- Blicke, Frederick F., to Regents of The University of Michigan. Basic esters of substituted beta-hydroxypropionic acids. 2,922,795, 1-26-60, Cl. 260-332.2.
- Blickensderfer, John A., to General Electric Co. Drum indexing system. 2,923,922, 2-2-60, Cl. 340-174.
- Blickwede, Donald J., J. W. Frame, and E. H. Mayer, to Bethlehem Steel Co. Enameled sheet steel. 2,956,906, 10-18-60, Cl. 117-129.
- Blickwedel, Theodore W., to Sylvania Electric Products Inc. Electrophoretic coating material. 2,947,677, 8-2-60, Cl. 204-181.
- Blink, Peter, and F. C. Holz, to Mitchell Mfg. Co. Carriage mounted folding table and bench assemblies. 2,936,820, 5-17-60, Cl. 155-124.
- Blinka, Joseph, to The Procter & Gamble Co. Process of making a colloidal suspension of phosphates. 2,940,938, 6-14-60, Cl. 252-309.
- Blinka, Joseph, and J. E. Henjum, to The Procter & Gamble Co. Detergent compositions. 2,941,948, 6-21-60, Cl. 252-138.
- Blinn, Franz: *See*—  
Neumann, Karl, and Blinn. 2,934,968.
- Blinn, Herbert M.: *See*—  
Pharis, William W., Campa, and Blinn. 2,935,571.
- Bilsard, Harold S., E. H. Smith, R. K. Rockstroh, and J. A. Guthrie, to Sun Oil Co. Separation of oil and wax. 2,943,992, 7-5-60, Cl. 208-33.
- Bliss, Arthur D.: *See*—  
Klein, Ralph, Nadeau, Schoen, and Bliss. 2,946,664.
- Bliss, Charles, and K. R. Wagner, to Foster Wheeler Corp. Heat exchange apparatus. 2,951,685, 9-6-60, Cl. 257-235.
- Bliss, E. W., Co.: *See*—  
Adams, Thomas O. 2,934,194.  
Crane, Edward V., and Fehn. 2,939,973.  
Fehn, Frank P., Sr. 2,931,928.  
Fehn, Frank P., Sr. 2,941,137.  
Hatch, Meredith R. 2,920,675.  
Heym, Lothar S. 2,959,077.  
Krauss, Carl F. 2,960,952.  
Strout, Robert W. 2,925,749.  
Wingard, James K. 2,920,837.
- Bliss, Edward E., to Radio Corp. of America. Travelling wave tube. 2,964,670, 12-13-60, Cl. 315-3.5.



- Bliss, Harvey N., to Veeder-Root, Inc. Resetting mechanism for counters. 2,932,448, 4-12-60, Cl. 235-144.
- Bliss, Harvey N. Device for use with can lids. 2,939,605, 6-7-60, Cl. 220-36.
- Bliss, Harvey N., and G. L. Manke, to Veeder-Root Inc. Transfer pinion for counters. 2,928,288, 3-15-60, Cl. 74-411.
- Bliss, Harvey N., and H. B. Vroom, to Veeder-Root Inc. Pre-determining counter. 2,954,925, 10-4-60, Cl. 235-132.
- Bliss, John W., to J. L. Case Co. Agricultural planter. 2,963,998, 12-13-60, Cl. 111-85.
- Bliss, Lyle A., to Phillips Petroleum Co. High temperature-low temperature diolefin polymerization process. 2,928,813, 3-15-60, Cl. 260-83.7.
- Bliss, Lyman A.: See—  
Loveday, Paul E., and Bliss. 2,951,348.
- Bliton, Jerald L.: See—  
Baldwin, William J., and Bliton. 2,955,030.
- Bliton, Jerald L., and W. J. Baldwin, to National Lead Co. Glass polishing compositions. 2,955,031, 10-4-60, Cl. 51-309.
- Blitz, Daniel, to Sanders Associates, Inc. Transmission line. 2,926,317, 2-23-60, Cl. 333-84.
- Blitz, Milton: See—  
Freedman, Louis, Blitz, Sabine, and Eigen. 2,939,821.
- Blitzer, Bud. Cellular lighting element and means for supporting the same. 2,937,265, 5-17-60, Cl. 240-9.
- Blitzer, Sidney M., and T. H. Pearson, to Ethyl Corp. Sodium tetraethylboron. 2,944,084, 7-5-60, Cl. 260-606.5.
- Blitzer, Sidney M., and T. H. Pearson, to Ethyl Corp. Manufacture of organolead compounds. 2,955,124, 10-4-60, Cl. 260-437.
- Blitzer, Sidney M., and T. H. Pearson, to Ethyl Corp. Manufacture of alkyl magnesium compounds. 2,959,625, 11-8-60, Cl. 260-665.
- Bliven, Francis L.: See—  
Kohn, Robert C., Slovin, and Bliven. 2,953,839.
- Blixrud, John O., J. C. Johnson, and E. G. Franklin, to General Mills, Inc. Automatic toaster. 2,950,668, 8-30-60, Cl. 99-329.
- Blizard, John, to Foster Wheeler Corp. Control of the temperature of superheated vapor. 2,946,323, 7-26-60, Cl. 122-479.
- Blizard, Robert B., R. Proskauer, and V. Vacquier, to Sperry Rand Corp. Sonar ray tracer. 2,942,782, 6-28-60, Cl. 285-182.
- Bloch, Erich, to International Business Machines Corp. Switch core matrix. 2,947,977, 8-2-60, Cl. 340-174.
- Bloch, Felix. Line narrowing gyromagnetic apparatus. 2,960,649, 11-15-60, Cl. 324-5.
- Bloch, Gaston, to Firma Trafag Transformatorenbau A.G. Thermostat. 2,929,901, 3-22-60, Cl. 200-140.
- Bloch, Herman S.: See—  
Broughton, Donald B., Bloch, and Wackher. 2,957,927.  
Hervert, George L., and Bloch. 2,958,581.  
Hervert, George L., and Bloch. 2,958,582.  
Hervert, George L., and Bloch. 2,958,583.
- Bloch, Herman S., to Universal Oil Products Co. Preparation of p-dialkylbenzenes. 2,920,114, 1-5-60, Cl. 260-666.
- Bloch, Herman S., to Universal Oil Products Co. Vulcanizable composition containing sulfur, rubber, and an alkenylthiophenol. 2,932,622, 4-12-60, Cl. 260-4.
- Bloch, Herman S., to Universal Oil Products Co. Gas purification process. 2,946,652, 7-26-60, Cl. 23-3.
- Bloch, Herman S., to Universal Oil Products Co. Fatty acid compounds for use as drying oils. 2,954,387, 9-27-60, Cl. 260-407.
- Bloch, Herman S., to Universal Oil Products Co. Alkylation of aromatic hydrocarbons. 2,955,143, 10-4-60, Cl. 260-671.
- Bloch, Herman S., and H. E. Mammen, to Universal Oil Products Co. Ether-glycol regeneration process utilizing an inorganic compound during solvent distillation. 2,922,831, 1-26-60, Cl. 260-705.
- Bloch, Herman S., and L. Schmerling, to Universal Oil Products Co. Halocycloalkenic derivatives of 1,2-methylene-dioxybenzenes. 2,923,717, 2-2-60, Cl. 260-340.5.
- Bloch, Herman S., and V. Haensel, to Universal Oil Products Co. Removal of hydrogen sulfide from gas mixtures. 2,930,673, 3-29-60, Cl. 23-3.
- Bloch, Herman S., and V. Haensel, to Universal Oil Products Co. Hydroisomerization process. 2,935,545, 5-3-60, Cl. 260-683.66.
- Bloch, Jack, to Foster Grant Co., Inc. Rotary display rack for sunglasses or the like. 2,936,897, 5-17-60, Cl. 211-13.
- Bloch, Peter, and H. Hafner, to Ludw. Von Roll'sche Eisenwerke A.G. Control means for hydrostatic power transmission. 2,931,176, 4-5-60, Cl. 60-52.
- Blocher, John M., Jr.: See—  
Campbell, Ivor E., and Blocher. 2,955,566.
- Block, Abraham N. Concrete fence structure. 2,955,806, 10-11-60, Cl. 256-19.
- Block, Harold A., to Bachan Mfg. Co. Fluid actuator for linear and rotary movements. 2,955,579, 10-11-60, Cl. 121-119.
- Block, Harold A., to Bachan Mfg. Co. Relief and replenishing valve. 2,955,613, 10-11-60, Cl. 137-493.9.
- Block, Millard E. Fluorescent lighting fixture. 2,924,702, 2-9-60, Cl. 240-51.11.
- Blocker, Leo R., 25% to D. and B. Endres, and 25% to R. and G. Endres. Cultivating and weeder attachment for tractors. 2,928,484, 3-15-60, Cl. 172-549.
- Blodgett, Edwin O., to Commercial Controls Corp. Code-form converter. 2,927,158, 3-1-60, Cl. 178-26.
- Blodgett, Edwin O., to Commercial Controls Corp. Justification control information recorder. 2,934,145, 4-26-60, Cl. 164-115.
- Blodgett, Edwin O., and W. C. Ahrens, to Commercial Controls Corp. Tape and card record media reader. 2,945,623, 7-19-60, Cl. 235-61.11.
- Blodgett, Norman S.: See—  
Peix, Charles H. 2,922,293.
- Blodgett, Norman S., to Riley Stoker Corp. Steam generating unit. 2,962,006, 11-29-60, Cl. 122-479.
- Blodgett, Stewart B., to ACF Industries, Inc. Injection system. 2,937,858, 5-24-60, Cl. 261-50.
- Bloem, Aldert T., to North American Philips Co., Inc. Heat exchanger for separating out constituents from a gas by cooling. 2,947,152, 8-2-60, Cl. 62-40.
- Bloem, Aldert T., to North American Philips Co., Inc. Method of manufacturing a regenerator of the type used in hot-gas reciprocating engines. 2,958,935, 11-8-60, Cl. 29-157.3.
- Bloem, Jan: See—  
Kröger, Ferdinand A., and Bloem. 2,956,912.
- Blok, Lourens, to North American Philips Co., Inc. Crucible of refractory semi-conductive material. 2,960,326, 11-15-60, Cl. 263-48.
- Blomberg, Richard N., to E. I. du Pont de Nemours and Co. Process for wet spinning plasticized elastomeric polymers and subsequently removing the plasticizer. 2,965,437, 12-20-60, Cl. 18-54.
- Blomeley Engineering Corp.: See—  
Blomeley, Ralph and H. H. 2,955,686.
- Blomeley, Harold H.: See—  
Blomeley, Ralph and H. H. 2,955,686.
- Blomeley, Ralph and H. H., to Blomeley Engineering Corp. Insulating structure and method of producing same. 2,955,686, 10-11-60, Cl. 189-3.
- Blomfield, Rodney A., to Wyandotte Chemicals Corp. Highly alkaline dichlorodimethylhydantoin bleaching solutions and methods. 2,938,764, 5-31-60, Cl. 8-108.
- Blomgren, Axel E., to Raymond Engineering Laboratory, Inc. Explosive actuated switch. 2,929,892, 3-22-60, Cl. 200-82.
- Blomme, Erik V. Screw vises. 2,938,414, 5-31-60, Cl. 81-38.
- Blomme, Victor J. Hair-clasp. 2,921,589, 1-19-60, Cl. 132-48.
- Blomquist, Albert E., to Fairchild Engine and Airplane Corp. Bulldozer. 2,927,385, 3-8-60, Cl. 37-117.5.
- Blomquist, Albert E., to Fairchild Engine and Airplane Corp. Earth moving and ballast carrying vehicle. 2,932,102, 4-12-60, Cl. 37-126.
- Blomquist, Alfred T.: See—  
Johnson, John, Blomquist, and McCrone. 2,959,587.
- Blomquist, Edward P.: See—  
Acker, Norman J., and Blomquist. 2,965,369.
- Blomqvist, Ake H. P., and B. A. E. Qvarnstrom, to Aktiebolaget Bofors. Apparatus for determining the physical output of servo-system. 2,950,616, 8-30-60, Cl. 73-1.
- Blomqvist, Bengt O.: See—  
Fagerlund, Yngve A. F., and Blomqvist. 2,943,759.
- Blood, Harold L., and R. A. Quimby, to The Heald Machine Co. Grinding machine. 2,932,130, 4-12-60, Cl. 51-50.
- Blood, Robert H., to Jersey Production Research Co. Inflatable packer formation tester. 2,959,226, 11-8-60, Cl. 166-187.
- Blood, Robert H., and H. C. Bridwell, to Jersey Production Research Co. Advancing type well packer. 2,942,667, 6-28-60, Cl. 166-187.
- Bloom, Aaron: See—  
Meador, T. John, and Bloom. 2,952,256.
- Bloom, Aaron, to Sierra Engineering Co. Auxiliary tank relief valve. 2,945,501, 7-19-60, Cl. 137-64.
- Bloom, Aaron, to Sierra Engineering Co. Inline diluter valve. 2,947,314, 8-2-60, Cl. 137-64.
- Bloom, Aaron, and O. W. Wilcox, to Sierra Engineering Co. Valve and microphone base assembly. 2,953,129, 9-20-60, Cl. 128-146.
- Bloom, Albert: See—  
Schenck, Leslie M., and Bloom. 2,950,319.
- Bloom, Albert, and H. B. Freyermuth, to General Aniline & Film Corp. Acylation of aminoanthraquinones. 2,965,653, 12-20-60, Cl. 260-377.
- Bloom, Arnold L., and M. E. Packard, to Varian Associates. Gyromagnetic resonance apparatus. 2,922,947, 1-26-60, Cl. 324-5.
- Bloom, Arnold W., and R. K. Wolke, to Radio Corp. of America. Electron tube mount. 2,921,209, 1-12-60, Cl. 313-6.
- Bloom, Barry M.: See—  
Bogert, Virgil V., and Bloom. 2,961,441.
- Bloom, Barry M., to Chas. Pfizer & Co., Inc. N-(1-naphthyl)-N'-( $\beta$ -substituted ethyl)-ureas. 2,956,072, 10-11-60, Cl. 260-456.
- Bloom, Barry M., E. J. Agnello, G. M. Shull, and G. D. Laubach, to Chas. Pfizer & Co., Inc. 14,15-oxido-steroids of the pregnane series. 2,929,813, 3-22-60, Cl. 260-239.55.
- Bloom Engineering Co., Inc.: See—  
Bloom, Frederick S., and Conway. 2,927,783.
- Bloom, Frederick S., and L. F. Conway; said Conway assor. to Bloom Engineering Co., Inc. Metal heating furnace system. 2,927,783, 3-8-60, Cl. 263-39.



- Bloom, Jerome H.: *See*—  
Babakian, Jacob, and Bloom. 2,938,178.
- Bloom, Judith D.,  $\frac{1}{4}$  to W. E. Martin. Multiple tilt chair, chaise lounge or hammock. 2,930,430, 3-29-60, Cl. 155-77.
- Bloom, Lee H., to Lever Brothers Co. Striping dispenser. 2,959,327, 11-8-60, Cl. 222-94.
- Bloom, Leonard: *See*—  
Rey, Thomas J. 2,931,030.  
Rey, Thomas J. 2,958,862.
- Bloomer Bros. Co.: *See*—  
De Blaere, William H. 2,936,104.  
Holmes, Raynor M. 2,961,140.  
Inman, William H. 2,936,103.  
Inman, William H. and Holmes. 2,955,735.
- Bloomer, Ronald N.: *See*—  
Haine, Michael E., Bloomer, and Francis. 2,957,619.
- Bloomfield, Dennis G.: *See*—  
Russell, Robert G., and Bloomfield. 2,941,744.
- Bloomfield, Irwin M. Roll film adapter. 2,943,542, 7-5-60, Cl. 95-11.
- Bloomfield, Robert V., and A. Sechrist. Aircraft flotation and water planing device. 2,953,486, 11-1-60, Cl. 244-105.
- Bloomgren, Eugene C.: *See*—  
Burfield, Lyle W., and Bloomgren. 2,966,110.
- Bloomsburg, Harry E., O. C. Behymer, and W. K. Robbins, to Esso Research and Engineering Co. Production of solvents. 2,946,745, 7-26-60, Cl. 208-312.
- Bloomsburgh, Ralph A.: *See*—  
Boothroyd, Wilson F., and Bloomsburgh. 2,935,635.
- Bloor, Ralph L.: *See*—  
Buzzell, Dow A., and Bloor. 2,961,731.
- Bloser, Dwight W., to Daystrom, Inc. Electro-mechanical counting apparatus. 2,930,527, 3-29-60, Cl. 235-132.
- Blosser, Dwight. Material handling device. 2,945,607, 7-19-60, Cl. 214-53.26.
- Bloudoff, Peter S.: *See*—  
Brennan, John R., and Bloudoff. 2,921,531.  
Brennan, John R., and Bloudoff. 2,959,136.
- Bloudoff, Peter S., to The National Supply Co. On and off tool. 2,921,634, 1-19-60, Cl. 166-219.
- Blount, Frank E.: *See*—  
Avery, Robert C., and Blount. 2,923,771.
- Blount, Prescott: *See*—  
Karr, George R., and Blount. 2,957,615.
- Blout, Elkan R.: *See*—  
Land, Edwin H., Blout, and Haas. 2,956,877.
- Blout, Elkan R., to Polaroid Corp. Novel photographic developers. 2,939,788, 6-7-60, Cl. 96-29.
- Blout, Elkan R., W. H. Ryan, V. K. Walworth, and H. C. Haas, to Polaroid Corp. Sheet stock for dichroic dye light-polarizing means and process of preparation. 2,931,271, 4-5-60, Cl. 88-65.
- Blout, Elkan R., M. Green, and M. S. Simon, to Polaroid Corp. Process for developing silver halide emulsions. 2,949,359, 8-16-60, Cl. 96-66.
- Blow, Angus W., and A. A. Baker, Jr., to General Dynamics Corp. Improved selector per station telephone system. 2,927,970, 3-8-60, Cl. 179-18.
- Blowers, Shirley C.: *See*—  
Cartwright, Leonard W., and Blowers. 2,961,542.
- Bloxom, Clarence W., to Rockwell Mfg. Co. Dispensing apparatus. 2,925,941, 2-23-60, Cl. 222-254.
- Bloxson, Allan P. Cooking means. 2,947,240, 8-2-60, Cl. 99-333.
- Blue Channel Corp.: *See*—  
Harris, Sterling G. 2,929,502.
- Blue, Clarence W., and J. S. Luce, to United States of America, Atomic Energy Commission. Ion source. 2,945,972, 7-19-60, Cl. 313-63.
- Blue, John, Co., Inc.: *See*—  
Johnston, Douglas. 2,933,049.  
Johnston, Douglas. 2,951,495.
- Blue M Electric Co.: *See*—  
Lawler, Joseph A. 2,948,125.
- Blue, Robert D.: *See*—  
Neipert, Marshall P., Blue, and Hunter. 2,949,412.
- Blue, Robert D., and M. P. Neipert, to The Dow Chemical Co. Preparation of lower titanium halides in a molten salt bath. 2,943,033, 6-28-60, Cl. 204-64.
- Blue, Robert D., and M. P. Neipert, to The Dow Chemical Co. Chlorine cell having protected diaphragm. 2,944,956, Cl. 7-12-60, Cl. 204-266.
- Blue, Roy E., to Chrysler Corp. Powdered ferrous metals and articles and methods of making the same. 2,942,334, 6-28-60, Cl. 29-182.
- Blue, Sidney D. Shirt. 2,935,749, 5-10-60, Cl. 2-116.
- Bluestein, Ben A., to General Electric Co. Process for curing silica containing organo polysiloxane elastomers with amines and product obtained. 2,938,010, 5-24-60, Cl. 260-37.
- Bluestone, Henry: *See*—  
Berkey, Reynold A., and Bluestone. 2,957,887.  
Pyne, William J., Rosen, and Bluestone. 2,939,871.
- Bluestone, Henry, to Diamond Alkali Co. Method of killing fungi comprising contacting said fungi with a 2-thiotetrahydrothiazine. 2,920,996, 1-12-60, Cl. 167-33.
- Bluestone, Henry, to Shell Development Co. Production of chlorinated bicyclic hydrocarbons. 2,925,445, 2-16-60, Cl. 260-648.
- Bluestone, Henry, to Diamond Alkali Co. Certain thiazolidine-thione alkalides and process. 2,953,573, 9-20-60, Cl. 260-306.7.
- Bluestone, Henry, to Diamond Alkali Co. Fungicidal polychlorobenzophenone oximes. 2,963,399, 12-6-60, Cl. 167-30.
- Bluestone, Henry, and W. J. Pyne, to Diamond Alkali Co. Method of controlling nematode infestation. 2,937,972, 5-24-60, Cl. 167-33.
- Blum, Fred. Disposable dispenser package. 2,927,686, 3-8-60, Cl. 206-42.
- Blum, Frederick J.: *See*—  
Blum, Harry J., Lindholm, and Blum. 2,958,347.
- Blum, Harry J., F. J. Lindholm, and F. J. Blum, to Armstrong-Blum Mfg. Co. Band sawing machine and controls. 2,958,347, 11-1-60, Cl. 143-17.
- Blum, Josef, to Ivan Sorvoll, Inc. Microtome bypass slide. 2,948,190, 8-9-60, Cl. 88-40.
- Blum, Juliette N.: *See*—  
Petitcolas, Pierre, Sureau, and Cyna. 2,926,985.
- Blum, Julius A. Gas lift retrievable valve. 2,952,268, 9-13-60, Cl. 137-155.
- Blum, Louis. Shrimp preparing machine. 2,921,382, 1-19-60, Cl. 34-48.
- Blum, Louis, to Blumcraft of Pittsburgh. Composite metal and wood post structure. 2,945,679, 7-19-60, Cl. 256-65.
- Blum, Robert D., to Borg-Warner Corp. Air conditioning systems. 2,928,260, 3-15-60, Cl. 62-325.
- Blum, Robert D., to Borg-Warner Corp. Air conditioning systems. 2,930,593, 3-29-60, Cl. 257-283.
- Blum, William A., to Pennsalt Chemicals Corp. Metal forming lubricant and method of making same. 2,964,472, 12-13-60, Cl. 252-18.
- Blumberg, Benjamin. Plumbing test apparatus. 2,962,054, 11-29-60, Cl. 138-90.
- Blumberg, Benjamin and P., and T. Taubman. Shower head. 2,949,242, 8-16-60, Cl. 239-460.
- Blumberg, Philip: *See*—  
Blumberg, Benjamin and P., and Taubman. 2,949,242.
- Blumberg, Richard, and G. Moore. Width measuring apparatus. 2,941,087, 6-14-60, Cl. 250-219.
- Blumcraft of Pittsburgh: *See*—  
Blum, Louis. 2,945,679.
- Blume, Walter S., to Sunbeam Corp. Rotary lawnmower and attachment therefor. 2,936,593, 5-17-60, Cl. 56-25.4.
- Blume, Walter S., Jr., to Leyman Corp. Method of making permanent magnets. 2,964,793, 12-20-60, Cl. 18-47.5.
- Blumer, Donald R., to Minneapolis-Honeywell Regulator Co. Gas detecting apparatus. 2,930,015, 3-22-60, Cl. 338-13.
- Blumer, Manuel, to Sonneborn Chemical and Refining Corp. Process for producing alkaline earth metal sulfonates. 2,961,403, 11-22-60, Cl. 252-33.
- Blumkin, Sidney, to H. J. Talge. Food slicer gauge plate thrust and safety indexing mechanism. 2,926,711, 3-1-60, Cl. 146-102.
- Blumquist, Frank L., and R. E. Kramer, to Hammond Iron Works. Float apparatus. 2,924,191, 2-9-60, Cl. 114-5.
- Blumstein, Abraham. Watch and pill case or the like. 2,948,106, 8-9-60, Cl. 58-57.5.
- Blundin, Warren S., H. T. Hallman, I. L. Langvand, and L. L. Leach, to The Babcock & Wilcox Co. Moving bed stoker. 2,936,725, 5-17-60, Cl. 110-40.
- Blunt, Owen T., to Ford Motor Co. Wrench having an extension handle associated with measuring indicia. 2,964,981, 12-20-60, Cl. 81-177.
- Blustein, Abraham, to Brown Counter Co. Molded counter for arch supporting shoes. 2,936,536, 5-17-60, Cl. 36-68.
- Bluth, Edward J., and F. O. Luenberger, to U.S. Electrical Motors, Inc. Sealed submersible motor and process of making same. 2,965,776, 12-20-60, Cl. 310-86.
- Blutman, Eli, and J. M. Sacks, to United States of America, Navy. Photographic digital readout device. 2,953,776, 9-20-60, Cl. 334-324.
- Blydenburgh, Walter, to Radio Corp. of America. Variable drive apparatus. 2,964,971, 12-20-60, Cl. 74-567.
- Blystone, Wayne G., and H. J. Ellis, to North American Aviation, Inc. Fluid pressure transducer assembly. 2,933,707, 4-19-60, Cl. 338-4.
- Blyth, Jack V., and R. A. Gilbert, to D. Napier & Son Ltd. Removable bearing support structure for a power turbine. 2,933,893, 4-26-60, Cl. 60-39.16.
- Blythe, Allen W. Supplemental shock absorber. 2,925,263, 2-16-60, Cl. 267-8.
- Blythe, Clarence M.: *See*—  
Oxley, Le Roy W., and Blythe. 2,947,320.  
Oxley, Leroy V., Blythe, and Popovich. 2,958,567.
- Blythe, Richard. Electronic control of optical and near-optical radiation. 2,920,529, 1-12-60, Cl. 88-73.
- Boadway, John D.: *See*—  
Freeman, Horace, and Boadway. 2,920,761.  
Freeman, Horace, and Boadway. 2,927,693.
- Boag, David J. W. Electric arc welding apparatus. 2,921,222, 1-12-60, Cl. 314-69.
- Boag, James C.: *See*—  
Karbum, August C., and Boag. 2,948,747.
- Boardman, Harold, to Hercules Powder Co. Stabilized polymeric oxetane molding compositions. 2,947,722, 8-2-60, Cl. 260-45.85.
- Boardman, Harry C., to Chicago Bridge & Iron Co. Liquid storage vessel. 2,920,784, 1-12-60, Cl. 220-1.



- Boardman, Stanley, to United States of America, Air Force. Bolt retainer. 2,929,474, 3-22-60, Cl. 189-36.
- Boarini, Edward J., to The Celotex Corp. Interlocking shingle. 2,959,898, 11-15-60, Cl. 50-224.
- Boarman, Thomas B. Anti-rattle safety lock. 2,926,041, 2-23-60, Cl. 296-44.
- Boas, William J., and Co.: See—  
Ullger, Joseph W. 2,934,254.
- Boast, Gordon: See—  
Woollett, Ralph, and Boast. 2,943,468.
- Bobal, Michael A.: See—  
Doll, Philip B., and Bobal. 2,962,386.
- Bobard, Emile. Driven steering wheel. 2,928,487, 3-15-60, Cl. 180-42.
- Bobard, Emile. Multiple steering system for vehicles. 2,929,638, 3-22-60, Cl. 280-95.
- Bobb, Lloyd J., to Philco Corp. Loud-speakers. 2,935,575, 5-3-60, Cl. 179-14.
- Bobb, Lloyd J., H. E. Johnston, and O. Taraborrelli, to Philco Corp. Vibration damping means. 2,924,461, 2-9-60, Cl. 274-23.
- Bobb, Lloyd J., and O. Taraborrelli, to Philco Corp. Sound reproducing apparatus. 2,964,595, 12-13-60, Cl. 179-100.41.
- Bobb, Sidney: See—  
Rachman, Isadore B., and Bobb. 2,942,921.  
Rachman, Isadore B., and Bobb. 2,943,243.
- Bobbs, William P.: See—  
Williams, Victor R., and Bobbs. 2,965,198.
- Bobcat Corp.: See—  
Lossau, Earl. 2,937,884.
- Bobco, William D., E. A. Kamp, and R. E. Stern, to United States of America, Army. Rocket launcher. 2,965,001, 12-20-60, Cl. 89-17.
- Bobcock, Andrew H., to Bell Telephone Laboratories, Inc. Magnetic core switching circuit. 2,922,145, 1-19-60, Cl. 340-174.
- Bobcock, Andrew H., to Bell Telephone Laboratories, Inc. Pulse generator. 2,939,115, 5-31-60, Cl. 340-174.
- Bobcock, Andrew H., to Bell Telephone Laboratories, Inc. Magnetic core circuit. 2,951,240, 8-30-60, Cl. 340-174.
- Bobcock, Andrew H., and J. H. Felker, to Bell Telephone Laboratories, Inc. Magnetic memory system. 2,939,114, 5-31-60, Cl. 340-174.
- Bobcock, Harold D., and S. H. Hine. Photographic negative carrier. 2,959,096, 11-8-60, Cl. 88-24.
- Bobek, William J., and R. Hawver, to Ford Motor Co. Vehicle seat construction. 2,939,740, 6-7-60, Cl. 296-66.
- Bobenhausen, Fred R. Pressure alarm for dual tires. 2,966,563, 12-27-60, Cl. 200-61.25.
- Bobko, Joseph A. Phonograph record holder. 2,925,914, 2-23-60, Cl. 211-40.
- Bobkowski, Vincent S., to Armament Components, Inc. Article handling system for cartridge feeding. 2,951,422, 9-6-60, Cl. 89-33.
- Bobo, Melvin: See—  
Stadthaus, Kurt R., Bobo, and Schaefer. 2,944,326.
- Bobo, Melvin, to General Electric Co. Honeycomb seal. 2,963,307, 12-6-60, Cl. 286-10.
- Bobo, Powell O., to Westinghouse Electric Corp. Phase and frequency matching regulator for generators. 2,929,941, 3-22-60, Cl. 307-87.
- Bobo, Roy A.: See—  
Boudreaux, George S., and Bobo. 2,945,678.
- Bobo, Roy A., and R. S. Hoch, to Phillips Petroleum Co. Borehole inclinometer. 2,933,820, 4-26-60, Cl. 33-205.
- Bobrick Mfg. Corp.: See—  
Cowan, Arnold A. 2,930,401.
- Bobrick, Mitchell, to Marvin Electric Mfg. Co. Adjustable spot light. 2,922,030, 1-19-60, Cl. 240-78.
- Bobrick, Mitchell, to Marvin Electric Mfg. Co. Push latch. 2,929,648, 3-22-60, Cl. 292-99.
- Bobrick, Mitchell, to Marvin Electric Mfg. Co. Adjustable light fixture. 2,963,255, 12-6-60, Cl. 248-327.
- Bobst, Henri, to J. Bobst and Son S.A. Presses for treating material in the form of sheets. 2,949,297, 8-16-60, Cl. 271-45.
- Bobst, J., and Son S.A.: See—  
Bobst, Henri. 2,949,297.  
Bobst, Jacques. 2,926,908.  
Laufer, Frederic. 2,935,932.  
Laufer, Frederic. 2,959,080.
- Bobst, Jacques, to J. Bobst and Son S.A. Press and a gripper bar device therefor. 2,926,908, 3-1-60, Cl. 271-47.
- Boby, Robert, Ltd.: See—  
Macphie, Donald. 2,924,283.
- Bocast, Donald R. Random signal generator. 2,964,658, 12-13-60, Cl. 307-132.
- Bochan, John, to General Electric Co. Unbalance control arrangement for laundry machines of the type including a centrifugal extraction operation. 2,920,470, 1-12-60, Cl. 68-12.
- Bochan, John, to General Electric Co. Recirculation and filtering system for clothes washing machine. 2,927,451, 3-8-60, Cl. 68-18.
- Bochan, John, to General Electric Co. Washing machine recirculation system. 2,943,474, 7-5-60, Cl. 68-18.
- Bochan, John, to General Electric Co. Unbalance correcting arrangement for laundry machines. 2,950,009, 8-23-60, Cl. 210-144.
- Bochan, John, to General Electric Co. Unbalance sensing arrangement for machines having a centrifugal liquid extraction step. 2,950,010, 8-23-60, Cl. 210-144.
- Bochan, John, to General Electric Co. Laundry machine. 2,950,613, 8-30-60, Cl. 68-12.
- Bochan, John, to General Electric Co. Joining member for providing a flexible connection between two relatively movable members. 2,959,966, 11-15-60, Cl. 74-18.1.
- Bochan, John, to General Electric Co. Flow control device. 2,962,046, 11-29-60, Cl. 137-513.5.
- Böcher, Hermann. Binding of wire coils. 2,930,313, 3-29-60, Cl. 100-3.
- Bochinski, Eugene: See—  
Trickett, Marion C. 2,933,976.
- Bochman, Harry L., Jr., to Hi-Shear Rivet Tool Corp. Power operated, magazine fed, fastener driving tool. 2,927,491, 3-8-60, Cl. 81-54.
- Bochumer Verein Fuer Gusstahlfabrikation, Aktiengesellschaft: See—  
Stich, Wilhelm, and Hueth. 2,931,892.
- Bocjl Corp.: See—  
Lang, Joseph C. 2,932,030.  
Lang, Joseph C. 2,964,751.
- Bock, Albert E. Four-cycle dishwashing machine. 2,963,029, 12-6-60, Cl. 134-38.
- Bock Corp.: See—  
Bock, Oscar L. 2,950,740.
- Bock, Fred J.: See—  
Scion, Robert R., and Bock. 2,932,575.
- Bock, Heinz, to North American Philips Co., Inc. Self-oscillating additive mixer circuit. 2,928,936, 3-15-60, Cl. 250-20.
- Bock, Oscar L., to Bock Corp. Flue conduits with heat transfer elements therein. 2,950,740, 8-30-60, Cl. 138-38.
- Bock, Robert O., and S. Davis, to American Bosch Arma Corp. Modulator or demodulator using magnetoresistive elements. 2,939,091, 5-31-60, Cl. 332-51.
- Bock, Willy, and A. Kohler, to SWF-Spezialfabrik für Autobehälter Gustav Rau G.m.b.H. Hand pump for windshield washing apparatus. 2,933,048, 4-19-60, Cl. 103-148.
- Bockelmann, John B.: See—  
Strandskov, Frede B., and Bockelmann. 2,963,368.  
Strandskov, Frede B., and Bockelmann. 2,964,406.
- Bockstahler, Theodore E., B. F. Aycock, and A. Carson, to Rohm & Haas Co. Preparation of  $\beta$ -acetylvinyl esters. 2,920,102, 1-5-60, Cl. 260-488.
- Bockstahler, Theodore E., B. F. Aycock, and A. Carson, to Rohm & Haas Co. Process for preparing triacetyl benzene. 2,920,108, 1-5-60, Cl. 260-592.
- Bodamer, George W., to Rohm & Haas Co. Electrolytic conversions with permselective membranes. 2,921,005, 1-12-60, Cl. 204-72.
- Bodde, Theodore. Helicopter with jet-driven rotor. 2,921,758, 1-19-60, Cl. 244-17.11.
- Boddy, Charles A., to St. Regis Paper Co. Rotary cutter for paper board box machines. 2,942,534, 6-28-60, Cl. 93-58.2.
- Boddy, Leonard, to King-Seely Corp. Temperature measuring probe. 2,925,572, 2-16-60, Cl. 338-28.
- Boddy, Leonard, to King-Seely Corp. Signal system. 2,947,979, 8-2-60, Cl. 340-213.
- Bode, Hans: See—  
Beck, Erich, and Bode. 2,945,634.
- Bode, Hendrik W., and H. J. McSkimin, to Bell Telephone Laboratories, Inc. Selective paging system. 2,955,279, 10-4-60, Cl. 340-164.
- Bode, Henry W., to The Chas. H. Stehling Co. Machine for preparing hides for tanning. 2,932,185, 4-12-60, Cl. 69-42.
- Boden, Evan H., to Sylvania Electric Products Inc. Flip-flop indicator. 2,954,493, 9-27-60, Cl. 313-3.
- Boden, Harry W., to Midland-Ross Corp. Car bottomed furnace. 2,930,600, 3-29-60, Cl. 263-28.
- Bodendoerfer, Raymond E.: See—  
Dumke, Robert H., and Bodendoerfer. 2,951,430.  
Loeser, Donald B., and Bodendoerfer. 2,942,531.
- Bodendoerfer, Raymond E., to Paper Machinery Corp. Blank wrapping mechanism for frusto-conical cup making machines. 2,942,530, 6-28-60, Cl. 93-36.1.
- Bodenschatz, August, to I-T-E Circuit Breaker Co. Hold-open and anti-rebound latches. 2,932,706, 4-12-60, Cl. 200-107.
- Bodenschatz, August, to I-T-E Circuit Breaker Co. Adaptation of a blister type disconnect means. 2,959,760, 11-8-60, Cl. 339-176.
- Bodenseewerk Perkin-Elmer & Co., G.m.b.H.: See—  
Goldhammer, Albert. 2,949,832.
- Bodian, Marcus, to Sunbeam Lighting Co. Light fixture hanger. 2,924,417, 2-9-60, Cl. 248-343.
- Bodian, Marcus, to Sunbeam Lighting Co. Adjustable fixture hanger. 2,938,988, 5-17-60, Cl. 248-228.
- Bodian, Marcus, to Sunbeam Lighting Co. Swinging hanger for fluorescent light fixture. 2,937,841, 5-24-60, Cl. 248-324.
- Bodian, Marcus, to Sunbeam Lighting Co. Fluorescent light fixture assembly. 2,958,763, 11-1-60, Cl. 240-51.11.
- Bodimer, Theodore B., and A. A. Pitrolo, to Joy Mfg. Co. Mobile belt loader. 2,922,509, 1-26-60, Cl. 198-10.
- Bodin, Alfred S. Matchbook holder. 2,942,725, 6-28-60, Cl. 206-31.
- Bodin, Sven A. O., to T. Leijon. Digging-bucket for loading machines. 2,924,345, 2-9-60, Cl. 214-145.



- Bodine, A. G., d.b.a. Bodine Soundrive Co.: *See*—  
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- Bodine, Albert G. Method for sonic earth boring by use of resonant wave pattern transmitted from ground surface. 2,942,849, 6-28-60, Cl. 255-1.8.
- Bodine, Albert G. Sonic liquid sprayer. 2,949,900, 8-23-60, Cl. 123-32.
- Bodine, Albert G. Method and apparatus for suppressing acoustic detonation phenomena in internal combustion engines by ion reaction. 2,951,473, 9-6-60, Cl. 123-191.
- Bodine, Albert G. Acoustic deep well pump with free compression column. 2,953,095, 9-20-60, Cl. 103-1.
- Bodine, Albert G., and J. N. Gregory, said Gregory assor, to said Bodine. Mass vibration absorber for sonic oil well drill. 2,953,351, 9-20-60, Cl. 255-4.4.
- Bodine, Albert G., Jr. Torsional vibration sonic drill. 2,921,372, 1-19-60, Cl. 32-27.
- Bodine, Albert G., Jr. Resonant combustion products generator with heat exchanger. 2,937,500, 5-24-60, Cl. 60-39.77.
- Bodine, Albert G., Jr. Jet engine noise reducer. 2,944,623, 7-12-60, Cl. 181-43.
- Bodine, Albert G., Jr. Sonic system for unscrewing threaded pipe joints. 2,948,059, 8-9-60, Cl. 29-427.
- Bodine, Albert G., Jr. Vacuum cleaner with pulsating suction. 2,951,257, 9-6-60, Cl. 15-40.4.
- Bodine, Albert G., Jr. Suction cleaner with beater action and vibration isolator. 2,959,805, 11-15-60, Cl. 15-379.
- Bodine, Albert G., Jr. Method and apparatus for generating and transmitting sonic vibrations. 2,960,314, 11-15-60, Cl. 257-73.
- Bodine, Albert G., Jr. Apparatus for generating and transmitting sonic vibrations. 2,960,317, 11-15-60, Cl. 259-1.
- Bodine Soundrive Co.: *See*—  
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- Bodkin, Ernest A., and J. I. Savoca, to Socony Mobil Oil Co., Inc. Adsorbent washing process. 2,951,036, 8-30-60, Cl. 208-305.
- Bodkin, John L.: *See*—  
Flournoy, Harold H., Jr., and Bodkin. 2,949,388.
- Bodley, Robert W., R. C. Ulm, and L. A. Wilkin, to Union Tank Car Co. Breather reservoir. 2,948,432, 8-9-60, Cl. 220-85.
- Bodmer, Hans. Valve and nozzle for a washing unit. 2,943,799, 7-5-60, Cl. 239-569.
- Bodmer, Max G., to Bell Telephone Laboratories, Inc. Traveling wave tube. 2,947,907, 8-2-60, Cl. 315-3.5.
- Bodmer, Maximilian H., and C. A. van Staaden, to N.V. Hollandse Signaalapparaten. Directive aerial. 2,940,078, 6-7-60, Cl. 343-761.
- Bodner, Fritz, to Hauni-Werke Korber & Co. K.G. New and improved method and means for feeding cut tobacco to a plurality of cigarette machines. 2,948,569, 8-9-60, Cl. 306-28.
- Bodner, Martin, and W. B. Brewer, to Lockheed Aircraft Corp. Temperature compensating strain gage. 2,930,224, 3-29-60, Cl. 73-88.5.
- Boe, Ernest L. Extractor tool. 2,924,006, 2-9-60, Cl. 29-280.
- Boegehold, Alfred L., to General Motors Corp. Process and apparatus for forming reinforced thin-walled shell molds. 2,945,272, 7-19-60, Cl. 22-36.
- Boehler, Joseph, to Peters Machinery Co. Cooky sandwich dividing, counting and grouping machine. 2,928,520, 3-15-60, Cl. 198-31.
- Boehler, Robert E., to United States Steel Corp. Fluid-operated diaphragm valve. 2,931,386, 4-5-60, Cl. 137-599.
- Boehlow, Robert W., to ACF Industries, Inc. Spring clip fastener. 2,925,295, 2-16-60, Cl. 287-93.
- Boehm, Albert, to American District Telegraph Co. Gate valve signal system. 2,925,480, 2-16-60, Cl. 200-61.86.
- Boehm, Benjamin F., to Chrysler Corp. Overdriven torque converter transmission. 2,949,794, 8-23-60, Cl. 74-732.
- Boehm, Hans: *See*—  
Nienburg, Hans, Schiller, Weber, and Boehm. 2,927,105.
- Boehm, Harry E. Device for rolling and wrapping newspapers. 2,961,813, 11-29-60, Cl. 53-215.
- Boehm, John C.: *See*—  
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- Boehm, Josef: *See*—  
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- Boehm, Josef. Transmission device. 2,950,624, 8-30-60, Cl. 74-202.
- Boehme Fettechemie G.m.b.H.: *See*—  
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- Boehme, Richard F., and D. R. Zuck, to Lockheed Aircraft Corp. Emergency oxygen system for high altitude aircraft. 2,934,293, 4-26-60, Cl. 244-118.
- Boehme, Werner R.: *See*—  
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- Boehme, Werner R., to Ethicon, Inc. Derivatives of dihydro and tetrahydrofurans. 2,921,078, 1-12-60, Cl. 260-297.
- Boehme, Werner R., to Ethicon, Inc. New organic compound. 2,921,082, 1-12-60, Cl. 260-347.8.
- Boehme, Werner R., to Ethicon, Inc. New series of organic compounds. 2,931,816, 4-5-60, Cl. 260-346.2.
- Boehme, Werner R., and J. Nichols, to Ethicon, Inc. New series of organic compounds. 2,926,172, 2-23-60, Cl. 260-326.3.
- Boehme, Werner R., and J. Nichols, to Ethicon, Inc. Saturated and unsaturated bicyclic carbon-bridged carbonylureas. 2,942,026, 6-21-60, Cl. 260-533.
- Boehne, Eugene W., to Allis-Chalmers Mfg. Co. Circuit breaker employing perforated flue means adjacent arc runners. 2,942,084, 6-21-60, Cl. 200-144.
- Boehner, Ludwig G., and E. Moller, to Volkswagenwerke G.m.b.H. Motor compartment ventilator especially for motor vehicles having rear mounted motors. 2,958,385, 11-1-60, Cl. 180-54.
- Boehringer, C. F., & Soehne G.m.b.H.: *See*—  
Haack, Erich, Dimroth, Hagedorn, Heimberger, and Peschke. 2,957,916.
- Haack, Erich, and Hagedorn. 2,951,843.
- Haack, Erich, Hagedorn, Peschke, Aumüller, and Wagner. 2,953,578.
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- Ziegler, Paul E. 2,955,776.
- Boehringer, C. H., Sohn: *See*—  
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- Cannata, Umberto G. 2,960,776.
- Cheney, Gordon H. 2,957,345.
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- Condiff, Hays B. 2,962,077.
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- Hanger, Randolph T. 2,963,927.
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- Horton, Raynor E., and Schmel. 2,961,760.
- Jensen, Earl L., and Washington. 2,945,651.
- Kennedy, Ira D., and Turner. 2,933,021.
- Kofoid, Melvin J. 2,952,296.
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- Krauss, Hans G., and Simon. 2,952,244.
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- McGehee, Bobby L. 2,959,917.
- McMurtrey, Lawrence J., and Long. 2,957,308.
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- Smith, Howard W. 2,950,879.
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- Boeing, Walton F., to General Electric Co. Automatic ice cube making machines. 2,946,202, 7-26-60, Cl. 62-135.
- Boeker, Harold T., to General Electric Co. Voltage regulator. 2,951,947, 9-6-60, Cl. 250-103.
- Boekhorst, Antonius, to North American Philips Co., Inc. Circuit arrangement for deriving a sum voltage and a difference voltage from two voltages. 2,931,902, 4-5-60, Cl. 250-27.
- Boekhorst, Antonius, and H. Heijligers, to North American Philips Co., Inc. Circuit arrangement for producing a sawtooth current in a coil. 2,944,186, 7-5-60, Cl. 315-27.
- Boening, Henry W. Hen nest. 2,956,539, 10-18-60, Cl. 119-48.
- Boer, Arpad, to Bancroft-Brillotex International S.A. Machine for separating wool fibres or other filaments. 2,924,854, 2-16-60, Cl. 19-131.
- Boer, Arpad, to Bancroft-Brillotex International S.A. Machine for separating wool fibres or other filaments. 2,925,628, 2-23-60, Cl. 19-130.
- Boer, Arpad, to Bancroft-Brillotex International S.A. Fibre classifying machine. 2,931,070, 4-5-60, Cl. 19-65.



- Boer, Arpad, to Bancroft-Brillotex International S.A. Fiber conditioning machine. 2,942,306, 6-28-60, Cl. 19-131.
- Boer, Arpad, to Bancroft-Brillotex International S.A. Machine for cleaning wool and other fibres. 2,952,046, 9-13-60, Cl. 19-67.
- Boer, Dennis M.: See—  
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- Boer, George, and M. E. True, to Jersey Production Research Co. Wall scratching device. 2,927,645, 3-8-60, Cl. 166-173.
- Boersma, Sipko L. Loudspeaker. 2,956,636, 10-18-60, Cl. 181-31.
- Boersma, Theo T.: See—  
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- Boesch, John C., Jr., and J. C. Nobles, to Lilliston Implement Co. Rotary impeller type harvester. 2,953,887, 9-27-60, Cl. 56-23.
- Boesch, John C., Jr., and W. G. Moore, to Lilliston Implement Co. Pneumatic elevator and recleaner. 2,963,153, 12-6-60, Cl. 209-143.
- Boesch Mfg. Co., Inc.: See—  
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- Boesch, William C.: See—  
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- Boesen, George F.: See—  
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- Boetcker, Carl H., and W. A. Shafer, to American Sterilizer Co. Surgical headrest. 2,966,383, 12-27-60, Cl. 311-10.
- Boettcher, Alfred: See—  
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- Boettcher, Alfred, and R. Manteufel, to Deutsche Gold-und Silber-Scheidanstalt vormals Roessler. Process and apparatus for the separation of mixtures in the gaseous state. 2,950,778, 8-30-60, Cl. 183-2.
- Boettger, Harold E.: See—  
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- Boettinger, William K.: See—  
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- Boettler, Gerald L. Portable traffic marker. 2,957,444, 10-25-60, Cl. 116-63.
- Boettner, Fred E., to Rohm & Haas Co. N-alkyl-N-sorbitolureas. 2,922,784, 1-26-60, Cl. 260-211.
- Boettner, Fred E., to Rohm & Haas Co. Process for the preparation of surface-active compounds. 2,930,778, 3-29-60, Cl. 260-47.
- Boevig, Joseph A. Generator of combustion products under pressure. 2,959,921, 11-15-60, Cl. 60-39.68.
- Bolt, Albert F., to Beckman Instruments, Inc. Apparatus for generating frequencies. 2,930,988, 3-29-60, Cl. 331-38.
- Boffa, Gioacchino, D. Costabello, and A. Quilico, to Montecatini-Societa Generale per l'Industria Mineraria e Chimica. Method for preparing 1,8-dicyan-2,6-octadiene. 2,956,075, 10-11-60, Cl. 260-465.8.
- Bofinger, Karl, and B. A. Deisch, to American Can Co. Apparatus for treating articles. 2,942,719, 6-28-60, Cl. 198-33.
- Bogar, Earl M., Jr. Fastening device for use in assembling articles of furniture. 2,939,733, 6-7-60, Cl. 287-126.
- Bogar, Lawrence A. Vehicle parking device. 2,951,599, 9-6-60, Cl. 214-16.1.
- Bogart, David B.: See—  
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- Bogart Mfg. Corp.: See—  
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- Bogater, John P., to General Motors Corp. Lid hinge and counterbalance. 2,922,184, 1-26-60, Cl. 16-128.1.
- Bogater, John P., B. Sandor, and A. Velavicius, to General Motors Corp. Closure latch. 2,959,448, 11-8-60, Cl. 296-106.
- Bogdanski, Donald F.: See—  
Pallotta, Arthur J., Bogdanski, and Thomas. Re. 24,822.
- Bogdonoff, Harold: See—  
Carlson, Chester F., and Bogdonoff. 2,955,052.
- Bogdonoff, Harold, to Haloid Xerox Inc. Stencil master formation. 2,955,531, 10-11-60, Cl. 101-128.2.
- Bogen, Wolfgang, and W. Steinkopf. Magnetic tape recording head. 2,932,697, 4-12-60, Cl. 179-100.2.
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- Bogert, Bruce P., to Bell Telephone Laboratories, Inc. Transmission and reconstruction of artificial speech. 2,928,901, 3-15-60, Cl. 179-15.55.
- Bogert, Bruce P., to Bell Telephone Laboratories, Inc. Time reversal delay distortion corrector. 2,933,702, 4-19-60, Cl. 333-28.
- Bogert, Cornelius J., Sr. Convex form tool grinding and cam generator and method. 2,922,263, 1-26-60, Cl. 51-224.
- Bogert, Virgil V., and B. M. Bloom, to Chas. Pfizer & Co., Inc. Process for producing 6 $\beta$ -fluorosteroids. 2,961,441, 11-22-60, Cl. 260-239.55.
- Bogese, Stephen B., C. R. Lemon, and L. F. Stoner, to Virginia Plastics Co. Protective moulding for electrical wire installation. 2,945,081, 7-12-60, Cl. 174-45.
- Bogges, Francis C. Trailer drive. 2,959,236, 11-8-60, Cl. 180-14.
- Boggio, Louis E. Central delivery hay rake. 2,929,187, 3-22-60, Cl. 56-27.
- Boggio, Marshall R.: See—  
Shea, James J., Holmberg, and Boggio. 2,942,189.
- Boggs, Alben C., to Edwin L. Wiegand Co. Electric heaters. 2,928,138, 3-15-60, Cl. 18-59.
- Boggs, Albert: See—  
Boughtwood, John E., Boggs, and Christie. 2,929,875.
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- Boggs, H. D., Co., Ltd.: See—  
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- Boggs, Lawrence A., and A. J. Wiley, to Sulphite Products Corp. Treatment of spent sulphite liquor. 2,944,922, 7-12-60, Cl. 127-37.
- Boggs, Walter W.: See—  
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- Boggs, William H., to The Porter-Cable Machine Co. Bearing mount. 2,937,058, 5-17-60, Cl. 308-132.
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- Bogner, Peter. Apparatus for making cans. 2,949,087, 8-16-60, Cl. 113-10.
- Bogner, Richard D., to Tyner Corp. Antenna. 2,955,287, 10-4-60, Cl. 343-753.
- Bogue, David L., to General Motors Corp. Propeller control. 2,942,673, 6-28-60, Cl. 170-135.72.
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- Bogusz, John F.: See—  
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- Bogy, Stephen W.: See—  
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- Bohannon, David L., to Pneumafil Corp. Supporting structure. 2,945,639, 7-19-60, Cl. 242-131.
- Bohannon, George W., and W. Scowcroft, to The Pullman Co. Combination coach and sleeping car. 2,953,103, 9-20-60, Cl. 105-315.
- Bohl, Leland S., R. W. Maas, and R. B. Thorness, to United States of America, Navy. Blast-free explosive line cutter. 2,924,147, 2-9-60, Cl. 89-1.
- Bohl, Lester E.: See—  
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- Bohlann, Edward G., and J. C. Griess, Jr., to United States of America, Atomic Energy Commission. Method of inhibiting corrosion in uranyl sulfate solutions. 2,950,167, 8-23-60, Cl. 23-14.5.
- Bohle, Fred, and O. E. Saari, to Illinois Tool Works. Gear shaving. 2,938,436, 5-31-60, Cl. 90-1.6.
- Bohlen, Charles I., to Felix-Van, Inc. Freight handling system. 2,950,690, 8-30-60, Cl. 105-368.
- Bohler, Max, to Werkzeugmaschinenfabrik Oerlikon Bührle & Co. Abt. Elektrodenfabrik, and F. J. Ballard and Co. Ltd. Continuous drying kiln for sheathed welding electrodes. 2,949,286, 8-16-60, Cl. 263-36.
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- Bohlman, Ivan C. and R. A. Telescopic members and lock means therefor. 2,919,941, 1-5-60, Cl. 287-58.
- Bohlman, Raymond A.: See—  
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- Bohm & Co.: See—  
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- Bohm, Hellmuth, to Licentia Patent-Verwaltungs-G.m.b.H. Liquid jet electric current converters. 2,929,014, 3-15-60, Cl. 321-50.
- Böhm, Johann, to Siemens-Schuckertwerke A.G. Parallel connected short circuiters for rectifier devices. 2,929,012, 3-15-60, Cl. 321-11.
- Bohm, Karl, and F. Zeunert, to Mannesmann-Meer Aktiengesellschaft. Compensating motion transmitting arrangement for roll housing means. 2,924,106, 2-9-60, Cl. 74-44.



- Bohm, Otto M., and H. A. J. Barrett, to The Decca Record Co. Ltd. Directional radio antennae. 2,965,899, 12-20-60, Cl. 343-781.
- Bohm, Toivo J.: *See—*  
Holloway, Robert L., Bohm, Zuercher, and Strauss. 2,930,616.
- Bohman, Lloyd H. Cheese cutter. 2,958,129, 11-1-60, Cl. 31-11.
- Bohman, Raymond H., and H. D. Squire, to Midwest Mfg. Corp. Water disposal means for an air conditioner. 2,934,914, 5-3-60, Cl. 62-280.
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- Böhme Fettchemie G.m.b.H.: *See—*  
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Heyden, Rudi, and Plapper. 2,923,595.  
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Kling, Walter, and Lange. 2,950,253.  
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Rapp, Alfred. 2,926,064.  
Wedell, Hans. 2,953,481.
- Bohme, Otto, to VEB (K) Schweisswerk Halle. Build-up welding. 2,937,422, 5-24-60, Cl. 22-57.3.
- Bohn Aluminum & Brass Corp.: *See—*  
Jones, Merton H., and Peters. 2,939,190.  
McCullough, William E. 2,956,846.
- Bohn, Donald I. Positioning locator. 2,934,829, 5-3-60, Cl. 33-189.
- Bohn, Donald I. Magnetic contact device. 2,953,660, 9-20-60, Cl. 200-87.
- Bohn, Jacob L.: *See—*  
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- Bohn, James N.: *See—*  
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- Bohn & Kahler Motoren- und Maschinenfabrik Aktiengesellschaft: *See—*  
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- Bohne, Arnold: *See—*  
Brockmann, Hans, and Bohne. 2,953,495.
- Bohne, Raymond E., Jr.: *See—*  
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- Bohnel, William R.: *See—*  
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- Bohner, Hans O.: *See—*  
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- Bohner, William R.: *See—*  
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- Bohnett, Floyd N. Automobile desk. 2,934,391, 4-26-60, Cl. 312-293.
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- Bohnsack, John A. Convertible berth sofa. 2,928,105, 3-15-60, Cl. 5-43.
- Boiarsky, Hortense M.: *See—*  
Boiarsky, Julius L. 2,920,617.
- Boiarsky, Julius L., deceased, H. M. Boiarsky, executrix of the will and assor. to herself individually. Applicator for ultrasonic transducer. 2,920,617, 1-12-60, Cl. 128-24.
- Boice, Alfred F.: *See—*  
Liao, Tseng W., and Boice. 2,941,143.
- Boicey, James L., to Libbey-Owens-Ford Glass Co. Method of testing electrically conducting films. 2,921,257, 1-12-60, Cl. 324-65.
- Boij, Karl O. A., and B. K. A. Johansson. Spirit stoves. 2,955,589, 10-11-60, Cl. 126-43.
- Bolly, Norman E., and W. F. Mason, to Engelhard Industries, Inc. Collector ring assembly. 2,926,326, 2-23-60, Cl. 339-8.
- Boisjolie, Ralph D., to Sprague Electric Co. Capacitor eyelet process. 2,924,870, 2-16-60, Cl. 29-25.42.
- Boissinot, Georges: *See—*  
Vernhes, Claude, and Boissinot. 2,923,006.
- Boissonnault, Ronaldo, to Sicard Inc. Runway sweeper. 2,945,254, 7-19-60, Cl. 15-328.
- Boisture, Worth W., to Esso Research and Engineering Co. Temperature control for transfer line reactors. 2,953,520, 9-20-60, Cl. 208-159.
- Boitscha, Herbert E., and A. J. Metz, to Bettendorf Bakery Equipment Co. Multiple blade sharpener. 2,966,015, 12-27-60, Cl. 51-246.
- Bojanower, Albert M. Roll winder. 2,954,182, 9-27-60, Cl. 242-129.6.
- Bok, Edward: *See—*  
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- Boland, Calvin E. Paint brush cleaner. 2,949,921, 8-23-60, Cl. 134-140.
- Boland, Mathias P., to Columbia-Southern Chemical Corp. Method of preparing finely divided alumina-silica pigments. 2,949,379, 8-16-60, Cl. 106-288.
- Bolay, Errol, to Albiswerk Zurich, A.G. Combined day and night viewing device. 2,946,255, 7-26-60, Cl. 88-1.
- Bolding, Hubert V., to Standard Packaging Corp. Recessed automatic bottom carton. 2,943,780, 7-5-60, Cl. 229-39.
- Bolding, Hubert V., to Standard Packaging Corp. Carton having simulated band. 2,950,040, 8-23-60, Cl. 229-38.
- Bolding, Hubert V., to Standard Packaging Corp. Collapsible box. 2,957,617, 10-25-60, Cl. 229-36.
- Bolding, Oron T., Sr. Apple tree. 1,974, 10-4-60, Cl. 47-62.
- Boldizzoni, Teobaldo G. Glove pressing and stretching machine. 2,959,331, 11-8-60, Cl. 223-87.
- Boldt, Hellmuth, and W. Voigt, to Rand-Goetze Corp. Resilient vehicle wheel. 2,920,673, 1-12-60, Cl. 152-47.
- Boldt, Juan A. Detachable men's heel. 2,940,185, 6-14-60, Cl. 36-36.
- Boldt, Juan A. Detachable top lift for ladies heel with screw fastener. 2,940,186, 6-14-60, Cl. 36-42.
- Bole, Claude E., and K. A. Schowalter, to United States Steel Corp. Method of separating acenaphthene, diphenylene oxide and fluorene from aromatic oils. 2,953,504, 9-20-60, Cl. 202-71.
- Bolef, Dan I., and P. F. Chester, to Westinghouse Electric Corp. Superregenerative maser. 2,962,585, 11-29-60, Cl. 250-20.
- Bolef, Silas, and J. Peca. Wall panels with electric junction box. 2,954,419, 9-27-60, Cl. 174-48.
- Boles, Emil and O. G. Snatch-proof electric bulb and socket. 2,939,104, 5-31-60, Cl. 839-81.
- Boles, Glen D. Toy holder for nursing bottle. 2,955,382, 10-11-60, Cl. 46-32.
- Boles, Oreste G.: *See—*  
Boles, Emil and O. G. 2,939,104.
- Bolesky, John D., E. G. Them, and R. F. Cox, to Therm-O-Disc, Inc. Thermostatic switch. 2,954,447, 9-27-60, Cl. 200-138.
- Bolgen, Randolph C. S.: *See—*  
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- Bolger, Henry. Toilet tissue holder. 2,920,833, 1-12-60, Cl. 242-55.53.
- Bolger, Henry. Lawn trimming device. 2,939,212, 6-7-60, Cl. 30-240.
- Bolgiano, Ralph, Jr., D. T. Hurley, and W. R. Krafft, to General Electric Co. Signal processing system. 2,946,044, 7-19-60, Cl. 340-174.
- Bolhofer, William A., to Merck & Co., Inc. Alkatrienoic acid compound. 2,928,854, 3-15-60, Cl. 260-413.
- Bolidens Gruvaktiebolag: *See—*  
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- Malmqvist, Johan D., and Thomaesus. 2,927,690.
- Bolie, Victor W., to Collins Radio Co. Means for measuring correlation. 2,938,670, 5-31-60, Cl. 235-181.
- Bolie, Victor W., to Collins Radio Co. Logarithmic function generator. 2,947,934, 8-2-60, Cl. 323-74.
- Boling, Cecil, to Heat-X, Inc. Capacity control of refrigeration system. 2,945,355, 7-19-60, Cl. 62-117.
- Boling, Cecil, to Dunham-Bush, Inc. Pressure stabilizer system. 2,956,419, 10-18-60, Cl. 62-196.
- Boling, Edgar J. Method for gauging material. 2,926,420, 3-1-60, Cl. 29-407.
- Bolinger, Donald B. Weight operated wheel brake. 2,942,698, 6-28-60, Cl. 188-176.
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- Bolinger, George N., to Sta-Rite Ginnie-Lou, Inc. Pony tail holder and method of making the same. 2,945,500, 7-19-60, Cl. 132-47.
- Bolkow-Entwicklungen KG.: *See—*  
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Nauschütz, Peter, Wessel, Kuhlo, Dreyer, and Bolkow. 2,946,285.
- Bolkow, Ludwig: *See—*  
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- Bollack, Raymond: *See—*  
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- Bollack, Raymond, and F. Mathieu, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Process for agglomerating aluminum nitride and resultant product. 2,922,213, 1-26-60, Cl. 25-157.
- Bollack, Raymond, and M. Rey, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Process of making molded aluminum nitride articles. 2,929,126, 3-22-60, Cl. 25-157.
- Bollay, William, to Curtiss-Wright Corp. High mach deceleration device. 2,936,710, 5-17-60, Cl. 102-50.
- Bollay, William, to Curtiss-Wright Corp. Pulse detonation jet propulsion. 2,942,412, 6-28-60, Cl. 60-35.6.
- Bolle, Charles, to Inventa, A.-G., fur Forschung und Patentverwertung Luzern. Process of recovering epsilon-caprolactam from its polymer. 2,952,675, 9-13-60, Cl. 260-239.3.
- Bollenback, Carol H., to Nalco Chemical Co. Stable biologically active chlorinated phenol composition. 2,925,361, 2-16-60, Cl. 167-31.
- Boller Development Corp., The: *See—*  
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- Boller, Edward H.: *See—*  
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- Boller, Ernest R., to The Boller Development Corp. Process for coating ferrous metals. 2,957,782, 10-25-60, Cl. 117-71.
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- Bollert, Gerhard F., W. O. Ramser, and D. Wieland, to Eberle & Kohler. Semi-conductor device. 2,945,992, 7-19-60, Cl. 317-234.
- Bollerup, Johannes, to Scripto, Inc. Ball point pen. 2,930,355, 3-29-60, Cl. 120-42.03.
- Bolles, Julius H., R. O. Hartman, and B. H. Short, to General Motors Corp. Windshield wiper mechanism. 2,964,774, 12-20-60, Cl. 15-250.34.
- Bolles, Julius H., L. A. Rice, and P. L. Schneider, to General Motors Corp. Battery charging circuit. 2,965,765, 12-20-60, Cl. 290-50.
- Bolleter, Albert: See—  
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- Bolling, Glen L., and W. D. Hodge, to B & H Homes, Inc. Automatic nailing device. 2,930,043, 3-29-60, Cl. 1-46.
- Bollman, Geo. W., & Co., Inc.: See—  
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- Bollman, John H., to Bell Telephone Laboratories, Inc. Radar practice apparatus for training personnel. 2,937,456, 5-24-60, Cl. 35-10.4.
- Bollmeier, Emil W., to Minnesota Mining & Mfg. Co. Removable splice protector. 2,930,835, 3-29-60, Cl. 17-76.
- Bollmeier, Emil W., to Minnesota Mining & Mfg. Co. Shear-action wire-connector. 2,965,699, 12-20-60, Cl. 174-84.
- Bollmeier, Emil W., and L. F. Vokaty, to Minnesota Mining & Mfg. Co. Multicompartment package with internal breaker strip. 2,932,385, 4-12-60, Cl. 206-47.
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- Bollo, Francis G.: See—  
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- Bolstad, Archibald N., and E. S. Lo., to Minnesota Mining & Mfg. Co. Copolymers of fluorinated dienes. 2,951,063, 8-30-60, Cl. 260-87.5.
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- Bolstad, Gustav J. Anti-overturning device for vehicles. 2,950,365, 8-23-60, Cl. 200-61.52.
- Bolster, Calvin M., J. P. Kaenan, and P. O. Pfeiffer, to The General Tire & Rubber Co. Emergency tire. 2,950,751, 8-30-60, Cl. 152-330.
- Bolster, Ronald H., to Clark Equipment Co. One-way valve. 2,954,040, 9-27-60, Cl. 137-56.
- Bolston, Leonard, and J. A. Bozymowski, to General Motors Corp. Heat transfer testing apparatus. 2,937,334, 5-17-60, Cl. 324-34.
- Bolt Beranek and Newman Inc.: See—  
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- Bolt, John H., and R. W. Strickland, to Western Electric Co., Inc. Article encapsulating apparatus. 2,957,291, 10-25-60, Cl. 53-379.
- Bolt, Robert O., and J. G. Carroll, to United States of America, Atomic Energy Commission. Constant viscosity radiation resistant lubricant and method of using same. 2,943,056, 6-28-60, Cl. 252-48.2.
- Bolt, William C. Bowling ball handle. 2,957,692, 10-25-60, Cl. 273-64.
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- Bolton, Benjamin A., and R. E. Van Strien, to Standard Oil Co. Baked alkyl resins based on tricarboxylic benzenic acids. 2,939,857, 6-7-60, Cl. 260-45.3.
- Bolton, Benjamin A., and R. E. Van Strien, to Standard Oil Co. Alkyl resin from phthalic acid a tribasic acid. 2,960,485, 11-15-60, Cl. 260-22.
- Bolton, Charles B.: See—  
Parry, Robert D. 2,953,320.
- Bolton, John, and D. E. Hennessey, to Space Decks Ltd. Space decks and components therefor. 2,939,534, 6-7-60, Cl. 189-034.
- Bolton, John T., to Duro Consolidated, Inc. Display shelf construction. 2,940,604, 6-14-60, Cl. 211-147.
- Bolton, John W., & Sons, Inc.: See—  
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Draper, Ralph L., and Witzgall. 2,949,191.  
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Polleys, Richard W. 2,954,174.  
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- Bolton, Paul D. Optimum flight equilibrium system. 2,963,245, 12-6-60, Cl. 244-93.
- Bolton, Robert H., to Sperry Rand Corp. Electromagnetic pick-off apparatus. 2,929,053, 3-15-60, Cl. 340-195.
- Bolton, Robert H., to Sperry Rand Corp. Electromagnetic pick-off device. 2,949,576, 8-16-60, Cl. 323-75.
- Bolton, Wallis D., to International Business Machines Corp. Xerographic printer. 2,944,147, 7-5-60, Cl. 250-49.5.
- Bolton, Wallis D., and D. J. Oldenboom, to International Business Machines Corp. Loose toner pick-up device. 2,937,390, 5-24-60, Cl. 15-3.
- Bolton, Wilbur M.: See—  
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- Bolton, Wilbur M., to Union Carbide Corp. Gas plating method utilizing a grease masking agent. 2,957,779, 10-25-60, Cl. 117-55.
- Bolyai, Oscar, to Hoyt Mfg. Corp. Filtering device for lint and the like. 2,938,597, 5-31-60, Cl. 183-52.
- Bolyard, Charles C. Sequin impregnated paper. 2,949,398, 8-16-60, Cl. 162-181.
- Bolz, Karl: See—  
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- Bomac Laboratories Inc.: See—  
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- Bomberger, Howard B., and M. B. Vordahl, to Crucible Steel Co. of America. Metal pickling solutions and methods. 2,965,521, 12-20-60, Cl. 134-3.
- Bomhard, Franz J., to Firma Fichtel & Sachs A.G. Clutch control. 2,949,174, 8-16-60, Cl. 192-08.
- Bomke, Hans A., G. H. Minnerly, and J. W. Mount, to United States of America, Army. Microwave modulation system. 2,951,214, 8-30-60, Cl. 332-51.
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- Bommer Spring Hinge Co., Inc.: See—  
Engels, Walter. 2,964,782.  
Engels, Walter. 2,964,783.
- Bonaccorsi, John R., and R. J. White, to Radio Corp. of America. Multi-phase servo system. 2,944,202, 7-5-60, Cl. 318-29.
- Bonaldi, Giacomo M. Apparatus for shielding operator. 2,924,899, 2-16-60, Cl. 38-14.
- Bonalumi, Ettore. Apparatus for drafting textile fibers. 2,948,023, 8-9-60, Cl. 19-130.
- Bon Ami Co. The: See—  
Terry, Daniel H. 2,955,047.
- Bonami, Ernest, to Swift & Co. Poultry stuffing method. 2,923,630, 2-2-60, Cl. 99-107.
- Bonami, Ernest, to Swift & Co. Poultry stuffing device. 2,940,117, 6-14-60, Cl. 17-11.
- Bonami, Ernest, to Swift & Co. Method and apparatus for assembling cylindrical objects. 2,948,093, 8-9-60, Cl. 53-26.
- Bonanno, Joseph L., to The Lionel Corp. Coupler for toy railroad vehicles. 2,920,770, 1-12-60, Cl. 213-109.
- Bonanno, Joseph L., to The Lionel Corp. Circuit breaker. 2,925,482, 2-16-60, Cl. 200-95.
- Bonanno, Joseph L., to The Lionel Corp. Toy railroad signals. 2,925,584, 2-16-60, Cl. 340-49.
- Bonanno, Joseph L., to The Lionel Corp. Stepping switch. 2,928,916, 3-15-60, Cl. 200-105.
- Bonanno, Joseph L., to The Lionel Corp. Toy cranes. 2,940,607, 6-14-60, Cl. 212-41.
- Bonanno, Joseph L., to The Lionel Corp. Door construction for toy car roofs and the like. 2,943,582, 7-5-60, Cl. 108-5.4.
- Bonanno, Joseph L., to The Lionel Corp. Trestles. 2,943,793, 7-5-60, Cl. 238-10.
- Bonanno, Joseph L., to The Lionel Corp. Relay. 2,950,369, 8-23-60, Cl. 200-87.
- Bonanno, Joseph L., to The Lionel Corp. Toy. 2,958,979, 11-8-60, Cl. 46-40.
- Bonanno, Joseph L., to The Lionel Corp. Reversing vehicle toy. 2,961,797, 11-29-60, Cl. 46-244.
- Bonanno, Joseph L., to The Lionel Corp. Searchlight extension reel. 2,964,876, 12-20-60, Cl. 46-226.
- Bonanno, Joseph L., to The Lionel Corp. Illuminated electric razor. 2,965,748, 12-20-60, Cl. 240-2.
- Bonanno, Joseph L., to The Lionel Corp. Solid metallic rectifier. 2,966,620, 12-27-60, Cl. 317-234.
- Bonawitz, Warren A., to The American Oil Co. Inhibitor sweetening of olefinic polymer. 2,960,461, 11-15-60, Cl. 208-206.
- Bonck, Harold S.: See—  
Guedry, Harry R. 2,960,049.
- Bond, Dwaine E. Noise making toy. 2,940,212, 6-14-60, Cl. 46-61.
- Bond, George R., Jr., to Houdry Process Corp. Esterification and catalysts therefor. 2,928,853, 3-15-60, Cl. 260-410.9.
- Bond, John J. Prestressed spring seating. 2,958,375, 11-1-60, Cl. 155-179.
- Bond, Robert E.: See—  
Vaughan, Christine U., Bond, and Millette. 2,945,584.
- Bond, Robert W., and E. C. Snyder, to Corn Products Co. Process for agglomerating dextrose. 2,954,306, 9-27-60, Cl. 127-63.
- Bond, William: See—  
Ayers, Clarence R., Jureit, and Bond. 2,922,661.
- Bond, William H. M., to Am-Car Dekernelizer Corp. Nut hulling machine. 2,954,810, 10-4-60, Cl. 146-11.
- Bondeson, Lennart P. B., to Vibro-Plus Corp. Compressed air-driven vibrators. 2,956,788, 10-18-60, Cl. 259-1.



- Bondi, Henry S.: *See*—  
Spitzer, Joseph G., Nasarevich, Lange, and Bondi. 2,944,908.
- Bondley, Ralph J., to General Electric Co. Secondary emission suppression in electron beam tubes. 2,955,229, 10-4-60, Cl. 315-539.
- Bondley, Ralph J., to General Electric Co. Methods of manufacturing phonograph stylus. 2,960,759, 11-22-60, Cl. 29-1695.
- Bondra, John J., G. W. Smith, and A. E. Miller, to Giannini Controls Corp. Accelerometer. 2,922,632, 1-26-60, Cl. 264-1.
- Bonds, Palmer R., Jr.: *See*—  
Mowrey, William L. 2,935,000.
- Bond Street Jewel Case Corp.: *See*—  
Gross, William L. 2,966,386.
- Bondurant, Carlton W., to Pierce-Waller Co. Plural fluid discharge assembly. 2,953,305, 9-20-60, Cl. 239-353.
- Bondurant, James E.: *See*—  
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- Bone, Alan: *See*—  
Graham, Peter E., and Bone. 2,955,148.
- Bones, Theodore R. Recirculating device. 2,928,354, 3-15-60, Cl. 103-262.
- Bonetti, Giovanni A., to The Atlantic Refining Co. Dinitrated aromatic compounds and method for their production. 2,934,571, 4-26-60, Cl. 260-645.
- Bonfiglio, Vincenzo. Process and machine for reproducing lace and perforated articles with plastic material. 2,922,193, 1-26-60, Cl. 18-475.
- Bongartz, Roy C., and J. M. Beigay, to Allegheny Ludlum Steel Corp. Coloring stainless steel. 2,957,812, 10-25-60, Cl. 204-56.
- Bongiovanni, John C., to The Osborn Mfg. Co. Rotary brush with fluid passages. 2,921,328, 1-19-60, Cl. 15-182.
- Bongiovanni, John C., to The Osborn Mfg. Co. Method and mechanism for processing elongated metal articles. 2,937,431, 5-24-60, Cl. 29-81.
- Bonham, Claude F. Brake mechanism. 2,951,563, 9-6-60, Cl. 188-264.
- Bonham, Don L., to Pacific Mercury Television Mfg. Corp. Frequency control means for monophonic tone generating oscillator. 2,933,699, 4-19-60, Cl. 331-179.
- Bonheimer, Howard P.: *See*—  
Clemens, Ogden A., Bonheimer, and Trombly. 2,965,491.
- Boni, Frank, Jr.: *See*—  
Heimberger, Oscar W., and Boni. 2,937,782.
- Boni, Frank, Jr., to The Griscom-Russell Co. Compartmentized heat exchanger construction. 2,936,159, 5-10-60, Cl. 257-236.
- Boni, Frank, Jr., to The Griscom-Russell Co. Removable tube sheet construction for heat exchangers. 2,956,704, 10-18-60, Cl. 220-46.
- Bonia, Walter J., and J. E. Olbrych, to Raytheon Co. Modulators. 2,946,958, 7-26-60, Cl. 328-65.
- Bonic, Isaac. Device for clearing snow from the path of an automobile wheel. 2,958,143, 11-1-60, Cl. 37-53.
- Boniface, Ralph M. Educational construction kit. 2,931,129, 4-5-60, Cl. 46-17.
- Bonine, James M. Powdered insecticide applicator. 2,950,564, 8-30-60, Cl. 43-147.
- Bonistall, John F. Wall fixture. 2,960,803, 11-22-60, Cl. 50-22.
- Bonk, Werner: *See*—  
Machts, Joachim, and Bonk. 2,949,311.
- Bonkowski, Teofil L. Wedge-lock means for slidable side jaw wrenches. 2,948,175, 8-9-60, Cl. 81-154.
- Bonkowski, Teofil L., and J. I. Tabach. Calibrating practice ball. 2,953,922, 9-27-60, Cl. 73-379.
- Bonmartini, Francesco: *See*—  
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- Bonmartini, Francesco G.: *See*—  
Pattenden, Warren C., Bonmartini, and Sproule. 2,940,930.
- Bonmartini, Giovanni, to "EST" Etablissement Sciences Techniques. Rolling device for vehicles of any kind. 2,928,695, 3-15-60, Cl. 305-58.
- Bonn, Theodore H.: *See*—  
Spencer, Richard W., and Bonn. 2,963,670.
- Bonn, Theodore H., to Sperry Rand Corp. Transistor function tables. 2,960,681, 11-15-60, Cl. 340-147.
- Bonn, Theodore H., to Sperry Rand Corp. Gating circuits employing magnetic amplifiers. 2,966,662, 12-27-60, Cl. 340-174.
- Bonn, Theodore H., J. D. Lawrence, Jr., and W. J. Bartik, to Sperry Rand Corp. Drive system for magnetic core memories. 2,931,015, 8-29-60, Cl. 340-174.
- Bonn, Theodore H., and J. D. Lawrence, Jr., to Sperry Rand Corp. Drive systems for magnetic core memories. 2,931,016, 3-29-60, Cl. 340-174.
- Bonn, Theodore H., and J. D. Lawrence, Jr., to Sperry Rand Corp. Drive systems for magnetic core memories. 2,931,017, 3-29-60, Cl. 340-174.
- Bonn, Theodore H., and J. P. Eckert, Jr., to Sperry Rand Corp. Quarter adders. 2,937,286, 5-17-60, Cl. 307-88.
- Bonn, Theodore H., to Sperry Rand Corp. Gating circuits employing magnetic amplifiers. 2,959,684, 11-8-60, Cl. 307-88.
- Bonn, Theodore H., and J. P. Eckert, Jr., to Sperry Rand Corp. Transistor amplifier and pulse shaper. 2,966,597, 12-27-60, Cl. 307-88.5.
- Bonnafé, Oliver W., to The Lapointe Machine Tool Co. Indexing mechanism. 2,950,627, 8-30-60, Cl. 74-396.
- Bonnafoux, Marie E.: *See*—  
Bonnafoux, Paul. Re. 24,775.
- Bonnafoux, Paul, 20% to T. P. Mahoney, 20% to M. B. Bonnafoux, and 26% to Y. Bonnafoux. Pellet mill. Re. 24,775, 2-2-60, Cl. 107-14.
- Bonnafoux, Yvonne: *See*—  
Bonnafoux, Paul. Re. 24,775.
- Bonnaire, Georges, to Société à Responsabilité Limitée dite: Etablissements Gelbey. Electric wiring devices with simplified connecting means. 2,927,185, 3-1-60, Cl. 200-166.
- Bonnard, Armand A., and J. T. Nunes, to Seaside Oil Co. Twin angle valve. 2,965,124, 12-20-60, Cl. 137-267.
- Bonnart, Jacques P. M.: *See*—  
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- Bonnefois, Jean, and R. Huckel, to Compagnie Generale d'Electricite. Arc blowing chimneys for circuit breakers having a large breaking capacity. 2,934,629, 4-26-60, Cl. 200-144.
- Bonnell, Charles R., to Minneapolis-Honeywell Regulator Co. Torque integrating analog computers with inductive device. 2,919,857, 1-5-60, Cl. 235-193.
- Bonnell, William L.: *See*—  
Camp, Marvin E. 2,921,321.
- Bonner, Arthur L., and J. C. Donaldson, to Bell Telephone Laboratories, Inc. Subscriber ringing in carrier telephone systems. 2,939,919, 6-7-60, Cl. 179-86.
- Bonner, Charles A., to Pittsburgh Plate Glass Co. Movable table propelling and retarding mechanism and mounting for same. 2,954,744, 10-4-60, Cl. 104-168.
- Bonner, Charles A., Jr., and W. J. Blaser, to Pittsburgh Plate Glass Co. Movable table run-out and return apparatus. 2,960,041, 11-15-60, Cl. 104-88.
- Bonner, Francis T., and H. B. Linford, to Koehler Mfg. Co. Sealed electrolytic cell with auxiliary electrode. 2,928,889, 3-15-60, Cl. 136-24.
- Bonner, Howard E., to Philco Corp. Apparatus for quick beam extinction in television receivers. 2,940,004, 6-7-60, Cl. 315-20.
- Bonner, Howard E., and R. H. Overdeer, to Philco Corp. Television receivers. 2,921,131, 1-12-60, Cl. 178-7.3.
- Bonner, Tom W.: *See*—  
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- Bonner, Tom W., and R. L. Caldwell, to Socony Mobil Oil Co., Inc. Neutron production by alpha disintegration of boron 10. 2,948,811, 8-9-60, Cl. 250-83.3.
- Bonner, Tom W., and R. L. Caldwell, to Socony Mobil Oil Co., Inc. Neutron production through alpha disintegration of carbon 13. 2,963,582, 12-6-60, Cl. 250-83.3.
- Bonnett, Horace W., and F. W. Menold, to United Aircraft Corp. Means for chordwise and spanwise balancing of rotor blades. 2,955,662, 10-11-60, Cl. 170-159.
- Bonney, Robert B.: *See*—  
Vogel, Otto F., Bonney, and Preston. 2,945,989.
- Bonnie Dog Food Co.: *See*—  
Gaines, John R., and Hehr. 2,956,612.
- Bonnin, Fred D. Suspension for driven tandem axle. 2,919,757, 1-5-60, Cl. 180-22.
- Bonny, Paul: *See*—  
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- Bonomi, Felice, 1/2 to E. Buehler. Process for treating vegetable products. 2,923,629, 2-2-60, Cl. 99-103.
- Bonomo, Melvin E., J. O. Bradford, and E. R. Meiners. Vertical mulcher. 2,936,838, 5-17-60, Cl. 172-28.
- Bonslett, Edward W. Skid member and pallet construction utilizing same. 2,941,770, 6-21-60, Cl. 248-120.
- Bontecue, Frederic C., to Plastic Precision Parts Co. Self-leveling foot structure. 2,944,367, 7-12-60, Cl. 45-139.
- Bonvicino, Guido E., and R. A. Hardy, Jr., to American Cyanamid Co. 1-substituted-4-[3-(9-xanthylidene)propyl] piperazines and 1-substituted-4-[3-(10-thioxanthylidene)propyl] piperazines. 2,940,969, 6-14-60, Cl. 260-240.
- Bonzagni, Francis A., to Monsanto Chemical Co. Wet strength paper. 2,949,396, 8-16-60, Cl. 162-167.
- Boochs, Hans, to Blaupunkt-Werke G.m.b.H. Control apparatus. 2,942,064, 6-21-60, Cl. 178-7.5.
- Boode, Carl N.: *See*—  
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- Boode, Carl N., to Bourns, Inc. Testing devices. 2,946,951, 7-26-60, Cl. 324-62.
- Boode, Carl N., A. R. Lombardo, and R. M. Whitehorn, to Bourns, Inc. Fluid pressure transducer. 2,956,252, 10-11-60, Cl. 338-42.
- Boody, Donald T.: *See*—  
Klamm, Carl E., and Boody. 2,938,550.
- Booher, Charles F., II, to The Birtcher Corp. Heat dissipating device for electrical components. 2,958,515, 11-1-60, Cl. 257-263.
- Book, Austin R. Memory aid. 2,945,312, 7-19-60, Cl. 40-68.
- Booker, Clyde A., Jr.: *See*—  
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- Booker, Clyde A., Jr., to Westinghouse Electric Corp. Time delay circuits. 2,924,724, 2-9-60, Cl. 307-88.5.
- Booker, Robert J.: *See*—  
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- Bookout, Charles C., and P. E. Taylor, to Ford Motor Co. Constant speed accessory drive. 2,963,866, 12-13-60, Cl. 60-53.



- Boomer, Robert A., and P. E. Alexander, to International Telephone and Telegraph Corp. Pilot light assembly. 2,932,820, 4-12-60, Cl. 340—380.
- Boon, Edmund F., L. Vahl, and W. G. Kingma, to Werkspoor N.V. Process for the hydrolization of starch and other polysaccharides. 2,946,706, 7-26-60, Cl. 127—38.
- Boon, Ernest E., to Rolls-Royce Ltd. Method of forming a blade. 2,925,649, 2-23-60, Cl. 29—156.8.
- Boon, Johannes W. P., to Stamicarbon N.V. Preparing a lactam containing lactam oligomers. 2,960,499, 11-15-60, Cl. 260—239.3.
- Boone, Henry S. Vehicle suspension system. 2,963,288, 12-6-60, Cl. 267—15.
- Boone, Melvin H.: *See—*  
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- Boone, Wallace D., and A. F. Briede, to OPW Corp. Emergency shut-off valve for remote pump pedestal units. 2,965,116, 12-20-60, Cl. 137—39.
- Boone, Walter S., to Waldensian Hosiery Mills, Inc. Hosiery packaging apparatus and method. 2,925,693, 2-23-60, Cl. 53—21.
- Boos, Edward M. Posture pillow. 2,940,088, 6-14-60, Cl. 5—338.
- Boose, Emery F., to General Electric Co. Electrical error compensation arrangements. 2,959,865, 11-15-60, Cl. 33—224.
- Booth, Adrian H.: *See—*  
Maddock, Alfred G., and Booth. 2,952,511.
- Booth, Albert B., to The Glidden Co. Pyrolysis of limonene oxide. 2,945,068, 7-12-60, Cl. 260—587.
- Booth, Albert N.: *See—*  
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- Booth, Alfred E., to Armstrong Cork Co. Method of making a foamed and expanded product from volcanic glass. 2,946,693, 7-26-60, Cl. 106—40.
- Booth, Alfred E., to Armstrong Cork Co. Method of making a cellular glass product. 2,955,049, 10-4-60, Cl. 106—40.
- Booth, Alfred E., and R. L. Hess, to Armstrong Cork Co. Method of making porous products from volcanic glass and alumina. 2,956,891, 10-18-60, Cl. 106—610.
- Booth, Douglas, and R. S. Wood, to The Plessey Co. Ltd. Gear pump. 2,932,254, 4-12-60, Cl. 103—126.
- Booth, Franklin W. Liquid aerosol indicating apparatus. 2,926,521, 3-1-60, Cl. 73—29.
- Booth, Franklin W. Liquid aerosol indicator. 2,939,311, 6-7-60, Cl. 73—29.
- Booth, Gerald: *See—*  
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Atkinson, John R., Booth, Johnson, and Mills. 2,944,871.
- Booth, Harry T.: *See—*  
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- Booth, Jack J., and W. C. Branch; said Branch assor. to said Booth. Dispensing valve unit. 2,921,605, 1-19-60, Cl. 137—636.
- Booth, Jack J., and W. C. Branch. Float-actuated magnetic switch. 2,927,175, 3-1-60, Cl. 200—84.
- Booth, James H., to Thompson Ramo Wooldridge Inc. Pre-loaded ball joint. 2,942,901, 6-28-60, Cl. 287—90.
- Booth, James H., and E. J. Herbenar, to Thompson Ramo Wooldridge Inc. Hydrodynamic brake system. 2,963,118, 12-6-60, Cl. 188—90.
- Booth, Philip B., to Dorr-Oliver Inc. Gas scrubber. 2,940,540, 6-14-60, Cl. 183—25.
- Booth, Roland G. Process for the preservation of whale meat. 2,934,440, 4-26-60, Cl. 99—158.
- Booth, Sydney E., and E. H. Ward, to The British Petroleum Co. Ltd. Measurement of liquid levels in wells. 2,927,301, 3-1-60, Cl. 340—18.
- Boothroyd, Wilson P., and E. M. Creamer, Jr., to Philco Corp. Color camera output sampling system. 2,922,837, 1-26-60, Cl. 178—5.4.
- Boothroyd, Wilson P., and R. A. Bloomsburgh, to Philco Corp. Cathode ray tube display system. 2,935,635, 5-3-60, Cl. 313—76.
- Boots Aircraft Nut Corp.: *See—*  
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- Boots Pure Drug Co. Ltd.: *See—*  
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- Stevenson, Herbert A., Clark, Marshall, Greenwood, Cranham, and Higgons. 2,938,928.
- Stevenson, Herbert A., Marshall, and Hams. 2,937,970.
- Stevenson, Herbert A., Marshall, and Hams. 2,938,042.
- Boots, William C., to Foster Metal Products Inc. Adjustable connecting device for wrist watch bracelets. 2,953,833, 9-27-60, Cl. 24—265.
- Bopp, Hans, to Hartmann & Braun Aktiengesellschaft. Frequency relay. 2,957,062, 10-18-60, Cl. 200—91.
- Bopp, Louis A., to General Cable Corp. Neoprene compound, self-adhering to lead. 2,948,772, 8-9-60, Cl. 174—107.
- Boppel, Henry L.: *See—*  
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- Böpple, Albert: *See—*  
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- Borah, John E. Utility holder. 2,932,119, 4-12-60, Cl. 45—28.
- Borah, John E. Moistening device. 2,932,277, 4-12-60, Cl. 118—270.
- Borah, John E. Article retainer. 2,963,256, 12-6-60, Cl. 248—346.
- Borah, John E. Utility kit. 2,965,109, 12-20-60, Cl. 132—80.
- Borak, Sam. Tube stripping machine. 2,921,717, 1-19-60, Cl. 222—101.
- Borba, Lawrence J.: *See—*  
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- Borcher, Charles A., and P. L. Godchaux. Demolition device. 2,965,032, 12-20-60, Cl. 102—22.
- Borchardt, Bert. Composition and process for preventing or restoring lost circulation. 2,944,018, 7-5-60, Cl. 252—8.5.
- Borchers, Charles H., to Lithographic Technical Foundation. Spray dampening system for lithographic offset printing presses. 2,949,850, 8-23-60, Cl. 101—147.
- Borchers, Hans-Friedrich, and J. Marterstock, to Patent-Treibhand-Gesellschaft für Elektrische Glühlampen m.b.H. Apparatus for producing flash illumination. 2,922,079, 1-19-60, Cl. 315—234.
- Borchert, Robert C.: *See—*  
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- Borde, Jean, and P. Picard, to N.V. "C O Q." Ring-shaped electric contact devices. 2,923,800, 2-26-60, Cl. 200—163.
- Borden Co., The: *See—*  
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- Gerg William P. 2,947,750.
- Halpern, Benjamin D., and Dean. 2,958,594.
- Halpern, Benjamin D., and Karo. 2,947,732.
- Halpern, Benjamin D., and Karo. 2,947,734.
- Halpern, Benjamin D., and Karo. 2,951,830.
- Krueger, Bruno O., Butler, and Hine. 2,946,403.
- Mackey, Eric, Weinheimer, and Landon. 2,951,779.
- Salzberg, Harold K., and Barber. 2,953,535.
- Salzberg, Harold K., and King. 2,933,406.
- Wechsler, Harry, and Levy. 2,965,623.
- Wechsler, Harry, Levy, and Herbst, Jr. 2,966,480.
- Williams, Alexander W., Beckman, and Mook. 2,966,409.
- Winkler, Harry W. 2,963,389.
- Borden, Darrel C., and E. Wolf, to Goodyear Aircraft Corp. Composite aircraft. 2,921,756, 1-19-60, Cl. 244—2.
- Borden, David M., and S. B. Williams, to Chrysler Corp. Centrifugal compressor for a gas turbine engine. 2,962,206, 11-29-60, Cl. 230—119.
- Borden, Joseph H., to Toledo Scale Corp. Amplifier for safety ray. 2,947,873, 8-2-60, Cl. 250—206.
- Borden, Philip H.: *See—*  
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- Borden, Wesley E. Remote control apparatus for motion picture camera. 2,950,645, 8-30-60, Cl. 88—16.
- Bordenca, Carl: *See—*  
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- Borders, Charles R.: *See—*  
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- Havens, Byron L., and Borders. 2,938,668.
- Borders, Charles R., and J. W. Toner, to International Business Machines Corp. Comparison circuits. 2,946,983, 7-26-60, Cl. 340—149.
- Borel, Jean-Pierre, and L. A. Petermann, to Gulton Industries, Inc. Ceramic ferroelectric bodies. 2,956,327, 10-18-60, Cl. 25—157.
- Borenstein, Arnold L. Light sensitive motor control. 2,962,647, 11-29-60, Cl. 313—480.
- Borer, William J.: *See—*  
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- Boretti, Napoleon P., to General Motors Corp. Pressure welding apparatus. 2,964,611, 12-13-60, Cl. 219—87.
- Boretti, Napoleon P., and L. T. Kendall, to General Motors Corp. Method of producing seat frames. 2,945,513, 7-19-60, Cl. 140—71.
- Borg, Edgar H. Golf-driving practice devices. 2,961,241, 11-22-60, Cl. 273—198.
- Borg, George W., Corp.: *See—*  
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- Schaab, Rudolph S., and Brandt. 2,934,809.
- Borg-Warner Corp.: *See—*  
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- Blum, Robert D. 2,928,260.
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- Burgess, Roy T. 2,956,843.
- Carnagua, Harold E. 2,933,944.
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- Commel, Dewey E. 2,962,812.
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- Dahl, Einar S., and McCreary. 2,955,583.
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- Dlugos, Gerald S. 2,931,302.
- Dlugos, Gerald S. 2,931,303.
- Dodge, Adiel Y. 2,930,461.
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- Borunsky, Jules, to Polymer Corp. Ltd.  
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- Borzzone, Rocco R. Open front belt construction. 2,923,010, 2-2-60, Cl. 2—322.
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- Bosch, Carl, to Sperry Rand Corp., Ford Instrument Co. Division. Photoelectric speedometer, altimeter and course indicator. 2,944,154, 7-5-60, Cl. 250—209.
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- Boscia, Archie F., to General Dynamics Corp. Phase detectors. 2,946,953, 7-26-60, Cl. 324—87.
- Bosco, Alfredo, to John D'Amato. Educational rotary chart. 2,932,909, 4-19-60, Cl. 35—74.
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- Bossen, David A., to Industrial Nucleonics Corp. Control for extrusion apparatus. 2,922,188, 1-26-60, Cl. 18—8.
- Bossen, David A., and G. W. Barnett, to Industrial Nucleonics Corp. Control for drafting apparatus. 2,942,303, 6-28-60, Cl. 19—70.
- Bossert, Friedrich, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of thiochromones. 2,923,716, 2-2-60, Cl. 260—327.
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- Boswau, Hans P., to Leich Electric Co. Crossbar relay private branch exchange telephone system. 2,921,936, 1-19-60, Cl. 179—18.
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- Boswell, Thomas L., and C. M. Davis, to Elgin National Watch Co. Ricinoleyl lubricants. 2,922,764, 1-26-60, Cl. 252—48.2.
- Bosworth, Cyrus M., Jr., to Carrier Corp. Air conditioner. 2,952,993, 9-20-60, Cl. 62—271.
- Bosworth, Delbert B., and C. E. Jackson, to Chicago Bridge & Iron Co. Reel for wire coils. 2,957,643, 10-25-60, Cl. 242—128.
- Bosworth, Melvin B., and C. C. Brayton, to Lockheed Aircraft Corp. Heat resistant shatter-proof sign panel. 2,931,117, 4-5-60, Cl. 40—135.
- Bosworth, Melvin B., W. E. Gray, and D. S. Wilkinson, to Lockheed Aircraft Corp. Cable clamp support. 2,938,692, 5-31-60, Cl. 248—68.
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- Bothwell, Theodore P., to Radio Corp. of America. Transistor gate circuit. 2,956,175, 10-11-60, Cl. 307—88.5.
- Bothwell, Thomas A., and R. A. Krasovec, to Glenn Electric Heater Corp. Electric band type heater. 2,959,661, 11-8-60, Cl. 219—19.
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- Botkin, Lawrence A., to Buckeye Iron & Brass Works. Seal arrangement for nozzle and fitting. 2,957,504, 10-25-60, Cl. 141—349.
- Botstiber, Dietrich W. Magnetic chip detector. 2,936,890, 5-17-60, Cl. 210—86.
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- Bott, Raymond C., and E. D. Pulone. Fire-screen mount. 2,963,250, 12-6-60, Cl. 248—201.
- Bott, William. Pipe holder for end of pipe. 2,951,672, 9-6-60, Cl. 248—317.
- Bott, Winston F. Escape mechanism. 2,948,348, 8-9-60, Cl. 182—11.
- Botten, John B. Portable rack. 2,952,366, 9-13-60, Cl. 211—93.
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- Böttger, Josef, to Ustav pro vyzkum motorovych vozidel. Internal-combustion engine with localised compression ignition. 2,959,160, 11-8-60, Cl. 123—32.
- Böttger, Josef, to Ustav pro vyzkum motorovych vozidel. Internal-combustion compression-ignition engine with localised self-ignition of the fuel. 2,959,161, 11-8-60, Cl. 123—32.
- Botting, Richard E., and F. Martin, to Fairley Aviation Ltd. Chassis assembly and wiring systems for electrical apparatus. 2,933,654, 4-19-60, Cl. 317—99.
- Bottje, John D., and R. B. Shulters, to Gardner-Denver Co. Load balancing device. 2,939,431, 6-7-60, Cl. 121—46.
- Bottoms, Robert R., to Chemetron Corp. Method of producing 43-para-menthene. 2,922,829, 1-26-60, Cl. 260—675.5.
- Bottoms, Robert R., to Chemetron Corp. Synthesis of p-menthene-3. 2,922,830, 1-26-60, Cl. 260—675.5.



- Bottoms, Robert R., to Chemetron Corp. Method of producing p-menthene-3 from carvomenthene. 2,958,713, 11-1-60, Cl. 260-666.
- Bottoms, Robert R., to Chemetron Corp. Production of racemic naphthylethyl amines. 2,963,512, 12-6-60, Cl. 260-570.8.
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- Bouchard, Joseph E. Display device. 2,923,079, 2-2-60, Cl. 40-32.
- Bouchard, Marie V.: See—
- Bouchard, Ovide. Re. 24,844.
- Bouchard, Ovide, deceased, by M. V. Bouchard, legal representative, to D. N. Crowley and A. A. Gauthier. Combustion gas recuperator and smell and smoke consumer. Re. 24,844, 7-12-60, Cl. 110-8.
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- Boucher, Raymond M. G., to Gulton Industries, Inc. Method of purifying a gaseous current containing an aerosol. 2,935,375, 5-3-60, Cl. 23-2.
- Boucherot, Edmond, to Societe de Prospection Electrique. Procédes Schlumberger. Bore hole telemetering apparatus. 2,937,333, 5-17-60, Cl. 324-1.
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- Boudreaux, George S., and R. A. Bobo, to Phillips Petroleum Co. Bottom hole drilling fluid control valve. 2,945,678, 7-19-60, Cl. 255-61.
- Bouet, Bernard. Hypodermic set. 2,935,067, 5-3-60, Cl. 128-216.
- Bouet, Bernard M. E., to R. K. Price Associates, Inc. Ampules. 2,950,717, 8-30-60, Cl. 128-218.
- Bouffilh, Raymond, and C. Savigny, to Societe Anonyme dite: Ateliers Bariquand & Marre. Optical line-justification device for photo-composition. 2,939,370, 6-7-60, Cl. 95-4.5.
- Bouffort, Victor: See—
- Baudelot, Pierre, Bouffort, and Lala. 2,936,196.
- Bouffort, Victor A. Aircraft provided with elevated stabilizing members. 2,941,754, 6-21-60, Cl. 244-83.
- Boughton, Arthur R., and D. K. Worn, to The International Nickel Co., Inc. Method for the production of a non-frilled metal strip from metal powder. 2,922,223, 1-26-60, Cl. 29-420.5.
- Boughton, Olin W., C. J. De Grave, Jr., and K. D. Maier, to Bausch & Lomb Optical Co. Slide projector tray. 2,931,116, 4-5-60, Cl. 40-79.
- Boughton, Olin W., and K. D. Maier, to Bausch & Lomb Optical Co. Stereomicroscope casing. 2,942,519, 6-28-60, Cl. 88-39.
- Boughton, Olin W., C. J. De Grave, Jr., and K. D. Maier, to Bausch & Lomb Optical Co. Slide projector. 2,949,814, 8-23-60, Cl. 88-28.
- Boughtwood, John E., A. Boggs, and T. A. Christie, Jr., to The Western Union Telegraph Co. Transmission test apparatus. 2,929,875, 3-22-60, Cl. 178-69.
- Bougie, Romeo: See—
- Baker, Clyde F., Bougie, and Anderson. 2,962,876.
- Bouille, Joseph R.: See—
- Russell, John A., and Bouille. 2,939,692.
- Boulanger, Etienne. Variable speed transmission device. 2,952,461, 9-13-60, Cl. 273-145.
- Boulanger, Anthony D. Travel game with non-losable parts. 2,928,295, 3-15-60, Cl. 74-751.
- Boule, George P., and K. E. Swanson, to R. R. Donnelley & Sons Co. Latch and thrust mechanism for printing press ink carriages. 2,965,023, 12-20-60, Cl. 101-352.
- Boulet, Francis, and J. Toulemonde, to Compagnie Generale de Telegraphie Sans Fil. Storage tube target. 2,943,231, 6-28-60, Cl. 315-12.
- Boulet, Georges, to Societe a Responsabilite Limitee Recherches Etudes Production R.E.P. Shock-absorber device for pneumatic suspension of vehicles. 2,919,719, 1-5-60, Cl. 138-43.
- Bouligny, R. H., Inc.: See—
- Crawford, Louis O., Walsh, and Snyder. 2,958,479.
- Wilson, Robert W. 2,950,770.
- Wilson, Robert W. 2,959,141.
- Wilson, Robert W., and Rowe. 2,944,495.
- Bounds, Ardrey M., and R. L. Hoff, to Superior Tube Co. Tungsten-niobium-nickel cathodes. 2,938,785, 5-31-60, Cl. 75-170.
- Bounds, Wallace A. Combination pillow and radio. 2,958,769, 11-1-60, Cl. 250-14.
- Bounds, Wallace A. Pillows. 2,962,731, 12-6-60, Cl. 5-337.
- Bour, Robert C. Monoglyceride aqueous emulsion and process of preparing same. 2,932,574, 4-12-60, Cl. 99-118.
- Bourassa, Robert H., and M. S. Korol, to Bates Mfg. Co. Bobbin tip bunch builder. 2,921,752, 1-19-60, Cl. 242-27.1.
- Bourbeau, Francis J., J. Greenhalgh, and C. F. Valle, Jr., to Polaroid Corp. Methods for treating polymeric plastic surfaces. 2,944,294, 7-12-60, Cl. 18-56.
- Bourbon, Pierre J. A., See—
- Mignouac, Georges, and Bourbon. 2,945,862.
- Bourdon, Pierre M., to Compagnie Generale des Etablissements Michelin (Robert Puiseux & Cie). Automatic guiding of road vehicles. 2,925,875, 2-23-60, Cl. 180-79.2.
- Bourdon, Pierre M., to Compagnie Generale des Etablissements Michelin (Robert Puiseux & Cie). Safety device for automatic guiding of road vehicles. 2,952,842, 9-13-60, Cl. 340-282.
- Bourgeois, John B. Scaffolding supports. 2,926,880, 3-1-60, Cl. 248-327.
- Bourgeois, Yves, to Societe des Produits Chimiques de Bezons. Preparation of cleavage products from ricinoleic stock. 2,935,530, 5-3-60, Cl. 260-537.
- Bourget, Joseph G. A., to Avco Mfg. Corp. Magnetic energy transmitter for a remote control system for a television receiver. 2,948,888, 8-9-60, Cl. 340-345.
- Bourget, Joseph G. A., and C. C. Pfäzter, to Avco Mfg. Corp. Remote control system for a television receiver. 2,930,953, 3-29-60, Cl. 318-16.
- Bourguet, Jean M., and J. P. Harrison. Method and apparatus for maintaining catalytic material in high activity. 2,951,030, 8-30-60, Cl. 208-65.
- Bourguignon, Emil J. Parachute and safety seat belt buckle. 2,941,272, 6-21-60, Cl. 24-230.
- Bouricuis, Gerlacus M. B., and G. K. Rusch, to United States of America, Atomic Energy Commission. Radiation measuring devices. 2,929,932, 3-22-60, Cl. 250-83.1.
- Bourke, Boris N., and F. Solomon, to Yardney International Corp. System for determining the state of charge of alkaline batteries. 2,942,052, 6-21-60, Cl. 136-6.
- Bourke, John D., and H. L. Conrad, to Robbins & Myers, Inc. Progressing cavity pump construction. 2,924,180, 2-9-60, Cl. 103-117.
- Bourland, Clifford F. Spring arch support for shoes. 2,933,834, 4-26-60, Cl. 36-8.5.
- Bourne, Henry A., P. L. Gant, and J. J. Reynolds, to Continental Oil Co. Method and apparatus for locating producing zones in wells. 2,945,952, 7-19-60, Cl. 250-43.5.
- Bourne, John A. Pneumatically-operated, slidable inner jaw wrench. 2,943,524, 7-5-60, Cl. 81-129.
- Bourne, John A. Hydraulic hand tool having opposed work-engaging jaws. 2,948,174, 8-9-60, Cl. 81-129.
- Bourns, Inc.: See—
- Boode, Carl N. 2,946,951.
- Boode, Carl N., Lombardo, and Whitehorn. 2,956,252.
- Bourns, Marlan E., Boode, and O'Brian. 2,932,808.
- Bourns, Marlan E., Hardison, and O'Brian. 2,935,715.
- Bourns, Marlan E., and Harrison. 2,924,092.
- Bourns, Marlan E., Harrison, Gaa, and Barrett. 2,953,763.
- Caddock, Richard E. 2,946,975.
- Bourns, Marlan E.: See—
- Goeppinger, Edward J., Bourns, and Harrison. 2,956,251.
- Bourns, Marlan E. Variable resistor construction. 2,922,976, 1-26-60, Cl. 338-176.
- Bourns, Marlan E. Variable resistor. 2,927,294, 3-1-60, Cl. 338-180.
- Bourns, Marlan E. Pressure responsive electrical instruments. 2,932,807, 4-12-60, Cl. 338-40.
- Bourns, Marlan E. Pressure responsive electrical instruments. 2,934,729, 4-26-60, Cl. 338-40.
- Bourns, Marlan E. Variable resistor construction. 2,935,716, 5-3-60, Cl. 338-180.
- Bourns, Marlan E. Electrical resistor. 2,945,198, 7-12-60, Cl. 338-150.
- Bourns, Marlan E. Electrical resistor. 2,952,825, 9-13-60, Cl. 338-150.
- Bourns, Marlan E., and M. E. Harrison; said Harrison assor. to Bourns, Inc. Centrifugal calibration device. 2,924,092, 2-9-60, Cl. 73-1.
- Bourns, Marlan E., W. T. Hardison, and E. D. O'Brian; said Hardison and said O'Brian assors. to Bourns, Inc. Adjustable electrical resistors. 2,925,715, 5-3-60, Cl. 338-180.
- Bourns, Marlan E., C. N. Boode, and E. D. O'Brian; said Boode and said O'Brian assors. to Bourns, Inc. Adjustable electrical instruments. 2,932,808, 4-12-60, Cl. 338-180.
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- Bourquin, Jean-Pierre: See—
- Renz, Jany, and Bourquin. 2,946,799.
- Renz, Jany, and Bourquin. 2,956,059.
- Bousman, Samuel I.: See—
- Kivari, Arthur M., and Bousman. 2,935,201.
- Bousquet, Euclid W., and H. E. Hoffman, to E. I. du Pont de Nemours and Co. Feed efficiency promoting composition. 2,927,027, 3-1-60, Cl. 99-2.
- Boussu, Roger G. X., L. P. F. A. Neuville, and L. H. N. Saint-Frison, to Compagnie General des Etablissements Michelin (Robert Puiseux & Cie). Pneumatic tire casing. 2,958,359, 11-1-60, Cl. 152-354.
- Boutelle, Allen O., to Thomas Industries Inc. Spring fastener and supplemental support. 2,960,361, 11-15-60, Cl. 292-17.
- Boutillette, Raymond P. Skinning devices. 2,946,084, 7-26-60, Cl. 17-7.
- Bouton, George M., E. L. Fisher, and P. R. White, to Bell Telephone Laboratories, Inc. Method of joining wires. 2,953,673, 9-20-60, Cl. 219-85.



- Bouton, George W.: See—  
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- Bouton, Gertrude V.: See—  
Vischer, Alfred, Jr. 2,963,041.
- Boutsicaris, Stephen P.: See—  
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- Boutwell, Daniel W.: See—  
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- Boutwell, Ernest D. Vehicle parking apparatus. 2,931,448, 4-5-60, Cl. 180-1.
- Boutwell, Ernest D. Screw and nut assembly. 2,959,978, 11-15-60, Cl. 74-459.
- Bouvet, Rene, to American Viscose Corp. Method and apparatus for twisting strand material. 2,951,330, 9-6-60, Cl. 57-34.
- Bouvier, George A., to North American Aviation, Inc. Accelerometer and integrator. 2,933,299, 4-19-60, Cl. 264-1.
- Bouvy, Christiaan H.: See—  
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- Bouvy, Christiaan H., to J. Dolza. V-six engines. 2,957,455, 10-25-60, Cl. 121-120.
- Bouwers, Albert, to N.V. Optische Industrie "De Oude Delft." Panoramic camera. 2,923,220, 2-2-60, Cl. 95-16.
- Bouwkamp, Gerald R., to Standard Screw Co. Tappet face. 2,933,949, 4-26-60, Cl. 74-569.
- Bouwman, Jelte: See—  
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- Bovenkerk, Harold P., to General Electric Co. Reaction vessel. 2,941,252, 6-21-60, Cl. 18-34.
- Bowan, Walter J., to Mueller Co. Insulated pipe joint. 2,950,928, 8-30-60, Cl. 285-52.
- Bowater, Alfred T.: See—  
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- Bowater Research and Development Co. Ltd., The: See—  
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- Bowden, Benjamin G.: See—  
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- Bowden, Elmer H., to Metal Box and Cabinet Corp. Tool chest. 2,952,497, 9-13-60, Cl. 312-221.
- Bowden, James J. Durable bonded mass, particularly briquettes, for use as metallurgical fluxes. 2,927,852, 3-8-60, Cl. 75-53.
- Bowden, John N., and P. R. Chapman, to The Pure Oil Co. Antiwear and antiwear lubricating oil composition. 2,939,843, 6-7-60, Cl. 252-37.2.
- Bowden, William H., to Allianceware, Inc. Bathtub. 2,919,449, 1-5-60, Cl. 4-173.
- Bowditch, Frederick W., and L. L. Withrow, to General Motors Corp. Cylinder and piston assembly. 2,919,688, 1-5-60, Cl. 123-193.
- Bowditch, Hoel L.: See—  
Olsen, Everett O., and Bowditch. 2,956,212.
- Bowditch, Hoel L., to The Foxboro Co. Flow measuring apparatus. 2,930,231, 3-29-60, Cl. 73-206.
- Bowditch, Hoel L., to The Foxboro Co. Circular jet hydraulic operator. 2,930,389, 3-29-60, Cl. 137-83.
- Bowditch, Hoel L., to The Foxboro Co. Electrical to mechanical magnetic transducer. 2,938,151, 5-24-60, Cl. 317-123.
- Bowditch, Hoel L., to The Foxboro Co. Positioning motor. 2,963,633, 12-6-60, Cl. 318-37.
- Bowen, Clyde L., to Bemis Bro. Bag Co. Bag. 2,957,618, 10-25-60, Cl. 229-54.
- Bowen Co. of Texas, Inc.: See—  
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- Bowen Corp., The: See—  
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- Bowen, Earl M., to The Ingersoll Milling Machine Co. Boring machine. 2,926,570, 3-1-60, Cl. 90-18.
- Bowen, Earl M., to The Ingersoll Milling Machine Co. Machine tool. 2,942,527, 6-28-60, Cl. 90-20.
- Bowen, Earl M., to The Ingersoll Milling Machine Co. Work inspecting mechanism. 2,942,729, 6-28-60, Cl. 209-88.
- Bowen, Hardy J. Industrial building model. 2,936,530, 5-17-60, Cl. 35-16.
- Bowen, Howard: See—  
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- Bowen Itco, Inc.: See—  
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- Bowen, John H.: See—  
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- Bowen, John T., E. W. Olson, P. K. Beemer, and R. P. Shea, to Preco Inc. Control system for a vehicle-mounted tool. 2,961,783, 11-29-60, Cl. 37-156.
- Bowen, Max E. Pressurized douche applicator. 2,945,494, 7-19-60, Cl. 128-248.
- Bowen, Richard L. B., Jr. Constant web tension unwinding mechanism. 2,937,819, 5-24-60, Cl. 242-75.5.
- Bowen, S. R., Co.: See—  
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- Bower, Edward R., to Jersey Production Research Co. Down-hole pump. 2,931,309, 4-5-60, Cl. 103-148.
- Bower, Henry, Chemical Mfg. Co.: See—  
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- Bower, John L., to North American Aviation, Inc. Electronic direction circuit. 2,926,335, 2-23-60, Cl. 340-170.
- Bower, John L., to North American Aviation, Inc. Digital-analog servo circuit. 2,947,929, 8-2-60, Cl. 318-28.
- Bower, John L., and K. H. Beers, to North American Aviation, Inc. Deformation of resilient material with electronic yield point determination. 2,945,527, 7-19-60, Cl. 153-16.
- Bower, John L., and T. E. Curtis, to North American Aviation, Inc. Machine tool cutting time indicator. 2,946,646, 7-26-60, Cl. 346-33.
- Bower, Paul M. R., to Barnards Ltd. of Norfolk Iron Works. Machines for manufacturing wire netting and the like. 2,933,109, 4-19-60, Cl. 140-6.
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- Bower, Warren R.: See—  
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- Bower, Warren R., A. J. Koch, and J. T. Woods, to Whirlpool Corp. Home appliance. 2,958,912, 11-8-60, Cl. 20-69.
- Bowerman, Edwin R., Jr., to Sylvania Electric Products Inc. Electroluminescent device. 2,958,009, 10-25-60, Cl. 315-169.
- Bowerman, Hulle E. Pipe line pigs. 2,953,800, 9-27-60, Cl. 15-104.06.
- Bowerman, Hulle E., J. E. Miller, and J. W. Jacoby, to United States Steel Corp. Pistons and sealing elements therefor. 2,926,976, 3-1-60, Cl. 309-23.
- Bowerman, Hulle E., and G. H. Harris. Manufacture of rubber covered balls. 2,940,128, 6-14-60, Cl. 18-59.
- Bowers, Albert: See—  
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- Ringold, Howard J., Mancera, Rosenkranz, and Bowers. 2,934,546.
- Bowers, Eric H., and O. Thoma, to Dowty Hydraulic Units Ltd. Steering of tracked vehicles. 2,941,609, 6-21-60, Cl. 180-6.48.
- Bowers, Frederick A., and J. D. Stafford, Jr., to Phillips Petroleum Co. Apparatus for granulating molten solids. 2,921,335, 1-19-60, Cl. 18-2.7.
- Bowers, Fritz K., to Bell Telephone Laboratories, Inc. Pulse code transmission system. 2,957,947, 10-25-60, Cl. 179-15.6.
- Bowers, Hurst G. Automatic carburetor deicer control. 2,941,061, 6-14-60, Cl. 219-19.
- Bowers, James B., and R. B. Langford, to Stauffer Chemical Co. Bis(trichloromethyl)sulfone as a biocide. 2,959,517, 11-8-60, Cl. 167-22.
- Bowers, Lester T., to The Budd Co. Nozzle for gas-shielding arc welding and method of using it. 2,929,911, 3-22-60, Cl. 219-74.
- Bowers, Roy H., R. D. Suckling, and J. W. Stevens, to Imperial Chemical Industries Ltd. Mixing apparatus. 2,964,299, 12-13-60, Cl. 259-4.
- Bowers, Theron L.: See—  
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- Bowes, William H., to Atomic Energy of Canada Ltd. Method of establishing a fluid-tight closure. 2,948,959, 8-16-60, Cl. 29-446.
- Bowles, Samuel V. Load packer for truck body. 2,965,254, 12-20-60, Cl. 214-518.
- Bowles, Vernon O., to Socony Mobil Oil Co., Inc. Cascaded pretreater for removal of nitrogen. 2,937,134, 5-17-60, Cl. 208-89.
- Bowles, Vernon O., to Socony Mobil Oil Co., Inc. Liquid-liquid heat exchange in mixed phase hydrocarbon conversions. 2,953,521, 9-20-60, Cl. 208-212.
- Bowling, John F.: See—  
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- Bowling, John F., to E. I. du Pont de Nemours and Co. Process for producing crimpable polyamide filaments. 2,957,747, 10-25-60, Cl. 18-54.
- Bowlus, Sanford S., to Blaw-Knox Co. Variable orifice desuperheater. 2,945,685, 7-19-60, Cl. 261-62.
- Bowman, Alfred, to Egen Electric Ltd. Adjustable attenuator. 2,927,287, 3-1-60, Cl. 333-81.
- Bowman, George F. Resilient wheel. 2,927,619, 3-8-60, Cl. 152-11.
- Bowman, Joe, to Kingston Products Corp. Detent. 2,940,333, 6-14-60, Cl. 74-527.
- Bowman, Lewis W.: See—  
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- Bowman, Norman J.: See—  
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- Bowman, Paul H., and H. A. Dvorak, to Western Electric Co., Inc. Circuitry systems and methods of making the same. 2,932,772, 4-12-60, Cl. 317-101.
- Bowman, Robert W., A. Riuli, and G. I. Schrank, to Specialties Development Corp. Discharge controlling means for fluid medium under pressure. 2,926,731, 3-1-60, Cl. 169-31.
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- Bowman, Roy O. Boat trailer. 2,936,919, 5-17-60, Cl. 214-505.
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- Bowmar Instrument Corp.: See—  
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- Bown, Delos E.: See—  
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- Bown, Delos E., H. W. Earhart, R. H. Perry, Jr., and D. E. Nicholson, to Esso Research and Engineering Co. Polymethylbenzene treating process. 2,945,899, 7-19-60, Cl. 260-668.
- Bowne, Garrett D.: *See*—  
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- Bowser, Ernest R. Satin weave with twill effect. 2,925,832, 2-23-60, Cl. 139-55.
- Bowser, Howard S. Bathroom. 2,930,047, 3-29-60, Cl. 4-2.
- Bowser, Inc.: *See*—  
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- Bowser, Philip C., and R. Schilling, to General Motors Corp. Air spring bellows. 2,922,637, 1-26-60, Cl. 267-65.
- Bowser, Philip C., and R. E. Denzer, to General Motors Corp. Air spring. 2,950,104, 8-23-60, Cl. 267-65.
- Bowtell, James N., and J. A. Moore, to The General Electric Co. Ltd. Manufacture of electric incandescent lamps and similar devices. 2,935,825, 5-10-60, Cl. 53-7.
- Box, E. O., Jr.: *See*—  
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- Boxall, Frank S., to Lenkurt Electric Co., Inc. Feedback amplifier circuit. 2,960,660, 11-15-60, Cl. 330-91.
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- Boyan, Edwin A. Apparatus for recording electrically on heat-sensitive material. 2,922,688, 1-26-60, Cl. 346-76.
- Boyan, Edwin A. Sun lamp oscillating apparatus. 2,954,771, 10-4-60, Cl. 128-396.
- Boyce, Andrew S. Utility peg. 2,939,468, 6-7-60, Cl. 135-15.
- Boyce, Harold D.: *See*—  
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- Boyd, Alfred K.: *See*—  
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- Boyd, Anderson B., to General Motors Corp. Electromagnetic harmonic oscillation device. 2,960,643, 11-15-60, Cl. 318-124.
- Boyd, David M., Jr., to Universal Oil Products Co. Flow control system. 2,957,485, 10-25-60, Cl. 127-14.
- Boyd, George E.: *See*—  
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- Boyd, George T., and A. H. Zucker, to Boyd Mat Mfg. Co. Floor mat. 2,934,778, 5-3-60, Cl. 15-239.
- Boyd, Harvey W., to The Superior Oil Co. Electrical switching apparatus. 2,948,833, 8-9-60, Cl. 317-46.
- Boyd, James R. Mailing chute. 2,943,720, 7-5-60, Cl. 193-8.
- Boyd, John M., to Continental Can Co., Inc. Process of making sterile concentrated milk. 2,925,348, 2-16-60, Cl. 99-184.
- Boyd, John R. Airflow fluid flow control system. 2,946,541, 7-26-60, Cl. 244-42.
- Boyd, John R., and A. L. Hanes. Thermal jet engine. 2,938,332, 5-31-60, Cl. 60-35.6.
- Boyd, Lawrence M., and J. C. McKean, to Dominion Engineering Works Ltd. Turbine guide vane locking and vibration preventing arrangement. 2,930,579, 3-29-60, Cl. 253-24.
- Boyd, Malcolm R.: *See*—  
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- Boyd, Millard C., to Allied Chemical Corp. Wood chip level control. 2,938,639, 5-31-60, Cl. 214-17.
- Boyd, Robert S.: *See*—  
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- Boyd, Stanley L.: *See*—  
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- Boyd, Thomas F., to United States of America, Navy. Portable beta radiation thickness gage. 2,938,124, 5-24-60, Cl. 250-83.6.
- Boyd, Thomas R., to Illinois Tool Works. Quick fastener unit. 2,922,211, 1-26-60, Cl. 24-221.
- Boyd, Walter K., M. E. Langston, and T. E. Johnson, to Stainless Foundry & Engineering, Inc. Nickel-base alloy containing boron. 2,938,787, 5-31-60, Cl. 75-171.
- Boyd, William H. and S. L. Cattle hoist. 2,942,575, 6-28-60, Cl. 119-100.
- Boyd, William L. Shoring jack. 2,921,772, 1-19-60, Cl. 254-100.
- Boydak, Joseph P., and H. A. Lord, to Diamond National Corp. Molded pulp bottle carrier. 2,961,123, 11-22-60, Cl. 220-102.
- Boyden, Robert E., K. F. Oldenburg, B. F. Kuhne, and J. K. Linn, to Clary Corp. Data read-out apparatus. 2,927,729, 3-8-60, Cl. 235-60.29.
- Boydner, Walter D. Paint roller cleaner and paint mixer. 2,929,387, 3-22-60, Cl. 134-149.
- Boydston, Fred E., to Continental Oil Co. Tandem tubing pump. 2,966,119, 12-27-60, Cl. 103-4.
- Boyer, Albert J. Method for removing paraffin from oil wells, lines, tanks, pumps and the like. 2,937,112, 5-17-60, Cl. 134-40.
- Boyer, Charles J., to The Electric Storage Battery Co. Molded suspension for safety hat. 2,946,063, 7-26-60, Cl. 2-3.
- Boyer, Clarence, to E. I. du Pont de Nemours and Co. Process for flowing filaments in laminar flow surrounded by an outer area of turbulent flow. 2,955,017, 10-4-60, Cl. 18-54.
- Boyer, Emanuel F. Vegetable trimming machine. 2,961,023, 11-22-60, Cl. 146-83.
- Boyer, Erwin E., to Bendix Aviation Corp. Frequency sensitive circuit providing speed error signals. 2,943,281, 6-28-60, Cl. 333-75.
- Boyer, Floyd J., W. R. Harding, E. M. Irwin, C. J. McDowall, and R. J. Wente, to General Motors Corp. Temperature datum gas turbine control. 2,938,340, 5-31-60, Cl. 60-39.28.
- Boyer, George W. United States of America, Navy. Fusible link flood valve. 2,950,022, 8-23-60, Cl. 220-47.
- Boyer, Harold E.: *See*—  
Lundeen, David E., Ulman, Gusching, and Boyer. 2,951,342.
- Boyer, John L., and A. P. Colaiaco, to Westinghouse Electric Corp. Semiconductor rectifier device. 2,933,662, 4-19-60, Cl. 317-234.
- Boyer, Patrick D., to Elliott Brothers (London) Ltd. Valves. 2,919,716, 1-5-60, Cl. 137-620.
- Boyer, Ralph K., to Dill Manufacturing Co., The. Tire valve tool. 2,947,073, 8-2-60, Cl. 29-267.
- Boyer, Ralph K., and R. J. Gaillard, to The Dill Mfg. Co. Tire valve tool. 2,940,167, 6-14-60, Cl. 29-267.
- Boyer, Ralph K., and H. W. Krohn, Jr., to The Dill Mfg. Co. Method of manufacturing a repair patch. 2,943,969, 7-5-60, Cl. 154-110.
- Boyer, Raymond A., Sr., and J. F. Horvath, to The Bendix Corp. Conveyor. 2,964,159, 12-13-60, Cl. 198-19.
- Boyer, Raymond W., to Royal Electric, Inc. Fluid pump or motor. 2,923,247, 2-2-60, Cl. 103-121.
- Boyer, Raymond W., to Royal Electric, Inc. Pump. 2,953,098, 9-20-60, Cl. 103-161.
- Boyer, Richard P., Jr., to General Dynamics Corp. Indicator for telephone systems. 2,941,194, 6-14-60, Cl. 340-248.
- Boyer, Watson F., and J. W. Postey, to The Ford Motor Co. Fuel injection system. 2,943,616, 7-5-60, Cl. 123-140.
- Boyer, William M., to The Richardson Co. Fungicidal and bactericidal agent. 2,961,373, 11-22-60, Cl. 167-31.
- Boyer, William M., and G. Gavlin, to The Richardson Co. Process for making 1-chloro-2-fluoroethylene. 2,924,626, 2-9-60, Cl. 260-653.5.
- Boyet, Howard, and S. Weisbaum, to Bell Telephone Laboratories, Inc. Broad band nonreciprocal transmission device. 2,923,899, 2-2-60, Cl. 333-31.
- Boykin, John R., to United States of America, Navy. Control device. 2,959,128, 11-8-60, Cl. 102-70.2.
- Boylan, Chester R. Television protective device. 2,957,110, 10-13-60, Cl. 317-61.
- Boylan, Henry W., and H. C. Doane, to General Motors Corp. Unitary mechanisms for sequential control. 2,933,942, 4-26-60, Cl. 74-471.
- Boyle, Archibald R., to Dobbie McInnes Electronics Ltd. Electronic recording apparatus. 2,937,913, 5-24-60, Cl. 346-29.
- Boyle, Byran R.: *See*—  
Murray, George H., and Boyle. 2,932,984.
- Boyle, Homer G., to Ayco Mfg. Corp. Linear staircase counter. 2,922,041, 1-19-60, Cl. 250-27.
- Boyle, James L.: *See*—  
McDowell, Richard H., and Boyle. 2,935,409.
- Boyle, James M., C. S. Lynch, and H. R. Ready, to Esso Research and Engineering Co. Oil Compositions containing metal salts of ricinoleate dithiophosphoric acids. 2,947,693, 8-2-60, Cl. 252-32.7.
- Boyle, Joseph J., and G. Noorbom. Alarm system. 2,955,282, 10-4-60, Cl. 340-274.
- Boyle, Ralph C.: *See*—  
Ferguson, Henry A., Boyle, and Jedrzykowski. 2,945,570.
- Boyle, Richard J., to American Cyanamid Co. New heterocyclic paraquinones. 2,938,903, 5-31-60, Cl. 260-256.4.
- Boyle, Richard P.: *See*—  
St. Clair, Theodore A., Phillips, and Boyle. 2,926,029.
- Boyle, Robert F., and R. J. Lappin, to Cleveland Pneumatic Industries, Inc. Servo fluid motor. 2,960,970, 11-22-60, Cl. 121-41.
- Boyle, William C., to General Box Co. Machine for making book covers. 2,922,172, 1-26-60, Cl. 11-2.
- Boyle, William F., to Baldwin-Lima-Hamilton Corp. Jet protector for a water wheel. 2,926,887, 3-1-60, Cl. 253-136.
- Boyle, William G., to Otis Engineering Corp. Release assembly for tubing caliper. 2,947,086, 8-2-60, Cl. 33-178.
- Boyle, William G., to Otis Engineering Corp. Ball-type surface safety valve. 2,959,187, 11-8-60, Cl. 137-456.
- Boyles, Elmo N. Suspension system for tandem axled vehicles. 2,954,986, 10-4-60, Cl. 280-104.5.
- Boyles, Robert L., to General Electric Co. Time switch. 2,951,919, 9-6-60, Cl. 200-38.
- Boyles, Robert L., and W. C. Winger, to General Electric Co. Alarm clock control mechanism. 2,946,182, 7-26-60, Cl. 58-21.12.
- Boynton, Edmund W. Practice putting device. 2,933,318, 4-19-60, Cl. 273-178.
- Boynton, Herbert H., Jr., 49% to W. J. King. Neck attached life preserver. 2,937,387, 5-24-60, Cl. 9-316.



- Boysen, Albert P., Jr., W. D. Goodale, Jr., A. Herckmans, and W. Pford, to Bell Telephone Laboratories, Inc. Relay for coin collector. 2,951,635, 9-6-60, Cl. 232-57.5.
- Boyum, William B., to Westinghouse Electric Corp. Guide vane array for turbines. 2,941,781, 6-21-60, Cl. 253-39.
- Bozec, Alain: *See*—
- Servanty, Pierre, Le Rouzo, Bouchet, Legrand, and Bozec. 2,919,542.
- Bozeman, John W., to Republic Aviation Corp. Optical sighting and tracking device. 2,930,894, 3-29-60, Cl. 250-203.
- Bozman, William D., to Hanley Co. Automatic ware car conveyor. 2,961,973, 11-29-60, Cl. 104-162.
- Bozorth, Richard M., and E. A. Nesbitt, to Bell Telephone Laboratories, Inc. Permanent magnets. 2,920,381, 1-12-60, Cl. 29-183.5.
- Bozoyan, Edward. Valve structure. 2,929,336, 3-22-60, Cl. 103-234.
- Bozymowski, John A.: *See*—
- Bolston, Leonard, and Bozymowski. 2,937,334.
- Bozza, Joseph D., to The Jo-An Shoe Mfg. Co., Inc. Method of manufacturing moccasins. 2,946,069, 7-26-60, Cl. 12-142.
- Braal, Eman, and B. J. Oom, to American Seating Co. Flush banded table top. 2,952,496, 9-13-60, Cl. 311-107.
- Braaten, Orvar. Automatic siphon. 2,927,595, 3-8-60, Cl. 137-132.
- Braatz, Willi, to Canadian Ingersoll-Rand Co. Ltd. Can operated forging machine. 2,944,448, 7-12-60, Cl. 78-21.
- Brabander, Herbert J.: *See*—
- Wright, William B., Jr., Hardy, and Brabander. 2,944,081.
- Brabender, Carl W., and W. R. Coyne, to The Pillsbury Co. Sample removing apparatus. 2,943,478, 7-5-60, Cl. 73-76.
- Brabender, Carl W., and W. R. Coyne, to The Pillsbury Co. Moisture content determining apparatus. 2,943,479, 7-5-60, Cl. 73-76.
- Brabender, Carl W., and W. R. Coyne, to The Pillsbury Co. Apparatus for selecting samples of predetermined weight. 2,957,673, 10-25-60, Cl. 249-2.
- Brabenec, Ales: *See*—
- Kruml, Vincenc, Brabenec, and Sulc. 2,929,917.
- Bracco, Albino: *See*—
- Elia, Ezio, and Bracco. 2,937,515.
- Brace, Neal O., to E. I. du Pont de Nemours and Co. Copolymers of N-(acylamidomethyl)-acrylamides. 2,966,481, 12-27-60, Cl. 260-86.1.
- Brace, Robert L., and R. M. Schirmer, to Phillips Petroleum Co. Fuel evaluation apparatus. 2,937,519, 5-24-60, Cl. 73-35.
- Bracey, Frederick J., Jr., to Package Machinery Co. Coupon attaching mechanism for bag forming machines. 2,940,233, 6-14-60, Cl. 53-137.
- Brachman, Robert A. Display carton. 2,964,169, 12-13-60, Cl. 206-44.
- Brack, Alma. Supplemental article for a foundation garment. 2,946,335, 7-26-60, Cl. 128-522.
- Bracke, Edward H.: *See*—
- Muller, William R., and Bracke. 2,919,625.
- Bracker A.G.: *See*—
- Ramseier, Paul. 2,953,845.
- Ramseier, Paul. 2,964,066.
- Brackett, Guy F. Jr.: *See*—
- Barbian, Hugo A., Brackett, and Britton. 2,934,462.
- Brackett, Lawrence W., to Wood Electric Co., Inc. Circuit breaker. 2,955,177, 10-4-60, Cl. 200-116.
- Brackett, Lawrence W., to Wood Electric Corp. Electrical circuit breakers. 2,958,749, 11-1-60, Cl. 200-116.
- Brackney, Howard W., to United States of America, Atomic Energy Commission. Control for isotope separating apparatus. 2,947,867, 8-2-60, Cl. 250-41.9.
- Braconier, Frederic F. A., and L. G. Francotay, to Societe Belge de L'Azote et des Produits Chimiques du Marly. Gas burner. 2,936,829, 5-17-60, Cl. 158-109.
- Braconier, Frederic F. A., and H. A. Hannaert, to Societe Belge de L'Azote et des Produits Chimiques du Marly. Process for the separation of acetylene and olefins. 2,937,714, 5-24-60, Cl. 183-115.
- Braconier, Frederic F. A., and J. J. L. E. Riga, to Societe Belge de L'Azote et des Produits Chimiques du Marly. Societe Anonyme. Process for the separation and purification of acetylene from gases obtained by pyrolysis of hydrocarbons. 2,966,392, 12-27-60, Cl. 23-33.
- Bradbury, Frank R.: *See*—
- Walker, George H. F., and Bradbury. 2,962,504.
- Bradbury, James G., to Hays Mfg. Co. Diverting valve. 2,919,717, 1-5-60, Cl. 137-625.25.
- Bradbury, James W. Aerosol bomb device having safety means. 2,961,131, 11-22-60, Cl. 222-394.
- Bradbury, James W. Snap-action sensing device. 2,966,060, 12-27-60, Cl. 73-335.
- Bradbury, James W. Temperature sensing device. 2,966,261, 12-27-60, Cl. 206-65.
- Braddick, Henry J. J.: *See*—
- Ring, James, and Braddick. 2,936,732.
- Braddy, De Carr C., to The Babcock & Wilcox Co. Vapor generating and superheating unit. 2,942,586, 6-28-60, Cl. 122-476.
- Braddy, De Carr C., to The Babcock & Wilcox Co. Vapor generating and superheating unit. 2,952,975, 9-20-60, Cl. 60-39.18.
- Braden, Ralph S., to Chrysler Corp. Control for a refrigeration system. 2,958,208, 11-1-60, Cl. 62-181.
- Braden, Ray S., to Bomac Laboratories Inc. Microwave transmission control device. 2,922,124, 1-19-60, Cl. 333-13.
- Braden, Ray S., to Bomac Laboratories Inc. Folded cylinder gaseous discharge device. 2,922,131, 1-19-60, Cl. 333-98.
- Bradfield, Herbert C., W. H. Barnard, L. Redmayne, and J. W. Davis, to Girling Ltd. Sealing means for vehicle brakes. 2,921,654, 1-19-60, Cl. 188-218.
- Bradford Dyers' Association Ltd., The: *See*—
- Landells, George, and Bragg. 2,947,058.
- Bradford, Henry K. Signalling apparatus. 2,923,882, 2-2-60, Cl. 324-77.
- Bradford, John A., to Food Machinery and Chemical Corp. Apparatus for marking and counting containers. 2,927,527, 3-8-60, Cl. 101-43.
- Bradford, John O.: *See*—
- Bonomo, Melvin E., Bradford, and Melners. 2,936,838.
- Bradford, John R., to Farrington Mfg. Co. Printing plate assembly and its elements. 2,935,941, 5-10-60, Cl. 101-369.
- Bradford Novelty Co., Inc.: *See*—
- Burnbaum, Jack. 2,925,678.
- Bradford, Purdy, to Swift & Co. Treatment of refinery wastes. 2,925,383, 2-16-60, Cl. 210-44.
- Bradford, Purdy, to Swift & Co. Apparatus for producing a fine spray, fog or mist. 2,963,284, 12-6-60, Cl. 261-117.
- Bradford, Rex C.: *See*—
- Witt, Victor R., and Bradford. 2,922,231.
- Bradley, Charles E. Smoker's shield. 2,962,030, 11-29-60, Cl. 131-175.
- Bradley, Chester D., to A. H. Emery Co. Hydraulic load cell for weighing machines. 2,960,113, 11-15-60, Cl. 137-778.
- Bradley, David E., Jr. Amusement ride. 2,922,648, 1-26-60, Cl. 272-36.
- Bradley, Gordon: *See*—
- Driver, John F., and Bradley. 2,957,366.
- Bradley, James K., to Philco Corp. Bridge-type phase detector. 2,936,421, 5-10-60, Cl. 328-134.
- Bradley, John, to The Easy Washing Machine Co., Ltd. Multiple speed phonograph turntable drive mechanism. 2,926,536, 3-1-60, Cl. 74-200.
- Bradley, John K., G. G. Brown, and W. F. Sheldrick, to Fisons Ltd. Phosphate-containing complex fertilizer material production. 2,954,286, 9-27-60, Cl. 71-39.
- Bradley, John N.: *See*—
- Hykes, Paul G., Roberts, and Bradley. 2,948,568.
- Bradley, Mrs. John W.: *See*—
- Denison, Ruth C. 2,940,898.
- Bradley, Philip R., Jr., to Alaska Juneau Gold Mining Co. Extraction of sulphur. 2,934,414, 4-26-60, Cl. 23-312.
- Bradley, Robert D., and G. M. Goettelman, to Johnson & Johnson. Air-permeable product and method of making it. 2,922,417, 1-26-60, Cl. 128-141.
- Bradley, Robert O., to Toledo Scale Corp. Dynamic weigher. 2,939,694, 6-7-60, Cl. 265-68.
- Bradley, Robert O., to Toledo Scale Corp. Apparatus for proportioning a second material by ratio according to the weight of a first material. 2,960,925, 11-22-60, Cl. 99-256.
- Bradley, Robert W., to United Shoe Machinery Corp. Body conductivity operated controls for electric devices. 2,946,956, 7-26-60, Cl. 328-1.
- Bradley, Roy B. Holder and powder applicator for a barber's duster brush. 2,966,176, 12-27-60, Cl. 141-370.
- Bradley, Stephen D., and G. S. Hendrie, to Detroit Macoid Corp. Finishing welt with grained bead surface and method of making same. 2,958,909, 11-8-60, Cl. 18-59.
- Bradley, Theodore F.: *See*—
- Mueller, Albert C., and Bradley. 2,961,424.
- Bradley Washfountain Co.: *See*—
- Mullett, Howard G., and Booker. 2,965,906.
- Bradley, William E., to Philco Corp. Short range radar system. 2,927,319, 3-1-60, Cl. 343-17.1.
- Bradley, William E., to Philco Corp. Multi-beam cathode-ray tube transducer. 2,951,178, 8-30-60, Cl. 315-13.
- Bradley, William E., to Philco Corp. Transmit-receive device. 2,959,778, 11-8-60, Cl. 343-5.
- Bradley, William E., and D. E. Sunstein, to Philco Corp. Photocell indexing system. Re. 2,478,1, 2-9-60, Cl. 315-10.
- Bradley, William E., and J. W. Tiley, to Philco Corp. Semi-conductive device and apparatus. 2,929,999, 3-22-60, Cl. 330-38.
- Bradley, William R., Jr., to Jersey Production Research Co. Apparatus for changing pump liners. 2,923,055, 2-2-60, Cl. 29-283.
- Bradmillar, Richard W., to Avco Mfg. Corp. Radio frequency transistor receivers provided with automatic gain control. 2,945,121, 7-12-60, Cl. 250-20.
- Bradmillar, Richard W., to Avco Corp. Single transistor threshold circuit. 2,954,527, 9-27-60, Cl. 328-195.
- Bradof, Richard W., to The Wander Co. Process for improving the flavor of soy flour. 2,930,700, 3-29-60, Cl. 99-99.
- Bradshaw, Arthur, F. G. Hellyer, J. Robbins, F. R. Smith, and E. A. Toon, to United Shoe Machinery Corp. Methods of forming discrete thermoplastic granules into a sintered length. 2,960,727, 11-22-60, Cl. 18-55.
- Bradshaw, Robert S., to Burroughs Corp. Electro-mechanical storage, transfer and read-out device. 2,955,755, 10-11-60, Cl. 235-60.33.



- Bradshaw, Samuel N., to Courtaulds Ltd. Molten urea dyeing process. 2,928,712, 3-15-60, Cl. 8-85.
- Bradshaw, Samuel N., and H. B. Mann, to Courtaulds Ltd. Molten urea dyeing process. 2,930,670, 3-29-60, Cl. 8-85.
- Bradshaw, Stanley B., and A. I. Mlavsky, to The General Electric Co. Ltd. Production of semi-conductor bodies. 2,935,478, 5-3-60, Cl. 252-62.3.
- Bradshaw, Wilbert C., Jr., and D. W. Ruschhaupt, to California Fresno Investment Corp. Mobile earth surfacing apparatus. 2,948,519, 8-9-60, Cl. 259-154.
- Bradson Mfg. Corp.: See—
- Price, Clarence A., and Rupp. 2,951,645.
- Bradstreet, Samuel W. Interstellar space illusion device. 2,935,316, 5-3-60, Cl. 272-17.
- Bradt, Lynn, and R. H. Stewart, to S I Handling Systems, Inc. Tow truck systems. 2,936,718, 5-17-60, Cl. 104-172.
- Brady, Bernard P.: See—
- Fairchild, Meri K., Maxfield, and Brady. 2,946,339.
- Brady, Charles V., to Bemis Bro. Bag Co. Bag. 2,935,241, 5-3-60, Cl. 229-53.
- Brady, Dale W. Crop harvesting implement. 2,920,433, 1-12-60, Cl. 56-24.
- Brady, James J., to United States of America, Army. Pressure sealing plug for cartridge case. 2,935,945, 5-10-60, Cl. 102-43.
- Brady, Raymond P. Insulated receptacle. 2,960,216, 11-15-60, Cl. 206-4.
- Brady, Robert F.: See—
- Davidson, Gareth M., and Brady. 2,950,443.
- Brady, Samuel G., to Ex-Cell-O Corp. Apparatus for forming broach type tools. 2,949,706, 8-23-60, Cl. 51-34.
- Brady, Samuel G., to Ex-Cell-O Corp. Linear indexing mechanism. 2,937,732, 5-24-60, Cl. 192-139.
- Brady, Samuel G., to Ex-Cell-O Corp. Machine for grinding the back-off from the cutting edges of tools of the broach type. 2,960,804, 11-22-60, Cl. 51-34.
- Brady, W. H., Co.: See—
- Heuser, Elliott G. 2,953,865.
- Muttera, William H., Jr. 2,946,370.
- Brady, William A., Jr.: See—
- Blenman, William G., and Brady. 2,955,568.
- Bradyhouse, Richard G.: See—
- Muller, Robert C., Bradyhouse, and Kerpelman. 2,941,426.
- Braendel, Felix W., to Groov-Pin Corp. Self tapping insert for interchangeable use in through grain or cross grain wooden structures. 2,922,455, 1-26-60, Cl. 151-41.7.
- Braendel, Helmut G., to Wilkening Mfg. Co. Piston ring assembly. 2,965,423, 12-20-60, Cl. 309-44.
- Brafford, James O., to General Motors Corp. Engine oil pan. 2,938,601, 5-31-60, Cl. 184-103.
- Bragaw, Chester G., Jr., and W. G. Simeral, to E. I. du Pont de Nemours and Co. Safety-glass laminate. 2,946,711, 7-26-60, Cl. 154-2.77.
- Bragdon, Robert W., to Metal Hydrides Inc. Preparation of sodium borohydride. 2,926,991, 3-1-60, Cl. 23-14.
- Bragdon, Robert W., to Metal Hydrides Inc. Preparation of amine boranes. 2,927,133, 3-1-60, Cl. 260-483.
- Bragdon, Wilbur D.: See—
- Perkins, Richard E., and Bragdon. 2,929,960.
- Brager, Leif N.: See—
- Nordquist, Ronald E. J., and Brager. 2,952,567.
- Bragg, William: See—
- Landells, George, and Bragg. 2,947,058.
- Braham Industries, Inc.: See—
- Franke, Claude E. 2,944,132.
- Brahm, Charles B.: See—
- Best, Stanley G., and Brahm. 2,942,417.
- Brahm, Charles B., to United Aircraft Corp. Aircraft air conditioning system and temperature control means therefor. 2,937,011, 5-17-60, Cl. 257-276.
- Brahm, Charles B., to United Aircraft Corp. Firing circuit for voltage regulator tube. 2,944,206, 7-5-60, Cl. 323-16.
- Braid, Milton: See—
- Hauptschein, Murray, Braid, and Lawlor. 2,957,032.
- Braid, Milton, and M. Hauptschein, to Pennsalt Chemicals Corp. Production of fluoriodohydrocarbons. 2,920,111, 1-5-60, Cl. 260-653.
- Braidwood, Clinton A., to Schenectady Varnish Co., Inc. Butyl rubber containing a dimethylol alkyl phenol, a Friedel-Crafts catalyst and a nitro-paraffin and method of curing butyl rubber. 2,963,462, 12-6-60, Cl. 260-32.4.
- Brainard, David S.: See—
- Wile, Daniel D., and Brainard. 2,943,457.
- Brainerd, Walter E., to Munsingwear, Inc. Stocking dyeing form. 2,953,915, 9-27-60, Cl. 68-3.
- Braithwaite, David G.: See—
- Keith, Carl D., Erickson, McGrew, and Braithwaite. 2,938,002.
- Braithwaite, David G., to Nalco Chemical Co. Preparation of silica-alumina compositions. 2,933,456, 4-19-60, Cl. 252-451.
- Braithwaite, David G., to Nalco Chemical Co. Silica-alumina compositions and method for the preparation thereof. 2,941,961, 6-21-60, Cl. 252-455.
- Braithwaite, David G., to Nalco Chemical Co. Method for preparing alumina compositions. 2,943,065, 6-28-60, Cl. 252-463.
- Braithwaite, David G., to Nalco Chemical Co. Conversion of hydrocarbons with a synthetic silica-alumina-magnesia catalyst composite. 2,958,648, 11-1-60, Cl. 208-120.
- Braithwaite, William T. Liquid fuel burner. 2,962,090, 11-29-60, Cl. 158-91.
- Braitsch, Otto, and H. Schlenker. Clock. 2,922,276, 1-26-60, Cl. 58-41.
- Brajer, Edwin J., and F. Kulcsar, to Clevite Corp. Dielectric ceramic compositions. 2,960,411, 11-15-60, Cl. 106-39.
- Brake, Edgar R., to The Jeffrey Mfg. Co. Material crushing apparatus. 2,940,676, 6-14-60, Cl. 241-82.
- Bram, Alfred, to Micafl A-G. Werke fur Elektro-Isolation und Wicklereteinrichtungen. Multiple purpose winding machine. 2,936,129, 5-10-60, Cl. 242-7.
- Bram, Georges, to Compagnie de Pont-A-Mousson. Sealing members and reinforcements therefor. 2,957,717, 10-25-60, Cl. 288-27.
- Bram, Leonard S., and L. F. Vecchio, to Benjamin Moore & Co. Tinting base composition. 2,942,997, 6-28-60, Cl. 106-308.
- Bräm, Walter, to Paliz-Holding A.G. Actuating slide for the needles of a hand knitting machine. 2,958,214, 11-1-60, Cl. 66-78.
- Brame, Arthur A., and B. R. Lyon, Jr., to Brame Textile Machine Co. Pivotal bracket for slub catchers. 2,963,768, 12-13-60, Cl. 28-64.
- Brame Textile Machine Co.: See—
- Brame, Arthur A., and Lyon, Jr. 2,963,768.
- Bramlage, William K.: See—
- Williams, Paul H., and Bramlage. 2,954,037.
- Bramley, Robert K., to W. S. West. Mechanism for forward and reverse drive of steerable wheel. 2,924,287, 2-9-60, Cl. 180-19.
- Bramley, Robert K. Lawn mower service device. 2,946,159, 7-26-60, Cl. 51-48.
- Bramming, Carl, to Aladdin Industries, Inc. Closures for vacuum bottles. 2,925,187, 2-16-60, Cl. 215-13.
- Bramming, Carl, to Aladdin Industries, Inc. Closure for vacuum bottles. 2,934,231, 4-26-60, Cl. 215-13.
- Bramming, Carl, to Aladdin Industries, Inc. Handle for vacuum bottles. 2,942,910, 6-28-60, Cl. 294-31.2.
- Bramming, Carl, to Aladdin Industries, Inc. Pour-through stopper for vacuum bottles. 2,946,491, 7-26-60, Cl. 222-545.
- Bramming, Carl, to Aladdin Industries, Inc. Plastic-jacketed vacuum bottle. 2,954,888, 10-4-60, Cl. 215-13.
- Bramming, Carl, to Aladdin Industries, Inc. Filler support for vacuum bottles. 2,963,187, 12-6-60, Cl. 215-13.
- Brancato, Leo J., to Heli-Coil Corp. Coil insert with an outer engaging locking coil. 2,934,123, 4-26-60, Cl. 151-14.
- Branch, Garland H.: See—
- Grosser, Christian E., and Branch. 2,963,236.
- Branch, Garland M., Jr., and M. R. Boyd, to General Electric Co. Slow wave structures. 2,943,229, 6-28-60, Cl. 315-3.6.
- Branch, William C.: See—
- Booth, Jack J., and Branch. 2,921,605.
- Booth, Jack J., and Branch. 2,927,175.
- Branchu, Paul J. Aircraft-guidance system. 2,956,278, 10-11-60, Cl. 343-107.
- Brand, Frank A., and G. E. Hambleton, to United States of America, Army. High frequency harmonic generator employing transistor. 2,926,312, 2-23-60, Cl. 331-77.
- Brand, Frederick B., and J. H. Chadwick, Jr., to Sperry Rand Corp. Fluid pressure-responsive apparatus for controlling navigable craft. 2,948,245, 8-9-60, Cl. 114-16.
- Brand, Karl, to Kugelfischer Georg Schafer & Co. Valve particularly for hydraulic control systems. 2,925,093, 2-16-60, Cl. 137-525.3.
- Brand, Karl. Valve, particularly for hydraulic control systems. 2,942,423, 6-28-60, Cl. 60-54.6.
- Brand, Walter G., Jr.: See—
- Alvey, John M., Jr., and Brand. 2,932,380.
- Brandau, William E., to The Bendix Corp. Speed and temperature responsive fuel control system for combustion engines. 2,959,920, 11-15-60, Cl. 60-39.28.
- Branday, John A. Apparatus for machining bar stock or the like. 2,948,196, 8-9-60, Cl. 90-14.
- Brandenburg, Kenneth E. Ballast resistor with sealed terminal means. 2,931,996, 4-5-60, Cl. 338-164.
- Brandenberger, Ernst M., and E. Tanner, to Amcel Propulsion, Inc. Powder propellant rocket motors. 2,957,307, 10-25-60, Cl. 60-35.6.
- Brandenburg, Edwin H. Magnetic holding devices. 2,923,865, 2-2-60, Cl. 317-159.
- Brandenthaler, Anthony: See—
- Gyllenberg, John L. 2,934,111.
- Brander, William C. Threadless bolt having a wedge shaped retaining key. 2,941,437, 6-21-60, Cl. 85-7.
- Brandes, Adolf, A. Christmann, and H. Willersinn, to Fa. Bender-Werke G.m.b.H. Stamping punch for the manufacture of sealing inserts of thermoplastic artificial material in closing caps for containers, as bottles. 2,963,738, 12-13-60, Cl. 18-5.
- Brandes, Robert A., and W. Neumann. Method of making concrete reinforcing elements from ribbed steel bars. 2,957,240, 10-25-60, Cl. 29-552.3.
- Brandes, Roy H., R. A. Hirsch, and D. E. Royer, to General Motors Corp. Fluid pressure system and control valve assembly therefor. 2,919,752, 1-5-60, Cl. 170-160.21.
- Brandes, Roy H., and O. F. Plaugh, to General Motors Corp. Volume compensating means for a servo system. 2,940,426, 6-14-60, Cl. 121-38.



- Brandes, Roy H., and R. A. Hirsch, to General Motors Corp. Propeller control system. 2,955,663, 10-11-60, Cl. 170-160-21.
- Brandi, Hermann, H. Hofges, and E. Kohler, to Phoenix-Rheinsuhr Aktiengesellschaft Vereinigte Hutten- und Rohrerwerke. Refining pig iron. 2,935,398, 5-3-60, Cl. 75-52.
- Brandi, Otto H. Method and apparatus for the distribution of conditioned air. 2,928,330, 3-15-60, Cl. 98-1.5.
- Brandl, Joseph W. Coffee beans roasting machine. 2,936,528, 5-17-60, Cl. 34-63.
- Brandl, Wilhelm. Control device for a heating element. 2,927,186, 3-1-60, Cl. 219-20.
- Brandlein, Chester: See—
- Stone, Selden L., and Brandlein. 2,953,251.
- Brandner, John D., to Atlas Powder Co. Low viscosity cellulose acetate spinning solutions. 2,966,422, 12-27-60, Cl. 106-196.
- Brandon, Arthur H. Tubing caliper. 2,950,538, 8-30-60, Cl. 33-178.
- Brandon, Carl, to Elevator Construction & Service Co. Elevator safety controls. 2,924,297, 2-9-60, Cl. 187-28.
- Brandon, Chester, to United States of America, Navy. Optical scanning system. 2,942,514, 6-28-60, Cl. 88-1.
- Brandon, Clarence W. Automatic gear clearance adjusting mechanism for differentials. 2,924,125, 2-9-60, Cl. 74-713.
- Brandon, Clarence W. Apparatus for fractionating and refrigerating with or by miscible fluids. 2,952,985, 9-20-60, Cl. 62-37.
- Brandon, David B., to Minnesota Mining and Mfg. Co. Low temperature method for producing chlorofluoro acid halides. 2,950,300, 8-23-60, Cl. 260-408.
- Brandon, John R., to Burlington Industries, Inc. Box loom. 2,919,723, 1-5-60, Cl. 139-170.3.
- Brandon, Percy S.: See—
- Wright, Peter M., and Brandon. 2,933,725.
- Wright, Peter M., and Brandon. 2,965,896.
- Brandstädt, Wilhelm, and H. Wlokka, to VEB Funkwerk Erfurt. Metal-coated ceramic article and process for producing the same. 2,928,755, 3-15-60, Cl. 117-22.
- Brandstadter, Jack, to Bendix Aviation Corp. Parallel hydraulic control system. 2,940,428, 6-14-60, Cl. 121-41.
- Brandstadter, Jack M., and J. E. Taylor, to Cadillac Gage Co. Hydraulic control system for providing an hydraulic pressure output proportional to a continuously variable condition. 2,929,391, 3-22-60, Cl. 137-85.
- Brandstadter, Jack M., and C. W. McWilliams, to Bendix Aviation Corp. Engaging means for hydraulic servo system. 2,944,524, 7-12-60, Cl. 121-38.
- Brandt Automatic Cashier Co.: See—
- Buchholz, Arnold R. 2,937,650.
- Buchholz, Arnold R. 2,957,481.
- Buchholz, Arnold R., and Haban. 2,922,427.
- Buchholz, Arnold R., and Haban. 2,952,348.
- Farrell, Guy M. 2,921,591.
- Brandt, David B., Jr., to Westinghouse Electric Corp. Weathercocking supersonic diffuser. 2,932,945, 4-19-60, Cl. 60-35.6.
- Brandt, Denard A.: See—
- Pick, Hans H., Brandt, and Franz. 2,925,940.
- Brandt, Edgar W., to Anstalt fur die Entwicklung von Erfindungen und Gewerblichen Anwendungen Energa. Finned projectile. 2,938,460, 5-31-60, Cl. 102-56.
- Brandt, Edgar W., to Anstalt fur die Entwicklung von Erfindungen und gewerblichen anwendungen Energa. Encased projectile. 2,940,391, 6-14-60, Cl. 102-38.
- Brandt, Edgar W., to Anstalt fur die Entwicklung von Erfindungen und gewerblichen Anwendungen Energa. Percussion mechanism. 2,941,448, 6-21-60, Cl. 89-1.7.
- Brandt, Edgar W., to Anstalt fur die Entwicklung von Erfindungen und gewerblichen Anwendungen Energa. Rocket propelled projectile with detonator carrier. 2,963,972, 12-13-60, Cl. 102-49.
- Brandt, Fred H. Reinforcing and tensioning members for concrete structures. 2,941,394, 6-21-60, Cl. 72-110.
- Brandt, Herbert: See—
- Sandmann, Herbert, and Brandt. 2,951,686.
- Brandt, Howard C., to General Motors Corp. Free wheeling ball nut and screw assembly. 2,933,939, 4-26-60, Cl. 74-124.8.
- Brandt, Lawrence: See—
- Trojanowski, George, and Brandt. 2,962,764.
- Trojanowski, George, and Brandt. 2,962,767.
- Brandt, Otto W., and P. West, to General Motors Corp. Method of defining sand cores. 2,929,120, 3-22-60, Cl. 22-194.
- Brandt, Paul W., and A. H. Swart. Portable hydraulic hay stacking crib. 2,932,299, 4-12-60, Cl. 130-20.
- Brandt, Raymond W., to The Goodyear Tire & Rubber Co. Electronic temperature regulation for vulcanizing tires. 2,957,066, 10-18-60, Cl. 219-20.
- Brandt, Robert E.: See—
- Schaab, Rudolph S., and Brandt. 2,934,809.
- Brandt, Vernon J. Releasable tool mounting apparatus. 2,923,426, 2-2-60, Cl. 214-674.
- Brane, Earl P. Broiler apparatus. 2,920,177, 1-5-60, Cl. 219-35.
- Brane, Maxwell D., to Westinghouse Electric Corp. Motor control for steering vehicle. 2,962,642, 11-29-60, Cl. 318-55.
- Braneky, Stephen. Air cooling system. 2,958,207, 11-1-60, Cl. 62-168.
- Branford Co., The: See—
- Johnson, Arthur R., and Kern. 2,933,068.
- Brannick, Charles E. Screw type tire spreader. 2,919,893, 1-5-60, Cl. 254-50.4.
- Brannick, Charles E. Locking means for collapsible curing rims. 2,933,764, 4-26-60, Cl. 18-43.
- Brannick, Charles E. Vertically expanding tire spreader. 2,939,678, 6-7-60, Cl. 254-50.3.
- Brannick, Charles E. Curing rim for pneumatic tire casings. 2,940,124, 6-14-60, Cl. 18-45.
- Brannin, Franklin H., Jr., to Shell Oil Co. Phase discriminating system. 2,939,077, 5-31-60, Cl. 324-61.
- Brannan, Lawrence P. Laminated disposable ash tray. 2,947,441, 8-2-60, Cl. 220-63.
- Brannas, Roy A. Hydraulic limit valve. 2,942,621, 6-28-60, Cl. 137-624.
- Brannen, Cecil G.: See—
- Wuellner, James A., and Brannen. 2,965,572.
- Brannick, John, to General Motors Corp. Air conditioner with compact centrifugal fan arrangement. 2,952,995, 9-20-60, Cl. 62-295.
- Brannin, Richard S., C. D. Burdick, E. R. Tribken, and R. G. Steuer, to Sperry Rand Corp. Flight control system. 2,961,199, 11-22-60, Cl. 244-76.
- Branning, George G., and R. A. Espinoza. Moving van. 2,946,601, 7-26-60, Cl. 280-46.
- Brannock, Charles F. Foot measuring device. 2,942,344, 6-28-60, Cl. 33-3.
- Brannock, Kent C., to Eastman Kodak Co. Substituted unsaturated aldehydes. 2,947,786, 8-2-60, Cl. 260-598.
- Brannock, Kent C., to Eastman Kodak Co. Process of preparing 2-isobutyl-1,5-pentanediol. 2,960,540, 11-15-60, Cl. 260-635.
- Brannock, Kent C., to Eastman Kodak Co. Process of preparing 2-isobutyl, 1,5-pentanediol. 2,964,571, 12-13-60, Cl. 260-635.
- Brannock, Kent C., C. W. Hargis, and H. S. Young, to Eastman Kodak Co. Vapor-phase process for the production of 2,2-dialkyl-4-pentenals. 2,957,028, 10-18-60, Cl. 260-601.
- Brannon, Hezzie R., Jr., to Jersey Production Research Co. Method and apparatus for pulsing a scintillation detector. 2,951,941, 9-6-60, Cl. 250-71.5.
- Brannon, Roland L.: See—
- Martin, Lynn P., Thompson, Brannon, and Ross. 2,949,609.
- Brannon, Roland L., to W. A. Shaeffer Pen Co. Writing implements. 2,957,452, 10-25-60, Cl. 120-42.03.
- Branom, John, to Standard Alfalfa Milling Co. Method for producing animal feed. 2,949,362, 8-16-60, Cl. 99-88.
- Branscomb, Charles E., to International Business Machines Corp. High speed mechanical motion. 2,927,636, 3-8-60, Cl. 164-111.
- Branscombe, Kenneth P.: See—
- Trudnak, Michael J., Jr., and Branscombe. 2,964,746.
- Branson, Charles D.: See—
- Ross, Edward J., and Branson. 2,963,566.
- Branson, Ranie L. Harrow-cultivator. 2,936,839, 5-17-60, Cl. 172-200.
- Brant, Russell G.: See—
- Adams, Donald D., and Brant. 2,928,442.
- Brant, Victor L., to D-X Sunray Oil Co. Process for treating acid sludge. 2,965,558, 12-20-60, Cl. 208-13.
- Brantingson, Sigure, to Brin Mfg. Co., Inc. Push button switch. 2,938,985, 5-31-60, Cl. 200-159.
- Brantley, John C., to Union Carbide Corp. Organo-niobium compounds. 2,921,948, 1-19-60, Cl. 260-429.
- Brantley, John C., to Union Carbide Corp. Sulfur-vulcanizable rubber composition. 2,943,073, 6-28-60, Cl. 260-41.5.
- Brasch, Arno, W. Huber, and A. Waly, to Electronized Chemical Corp. Method of sterilizing. Re. 24,814, 4-26-60, Cl. 99-221.
- Brasch, Edgar W., Jr., to Phillips Petroleum Co. Pelletting of carbon black. 2,962,763, 12-6-60, Cl. 18-48.
- Brase, George, 20% to A. F. Jones. Wrench for inserting or removing pipe union nipples. 2,943,522, 7-5-60, Cl. 81-53.
- Brase, George, 20% to A. F. Jones. Broken nipple extractor. 2,951,406, 9-6-60, Cl. 81-71.
- Brasel, Jesse R., to Walworth Co. Valve indicator. 2,930,344, 3-29-60, Cl. 116-125.
- Brasen, Wallace R., to E. I. du Pont de Nemours and Co. Fluorinated tricyclononanes and tetracycloundecanes. 2,928,865, 3-15-60, Cl. 260-464.
- Brash, Frederick L., to General Motors Corp. Combined test and safety valve. 2,922,436, 1-26-60, Cl. 137-523.
- Brash, Mark P., E. F. Coleman, and J. F. McMann. Chemical removal of zinc coating from iron. 2,951,768, 9-6-60, Cl. 117-37.
- Brashear, Oliver R.: See—
- Stuart, Frank A., and Brashear. 2,945,812.
- Brashear, Roy T., to Phillips Petroleum Co. Differential chopper-amplifier. 2,951,211, 8-30-60, Cl. 332-9.
- Brashear, Roy T., to Phillips Petroleum Co. Mass spectrometer and method. 2,954,470, 9-27-60, Cl. 250-41.9.
- Braskamp, Willem H., to N.V. Industriële Onderneming W. H. Braskamp. Window or ring ventilator. 2,933,241, 4-19-60, Cl. 230-259.
- Braskamp, Willem H., to N.V. Industriële Onderneming W. H. Braskamp. Drying helmet. 2,964,853, 12-20-60, Cl. 34-100.



- Brassel, Jakob, A. Fasciati, R. Gunst, and W. von Krannichfeldt, to Ciba Ltd. Dyestuffs containing both azo-chromophores and quinone chromophores. 2,938,024, 5-24-60, Cl. 260—153.
- Brasseur, Eudore, to Ateliers de Constructions Electriques de Charleroi. Sound support driving mechanism in a sound recording reproducing apparatus. 2,922,654, 1-26-60, Cl. 274—11.
- Brasseur, Eudore, to Ateliers de Constructions Electriques de Charleroi. Sound recording and reproducing apparatus. 2,922,655, 1-26-60, Cl. 274—13.
- Brasseur, Eudore, to Ateliers de Constructions Electriques de Charleroi. Sound recording and reproducing apparatus. 2,964,324, 12-13-60, Cl. 274—4.
- Bratfisch, Gerhard: *See—*
- Gibian, Heinz, and Bratfisch. 2,950,227.
- Bratschi, Raymond W., to Sperry Rand Corp. Automatic gain control circuit. 2,960,661, 11-15-60, Cl. 330—127.
- Bratt, Lars C., A. J. Leffer, and G. A. Louis. Purification of BCLs with aluminum chloride. 2,920,942, 1-12-60, Cl. 23—205.
- Brauen, John H.: *See—*
- Schlage, Ernest L., and Brauen. 2,940,293.
- Brauer, Edwin H., Jr.: *See—*
- Cole, Lyndon C., and Brauer. 2,951,254.
- Brauer, Frank M., to Avco Mfg. Corp. Electronic servo system for frequency control. 2,958,768, 11-1-60, Cl. 250—13.
- Brauer, Frederick N., to Philco Corp. Transistor multivibrator. 2,920,216, 1-5-60, Cl. 307—88.5.
- Brauer, Gerhard M., to United States of America, Commerce. Cements from metal oxides and chelating agents. 2,936,242, 5-10-60, Cl. 106—35.
- Braut, Andre R., to OPTOMECHANISMS, Inc. Clock dial for reduced photographing. 2,949,005, 8-16-60, Cl. 58—127.
- Braumiller, Jack, Jr., K. D. Cowan, and E. Krawzak, to United States of America, Air Force. Gyro control system. 2,955,473, 10-11-60, Cl. 74—5.6.
- Braun, Adolph F., to General Motors Corp. Carburetor. 2,929,613, 3-22-60, Cl. 261—41.
- Braun, Adolph F., to General Motors Corp. Four barrel carburetor. 2,941,788, 6-21-60, Cl. 261—23.
- Braun, Alfred: *See—*
- Braun, Frederick W. and A. 2,935,212.
- Braun, Anton, to Queen's University. Synchronizing mechanism for internal combustion free piston engines. 2,949,101, 8-16-60, Cl. 123—46.
- Braun, Anton. Internal combustion free piston engine. 2,952,251, 9-13-60, Cl. 123—46.
- Braun, Anton. Free piston engine. 2,956,555, 10-18-60, Cl. 123—46.
- Braun, C. F., & Co.: *See—*
- Haight, Howard N. 2,919,906.
- Braun, Dieter: *See—*
- Gehrer, Rudolf, and Braun. 2,932,372.
- Braun, Dieter, to Fortuna-Werke Spezialmaschinenfabrik A.-G. Dust filter. 2,935,158, 5-3-60, Cl. 183—67.
- Braun, Dieter, to Fortuna Werke Spezialmaschinenfabrik A.-G. Suction pipe for the removal of waste material in leather skiving machines equipped with rotating bell knife. 2,938,369, 5-31-60, Cl. 69—9.5.
- Braun, Edmund A. Film guard. 2,935,190, 5-3-60, Cl. 206—52.
- Braun, Francois. Movable vehicle seat. 2,922,461, 1-26-60, Cl. 155—9.
- Braun, Frederick W. and A. Feed mechanism for an automatic machine. 2,935,212, 5-3-60, Cl. 214—1.
- Braun, G. A., Inc.: *See—*
- Heft, Robert G., O'Neill, and D'Agostino. 2,954,689.
- Braun, Gunther: *See—*
- Moller, Friedrich, Muller, Hoppe, and Brun. 2,941,967.
- Muller, Erwin, and Braun. 2,961,428.
- Braun, Helmut: *See—*
- Karnavas, Esidoros C., Cornelison, and Braun. 2,962,058.
- Braun, Herman J., and G. H. Stearley, to Westinghouse Electric Corp. Control systems for generators. 2,920,261, 1-5-60, Cl. 322—25.
- Braun, Oskar, and K. Winz, to G. M. Pfaff, A.G. Switching means for button clamp on sewing machines for sewing on of buttons. 2,963,999, 12-13-60, Cl. 112—76.
- Braun, Paul E., to Ford Motor Co. Fuel injection system. 2,935,060, 5-3-60, Cl. 123—139.
- Braun, Philip N. Identification marking machine. 2,953,086, 9-20-60, Cl. 101—95.
- Braun, Philip N. Identification marking machine employing heated type. 2,961,945, 11-29-60, Cl. 101—96.
- Braun, Poul B.: *See—*
- Jonker, Gerard H., Wijn, and Braun. 2,946,752.
- Jonker, Gerard H., Wijn, and Braun. 2,946,753.
- Jonker, Gerard H., Wijn, and Braun. 2,955,085.
- Braun, Ralph V., to Kimberly-Clark Corp. Treatment of cellulosic pulps. 2,940,890, 6-14-60, Cl. 162—111.
- Braun, Walter G.: *See—*
- Fenske, Merrell R., and Braun. 2,920,120.
- Braun, Willi, H. Jansen, and B. Scholl, to Zimmerman & Jansen G.m.b.H. Electrically operated stove changing control apparatus for blast furnaces. 2,931,635, 4-5-60, Cl. 263—19.
- Braun, Willy, E. Hartwig, J. Elsele, and W. Federkiel, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Dyeing and printing of synthetic high polymeric polyesters. 2,957,745, 10-25-60, Cl. 8—55.
- Braund, Charles L. and G. L. Antenna rotating apparatus. 2,939,335, 6-7-60, Cl. 74—507.
- Braund, Gordon L.: *See—*
- Braund, Charles L. and G. L. 2,939,335.
- Braund, Richard J., to Eastman Kodak Co. Tear detector. 2,936,615, 5-17-60, Cl. 73—157.
- Braunersreuther, Eberhard: *See—*
- Kührt, Friedrich, and Braunersreuther. 2,956,209.
- Braunlich, Richard H., to American Viscose Corp. Gas solid contact. 2,923,378, 2-2-60, Cl. 183—114.2.
- Braunschweig, Georges: *See—*
- Marti, Frédéric, and Braunschweig. 2,958,180.
- Braunschweigische Maschinenbauanstalt: *See—*
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- Kaether, Willy. 2,954,790.
- Kaether, Willy, and Mushack. 2,924,541.
- Braunschweigische Maschinenbauanstalt Aktiengesellschaft: *See—*
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- Braunstein, Frank E., and D. L. Donville, to Western Electric Co., Inc. Testing apparatus. 2,941,053, 6-14-60, Cl. 200—46.
- Braunwarth, John B., and G. W. Crosby, to The Pure Oil Co. Preparation of tetracarboxylic acids and diketocarboxylic acids. 2,933,525, 4-19-60, Cl. 260—537.
- Braunwarth, John B., and G. W. Crosby, to The Pure Oil Co. 2-ethylhexyl 6-(2-ethylhexoxy)hexanoate. 2,936,856, 5-17-60, Cl. 184—1.
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- Brautigam, Richard H., and C. R. Cunningham, to Owens-Corning Fiberglass Corp. High speed rotary means for linearly feeding a continuous multifilament strand. 2,935,179, 5-3-60, Cl. 203—399.
- Bravenec, Frank, and R. H. Huddleston, Jr., to Welex, Inc. Electromagnetic conductivity detection. 2,948,847, 8-9-60, Cl. 324—30.
- Braverman, Philip D. Tuning peg adjusting mechanism. 2,955,503, 10-11-60, Cl. 84—306.
- Braviak, Albert, to Garden City Plating & Mfg. Co. Display structure. 2,927,666, 3-8-60, Cl. 189—85.
- Bravo, Joel W., and R. H. Kilonsky, to General Aniline & Film Corp. Portable viewing device. 2,962,825, 12-6-60, Cl. 40—106.1.
- Brawley Pump Co.: *See—*
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- Braxton, Daniel. Toe straightening yoke. 2,927,579, 3-8-60, Cl. 128—81.
- Bray, Frederick H., and R. G. Knight, to International Standard Electric Corp. Automatic telecommunication exchange equipment. 2,954,438, 9-27-60, Cl. 179—18.
- Bray, Frederick H., R. G. Knight, and G. C. Hartley, to International Standard Electric Corp. Automatic telecommunication systems. 2,960,575, 11-15-60, Cl. 179—18.
- Bray, Herschel V., to Alton Box Board Co. Cleat reinforced paperboard containers. 2,920,809, 1-12-60, Cl. 229—49.
- Bray, John R., and T. W. McGlaughlin, to The Chemstrand Corp. Control circuit. 2,958,008, 10-25-60, Cl. 315—194.
- Bray, McKinley. Support structure for boat propelling and maneuvering device. 2,955,788, 10-11-60, Cl. 248—4.
- Bray, Murel B. Combination hair clipper. 2,946,123, 7-26-60, Cl. 30—219.
- Bray Oil Co.: *See—*
- Bray, Ulric B., and Knoch. 2,952,637.
- Bray, Richard D. Magnetic stud finder. 2,933,679, 4-19-60, Cl. 324—41.
- Bray, Ulric B., and H. H. Knoch, to Bray Oil Co. Carburetor and engine cleaning composition. 2,952,637, 9-13-60, Cl. 252—118.
- Bray, William W., Jr., and M. M. MacFarquhar, to Esso Research and Engineering Co. Recovery of gas oil from a fluid coker. 2,948,670, 8-9-60, Cl. 208—100.
- Braybrook, Clifford H., and C. R. Borley, to North American Philips Co., Inc. Apparatus for measuring angles. 2,934,824, 5-3-60, Cl. 33—1.
- Braybrook, Clifford H., and C. R. Borley, to North American Philips Co., Inc. Apparatus for measuring angles. 2,934,825, 5-3-60, Cl. 33—1.
- Brayton, Alton M.: *See—*
- Riker, Ralph W., Brayton, and Wright. 2,929,688.
- Brayton, Corey C.: *See—*
- Bosworth, Melvin B., and Brayton. 2,931,117.
- Brazel, Herbert W. Card printing device. 2,947,245, 8-2-60, Cl. 101—114.
- Braze, Earl H. Paper clamp for a copy holder. 2,923,991, 2-9-60, Cl. 24—66.
- Brazier, Jack H., to Akron Brass Mfg. Co., Inc. Bypass proportioner. 2,953,160, 9-20-60, Cl. 137—599.1.
- Brazier, Joseph G.: *See—*
- Smith, Apollo M. O. and Brazier. 2,954,949.
- Breadner, Robert L., and C. H. Simms, to The General Electric Co. Ltd. Methods of sealing a tubular glass neck portion to a glass wall. 2,922,256, 1-26-60, Cl. 49—82.
- Bready Tractor & Implement Co.: *See—*
- Lee, Robert A., Jr. 2,926,736.
- Breakell, James H., to American Viscose Corp. Method and apparatus for drying fibrous material. 2,920,397, 1-12-60, Cl. 34—28.
- Brear, Norman H., to The British Petroleum Co. Ltd. Liquid supply apparatus. 2,938,535, 5-31-60, Cl. 137—351.
- Brearley, Arthur R.: *See—*
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- Brearily Co., The: See—  
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- Brearley, Donald W., to International Business Machines Corp. Elapsed time computer. 2,935,252, 5-3-60, Cl. 235-61.6.
- Brehlick, Julius L., and T. P. Whaley, to Ethyl Corp. Metal dispersions. 2,927,849, 3-8-60, Cl. 52-5.
- Brebner, Donald L., W. M. Edwards, I. M. Robinson, E. N. Squire, and H. W. Starkweather, Jr., to E. I. du Pont de Nemours and Co. Glass-reinforced thermoplastic resin compositions based on synthetic linear polypyromellitimides. 2,944,993, 7-12-60, Cl. 260-37.
- Brebner, George B., to The Weston Paper and Mfg. Co. Handed basket. 2,921,730, 1-19-60, Cl. 229-52.
- Brech, Hubertus J. J.: See—  
Van Gool, Willem, Van Santen, and Brech. 2,957,152.
- Breck, Donald W.: See—  
Milton, Robert M., and Breck. 2,920,122.
- Breck, Donald W., and N. A. Acara, to Union Carbide Corp. Crystalline zeolite T. 2,950,952, 8-30-60, Cl. 23-113.
- Breck, Donald W., and N. A. Acara, to Union Carbide Corp. Crystalline zeolite E. 2,962,355, 11-29-60, Cl. 23-113.
- Breck, John H., Inc.: See—  
Rosmarin, Philip F. 2,960,443.
- Breckman, Jack, to United States of America, Army. Precise analogue store and impedance transformer. 2,920,193, 1-5-60, Cl. 250-27.
- Breda Meccanica Bresciana S.p.A.: See—  
Fiorini, Steltio. 2,951,423.
- Bredesen, Philip N. Fire alarm system. 2,922,147, 1-19-60, Cl. 340-227.
- Bredeson, Oliver. Cultivating and seeding apparatus. 2,919,665, 1-5-60, Cl. 111-67.
- Bredtschneider, Kurt B., and H. C. Laird, to Crane Co. Elastic seal valve. 2,930,577, 3-29-60, Cl. 251-200.
- Bredtschneider, Kurt B., M. Drewes, Jr., H. C. Laird, and F. M. Onak, to Crane Co. Pipe coupling. 2,933,333, 4-19-60, Cl. 285-3.
- Bredtschneider, Kurt B., and F. M. Onak, to Crane Co. Valve lock. 2,945,504, 7-19-60, Cl. 137-72.
- Bredtschneider, Kurt E. B., to Crane Co. Apparatus for removing metal from crucibles. 2,963,725, 12-13-60, Cl. 15-104.1.
- Breeback, Rudolph H., to Crown Cork & Seal Co., Inc. Filling machine. 2,953,169, 9-20-60, Cl. 141-6.
- Breed, Arie E.: See—  
Gustafson, Blaine W., and Breed. 2,957,299.
- Breed, Roland N., W. B. Groth, G. C. Irwin, L. A. Kille, and G. Riggs, to Bell Telephone Laboratories, Inc. Tape-to-card converter circuit. 2,946,984, 7-26-60, Cl. 340-168.
- Breeding, David C., to Bendix Aviation Corp. Control for a fuel supply system. 2,927,567, 3-8-60, Cl. 123-119.
- Breeding, Harold A., and E. C. Martt, to General Electric Co. Series electric lamp. 2,950,417, 8-23-60, Cl. 315-75.
- Breelle, Yves, to Institut Francais du Pétrole, des Carburants et Lubrifiants. Rotary internal combustion engine. 2,920,610, 1-12-60, Cl. 123-13.
- Breelle, Yves, to Institut Francais du Pétrole des Carburants et Lubrifiants. Rotary compressor system. 2,920,814, 1-12-60, Cl. 230-139.
- Bréelle, Yves, to Institut Francais du Pétrole, des Carburants et Lubrifiants. Rotary compressor. 2,956,735, 10-18-60, Cl. 230-150.
- Breelle, Yves L. G., to Institut Francais du Pétrole, des Carburants et Lubrifiants. Rotary engine. 2,927,560, 3-8-60, Cl. 123-13.
- Breen, Alvin L., to E. I. du Pont de Nemours and Co. Crimped textile filament. 2,931,091, 4-5-60, Cl. 28-82.
- Breer, Carl. Body appliance. 2,944,551, 7-12-60, Cl. 128-295.
- Breer, Carl, and P. P. Gores; said Gores assor. to said Breer. Bipod camera support. 2,932,481, 4-12-60, Cl. 248-355.
- Breer, Karl: See—  
Weinbrenner, Erwin, Hoppe, Breer, and Kisteneich. 2,935,100.
- Breese, David, and F. B. Vavrinek, to Western Electric Co., Inc. Method of reclaiming diamonds from industrial metal tools. 2,961,356, 11-22-60, Cl. 134-28.
- Breese, James L., to Controls Co. of America. Air circulating fan for heating systems. 2,933,240, 4-19-60, Cl. 230-259.
- Breese, Lemuel R., to North Electric Co. Supervisory control system. 2,944,247, 7-5-60, Cl. 340-163.
- Breese, Maurice E., and P. J. Sferrazza, to Sperry Rand Corp. Microwave filter. 2,961,619, 11-22-60, Cl. 333-10.
- Breeze Corporations, Inc.: See—  
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Nardone, Romeo M. 2,926,867.
- Breeze, J. J.: See—  
Bush, Raymond C. 2,939,438.
- Bregar, Joseph C., to Western Electric Co., Inc. Method and apparatus for adjusting magnetometers. 2,958,819, 11-1-60, Cl. 324-43.
- Brehm, Allen E.: See—  
Field, Ellis K., and Brehm. 2,933,379.
- Brehm, Allen E., to Standard Oil Co. Anti-rust compositions. 2,948,598, 8-9-60, Cl. 44-66.
- Breidenbach, Josef: See—  
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- Breidert, G. C., Co., The: See—  
Breidert, George C. and G. M. 2,922,354.  
Breidert, George M. 2,933,036.
- Breidert, George C. and G. M., to The G. C. Breidert Co. Ventilator. 2,922,354, 1-26-60, Cl. 98-80.
- Breidert, George M.: See—  
Breidert, George C. and G. M. 2,922,354.
- Breidert, George M., to The G. C. Breidert Co. Ventilating device. 2,933,036, 4-19-60, Cl. 98-43.
- Breier, Irwin L., H. A. Cheney, and R. F. Knott, to Shell Oil Co. Production of diarylmethanes. 2,937,212, 5-17-60, Cl. 260-608.
- Breil, Gunther: See—  
Pieper, Hans, Ebert, and Breil. 2,925,326.
- Breining, Elmer R., to Union Carbide Corp. Gas plating of alloys. 2,966,427, 12-27-60, Cl. 117-106.
- Breining, Elmer R., W. M. Bolton, and F. O. Deutscher, to Union Carbide Corp. Aluminum plating. 2,929,739, 3-22-60, Cl. 117-107.
- Breitenbach, Johann W., and H. Edelhauser, to W. R. Grace & Co. Process of producing block copolymers of N-vinyl pyrrolidone. 2,927,102, 3-1-60, Cl. 260-87.5.
- Breitenstein, Charles T.: See—  
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- Breithaupt, Donald E., Slider for slide fasteners. 2,923,993, 2-9-60, Cl. 24-205.14.
- Breitkreutz, Emma B. Fowl restraining devices. 2,952,031, 9-13-60, Cl. 17-11.
- Breitkreutz, Emma B. Devices for killing fowl. 2,952,032, 9-13-60, Cl. 17-11.
- Bremer, Dick, to United States Rubber Co. Coiling machine. 2,930,539, 3-29-60, Cl. 242-54.
- Bremer, Edgar W. Automatic tractor hitch. 2,920,907, 1-12-60, Cl. 280-477.
- Bremer, Norman C., to Morse Chain Co. Irreversible drive. 2,934,188, 4-26-60, Cl. 192-8.
- Bremer, Robert D., to General Motors Corp. Domestic appliance. 2,948,801, 8-9-60, Cl. 219-37.
- Brems, John H.: See—  
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- Bremshey & Co.: See—  
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- Bremshey, Fritz: See—  
Muller, Karl. 2,957,588.
- Bren, Eunice M., to Munsingwear, Inc. Garments. 2,941,210, 6-21-60, Cl. 2-115.
- Brendel, Friedrich, to Bremshey & Co. Seats for motor vehicles. 2,953,191, 9-20-60, Cl. 155-51.
- Brendel, Gottfried: See—  
Burg, Anton B., and Brendel. 2,959,620.
- Brender, Jack P. Camp stove. 2,922,414, 1-26-60, Cl. 126-9.
- Brenholdt, Irving R., to Farrand Optical Co., Inc. Image signal noise suppression. 2,961,574, 11-22-60, Cl. 315-11.
- Brenker, Hans, to Neoplastik Braunschweiger Kunststoffwerk G.m.b.H. Closure means for bags. 2,951,273, 9-6-60, Cl. 24-30.5.
- Brennan, Alan T., to General Dynamics Corp. Pulse width decoder. 2,942,194, 6-21-60, Cl. 328-112.
- Brennan, Charles M., Jr. Straight beam clamp with an adjustable self-locking jaw. 2,923,334, 2-2-60, Cl. 144-303.
- Brennan, Elmer W.: See—  
Crosby, Gifford W., Millikan, and Brennan. 2,948,682.  
Martinek, Thomas W., Brennan, and Fronczak. 2,959,543.  
Martinek, Thomas W., Brennan, and Fronczak. 2,960,467.
- Brennan, Elmer W., to The Pure Oil Co. Anti-rust lubricating oil. 2,921,027, 1-12-60, Cl. 252-32.7.
- Brennan, Elmer W., E. T. Fronczak, and T. W. Martinek, to The Pure Oil Co. Method for preparation of emulsion type pigmented metal drawing compounds. 2,965,567, 12-20-60, Cl. 252-18.
- Brennan, Harry M.: See—  
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Feller, Morris, Brennan, and Seelig. 2,960,550.  
Malo, Russell V., and Brennan. 2,939,848.
- Brennan, Harry M., to Standard Oil Co. Impregnated platinum-alumina catalysts for use in the hydroforming of hydrocarbons. 2,948,672, 8-9-60, Cl. 208-139.
- Brennan, Harry M., and E. Field, to Standard Oil Co. Preparation of alumina extrudates. 2,925,394, 2-16-60, Cl. 252-466.
- Brennan, Harry M., and E. Field, to Standard Oil Co. Impregnated platinum-alumina catalysts. 2,940,924, 6-14-60, Cl. 208-138.
- Brennan, Harry M., and E. Field, to Standard Oil Co. Platinum-alumina catalysts and their use. 2,950,243, 8-23-60, Cl. 208-138.
- Brennan, Harry M., R. W. Vander Haar, and E. Field, to Standard Oil Co. Platinum-alumina catalysts. 2,959,536, 11-8-60, Cl. 208-137.
- Brennan, Helen E.: See—  
Brennan, Joseph B. 2,931,082.  
Brennan, Joseph B. 2,959,829.  
Brennan, Joseph B. 2,964,400.  
Brennan, Joseph B. 2,965,513.
- Brennan, John R., and P. S. Bloudoff, to The National Supply Co. Pressure fluid-operated pump structure. 2,921,531, 1-19-60, Cl. 103-46.
- Brennan, John R., and P. S. Bloudoff, to The National Supply Co. Downwell pump. 2,959,136, 11-8-60, Cl. 103-155.
- Brennan, Joseph B., deceased; H. E. Brennan, executrix. Casting method and apparatus. 2,931,082, 4-5-60, Cl. 22-200.1.



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- Brennan, Joseph B., deceased; H. E. Brennan, executrix. Method of and apparatus for making articles from powdered metal briquets. 2,964,400, 12-13-60, Cl. 75—221.
- Brennan, Joseph B., deceased; H. E. Brennan, executrix. Formation of metal strip under controlled pressure. 2,965,513, 12-20-60, Cl. 117—93.
- Brennan, Joseph H., and C. G. Chadwick, to Union Carbide Corp. Process for elimination of sulfur from metals. 2,959,784, 6-7-60, Cl. 75—130.5.
- Brennan, Joseph H., and E. R. Saunders, to Union Carbide Corp. Ferrochromium-aluminum alloy. 2,946,676, 7-26-60, Cl. 75—27.
- Brennan, Lawrence: *See*—  
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- Brennan, Paul H. Automobile air conditioner. 2,932,177, 4-12-60, Cl. 62—244.
- Brennan, Thomas F., and R. J. White, to American Can Co. Multiple container package. 2,963,194, 12-6-60, Cl. 220—23.83.
- Brenneisen, Erich, R. Huss, and A. Siebert, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Disazo-dyestuffs containing metal. 2,951,069, 8-30-60, Cl. 260—147.
- Brenneke, Arthur M., to Perfect Circle Corp. Piston ring. 2,951,732, 9-6-60, Cl. 309—45.
- Brenneman, Andrew E., R. B. De Lano, Jr., and D. R. Young, to International Business Machines Corp. Ferroelectric memory system. 2,955,281, 10-4-60, Cl. 340—173.
- Brenneman, Rexford W.: *See*—  
Lockwood, Edwin H., and Brenneman. 2,946,876.
- Brenneman, Roderick L. Lift truck. 2,957,594, 10-25-60, Cl. 214—620.
- Brennen, Ronald F., and J. A. Buccì. Welding electrode feeding apparatus. 2,950,381, 8-23-60, Cl. 219—127.
- Brenner, Abner: *See*—  
De Minjer, Clara H., and Brenner. 2,929,742.
- Brenner, Carl M., and H. R. Rickenbacher, to Geigy Chemical Corp. Alpha-oximino-epsilon caprolactam. 2,938,029, 5-24-60, Cl. 260—239.3.
- Brenner, Carl M., and H. R. Rickenbacher, to Geigy Chemical Corp. Process for the production of D, L-a-amino-caprolactam. 2,955,109, 10-4-60, Cl. 260—239.3.
- Brenner, Harry S.: *See*—  
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- Brenner, Morris, to Penn-Union Electric Corp. Connector. 2,956,108, 10-11-60, Cl. 174—94.
- Brenner, Paul, to Vereinigte Leichtmetall-Werke G.m.b.H. Clad metal body and method of making the same. 2,937,435, 5-24-60, Cl. 29—196.2.
- Brenner, Robert: *See*—  
Schnell, Paul, Cobb, Brenner, and Krolzick. 2,931,200.
- Brent, Robert G., to Bell Helicopter Corp. Hydraulic control system. 2,935,849, 5-10-60, Cl. 60—51.
- Brenz, Otto, Co.: *See*—  
Webster, Milo E. 2,954,024.
- Brereton, Gilbert. Harvesting and decorticating machines. 2,952,044, 9-13-60, Cl. 19—12.
- Bresce, Dick P., to Phillips Petroleum Co. Apparatus and method for producing liquid fertilizer. 2,952,531, 9-13-60, Cl. 71—41.
- Bresce, Francys C.: *See*—  
Lam, Shek Y. 2,956,971.
- Bresce, Fred, Jr.: *See*—  
Lam, Shek Y. 2,956,971.
- Breslaw, Jack. Grappler. 2,959,445, 11-8-60, Cl. 294—86.
- Breslaw, Alfred. Article of clothing having concealed slide fastener. 2,962,725, 12-6-60, Cl. 2—265.
- Bresler, Louis L. Desk pad and holder. 2,965,394, 12-20-60, Cl. 281—15.
- Breslow, David S., to Hercules Powder Co. Polymerization of ethylene using as a catalyst the product formed by mixing a bis (cyclopentadienyl) zirconium salt with an alkyl metallic compound. 2,924,593, 2-9-60, Cl. 260—94.9.
- Breslow, David S., to Hercules Powder Co. Polymerization of ethylene using as catalyst the product formed by mixing a bis (cyclopentadienyl) vanadium salt with an alkyl metallic compound. 2,924,594, 2-9-60, Cl. 260—94.9.
- Breslow, David S., and A. S. Matlack, to Hercules Powder Co. Process for polymerization of ethylene with a titanium monoxide catalyst. 2,961,435, 11-22-60, Cl. 260—94.9.
- Bretford Mfg., Inc.: *See*—  
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- Breth, Ferdinand W.: *See*—  
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- Miley, Hunter, Sonneborn, Schindler, and Breth. 2,929,683.
- Breth, James C., and G. Gallousis, to Allis-Chalmers Mfg. Co. Current transformer assembly. 2,929,037, 3-15-60, Cl. 336—174.
- Breting, Ulysses A.: *See*—  
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- Bretoi, Remus N., to Minneapolis-Honeywell Regulator Co. Spiral stability augmenters for improving aircraft spiral stability and dutch roll characteristics. 2,953,326, 9-20-60, Cl. 244—77.
- Bretoi, Remus N., to Minneapolis-Honeywell Regulator Co. Servosystem for automatic pilots. 2,953,733, 9-20-60, Cl. 318—489.
- Bretschneider, Otto, G. Jaekel, L. Bender, and K. Zieke, to Knapsack-Griesheim Aktiengesellschaft. Process for the continuous production of easily vaporizable metals. 2,920,951, 1-12-60, Cl. 75—10.
- Bretschneider, Otto, and F. Rodis, to Knapsack-Griesheim Aktiengesellschaft. Process for the thermal production of magnesium. 2,934,423, 4-26-60, Cl. 75—67.
- Brethauer, Hermann, to Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate. Photographic roll film camera. 2,949,831, 8-23-60, Cl. 95—31.
- Brethauer, Hermann, J. Mädege, and W. Krüger, to Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate. Plural range masking means for photoelectric measuring instruments. 2,926,562, 3-1-60, Cl. 88—23.
- Brethauer, Hermann, and K. Rander, to Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate. Photographic shutter and diaphragm adjusting mechanism. 2,938,440, 5-31-60, Cl. 95—10.
- Bretton, Rene J. G. Automatic firearm having inertia released breech mechanism. 2,960,011, 11-15-60, Cl. 89—182.
- Bretz, Carl A.: *See*—  
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- Breuer, Alfred, to Schloemann Aktiengesellschaft. Clutches for machine drives. 2,920,729, 1-12-60, Cl. 192—18.
- Breuers, Theo P. C., and Meyer, to Chemische Fabrik L. van der Grinten N. V. Device for separating original and copy sheets. 2,947,539, 8-2-60, Cl. 271—64.
- Breuning, Frank C. Drafting board cabinet. 2,963,332, 12-6-60, Cl. 312—231.
- Breuning, Robert. Type of cutter-bar. 2,952,171, 9-13-60, Cl. 77—58.
- Breuninger, Wolfgang: *See*—  
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- Brevets Aero-Mecaniques S.A.: *See*—  
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- Dufour, Georges. 2,961,927.
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- Maillard, Bernard. 2,924,150.
- Vickers, Roy G. 2,920,535.
- Vickers, Roy G. 2,936,677.
- Brewer, Alexander F.: *See*—  
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- Brewer, Charles P.: *See*—  
Guinn, Vincent P., and Brewer. 2,938,860.
- Brewer, Claire N. Hanger for trousers. 2,947,454, 8-2-60, Cl. 223—88.
- Brewer, Claire N., and C. O. Goss, to International Typographical Union of North America. Micrometer device for operating the movable straightedge of a line-up table, and the like. 2,942,351, 6-28-60, Cl. 33—184.5.
- Brewer, Claire N., C. O. Goss, and H. L. Ruddle, to International Typographical Union of North America. Precision ruling and scribing device for line-up tables. 2,957,244, 10-25-60, Cl. 33—32.
- Brewer, Clara C. Disposable douche device for feminine hygiene. 2,925,084, 2-16-60, Cl. 128—251.
- Brewer, Clarence T., to Dixie Cup Co. Blank for truncated conical cups. 2,949,216, 8-16-60, Cl. 229—1.5.
- Brewer, Clifton C., and E. B. Johnson. Fastener assemblies. 2,958,070, 10-25-60, Cl. 339—270.
- Brewer, George M., Jr. Attachment for wood-turning lathe. 2,919,727, 1-5-60, Cl. 142—55.
- Brewer, George R., to Hughes Aircraft Co. Electron gun. 2,936,394, 5-10-60, Cl. 315—3.5.
- Brewer, Given A.: *See*—  
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- Brewer, Hazel D., to Pittsburgh Plate Glass Co. Apparatus for forming glass fibers. 2,965,696, 12-20-60, Cl. 13—6.
- Brewer, Ward B.: *See*—  
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- Brewer, Wayne O. Control system for automotive vehicles. 2,931,244, 4-5-60, Cl. 74—484.
- Brewer, William L., Jr.: *See*—  
Murphy, Bynum E., Brewer, and Melton. Re. 24,811.
- Brewing Patents Ltd.: *See*—  
Cook, Arthur H., and Davis. 2,961,316.
- Brewington, Philip J. Pipe fitting removal device. 2,944,453, 7-12-60, Cl. 81—121.
- Brewster, Albert. Soil buffer. 2,948,345, 8-9-60, Cl. 172—49.
- Brewster, Arthur E., and P. E. Graham, to International Standard Electric Corp. Transistor oscillator with impedance transformation in feedback circuit. 2,960,666, 11-15-60, Cl. 331—109.
- Brewster, Franklin C., and R. E. Thompson, to Motorola, Inc. Automatic transmission control device. 2,933,945, 4-26-60, Cl. 74—473.
- Brewster, George F. Work holding chuck. 2,955,829, 10-11-60, Cl. 279—3.
- Brewster, Oswald C., to Aerotec Industries, Inc. Seats for conveyances. 2,933,127, 4-19-60, Cl. 155—9.
- Brewster, Oswald C., to Aerotec Industries, Inc. Seat mountings for aircraft and other conveyances. 2,959,207, 11-8-60, Cl. 155—9.
- Brey, Eugene E. Movable shelf support for kitchen cabinet or the like. 2,938,631, 5-31-60, Cl. 211—92.
- Brey, Frank W., to The New York Trust Co. and J. H. Baile, as trustees. Tension equalizer for sheet material. 2,930,270, 3-29-60, Cl. 83—437.



- Breyer, Eberhard, to Firma Beka Lufttechnik G.m.b.H. Method and apparatus for removing liquids from glass plates. 2,948,968, 8-16-60, Cl. 34-156.
- Brezinski, Julius J.: See—  
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Montagna, Amelio E., Kubler, and Brezinski. 2,953,577.
- Bricaud, Joseph M., to Schlumberger Well Surveying Corp. Apparatus for exploring boreholes. 2,940,177, 6-14-60, Cl. 33-205.5.
- Brice, Roberta S.: See—  
Bensel, Duryea. 2,933,229.
- Richard, Edgard, to Union des Verreries Mecaniques Belges Societe Anonyme. Glass drawing apparatus. 2,963,820, 12-13-60, Cl. 49-17.
- Brick, Robert M., to Continental Can Co., Inc. Aluminum cladding process and apparatus. 2,926,103, 2-23-60, Cl. 117-51.
- Bricker, Robert E., to Landis Tool Co. Stopping a rotating member in a predetermined angular position. 2,926,471, 3-1-60, Cl. 51-237.
- Brickman, A. W.: See—  
Dugan, Le Roy, Jr., and Kraybill. 2,926,092.
- Brickman, Alan E. Method of making post-stressed reinforced cement-concrete structures. 2,950,517, 8-30-60, Cl. 25-153.
- Brickman, Alan E., to United States Steel Corp. Means for fastening a brake cable assembly to bracket. 2,954,248, 9-27-60, Cl. 287-20.
- Briden, Horace, to The General Electric Co. Ltd. Mechanisms for producing rotational movement of a mass about an axis with a periodic reversal of the direction of rotation. 2,945,384, 7-19-60, Cl. 74-25.
- Bridgeford, Jack E.: See—  
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- Bridgeman, Oscar C., to Phillips Petroleum Co. Method and apparatus for supplying inert gases to spaces in aircraft while in flight. 2,952,428, 9-13-60, Cl. 244-135.
- Bridgeport Brass Co.: See—  
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- Steer, Donald E. 2,938,561.
- Bridgeport Machines, Inc.: See—  
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- Bridgeport Metal Goods Mfg. Co. The: See—  
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- Bridges, Charles P. Blender apparatus. 2,947,524, Cl. 259-6.
- Bridges, George, to Sparklets Ltd. Applicators. 2,965,100, 12-20-60, Cl. 128-208.
- Bridges, Jack E., to Zenith Radio Corp. Secrecy television decoding arrangement and method of operating the same. 2,966,543, 12-27-60, Cl. 178-5.1.
- Bridges, Joseph P., to Cypress Gardens Skis Inc. Marine tow rope elevator. 2,924,193, 2-9-60, Cl. 114-235.
- Bridges, Robert M., E. W. Rudy, and J. A. Rummell, to Bendix Aviation Corp. Sound ranging system. 2,946,980, 7-26-60, Cl. 340-6.
- Bridges, Ronald P., to A. B. Chance Co. Switch. 2,963,561, 12-6-60, Cl. 200-48.
- Bridges, Zaye M. Whirling toy. 2,950,565, 8-30-60, Cl. 46-51.
- Bridwell, Harold C.: See—  
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Blood, Robert H., and Bridwell. 2,942,667.
- Brieche, Joseph, to Scovill Mfg. Co. Check valve plug. 2,932,531, 4-12-60, Cl. 285-110.
- Bried, Julien A. Vertical slat blind suspension. 2,932,351, 4-12-60, Cl. 160-176.
- Briede, Arthur F.: See—  
Boone, Wallace D., and Briede. 2,965,116.
- Brieger, Emmet F., and R. Q. Fields, to Schlumberger Well Surveying Corp. Formation testers. 2,965,176, 12-20-60, Cl. 166-100.
- Brierley, Kenneth. Powder-compressing machines. 2,943,651, 7-5-60, Cl. 141-74.
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- Briggs, Earl C., to Sharpe Mfg. Co. Paint spray gun. 2,934,246, 4-26-60, Cl. 222-400.7.
- Briggs Filtration Co. The: See—  
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- Briggs, George R., to Radio Corp. of America. Magnetic systems. 2,963,687, 12-6-60, Cl. 340-174.
- Briggs, Glenford E. Cigarette packaging. 2,939,600, 6-7-60, Cl. 216-29.
- Briggs, John R.: See—  
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- Briggs, Leslie J. Self-tutoring and testing device. 2,965,975, 12-27-60, Cl. 35-9.
- Briggs, Richard S., and G. E. Carter, Jr., to Bomac Laboratories Inc. Shock and acceleration resistant electron discharge device. 2,965,791, 12-20-60, Cl. 313-265.
- Briggs, Southwick W. Filter. 2,919,807, 1-5-60, Cl. 210-487.
- Briggs & Stratton Corp.: See—  
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Harkness, Joseph R. 2,954,506.
- Briggs, Walter H., to Burman & Sons Ltd. Hydraulically operated vehicle steering mechanisms. 2,938,399, 5-31-60, Cl. 74-388.
- Briggs, William. Articles of furniture. 2,955,646, 10-11-60, Cl. 155-191.
- Bright, Elvin M. Diving board. 2,965,529, 12-20-60, Cl. 154-110.
- Bright, Glenn O., to Phillips Petroleum Co. Ion source and mass spectrometer utilizing same. 2,945,951, 7-19-60, Cl. 250-41.9.
- Bright, Richard L.: See—  
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- Bright, Richard L., to Westinghouse Electric Corp. Rectifier device. 2,953,738, 9-20-60, Cl. 321-47.
- Bright, Richard L., to Westinghouse Electric Corp. Electronic switch device. 2,962,603, 11-29-60, Cl. 307-88.5.
- Bright, Richard L., to Westinghouse Electric Corp. Hyperconductive control. 2,962,607, 11-29-60, Cl. 307-88.5.
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- Brightly, Frederick C., Jr. Metal fabric coating process and apparatus. 2,933,410, 4-19-60, Cl. 117-51.
- Brightman, Barrie, to General Dynamics Corp. Electronic switching system common control equipment. 2,932,005, 4-5-60, Cl. 340-147.
- Brightman, Barrie, to General Dynamics Corp. Electronic switching telephone system channel allotter. 2,951,126, 8-30-60, Cl. 179-18.
- Brightman, Barrie, J. G. Pearce, and M. P. Tubinis, to General Dynamics Corp. Electronic switching telephone system. 2,947,819, 8-2-60, Cl. 179-18.
- Brightman, Earl D.: See—  
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- Brillhart, Arnold R. Reeds for woodwind instruments. 2,919,817, 1-5-60, Cl. 84-383.
- Brill, Harold C., to E. I. du Pont de Nemours and Co. Composition and process of forming an adherent polyoxide coating on a surface. 2,943,955, 7-5-60, Cl. 117-121.
- Brill, John C., and J. F. Roth, to Newell Mfg. Co. Door latch striker. 2,936,190, 5-10-60, Cl. 292-341.17.
- Brill, Melville D., to Bell Telephone Laboratories, Inc. Wave filter. 2,943,280, 6-28-60, Cl. 333-73.
- Brill, William E., to General Motors Corp. Magnetic particle coupling. 2,926,764, 3-1-60, Cl. 192-21.5.
- Brill, William E., and A. F. Grant, to General Motors Corp. Magnetic particle coupling. 2,924,315, 2-9-60, Cl. 192-21.5.
- Brill, William F., to Petro-Tex Chemical Corp. 4-vinylcyclohexene hydroperoxide. 2,954,406, 9-27-60, Cl. 260-610.
- Brillhart, Donald D., to R. S. Pyle. Aqueous coolant for metal working machines. 2,959,547, 11-8-60, Cl. 252-33.6.
- Brillhart, William O., L. Gallant, and J. N. Carver, to American Viscose Corp. Cellophane coating having improved wet stretch at low temperatures. 2,950,992, 8-30-60, Cl. 117-144.
- Brillinger, George A., 1/2 to B. B. Krost. Tool for melting and removing fusible material. 2,960,591, 11-15-60, Cl. 219-21.
- Brilliss, Michael N., and F. Pollick. Paper coffee cup. 2,962,201, 11-29-60, Cl. 229-1.5.
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- Brimhall, Ray S. Hydraulic dual acting braking cylinder unit. 2,937,622, 5-24-60, Cl. 121-38.
- Brin Mfg. Co., Inc.: See—  
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- Brina, Ernest, to Scientific Packaging Corp. Container with opening means. 2,946,434, 7-26-60, Cl. 206-56.
- Brinda, John, Jr.: See—  
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- Brindley, Mabel: See—  
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- Brindley, Richard E., and W. C. Quain, to R. B. Brindley, trustee. Pulley construction. 2,923,166, 2-2-60, Cl. 74-230.5.
- Brindley, Roy L. Self-supporting separable bows for trailer body covers. 2,955,874, 10-11-60, Cl. 296-104.
- Briney, James W.: See—  
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- Briney Mfg. Co.: See—  
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- Briney, Ottis R., Jr. and J. W., to Briney Mfg. Co. Boring head. 2,931,254, 4-5-60, Cl. 77-58.
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- Brink, Leon: See—  
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- Brink, Norman G.: See—  
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- Brink, Norman G., and U. J. Lewis, to Merck & Co., Inc. Insulinase. 2,957,809, 10-25-60, Cl. 195-66.
- Brink, Richard E.: *See*—  
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- Brink, Robert M., to Time, Inc. Resolution restorer system. 2,962,550, 11-29-60, Cl. 178-7.1.
- Brink, William S.: *See*—  
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- Brinkel, Edwin P., to Ross Operating Valve Co. Shiftable mechanism with momentarily actuated control. 2,921,602, 1-19-60, Cl. 137-622.5.
- Brinker, Emil F., and W. A. Robison, Jr., to Westinghouse Air Brake Co. Electrical relays. 2,952,755, 9-13-60, Cl. 200-87.
- Brinker, Howard C.: *See*—  
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- Brinker, Keith C., to E. I. du Pont de Nemours and Co. Process for the preparation of phosphorus pentafluoride. 2,933,375, 4-19-60, Cl. 23-205.
- Brinker, Keith C., and M. I. Bro, to E. I. du Pont de Nemours and Co. Process for polymerizing tetrafluoroethylene in the presence of polymer-stabilizing agents. 2,965,595, 12-20-60, Cl. 260-29.6.
- Brinkerhoff, Joris M., W. C. Hadley, V. E. Ragosine, and J. W. Shearer, to Tracerlab, Inc. Apparatus for producing neutrons. 2,926,271, 2-23-60, Cl. 313-61.
- Brinkerhoff, Joris M., and S. P. Harris, to Tracerlab, Inc. Pressure control system. 2,964,665, 12-13-60, Cl. 313-61.
- Brinkhaus, Matthew E. Workpiece holding clip. 2,919,912, 1-5-60, Cl. 269-115.
- Brinkman, Earl H., and A. J. Kahkejian, to General Electric Co. Bolted nozzlebox for high pressure steam turbine. 2,956,775, 10-18-60, Cl. 253-78.
- Brinkman, Herbert C., Jr. Three dimensional game. 2,940,760, 6-14-60, Cl. 273-130.
- Brinster, John F.: *See*—  
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- Brinster, John F., and E. B. Garretson, to General Devices, Inc. Commutator brush assembly. 2,948,795, 8-9-60, Cl. 200-166.
- Brinster, John F., and E. Donath, to Electro-Mechanical Research, Inc. Plotter. 2,964,240, 12-13-60, Cl. 235-61.6.
- Brinton, David B.: *See*—  
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- Brion, Benjamin W. Collapsible saw. 2,930,420, 3-29-60, Cl. 145-33.
- Briscoe, Madison H., to Circular Banding Co., Inc. Methods for making bands from yarn or the like. 2,935,833, 5-10-60, Cl. 57-158.
- Briscoe, Robert G. Aerating and cooling apparatus for liquid containing receptacles. 2,951,309, 9-8-60, Cl. 43-57.
- Briskin, Herbert B., to Sylvania Electric Products Inc. Frequency discriminator. 2,956,199, 10-11-60, Cl. 315-3.5.
- Briskman, Samuel, and C. Weidauer, said Weidauer assor, to said Briskman. Method of making pinking or scalloping shears. 2,949,050, 8-16-60, Cl. 76-104.
- Brist, Uriah M.: *See*—  
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- Bristol Aero-Engines, Ltd.: *See*—  
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- Bristol Aeroplane Co. Ltd., The: *See*—  
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- Bristol Aircraft Ltd.: *See*—  
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- Bristol, Carlton W., Jr.: *See*—  
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- Bristol Co., The: *See*—  
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- Bristol, Lorne E., and W. M. Porter, to Northrop Corp. Electric printed circuit component. 2,934,627, 4-26-60, Cl. 200-135.
- Bristol Mfg. Corp.: *See*—  
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- Bristol-Myers Co.: *See*—  
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- Bristol Siddeley Engines Ltd.: *See*—  
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- Britain, J. W., to Mobay Chemical Co. Preparation of cellular polyurethanes using piperazine catalysts. 2,949,431, 8-16-60, Cl. 260-2.5.
- Britcher, Charles W., to Herbert Cole Trust, trustees. Dusting equipment. 2,963,994, 12-13-60, Cl. 107-9.
- Brite, Daniel W.: *See*—  
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- Brite, Wilber H. Self-opening paraffin knife for tubing. 2,933,138, 4-19-60, Cl. 166-174.
- British Aluminum Co. Ltd., The: *See*—  
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- British Castors Ltd.: *See*—  
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- British Celanese Ltd.: *See*—  
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- British Dielectric Research Ltd.: *See*—  
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- British Drug Houses Ltd., The: *See*—  
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- British Federal Welder and Machine Co. Ltd.: *See*—  
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- British Industrial Plastics Ltd.: *See*—  
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- British Insulated Callender's Cables Ltd.: *See*—  
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- British Iron & Steel Research Association, The: *See*—  
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- Britt, Horace J., and F. R. Cosh, to American Telephone and Telegraph Co. Pulse measurement. 2,939,915, 6-7-60, Cl. 178-69.
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- Brittain, Willard M., to Westinghouse Electric Corp. Logic circuits. 2,962,604, 11-29-60, Cl. 307-88.5.
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- Britton, Jack A. Fluid temperature-pressure relief valve. 2,966,164, 12-27-60, Cl. 137-73.
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- Bro, Manville I., to E. I. du Pont de Nemours and Co. Copolymers of tetrafluoroethylene and fluorinated olefins. 2,943,080, 6-28-60, Cl. 260-87.5.
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- Broad, Charles S., to Gailay Ltd. Method of and means for making seam-weld joints between metallic members. 2,942,094, 8-21-60, Cl. 219-81.
- Broad, Donald A. G., to National Research Development Corp. Line focus electron emission systems. 2,921,214, 1-12-60, Cl. 313-82.
- Broad, Donald A. G., to National Research Development Corp. Rotating anode X-ray tubes. 2,926,269, 2-23-60, Cl. 313-60.
- Broadbent, Thomas, & Sons Ltd.: See—  
 Cran, William B. G. 2,949,284.
- Broadbooks, Martin, and C. E. Painter, to E. I. du Pont de Nemours and Co. Improved process for the preparation of 2-chloro-butadiene-1,3. 2,923,748, 2-2-60, Cl. 260-655.
- Broadhead, Samuel L., Jr., to Collins Radio Co. Combination loading detector and standing wave indicator circuit. 2,961,605, 11-22-60, Cl. 324-58.
- Broadhead, Samuel L., Jr., and M. T. Ludvigson, to Collins Radio Co. Automatic antenna coupler. 2,921,273, 1-12-60, Cl. 333-17.
- Broadhead, Samuel L., Jr., and H. W. Lehman, to Collins Radio Co. Combination fine tuning and slewing device. 2,929,251, 3-22-60, Cl. 74-10.8.
- Broadley, Peter R.: See—  
 Yellott, John I., and Broadley. 2,925,143.  
 Yellott, John I., and Broadley. 2,954,097.
- Broadwell, Robert J., to The Gabriel Co. Damped valve device. 2,938,719, 5-31-60, Cl. 267-65.
- Broadwell, Robert J., to The Gabriel Co., The. Damped air valve. 2,947,528, 8-2-60, Cl. 267-1.
- Broadwell, Robert J., to The Gabriel Co. Damped air valve. 2,950,738, 8-30-60, Cl. 137-627.5.
- Broadwell, Robert J., and J. E. C. Anderson, to The Gabriel Co. Damped air valve. 2,939,724, 6-7-60, Cl. 280-124.
- Brobeck, Herman J. Orthopedic bed. 2,950,715, 8-30-60, Cl. 128-71.
- Broberg, Björn E., to AB Svenska Järnvägsverkstaderna. Carriage body suspension for vehicles. 2,958,297, 11-1-60, Cl. 105-212.
- Broberg, Dewey O., Jr., and L. M. Fruh. Connector clip. 2,928,067, 3-8-60, Cl. 339-200.
- Brobston, Scott. Facing for concrete building blocks. 2,944,372, 7-12-60, Cl. 50-193.
- Broby Mek. Verkskads Aktiebolag: See—  
 Dahlman, Erik G. 2,936,083.
- Brochhagen, Franzkarl, A. Hochtlen, and E. Weinbrenner, ½ to Farbenfabriken Bayer Aktiengesellschaft and ½ to Mobay Chemical Co. Process of preparing polyurethanes using tertiary amine salts as accelerators. 2,921,915, 1-19-60, Cl. 260-2.5.
- Brock, Clarence A., to Rexair, Inc. Vacuum cleaner construction. 2,945,553, 7-19-60, Cl. 183-24.
- Brock, Clarence A., to Rexair, Inc. Vacuum cleaner. 2,954,095, 9-27-60, Cl. 183-22.
- Brock, Frank M., to Radio Corp. of America. Balanced modulator circuit. 2,948,862, 8-9-60, Cl. 332-47.
- Brock, Harold L.: See—  
 Cousins, Fred M., and Brock. 2,940,323.
- Brock, Jayne N.: See—  
 Bush, Elmer W., and Brock. 2,942,791.
- Brock, Jean A. M., to Olin Mathieson Chemical Corp. Pyrotechnic compositions. 2,939,779, 6-7-60, Cl. 52-23.
- Brock, Jean A. M., to Olin Mathieson Chemical Corp. Pyrotechnic compositions. 2,939,780, 6-7-60, Cl. 52-24.
- Brock, Millard: See—  
 Frogal, Gordon L., Froehlich, West, and Brock. 2,942,545.
- Brock, Norbert: See—  
 Arnold, Herbert, Kühas, and Brock. 2,957,006.
- Brock, Norman R.: See—  
 Wallace, Kenneth R., and Brock. 2,927,981.
- Brock and Rankin, Inc.: See—  
 Rankin, Edward C. 2,928,398.
- Brockardt, Frank G., and J. H. Koch, to Bethlehem Gear and Machine Co. Gear mechanism for feeding lathe tailstock screw. 2,924,996, 2-16-60, Cl. 74-750.



- Brockett, Peter C., to Eastern Industries, Inc. Electronic timing circuit. 2,964,625, 12-13-60, Cl. 250-27.
- Brockhagen, Franz Karl: *See*—
- Bick, Rudolf, and Brockhagen. 2,938,005.
- Brocklesby, H. N., and Associates: *See*—
- Brocklesby, Horace N., and Patrick. 2,934,433.
- Brocklesby, Horace N., and J. R. Patrick, to H. N. Brocklesby and Associates. Fish protein product and method of preparing the same. 2,934,433, 4-26-60, Cl. 99-7.
- Brockman, Arthur C. Semi-trailer construction. 2,952,476, 9-13-60, Cl. 280-423.
- Brockman, John A., Jr.: *See*—
- Broquist, Harry P., and Brockman. 2,965,545.
- Brockman, William J. Attachment for a milking stall. 2,957,451, 10-25-60, Cl. 119-96.
- Brockmann, Hans, and A. Bohne, to Schenley Industries, Inc. Anticancer antibiotic actinomycin C and its preparation. 2,953,495, 9-20-60, Cl. 167-65.
- Brockmann, Maxwell C.: *See*—
- Rupp, Virgil R., Brockmann, and Nicholson. 2,937,094.
- Brockmann, Maxwell C., to Hygrade Food Products Corp. Meat spoilage indicator. 2,950,202, 8-23-60, Cl. 99-192.
- Brockner, David E. Insulated gripping device for tools. 2,951,259, 9-6-60, Cl. 16-116.
- Brockway, Ellsworth M., to Bausch & Lomb Optical Co. Toolmaker's microscope. 2,942,518, 6-28-60, Cl. 88-39.
- Brockway, Warren H., to Corry-Jamestown Mfg. Corp. Post for free-standing partitions. 2,963,131, 12-6-60, Cl. 189-38.
- Brodbeck, Almer H., and H. C. Reinhart, to Dixie Products, Inc. Burner assembly for cooking ranges. 2,930,433, 3-29-60, Cl. 158-105.
- Brodbeck, Willy, to Alfred Gauthier, G.m.b.H. Profile milling machine, especially engraving machine. 2,953,974, 9-27-60, Cl. 90-151.
- Brodbeck, Willy, to Alfred Gauthier, G.m.b.H. Machine tool having rotary workpiece carrier of the type which is fully rotatable. 2,962,153, 11-29-60, Cl. 198-209.
- Brodén, John G. M., and N. A. V. Dahlqvist, to Kockums Mekaniska Verkskads Aktiebolag. Hydraulic servo systems for operating the control valve of pressure fluid operated whistles. 2,959,010, 11-8-60, Cl. 60-54.5.
- Broder, Alan: *See*—
- Wakeland, Henry H., and Broder. 2,925,576.
- Broderick, Edward: *See*—
- Niederhauser, Warren D., Broderick, and Owings. 2,964,557.
- Broderick, Edward J., and L. J. Doucette, to General Electric Co. Mold apparatus for casting glass. 2,922,255, 1-26-60, Cl. 49-65.
- Broderick, Edward J., and W. J. Morrissey, to General Electric Co. Glass component for electrical apparatus. 2,924,636, 2-9-60, Cl. 174-18.
- Broderick, Frederick J., Jr. Cabinet assembly. 2,923,584, 2-2-60, Cl. 312-317.
- Broderick, James C.: *See*—
- Taubenslag, Morris J., and Broderick. 2,953,711.
- Broderick, James J., and L. L. Linteris, to Lever Brothers Co. Flavoring agents and process for imparting a meat-like flavor to an edible composition. 2,955,041, 10-4-60, Cl. 99-140.
- Brodgers, Claude O., to United Aircraft Corp. Maximum pressure selector. 2,943,605, 7-5-60, Cl. 121-38.
- Broderson, Neil O., to Speed-Feed Machine Corp. Button feeding attachment for sewing machine. 2,931,327, 4-5-60, Cl. 112-113.
- Brodey, Ian H.: *See*—
- Owen, Henry A., and Brodey. 2,928,302.
- Brodie, Ralph N., Co.: *See*—
- Berck, William F. 2,938,531.
- Berck, William F. 2,942,497.
- Berck, William F. 2,959,058.
- Broding, Robert A., J. O. Ely, and G. C. Summers, to Socony Mobil Oil Co., Inc. Methods of and means for measuring travel times through earth formations. 2,949,973, 8-23-60, Cl. 181-5.
- Brodkey, Robert S., and A. L. Miller, to Esso Research and Engineering Co. Thermal and mechanical stable latices of isoelefin-multiolefin rubbery polymers and process for preparing same. 2,936,295, 5-10-60, Cl. 260-29.7.
- Brodkey, Robert S., and A. L. Miller, to Esso Research and Engineering Co. Process for preparing stable isoelefin-multiolefin rubbery polymer latices containing ortho-phosphoric acid and organic sulfate salts. 2,955,094, 10-4-60, Cl. 260-29.7.
- Brodrick, Lowell G., and J. P. Morone, Jr., to United States of America, Army. Right angle components socket. 2,938,187, 5-24-60, Cl. 339-31.
- Brodwin, Morris E., to United States of America, Air Force. Wide band noise source. 2,960,664, 11-15-60, Cl. 331-78.
- Brody, Arthur M. and I. Bird feeder. 2,937,617, 5-24-60, Cl. 119-51.5.
- Brody, Frederick: *See*—
- Scalera, Mario, Brody, Zimmerman, and Ulmes. 2,939,759.
- Brody, Gerald, to Moorman Mfg. Co. Control of hog ascarid infections with nicarbazine. 2,930,733, 3-29-60, Cl. 167-53.
- Brody, Harry, and A. E. Fahlen, to Swift & Co. Pan oil composition and process of making same. 2,963,372, 12-6-60, Cl. 99-118.
- Brody, Ingeborg: *See*—
- Brody, Arthur M. and I. 2,937,617.
- Brody, Nicolas: *See*—
- Képes, André, and Brody. 2,920,495.
- Broekhuysen, William C., to American Machine & Foundry Co. Cigarette rod density measuring apparatus. 2,932,391, 4-12-60, Cl. 209-72.
- Broekhuysen, William C., to G-V Controls Inc. Electro thermal relay. 2,948,788, 8-9-60, Cl. 200-122.
- Broekhuysen, William C., to G-V Controls Inc. Electro thermal relay. 2,961,516, 11-22-60, Cl. 200-122.
- Broerman, Arthur B., to Phillips Petroleum Co. Differential refractometer. 2,933,974, 4-26-60, Cl. 88-14.
- Brogan, Robert E. Pipe-supporting device. 2,942,819, 6-28-60, Cl. 248-58.
- Brogden, Morris H. Ratio computer. 2,936,114, 5-10-60, Cl. 235-151.
- Brogdon, Vas H., Jr., to Freeport Sulphur Co. System and process for the heating of waters as for sulphur mining. 2,937,624, 5-24-60, Cl. 122-1.
- Brogdon, Vas H., Jr., and E. W. Olsen, to Freeport Sulphur Co. Purification of crude sulfur. 2,941,868, 6-21-60, Cl. 23-224.
- Broich, Franz: *See*—
- Baumann, Paul, Broich, and Schäfer. 2,930,822.
- Weber, Heinrich, Strache, Broich, Franke, and Kiepert. 2,935,501.
- Broido, Daniel, to International Computers and Tabulators Ltd. Data processing machines. 2,942,778, 6-28-60, Cl. 235-61.11.
- Broido, Daniel, to International Computers and Tabulators Ltd. Sheet feed detecting devices. 2,946,992, 7-28-60, Cl. 340-259.
- Broido, Jacques J. G. G., to Cinematic Anstalt Co. Motion picture camera. 2,928,315, 3-15-60, Cl. 88-17.
- Brokamp, Frank W., to Armstrong Paint and Varnish Works. Device for mixing paint colors. 2,955,889, 10-11-60, Cl. 312-31.1.
- Brola, Gabriel, to Generale Thermique-Procédes Brola. Combustion system. 2,929,442, 3-22-60, Cl. 158-77.
- Brolund, Ted F.: *See*—
- Spengler, Robert H., and Brolund. 2,964,829.
- Broman, Cyrus R.: *See*—
- Gewecke, Theodore H., and Broman. 2,938,238.
- Gewecke, Theodore H., and Broman. 2,949,913.
- Richter, John W., Gewecke, and Broman. 2,953,132.
- Broman, Cyrus R., to Baxter Laboratories, Inc. Plasma aspirating equipment. 2,934,069, 4-26-60, Cl. 128-276.
- Bromberg, Emil. Apparatus for folding and handling newspapers and the like. 2,926,907, 3-1-60, Cl. 271-35.
- Bromfield, Morton S. Conveyor for use in manufacture of shoes. 2,940,094, 6-14-60, Cl. 12-1.
- Bromfield, Morton S. Method of making shoes employing heat. 2,940,096, 6-14-60, Cl. 12-142.
- Bromley, James E., to The Chemstrand Corp. Traversing mechanism for high speed winding. 2,924,398, 2-9-60, Cl. 242-158.5.
- Bromley, James E., to The Chemstrand Corp. Drawtwister. 2,937,489, 5-24-60, Cl. 57-90.
- Bromley, James E., to The Chemstrand Corp. Drawtwister with slip coupling. 2,952,115, 9-13-60, Cl. 57-92.
- Brommer Spring Hinge Co., Inc.: *See*—
- Frohlich, Hans. 2,935,761.
- Bromo-Mint Co.: *See*—
- Kuhn, James O. 2,949,692.
- Steiner, Robert L., and Beiler. 2,965,383.
- Bronn, Walther: *See*—
- Windisch, Siegfried, and Bronn. 2,936,266.
- Bronson, Arthur H., to Richfield Oil Corp. Powdered composition consisting essentially of pentachlorophenol and a member of the group of metal naphthenates and mahogany sulfonates. 2,944,936, 7-12-60, Cl. 167-31.
- Bronson, Keith R., to Elastic Stop Nut Corp. of America. Cylindrical cradle with floating nut and spring pin assembly means. 2,920,672, 1-12-60, Cl. 151-41.76.
- Bronstein, Edward H. Fluid distributing system for printing machines. 2,935,940, 5-10-60, Cl. 101-335.
- Bronstein, Jacob: *See*—
- Palmer, William D., and Bronstein. 2,965,858.
- Bronstien, Edward L., Jr., and R. A. Fisher, to The United States Bedding Co. Automatic tufting machine. 2,920,588, 1-12-60, Cl. 112-3.
- Bronte, Jack: *See*—
- Baker, Bill P. 2,939,158.
- Brontman, Henry, to Morris Sklare & Co. Drapery hangers. 2,952,315, 9-13-60, Cl. 160-330.
- Bronzavia S.A.: *See*—
- Conan, Yves. 2,937,623.
- Brook, James E., to Bendix Aviation Corp. Algebraic computers. 2,924,386, 2-9-60, Cl. 235-195.
- Brook, Leonard, to The Forgrave Machinery Co. Ltd. Wrapping machines. 2,933,871, 4-26-60, Cl. 53-234.
- Brook, Niles J., to United Aircraft Corp. Skid proof bearing. 2,943,894, 7-5-60, Cl. 308-212.
- Brooke, Jesse M., to Phillips Petroleum Co. Process and apparatus for acetylene analysis. 2,934,408, 4-26-60, Cl. 23-232.
- Brooke, Le Roy J., to Wildman Jacquard Co. Fabric take-up means. 2,924,085, 2-9-60, Cl. 66-149.
- Brooke, Norman E. Garment hangers. 2,924,362, 2-9-60, Cl. 223-91.



- Brooke, Wendell C., to Texas Instruments Inc. Semiconductor assembling apparatus. 2,962,574, 11-29-60, Cl. 219-9.5.
- Brooker, Christopher E., to Jeyes' Sanitary Compounds Co. Ltd. Apparatus for folding paper and like material. 2,929,624, 3-22-60, Cl. 270-39.
- Brooker, Leslie G. S.: See—
- Heseltine, Donald W., and Brooker. 2,927,026.
- Webster, Frank G., and Brooker. 2,961,317.
- Brooker, Leslie G. S., and F. L. White, to Eastman Kodak Co. Holopolar cyanine dyes and photographic emulsions containing them. 2,955,939, 10-11-60, Cl. 96-105.
- Brooker, Leslie G. S., and F. G. Webster, to Eastman Kodak Co. Polymethine sensitizing dyes and photographic emulsions. 2,965,486, 12-20-60, Cl. 96-105.
- Brookes, Frederick D.: See—
- Lawton, John E., and Brookes. 2,924,332.
- Brookes, George, to Meters Ltd. Dry gas meters. 2,952,248, 9-13-60, Cl. 121-48.
- Brookhouse, Herman. Pipe sizing and truing tool. 2,956,459, 10-18-60, Cl. 81-15.
- Brookhyser, Byron B., H. E. Erickson, and D. L. Schubert; said Brookhyser and Erickson assors. of  $\frac{1}{2}$  to said Schubert; and  $\frac{1}{2}$  to Industrial Development Co. Mat transfer apparatus. 2,919,820, 1-5-60, Cl. 214-1.
- Brooking, Ivor H.: See—
- Chilman, John A., and Brooking. 2,934,153.
- Brookins, Richard N., to Essick Mfg. Co. Equipment carrier. 2,966,275, 12-27-60, Cl. 214-130.
- Brooklyn Products, Inc.: See—
- States, George V. 2,948,448.
- Brookman, Roger S., and C. L. Maisch. Centrifugal type separating apparatus. 2,963,109, 12-6-60, Cl. 183-5.
- Brookover, George B., and E. M. Tom, to Kimble Glass Co. Preoxidation of stainless steel for glass-to-metal sealing. 2,933,423, 4-19-60, Cl. 143-6.35.
- Brooks, Charles H., to Sun Oil Co. Producing stable cracked gasoline by contacting a cracked gasoline fraction with a regenerated cracking catalyst. 2,920,031, 1-5-60, Cl. 208-99.
- Brooks, Charles H., to Sun Oil Co. Slurry valve. 2,921,721, 1-19-60, Cl. 222-368.
- Brooks, Charles H., to Sun Oil Co. Underground storage of hydrocarbons. 2,922,281, 1-26-60, Cl. 61-5.
- Brooks, Charles H., to Sun Oil Co. Olefin polymerization in a pulsating reactor. 2,927,006, 3-1-60, Cl. 23-252.
- Brooks, Charles H., to Sun Oil Co. Temperature control in vapor phase chemical reactions. 2,935,374, 5-3-60, Cl. 23-1.
- Brooks, Charles P. Apparatus for forming holes in sewer mains. 2,963,928, 12-13-60, Cl. 77-14.
- Brooks, Chester E., and A. E. Joel, Jr., to Bell Telephone Laboratories, Inc. Telephone system calling stations identifier. 2,924,666, 2-9-60, Cl. 179-18.
- Brooks, Clarence A.: See—
- Eisenmann, Charles E., Brooks, Katransky, and Nemeth. 2,963,979.
- Brooks, E. J., Co.: See—
- Brooks, Winfred M., and Moberg. 2,962,824.
- Moberg, Sigurd M. 2,926,944.
- Brooks, Eugene H., to Continental Gin Co. Packing press lock. 2,959,120, 11-8-60, Cl. 100-223.
- Brooks, Fred A., Jr.: See—
- Annis, Max R., and Brooks. 2,920,201.
- Brooks, Harold E. H., and K. C. Godard, to British Castors Ltd., and C. W. Godard & Co. Ltd. Castors. 2,951,258, 9-6-60, Cl. 16-35.
- Brooks, Harvey, to United States of America, Atomic Energy Commission. Nuclear reactor fuel element and method of manufacture. 2,934,482, 4-26-60, Cl. 204-193.2.
- Brooks, Jonathan O., to Chas. Pfizer & Co. Inc. Preparation of a calcium chloride double salt of calcium pantothenate. 2,957,025, 10-18-60, Cl. 260-534.
- Brooks, Lester A., and I. Gibbs, to R. T. Vanderbilt Co., Inc. Stabilized solutions of a dithiocarbamate. 2,920,104, 1-5-60, Cl. 260-500.
- Brooks, Lester A., and J. C. Bacon, to R. T. Vanderbilt Co., Inc. Chloroprene polymers containing tri-alkyl thiourea accelerators. 2,958,680, 11-1-60, Cl. 260-79.5.
- Brooks, Linzy W.,  $\frac{1}{2}$  to E. D. Farley. Rotary lawn mower cutter assembly. 2,924,058, 2-9-60, Cl. 56-295.
- Brooks, Marguerite E.: See—
- Rudner, Bernard, and Brooks. 2,953,600.
- Rudner, Bernard, and Brooks. 2,963,507.
- Rudner, Bernard, Young, and Brooks. 2,929,847.
- Brooks, Marion E., to Bickerstaff, Inc. Fluid pressure balancing valve. 2,938,351, 5-31-60, Cl. 60-97.
- Brooks, Ralph C.: See—
- Stevens, Roy R., and Brooks. 2,958,381.
- Brooks, Richard E., to E. I. du Pont de Nemours and Co. Method for the preparation of perfluoroolefins. 2,926,203, 2-23-60, Cl. 260-653.3.
- Brooks, Thomas E., to Lisle Corp. Muffler pipe cut off tool. 2,961,765, 11-29-60, Cl. 30-102.
- Brooks, Wendell R. Arrow head. 2,930,620, 3-29-60, Cl. 273-106.5.
- Brooks, Wesley W., and C. E. Strecker, deceased (by J. E. Strecker, executrix), to General Electric Co. Electric discharge apparatus. 2,945,986, 7-19-60, Cl. 315-100.
- Brooks, Wesley W., and C. E. Strecker, to General Electric Co. Fluorescent lamp ballast. 2,965,799, 12-20-60, Cl. 315-97.
- Brooks, Winfred M., and S. M. Moberg, to E. J. Brooks Co. Tag. 2,962,824, 12-6-60, Cl. 40-23.
- Brooksbank, J., Ltd.: See—
- Gallagher, Harry. 2,945,669.
- Brookshier, James W., to B-Line Dispensers, Inc. Piercing and tapping device for fluid filled film containers. 2,925,199, 2-16-60, Cl. 222-91.
- Broom, Harry S., to Broom & Wade Ltd. Air compressor. 2,936,949, 5-17-60, Cl. 230-152.
- Broom & Wade Ltd.: See—
- Broom, Harry S. 2,936,949.
- Broome, Joseph W., to The Oilgear Co. Swinging plate valve construction. 2,939,483, 6-7-60, Cl. 137-622.
- Brophy, James N. Fish dressing apparatus. 2,959,809, 11-15-60, Cl. 17-3.
- Broquist, Harry P.: See—
- Winterbottom, Robert, Broquist, and Whitehill. 2,930,702.
- Broquist, Harry P., and J. A. Brockman, Jr., to American Cyanamid Co. Production of lysine. 2,965,545, 12-20-60, Cl. 195-30.
- Bros, Inc.: See—
- Williamson, Archie O., Garis, and Boone. 2,954,088.
- Broschke, Heinrich, to Ernst Leitz G.m.b.H. Exposure control device. 2,925,760, 2-23-60, Cl. 95-10.
- Broske, William F., to AMP Inc. Crimping tool. 2,952,174, 9-13-60, Cl. 81-15.
- Broske, William F., and W. S. Laughlin, to AMP Inc. Crimping tool. 2,925,004, 2-16-60, Cl. 81-15.
- Brosky, John J.: See—
- Sentz, Lemuel E., and Brosky. 2,930,275.
- Brosky, Stanley A. Methods and apparatus for detecting radioactive decay. 2,963,581, 12-6-60, Cl. 250-83.
- Bross, Helmut. Free-flying toy with propeller drive. 2,951,313, 9-6-60, Cl. 46-44.
- Bross, Helmut, to G. Wagner. Writing instrument, particularly a fountain pen, with exchangeable cartridge. 2,951,466, 9-6-60, Cl. 120-45.4.
- Bross, Warren C.: See—
- Jahn, Robert E., Bross, Wheeler, and Newcomer. 2,920,331.
- Bross, William T. to Liebel-Flarsheim Co. Electronic X-ray timer. 2,963,596, 12-6-60, Cl. 307-141.4.
- Brossard, Denzil R., Sr. Fleshing pole. 2,938,370, 5-31-60, Cl. 69-19.
- Brothers, Nellie: See—
- Brothers, William M. 2,940,505.
- Brothers, Richard V. Apparatus for curling hair. 2,966,158, 12-27-60, Cl. 132-123.
- Brothers, William M., deceased, by N. Brothers, executrix, to The British Plaster Board Ltd. Production of plaster board. 2,940,505, 6-14-60, Cl. 154-1.2.
- Brotherton, Robert J., to United States Borax & Chemical Corp. Preparation of organo-boron compounds. 2,948,751, 8-9-60, Cl. 260-551.
- Brotherton, Robert J., and L. L. Petterson, to United States Borax & Chemical Corp. Method for the preparation of compounds having boron-sulfur bonds. 2,960,530, 11-15-60, Cl. 260-462.
- Brotz, August, K. Richter, W. Wachtendorf, and K. Heuer, to American Enka Corp. Manufacture of viscose rayon. 2,947,597, 8-2-60, Cl. 18-54.
- Brough, William, and J. S. Thompson. Means for mounting a member for rotation. 2,963,921, 12-13-60, Cl. 74-573.
- Broughton, Arthur E., to F. J. Broughton and D. H. Newcomb, as trustees. Spraying device with centering slide bearing. 2,945,628, 7-19-60, Cl. 239-264.
- Broughton, Dean C., E. G. Dueringer, and H. R. Price, to A. O. Smith Corp. Vehicle shock assembly. 2,960,350, 11-15-60, Cl. 280-136.
- Broughton, Donald B., to Universal Oil Products Co. Separating olefinic hydrocarbons. 2,925,452, 2-16-60, Cl. 260-681.5.
- Broughton, Donald B., H. S. Bloch, and R. C. Wackher, to Universal Oil Products Co. Process for separating normal aliphatic hydrocarbons from hydrocarbon mixtures. 2,957,927, 10-25-60, Cl. 260-676.
- Broughton, Douglas J., to Buxton, Inc. Purse frame and method of making same. 2,963,063, 12-6-60, Cl. 150-29.
- Broughton, Frances J.: See—
- Broughton, Arthur E. 2,945,628.
- Broughton, Geoffrey: See—
- Bauer, Eldon E., and Broughton. 2,922,703.
- Brouillard, Robert E.: See—
- Katz, Leon, Gannon, and Brouillard. 2,930,796.
- Taras, John, and Brouillard. 2,921,830.
- Brouse, Shirley B., and P. W. Fawcett, to United States Steel Corp. Knotter for automatic wire-tying machine. 2,922,359, 1-26-60, Cl. 100-26.
- Broussard, Gerald R., to Texas Instruments Inc. Method for locating P-N junctions in semiconductor bodies. 2,956,230, 10-11-60, Cl. 324-158.
- Broussard, Henry P.: See—
- Langlais, Vernon L., and Broussard. 2,950,953.
- Broussaud, Georges, to Compagnie Generale de Telegraphie Sans Fil. Switching devices for ultrahigh frequency waves. 2,941,165, 6-14-60, Cl. 333-7.
- Broussaud, Georges, to Compagnie Generale de Telegraphie Sans Fil. Improvements in ultra short wave directive aeriels. 2,945,227, 7-12-60, Cl. 343-731.
- Brout, Henry: See—
- Diller, Isaac M. 2,953,459.



- Brouwer, Frans: *See*—  
Cheverton, John S., and Brouwer. 2,933,612.
- Brouwer, Frans, to Canadian Westinghouse Co., Ltd. Electric motor control system and curve tracer. 2,933,668, 4-19-60, Cl. 318-162.
- Brouwer, Frans, to Westinghouse Electric Corp. Electro-mechanical transducer and system. 2,961,585, 11-22-60, Cl. 318-28.
- Brouwer, Rodger D. Universal golf club. 2,962,286, 11-29-60, Cl. 273-79.
- Broverman, Michael, to General Electric Co. Bushing terminal guard. 2,937,361, 5-17-60, Cl. 339-202.
- Brower, Emilian: *See*—  
Lee, Warren G., and Brower. 2,928,757.
- Browder, Lewis B., to Consolidated Electrodynamics Corp. Demodulator. 2,922,040, 1-19-60, Cl. 250-27.
- Browder, Lewis B., to Bell & Howell Co. String galvanometer oscillograph apparatus. 2,950,160, 8-23-60, Cl. 346-74.
- Brower, David F., to Hughes Aircraft Co. Electromagnetic transducers. 2,927,163, 3-1-60, Cl. 179-100.2.
- Brower, William C.: *See*—  
Lemson, Jack, and Brower. 2,953,748.
- Brown, Alan, to Congoleum-Nairn Inc. Fiber rug. 2,961,011, 11-22-60, Cl. 139-420.
- Brown, Albert W.: *See*—  
Badger, Everett H., Jr., and Brown. 2,923,314.
- Brown, Alfred B., Jr., to Bell Telephone Laboratories, Inc. Magnetic core counter circuits. 2,941,089, 6-14-60, Cl. 307-88.
- Brown, Alfred D., to Fellowcraft Engineering, Inc. Protective packaging. 2,943,731, 7-5-60, Cl. 206-46.
- Brown, Alfred W.: *See*—  
Marzocchi, Alfred, Brown, and Blankmeyer. 2,959,701.
- Brown, Alton R.: *See*—  
Brown, Ira M., and A. R. 2,945,302.
- Brown, Arthur K., Jr., to The Bendix Corp. Brake mechanism. Re. 24,886, 10-18-60, Cl. 188-78.
- Brown, Arthur K., Jr. Self-wringing floor cleaning and waxing device. 2,955,309, 10-11-60, Cl. 15-119.
- Brown, Arthur W. Means for adjusting the level of a hem of the skirt of a garment. 2,942,340, 6-28-60, Cl. 30-231.
- Brown, Bart D.,  $\frac{1}{2}$  to A. M. Carollo, Sr. Cable limit switch. 2,927,170, 3-1-60, Cl. 200-61.14.
- Brown, Bernard B.: *See*—  
Rockett, Jack, and Brown. 2,922,790.
- Brown, Bernard B., to Olin Mathieson Chemical Corp. Certain thiocarbamates of 2-mercaptopyridine N-oxide and process. 2,940,978, 6-14-60, Cl. 260-294.8.
- Brown, Bernard J.: *See*—  
Gagne, Oscar J., and Brown. 2,944,264.
- Brown, Bernard J. Toy firearm and game therefor. 2,944,822, 7-12-60, Cl. 273-101.
- Brown & Pigelow: *See*—  
Laughlin, Clayton A. 2,958,181.
- Olson, John J. 2,960,781.
- Paulsen, Henry A. 2,943,778.
- Peterson, Edward W. 2,931,293.
- Peterson, Fred. 2,931,114.
- Schwartz, John J. 2,932,018.
- Wistrand, John C. 2,931,562.
- Wistrand, John C. 2,960,713.
- Brown, Boveri & Cie, Aktiengesellschaft: *See*—  
Hartmann, Willy. 2,924,440.
- Schaffuss, Erich. 2,930,958.
- Syrbe, Max. 2,960,648.
- Brown, Burton P., Jr., to United States of America, Air Force. Antenna system. 2,920,322, 1-5-60, Cl. 343-776.
- Brown, Byron T.: *See*—  
Morrison, William G., and Brown. 2,964,452.
- Brown, Carroll J., to International Business Machines Corp. Automatic clipping circuit. 2,947,975, 8-2-60, Cl. 340-173.
- Brown, Charles B.: *See*—  
Macdonald, Waldron S., Brown, Park, and Sindeband. 2,959,123.
- Brown, Charles L., Jr., and W. Zurkowski, to Electrolux Corp. Canted ring pipe coupling. 2,925,289, 2-16-60, Cl. 285-7.
- Brown, Cicero C.: *See*—  
Potts, Ernest L. 2,953,919.
- Brown, Cicero C. Triple production packers. 2,944,602, 7-12-60, Cl. 166-46.
- Brown, Cicero C. Well completion and well packer apparatus and method. 2,946,384, 7-26-60, Cl. 166-46.
- Brown, Cicero C. Bridging plug. 2,953,206, 9-20-60, Cl. 166-125.
- Brown, Cicero C. Well apparatus and methods of setting a plurality of tubing strings in a well bore. 2,965,173, 12-20-60, Cl. 166-46.
- Brown, Cicero C., and C. B. Cochran; said Cochran assor. to said Brown. Crossover apparatus for dual production well strings. 2,936,832, 5-17-60, Cl. 166-115.
- Brown, Cicero C., and C. B. Cochran; said Cochran assor. to said Brown. Multiple string well packers. 2,950,761, 8-30-60, Cl. 166-119.
- Brown, Clarence H., to Goodman Mfg. Co. Boring type continuous miner bit mounting device. 2,925,259, 2-16-60, Cl. 262-33.
- Brown, Clayton H. Educational typewriter simulating toy. 2,931,108, 4-5-60, Cl. 35-5.
- Brown, Clifford R.: *See*—  
Pickavance, William T., Brown, and Rose. 2,935,964.
- Brown Counter Co.: *See*—  
Blustein, Abraham. 2,936,536.
- Brown, Curtis L., to Bendix Aviation Corp. Device for regulating the response rate of fluid suspension units. 2,938,736, 5-31-60, Cl. 280-124.
- Brown, D. S., Co., The: *See*—  
Brown, Delmont D. 2,947,282.
- Brown, David, to Scientific Design Co., Inc. Solvent recovery apparatus. 2,954,280, 9-27-60, Cl. 23-270.
- Brown, David, and J. W. Colton, to Scientific Design Co., Inc. Preparation of sulfur. 2,941,873, 6-21-60, Cl. 23-274.
- Brown, David, J. W. Colton, and R. B. Egbert, to Scientific Design Co., Inc. Recovery phthalic and maleic anhydrides. 2,942,005, 6-21-60, Cl. 260-346.4.
- Brown, David M.: *See*—  
Mehta, Minoo D., and Brown. 2,928,843.
- Saffer, Alfred, and Brown. 2,922,827.
- Brown, David M., to Rolls-Royce Ltd. Jet propulsion nozzle with thrust reversing means. 2,955,417, 10-11-60, Cl. 60-35.54.
- Brown, David, Tractors (Engineering) Ltd.: *See*—  
Hull, Charles H. 2,958,384.
- Brown, David W., to Blackhawk Mfg. Co. Article bending and ejecting method and apparatus. 2,955,639, 10-11-60, Cl. 153-38.
- Brown, Delmont D., to The D. S. Brown Co. Microbicidal elastomer articles. 2,947,282, 8-2-60, Cl. 119-14.47.
- Brown, Dennis B. J. W., to Dexter & Co. (High Wycombe) Ltd. Rectilinear ball bearings. 2,929,661, 3-22-60, Cl. 308-6.
- Brown, Donald A., to Donn Products, Inc. T-splice. 2,924,311, 2-9-60, Cl. 189-36.
- Brown, Donald A., to Donn Products, Inc. Structural member. 2,931,470, 4-5-60, Cl. 189-34.
- Brown, Donald E.: *See*—  
Barnes, William A., and Brown. 2,939,348.
- Brown, Donald E., to The Bauer Bros. Co. Mobile whole-tree wood-chipper unit. 2,936,008, 5-10-60, Cl. 144-162.
- Brown, Donald J., to Brettford Mfg., Inc. Two-way lock for telescoping stand. 2,923,564, 2-2-60, Cl. 287-58.
- Brown, Donald L.: *See*—  
Warrick, Edward C., and Brown. 2,943,631.
- Brown, Donald V., to General Electric Co. Composition comprising an organopolysiloxane, a titinate and a wax and process for rendering textiles water repellent therewith. 2,928,799, 3-15-60, Cl. 260-28.
- Brown, Donald V., E. D. Brown, Jr., and H. J. Leavitt, to General Electric Co. Alkyl chlorophenylpolysiloxane water-repellent compositions. 2,928,798, 3-15-60, Cl. 260-28.
- Brown, Dwight C. Collapsible pallets. 2,925,947, 2-23-60, Cl. 229-14.
- Brown, Edgar A., to International Business Machines Corp. Magnetic core assembly. 2,935,708, 5-3-60, Cl. 336-192.
- Brown, Edgar A., to International Business Machines Corp. Magnetic core storage device with flux controlling auxiliary winding. 2,939,117, 5-31-60, Cl. 340-174.
- Brown, Edgar D., Jr.: *See*—  
Brown, Donald V., E. D. Brown, Jr., and Leavitt. 2,928,798.
- Holdstock, Norman G., and Brown. 2,937,995.
- Brown, Edward A., and J. A. Cella, to G. D. Searle & Co. 3,11-dioxygenated 17-carboxyethyl-9-halo-androst-4-en-17-ol lactones, 2-methyl compounds corresponding, and intermediates thereto. 2,925,416, 2-16-60, Cl. 260-239.57.
- Brown, Edward G.,  $\frac{1}{2}$  to B. B. West. Carton forming machine. 2,929,302, 3-22-60, Cl. 93-51.
- Brown, Edward N. Portable tool holders. 2,923,415, 2-2-60, Cl. 211-65.
- Brown, Ellis M.: *See*—  
Toomey, John F., and Brown. 2,920,562.
- Toomey, John F., and Brown. 2,961,958.
- Brown, Elmer J. Fire escape cage. 2,957,540, 10-25-60, Cl. 182-113.
- Brown, Esther G. Drop catch for child's high chair. 2,938,574, 5-31-60, Cl. 155-188.
- Brown, Fielding: *See*—  
Prokopowicz, Thomas I., Norton, and Brown. 2,966,420.
- Brown Fintube Co.: *See*—  
Brown, John W., Jr. 2,965,360.
- Brown, John W., Jr., and Nihlen. 2,936,517.
- Brown, John W., Jr., and Nihlen. 2,961,749.
- Welsh, Oral S. 2,930,405.
- Brown, Ford J., and F. Radakovich, to Western Electric Co., Inc. Ejector mechanisms. 2,956,664, 10-18-60, Cl. 198-22.
- Brown-Forman Distillers Corp.: *See*—  
Copenhefer, John B. 2,920,548.
- Copenhefer, John B. 2,932,902.
- Brown, Forrest A. Tissue dispenser for automobiles. 2,948,574, 8-9-60, Cl. 312-39.
- Brown, Forrest W., to The Reflectone Corp. Elevation gating circuit for radar simulators. 2,938,278, 5-31-60, Cl. 35-10.4.
- Brown, Forrest W., to The Reflectone Corp. Range and bearing computer for radar simulator. 2,955,361, 10-11-60, Cl. 35-10.4.
- Brown, Frank. Can opener with squeeze-type actuating handle. 2,924,878, 2-16-60, Cl. 30-15.5.



- Brown, Frank W., III: *See*—  
Van Atta, Chester M., and Brown. 2,959,125.
- Brown, Franklin M. Multiple rotary switch control. 2,927,168, 3-1-60, Cl. 200-18.
- Brown, Franklin M. Multiple switch control. 2,938,987, 5-31-60, Cl. 200-167.
- Brown, Franklin M., to John Fluke Mfg. Co., Inc. Potentiometer-rheostat. 2,950,455, 8-23-60, Cl. 338-134.
- Brown, Frederick C.: *See*—  
Brown, Royce E. 2,954,615.
- Brown, Geoffrey G.: *See*—  
Bradley, John K., Brown, and Sheldrick. 2,954,286.
- Vanderzee, Harry H., and Brown. 2,952,463.
- Brown, George: *See*—  
Miller, David R., and Brown. 2,941,359.
- Brown, George C., and R. N. Roney, to The Sheffield Corp. Machine device. 2,942,383, 6-28-60, Cl. 51-59.
- Brown, George J., to Hycon Mfg. Co. Flexure gimbal. 2,960,302, 11-15-60, Cl. 248-358.
- Brown, George J., to Statham Instruments, Inc. Unbonded strain gage counterbalanced transducer. 2,965,866, 12-20-60, Cl. 338-5.
- Brown, George P., Jr., H. J. Elder, and N. W. Franke, to Gulf Research & Development Co. Process for decolorizing dibasic acid esters with pentone. 2,960,520, 11-15-60, Cl. 260-452.
- Brown, George S., Jr.: *See*—  
Vanderzee, Harry H., and Brown. 2,959,417.
- Brown, George W.: *See*—  
Wieselman, Irving L., and Brown. 2,961,482.
- Brown, Glenn R., and R. W. Asmus, to The Standard Oil Co. Adsorption-desorption process for the removal of minor amounts of solvent from the product streams of solvent-extracted naphthas. 2,964,465, 12-13-60, Cl. 208-314.
- Brown, Gordon D.: *See*—  
Prete, Ernest J. 2,948,939.
- Brown, Gordon E.: *See*—  
Ash, Jacob R., Brown, and Cox. 2,962,459.
- Brown, H. H., Shoe Co., Inc.: *See*—  
Schlecht, Frederick H. Re. 24,897.
- Brown, Harlow G. G., to Cordo Chemical Corp. Measurement of tack. 2,960,865, 11-22-60, Cl. 73-150.
- Brown, Harold, Co.: *See*—  
Roach, Erskine E. 2,939,475.
- Brown, Harold J. Magnetic core tester. 2,963,643, 12-6-60, Cl. 324-34.
- Brown, Harold P., J. E. Jansen, and C. S. Schollenberger, to The B. F. Goodrich Co. Composition consisting of the reaction product of a linear synthetic polymer and a monocarbodiimide and process for crosslinking. 2,937,164, 5-17-60, Cl. 260-80.7.
- Brown, Harry K., and J. Markestein, to General Motors Corp. Brake rigging. 2,963,120, 12-6-60, Cl. 188-153.
- Brown, Harry W., to Cutler-Hammer, Inc. Electrical switches. 2,927,983, 3-8-60, Cl. 200-67.
- Brown, Harry W., to National Acme Co. Spindle positioning device. 2,957,566, 10-25-60, Cl. 192-149.
- Brown, Hart. Process and apparatus for separating finely divided solids. 2,958,655, 11-1-60, Cl. 210-19.
- Brown, Harvey A., to Minnesota Mining & Mfg. Co. Chromium complexes of fluorocarbon acids and articles coated therewith. 2,934,450, 4-26-60, Cl. 106-287.
- Brown, Harvey A., and R. I. Coon, to Minnesota Mining & Mfg. Co. Process for preparation of perfluoroalkyl sulfonyl chlorides. 2,950,317, 8-23-60, Cl. 260-543.
- Brown, Harvey J., to Webcor, Inc. Tape cutter. 2,951,410, 9-6-60, Cl. 83-304.
- Brown, Herbert C. Method for converting unsaturated organic compounds to organoboron compounds. 2,925,437, 2-16-60, Cl. 260-606.5.
- Brown, Herbert C. Method of converting unsaturated organic compounds to organoboron compounds. 2,925,438, 2-16-60, Cl. 260-606.5.
- Brown, Herbert C. Method of preparing organoboron compounds. 2,925,441, 2-16-60, Cl. 260-606.5.
- Brown, Herbert C. Method for reducing chemical compounds by reacting with alkali metal borohydrides. 2,945,886, 7-19-60, Cl. 260-570.9.
- Brown, Herbert C., and H. I. Schlesinger. Low temperature preparation of alkali metal borohydrides from metal hydrides and alkyl borates in solution. 2,964,378, 12-13-60, Cl. 23-14.
- Brown, Howard D. Lock and release device for hydraulically operated derricks. 2,930,489, 3-29-60, Cl. 212-8.
- Brown, Hugh M. Sliver evenner. 2,922,197, 1-26-60, Cl. 19-71.
- Brown, Hugh S., to Briggs & Stratton Corp. Grass clipping discharge for power lawn mower. 2,957,295, 10-25-60, Cl. 56-25.4.
- Brown, Ira M. and A. R. Mason's guide and line holding apparatus. 2,945,302, 7-19-60, Cl. 33-85.
- Brown, Jack H. Impact tool with magnetic base. 2,924,871, 2-16-60, Cl. 29-81.
- Brown, Jack T., to Westinghouse Electric Corp. High temperature nickel base alloy. 2,951,757, 9-6-60, Cl. 75-171.
- Brown, James A. Portable lectern. 2,934,388, 4-26-60, Cl. 312-233.
- Brown, James A. Angle-indicating attachment for a pipe bender. 2,953,048, 9-20-60, Cl. 80-15.
- Brown, James D.: *See*—  
Ryser, Leo W., White, Brown, and Franklin. 2,920,455.
- Brown, James L., to Gomoh Ltd. Pre-assembled door units. 2,930,480, 3-29-60, Cl. 206-60.
- Brown, James O.: *See*—  
Glasgow, Clarence O., and Brown. 2,944,562.
- Brown, James R., J. D. Wallace, and D. H. Lewis. Phonocardiatic catheter. 2,949,910, 8-23-60, Cl. 128-2.5.
- Brown, James W., and W. K. Lewis, Jr., to Esso Research and Engineering Co. Fluid coking recycle operation. 2,959,535, 11-8-60, Cl. 208-95.
- Brown, Jerome E.: *See*—  
De Witt, Earl G., Shapiro, and Brown. 2,964,547.
- Brown, Jerome E., E. G. De Witt, and H. Shapiro, to Ethyl Corp. Cyclomatic compounds. 2,959,604, 11-8-60, Cl. 260-429.
- Brown, Jerome E., E. G. De Witt, and T. Shapiro, to Ethyl Corp. Manufacture of cyclopentadienyl manganese carbonyl compounds. 2,960,514, 11-15-60, Cl. 260-429.
- Brown, Jerome E., E. G. De Witt, and H. Shapiro, to Ethyl Corp. Process for the preparation of cyclomatic manganese compounds. 2,964,548, 12-13-60, Cl. 260-429.
- Brown, Joan S. and R. N. Educational or instructive puppet. 2,929,170, 3-22-60, Cl. 46-153.
- Brown, John A.: *See*—  
Klass, Nicholas P., Ide, Stricklin, and Brown. 2,935,472.
- Brown, John A., to Esso Research and Engineering Co. Catalysis of phosphosulfurization reactions. 2,947,740, 8-2-60, Cl. 260-139.
- Brown, John C. Roast rack. 2,935,014, 5-3-60, Cl. 99-426.
- Brown, John F., R. J. Weir, and A. R. Whelan, to Imperial Chemical Industries Limited. Apparatus for the determination and control of compositions in chemical processes. 2,950,177, 8-23-60, Cl. 23-253.
- Brown, John F., Jr., to General Electric Co. Beta-(2-pyridyl) ethyltrichlorosilane and process. 2,924,601, 2-9-60, Cl. 260-290.
- Brown, John K., to A. B. Metal Products Ltd. Electrical switches. 2,931,866, 4-5-60, Cl. 200-16.
- Brown, John T. L., and W. G. Gustafson, to Bell Telephone Laboratories, Inc. Relay for switching connections between three conductors meeting at a common point. 2,938,982, 5-31-60, Cl. 200-112.
- Brown, John W., Jr., to Brown Fintube Co. Heat exchangers. 2,965,360, 12-20-60, Cl. 257-248.
- Brown, John W., Jr., and A. C. K. Nihlen, to Brown Fintube Co. Method and apparatus for brazing fins to tubes. 2,936,517, 5-17-60, Cl. 29-157.3.
- Brown, John W., Jr., and A. C. K. Nihlen, to Brown Fintube Co. Method and apparatus for brazing fins to tubes. 2,961,749, 11-29-60, Cl. 29-157.3.
- Brown, Joseph L. Apparatus for compaction, transportation and discharge of bulk material. 2,932,415, 4-12-60, Cl. 214-82.
- Brown, Joseph S., Jr. Electric outlet socket. 2,924,679, 2-9-60, Cl. 200-51.17.
- Brown, Keith B.: *See*—  
Blake, Charles A., Jr., Brown, and Horner. 2,937,925.
- Brown, Kenneth, to North American Aviation, Inc. Ice prevention in air conditioning systems. 2,943,460, 7-5-60, Cl. 62-272.
- Brown, Kenneth M.: *See*—  
Urban, Peter, and Brown. 2,921,021.
- Brown, Kenneth M., to Universal Oil Products Co. Waste water treatment. 2,927,075, 3-1-60, Cl. 208-208.
- Brown, Kenneth M., to Universal Oil Products Co. Recycle reforming and solvent extraction. 2,938,858, 5-31-60, Cl. 208-96.
- Brown, Lafayette: *See*—  
Brown, Milton S. 2,950,561.
- Brown, Lawrence H., to Dow Corning Corp. Composition consisting essentially of the resinous reaction product of an etherified phenol-aldehyde resin and a silicone resin. 2,920,058, 1-5-60, Cl. 260-43.
- Brown, Lawrence S.: *See*—  
Newell, William H., and Brown. 2,920,817.
- Brown, Lester H. Liquid centrifugal balancer. 2,964,192, 12-13-60, Cl. 210-363.
- Brown, Lewis J., to Pennsalt Chemicals Corp. Drawing lubricant. 2,958,659, 11-1-60, Cl. 252-18.
- Brown, Lewis J., to Pennsalt Chemicals Corp. Paint stripping method and composition. 2,962,395, 11-29-60, Cl. 134-38.
- Brown, Lloyd H.: *See*—  
Campbell, William E., Jr., and Brown. 2,958,288.
- Brown, Lloyd H., to The Quaker Oats Co. Brittle furfurylated phenolic resins and method of making same. 2,965,601, 12-20-60, Cl. 260-43.
- Brown, Lloyd H., and F. K. Cole, to The Quaker Oats Co. Process of separating tantalum from niobium. 2,943,912, 7-5-60, Cl. 23-23.
- Brown, Louis C., to Bell Telephone Laboratories, Inc. Illuminable controller. 2,931,021, 3-29-60, Cl. 340-282.
- Brown, Loyd P. Folding step attachment. 2,948,550, 8-9-60, Cl. 280-166.
- Brown, Mabel W. Removable resilient foam block overshoes. 2,932,910, 4-19-60, Cl. 36-4.5.
- Brown, Marshall T.: *See*—  
Zoll, Maurice B., Brown, and Smith. 2,946,377.
- Brown, Martin J., to Western Electric Co., Inc. Method of plastic encapsulation using irradiation. 2,963,747, 12-13-60, Cl. 18-59.
- Brown, Martin P. High velocity accelerator. 2,953,065, 9-20-60, Cl. 89-1.7.



- Brown, Marvin A.: *See*—  
 Fowler, Kirk, Brown, and Deters. 2,952,387.  
 Fowler, Kirk, Brown, and Deters. 2,952,389.  
 Fowler, Kirk, Brown, and Deters. 2,952,390.
- Brown, Melvin C., and P. F. Grabbe, Jr. Groove location and width gauge. 2,957,247, 10-25-60, Cl. 33-147.
- Brown, Michael A. C. S.: *See*—  
 Arthur, James B., Bardsley, Brown, and Gibson. 2,931,958.
- Brown, Milton S.,  $\frac{1}{4}$  to T. Brown, and  $\frac{1}{4}$  to L. Brown. Mole trap. 2,950,561, 8-30-60, Cl. 43-81.
- Brown, Morden G., and M. L. Polanyi, to American Optical Co. Hemolyzing apparatus. 2,941,869, 6-21-60, Cl. 23-253.
- Brown, Morris C., and W. E. Highley, to ACF Industries, Inc. Carburetor enriching device. 2,920,876, 1-12-60, Cl. 261-39.
- Brown, Morton M., and J. Langer. Lid for pickle barrels. 2,952,377, 9-13-60, Cl. 217-83.
- Brown, Myron J., to Westinghouse Electric Corp. Load and frequency control of power generating systems. 2,933,615, 4-19-60, Cl. 307-57.
- Brown, Nathan J. Process of treating woven textile fabric with a vinyl chloride polymer. 2,955,958, 10-11-60, Cl. 117-113.
- Brown, Norman F.: *See*—  
 Garrett, Henry U., and Brown. 2,937,909.  
 Garrett, Henry U., and Brown. 2,947,518.
- Brown, Norman F., to U.S. Industries, Inc. Free piston. 2,937,598, 5-24-60, Cl. 103-52.
- Brown, Norman F., C. M. Peters, and R. W. Dinning, to Garrett Oil Tools, Inc. Controller. 2,940,477, 6-14-60, Cl. 137-624.19.
- Brown, Norman M., Jr., and W. H. McCormack, to The Garrett Corp. Air data analogue computer. 2,955,761, 10-11-60, Cl. 235-179.
- Brown, Norris J.: *See*—  
 Buckner, Wilbur G., and Brown. 2,928,417.
- Brown, Ora A., and G. D. Johnson, to Joy Mfg. Co. Self-feeding casing mill. 2,940,523, 6-14-60, Cl. 166-55.8.
- Brown, Paul M.: *See*—  
 Davis, Donovan C., and Brown. 2,938,206.
- Brown, Ralph B., R. H. Beter, and J. L. Maddox, to Philco Corp. Binary computer circuit. 2,964,242, 12-13-60, Cl. 235-158.
- Brown, Ralph H., Jr.: *See*—  
 Budzyna, Walter J., and Brown. 2,921,611.
- Brown, Ray E.: *See*—  
 Zieber, Harold C., Brown, and Wengerd. 2,953,876.
- Brown, Raymond L.: *See*—  
 Allen, Oliver L., Borkoski, Brown, and Ferraris. 2,941,222.
- Bartos, John, and Brown. 2,964,128.
- Brown, Raymond N.: *See*—  
 Brown, Joan S. and R. N. 2,929,170.
- Brown, Reams F.: *See*—  
 Cunningham, Fred A., Klatt, Brown, and Slovacek. 2,934,001.
- Brown, Richard A. Scrag saw mill. 2,964,074, 12-13-60, Cl. 143-49.
- Brown, Richard H., to Humber Ltd. Clutch and throttle control mechanisms. 2,923,387, 2-2-60, Cl. 192-084.
- Brown, Robert: *See*—  
 Thompson, George L. 2,935,039.
- Brown, Robert A., and R. B. Hartman, II, to Remington Arms Co., Inc. Power supply for electrical photographic flash unit. 2,923,857, 2-2-60, Cl. 315-167.
- Brown, Robert A., C. S. Cummings, and R. B. Hartman, to Remington Arms Co., Inc. Stud welding system. 2,936,362, 5-10-60, Cl. 219-39.
- Brown, Robert D.: *See*—  
 Drubin, Meir, and Brown. 2,932,789.
- Brown, Robert H.: *See*—  
 Crawford, Archibald M., Lockerby, and Brown. 2,930-888.
- Brown, Robert J., to General Electric Co. Dual fuel system for gas turbine powerplant. 2,931,429, 4-5-60, Cl. 158-11.
- Brown, Robert L.: *See*—  
 Elms, Edwin F., Saunders and Wells. 2,941,768.  
 Molzan, Albert R., and Brown. 2,962,245.  
 Whyte, George. 2,933,791.
- Brown, Robert L., and E. F. Elms. Fastener. 2,930,090, 3-29-60, Cl. 24-73.
- Brown, Robert O.: *See*—  
 Zoeller, Richard J., Tucker, Putnam, Cook, and Brown. 2,929,341.
- Brown, Roger W., to Cone Automatic Machine Co., Inc. End-facing attachment for metal turning machines. 2,919,615, 1-5-60, Cl. 82-11.
- Brown, Ronald E. C., to Siemens Edison Swan Ltd. Electromagnetic sounders or ringers for giving audible calling signals. 2,953,779, 9-20-60, Cl. 340-388.
- Brown & Root, Inc.: *See*—  
 Livingston, Jay K., and Shaver. 2,938,323.  
 Powell, Edward L. 2,932,600.
- Brown, Roy R. Tobacco harvester. 2,923,116, 2-2-60, Cl. 56-27.5.
- Brown, Royce E.,  $\frac{1}{2}$  to F. C. Brown. Art painting kit. 2,954,615, 10-4-60, Cl. 35-26.
- Brown, Royce M. Method for holding and shipping live fish. 2,941,503, 6-2-60, Cl. 119-3.
- Brown, Russell J., and J. Downing, to British Celanese Ltd. Apparatus for manufacture of filamentary material by wet spinning. 2,959,813, 11-15-60, Cl. 18-8.
- Brown, Rutherford. Automobile windshield cover. 2,956,573, 10-18-60, Cl. 135-5.
- Brown, Sam S. Theft alarm system. 2,946,870, 7-26-60, Cl. 200-61.89.
- Brown, Sam S., and J. Brinda, Jr. Theft alarm. 2,956,263, 10-11-60, Cl. 340-63.
- Brown, Sanford W., to North American Aviation, Inc. Silicon-mica composition. 2,953,466, 9-20-60, Cl. 106-39.
- Brown, Sanford W., and A. Albanese, to North American Aviation, Inc. Anti-chatter switching device. 2,926,229, 2-23-60, Cl. 200-104.
- Brown, Shannon W.: *See*—  
 Heiskell, Theodore W., Carlson, and Brown. 2,954,333.
- Brown & Sharpe Mfg. Co.: *See*—  
 Couture, Emile W., and Lees. 2,923,102.  
 Holland, John J., Knott, Bryant, and Dunn. 2,927,403.  
 Krause, August L., and Levesque. 2,926,467.  
 Soucy, George H. 2,943,395.  
 Watelet, Ermand L. 2,947,921.
- Brown, Stanley R., to General Electric Co. Stable waveform generator. 2,952,773, 9-13-60, Cl. 250-27.
- Brown, Thomas A. Skid chain device for automotive vehicles. 2,953,182, 9-20-60, Cl. 152-226.
- Brown, Thomas G.: *See*—  
 Turner, Peter J. A., and Brown. 2,922,891.
- Brown, Thomas G., Jr., to International Telephone and Telegraph Corp. Delay device. 2,951,906, 9-6-60, Cl. 179-15.
- Brown, Thomas L.: *See*—  
 Stogner, Joel M., Brown, and McGuire. 2,961,045.
- Brown, Thomas L., and J. R. Hulme, to Halliburton Oil Well Cementing Co. Weight indicators. 2,925,573, 2-16-60, Cl. 338-47.
- Brown, Thomas T., to Whitehall-Rand, Inc. Electrokinetic apparatus. 2,949,550, 8-16-60, Cl. 310-5.
- Brown, Thurston: *See*—  
 Brown, Milton S. 2,950,561.
- Brown, Walter, to North American Philips Co., Inc. Energy calibration source holder. 2,944,153, 7-5-60, Cl. 250-106.
- Brown, Walter B.: *See*—  
 Hendee, Charles F., Brown, and Fine. 2,959,532.
- Brown, Walter J. Stabilized phase modulators. 2,940,054, 6-7-60, Cl. 332-29.
- Brown, Walter J. Phase modulator and clipper. 2,940,055, 6-7-60, Cl. 332-29.
- Brown, Warren D., to Chrysler Corp. Grommet. 2,922,836, 1-26-60, Cl. 174-153.
- Brown, Warren W., and F. P. Morrow, to Superior Foundry, Inc. Grate bar for pallet of sintering machine. 2,953-366, 9-20-60, Cl. 266-21.
- Brown, Wilfred K., to The Baldwin Piano Co. Pulse generator. 2,944,158, 7-5-60, Cl. 250-233.
- Brown, Wilfred K., to The Baldwin Piano Co. Optical encoder. 2,949,539, 8-16-60, Cl. 250-219.
- Brown, William. Venetian blind construction. 2,923,350, 2-2-60, Cl. 160-166.
- Brown, William C., to Raytheon Co. Low level duplexer system. 2,933,723, 4-19-60, Cl. 343-5.
- Brown, William C., to United States of America, Air Force. Magnetron output control. 2,950,416, 8-23-60, Cl. 315-39.69.
- Brown, William D.: *See*—  
 Hefti, Roy E., and Brown. 2,942,471.
- Brown, William H., to United Aircraft Corp. Exhaust nozzle. 2,928,234, 3-15-60, Cl. 60-35.6.
- Brown, William H., to United Aircraft Corp. Anti-screech inner body. 2,934,891, 5-3-60, Cl. 60-35.6.
- Brown, William J., R. A. Miller, and C. M. Taris, to Bell Telephone Laboratories, Inc. Automatic telephone answering and message-recording system. 2,946,852, 7-26-60, Cl. 179-6.
- Brown, William L., 4th: *See*—  
 Greenspan, Alvin T., and Brown. 2,943,417.
- Brown & Williamson Tobacco Corp.: *See*—  
 Hilgartner, George H., Jr., and Severance. 2,941,667.
- Brown, Winthrop L., to Kent Plastics Corp. Method of molding expanded resins. 2,954,589, 10-4-60, Cl. 18-59.
- Brownback, Henry L. Oil resistant coated gasket material. 2,956,908, 10-18-60, Cl. 117-167.
- Brownback, Henry L. Filtering and non-seizing bearing. 2,965,419, 12-20-60, Cl. 308-122.
- Browne, Charles M.: *See*—  
 Wampler, Roy W., and Browne. 2,938,494.
- Browne, Colin L., to Rohm & Haas Co. Crease-proofing cellulosic fabrics, the fabrics obtained and methods of making them. 2,940,817, 6-14-60, Cl. 88-116.2.
- Browne, Donald W., to Acra Electric Corp. Band clamp. 2,956,325, 10-18-60, Cl. 24-271.
- Browne, Kenneth A., J. A. Burke, and G. J. Sennhauser, to The Chesapeake and Ohio Railway Co. Road-rail vehicle coupling and transfer mechanism. 2,925,791, 2-23-59, Cl. 105-215.
- Browne, Paul W., 51% to himself and J. C. Andras, and 49% to L. Martin and F. A. Thomas. Can, bottle and rubbish container. 2,926,923, 3-1-60, Cl. 280-8.
- Browne, Paul W., 51% to himself and J. C. Andras, and 49% to L. Martin and F. A. Thomas. Disc turning and sharpening device. 2,938,306, 5-31-60, Cl. 51-104.



- Browne, Thomas E., Jr., and A. P. Strom, to Westinghouse Electric Corp. Circuit interrupters. 2,924,690, 2-9-60, Cl. 200-148.
- Browne, Thomas E., Jr., and A. P. Strom, to Westinghouse Electric Corp. Circuit interrupters. 2,965,736, 12-20-60, Cl. 200-148.
- Browne Window Mfg. Co., Inc.: See—  
Williams, William C. 2,939,529.
- Brownell, Carl A., Jr. Method and apparatus for pre-mixing rocket motor fuel. 2,954,666, 10-4-60, Cl. 60-35.6.
- Brownell, Walter T. Airfoil wing root fillet. 2,927,749, 3-8-60, Cl. 244-45.
- Browning, Charles C. Dental partial impression tray. 2,963,786, 12-13-60, Cl. 32-17.
- Browning, Edgar P., to Deere & Co. Control for vehicle power steering and the like. 2,935,883, 5-10-60, Cl. 74-388.
- Browning, Harrison, to Arizona Gear & Mfg. Co. Holder for cylindrical containers. 2,936,992, 5-17-60, Cl. 248-361.
- Browning, Herbert M., and B. R. Hammock, to E. I. du Pont de Nemours and Co. Carton for wound yarn. 2,938,625, 5-31-60, Cl. 206-65.
- Browning, Iben, and J. V. Robinson, to Bell Aerospace Corp. Point light source. 2,960,603, 11-15-60, Cl. 240-41.
- Browning Industries, Inc.: See—  
Browning, Val A. 2,929,164.
- Browning, James N., to Collins Radio Co. Slug tuning device. 2,964,955, 12-20-60, Cl. 74-10.85.
- Browning, Rowland E.: See—  
Bibbo, Carmen, and Browning. 2,945,667.
- Browning, Val A. Automatic firearm. 2,921,503, 1-19-60, Cl. 89-195.
- Browning, Val A., to Browning Industries, Inc. Ventilated sighting rib for firearms. 2,929,164, 3-22-60, Cl. 42-76.
- Brownlee, Kenneth H., to The Meyercoed Co. Carton slitting device. 2,919,488, 1-5-60, Cl. 30-2.
- Brownlee, Robert L. Engine testing machines. 2,936,613, 5-17-60, Cl. 73-116.
- Brownlow, James M., to International Business Machines Corp. Manganese chromium ferrite composition. 2,950,252, 8-23-60, Cl. 252-62.5.
- Brownrigg, Thomas J. Cooking utensil attachment. 2,925,082, 2-16-60, Cl. 126-383.
- Brownscombe, Eugene R., and E. M. Connell, Jr., to The Atlantic Refining Co. Method and apparatus for determining characteristics of earth formations. 2,942,176, 6-21-60, Cl. 324-13.
- Brownstein, Henry J., to Hysan Products Co. Cleaning appliance. 2,933,751, 4-26-60, Cl. 15-257.
- Brownstein, Raymond G., to The Automatic Mfg. Co. Coupling. 2,959,944, 11-15-60, Cl. 64-15.
- Broyles, Addison K., R. C. Mierendorf, and C. W. Porter, to Square D Co. Time limit circuits. 2,951,197, 8-30-60, Cl. 323-58.
- Bruant, Claude: See—  
Meunier, Gaston, and Bruant. 2,965,876.
- Brubaker Electronics, Inc.: See—  
Keeran, Royal V. 2,923,794.
- Brubaker, Wilbur E., to National Dairy Products Corp. Cap feeding apparatus. 2,954,900, 10-4-60, Cl. 221-211.
- Brubaker, Wilson M.: See—  
Hall, Lawrence G., and Brubaker. 2,945,124.  
Robinson, Charles F., and Brubaker. 2,959,677.
- Brubaker, Wilson M., to Bell & Howell Co. Gas analysis. 2,950,387, 8-23-60, Cl. 250-41.9.
- Brubaker, Wilson M., to Consolidated Electrodynamics Corp. Mass spectrometers. 2,957,985, 10-25-60, Cl. 250-41.9.
- Brubaker, Wilson M., to Consolidated Electrodynamics Corp. Speed controls for reproduction of tape recordings. 2,963,555, 12-6-60, Cl. 179-100.2.
- Brubaker, Wilson M., and C. F. Robinson, to Bell & Howell Co. Mass spectrometer. 2,945,126, 7-12-60, Cl. 250-41.9.
- Bruce, Alexander E. Automatic packing jig and vacuum hoist. 2,963,836, 12-13-60, Cl. 53-62.
- Bruce, Alvin F. Reel type lawn trimmer. 2,954,658, 10-4-60, Cl. 56-26.
- Bruce, Donald S., and H. L. Heise, to St. Regis Paper Co. Adhesive mixture containing polyvinyl alcohol, lignosulfonic acid and a migration inhibitor. 2,954,353, 9-27-60, Cl. 260-17.5.
- Bruce, George D.: See—  
Logue, Joseph C., and Bruce. 2,934,270.
- Bruce, George D., to International Business Machines Corp. Electric charge storage apparatus. 2,925,585, 2-16-60, Cl. 340-173.
- Bruce, George D., and R. L. Eibsen, to International Business Machines Corp. Oscillators. 2,944,225, 7-5-60, Cl. 331-113.
- Bruce, George D., R. A. Henle, and J. L. Walsh, to International Business Machines Corp. Transistor circuits. 2,963,594, 12-6-60, Cl. 307-88.5.
- Bruce, John K., to Albert Van Luit & Co. Printing apparatus. 2,944,484, 7-12-60, Cl. 101-425.
- Bruce, John M., Jr., to E. I. du Pont de Nemours and Co. Method for the preparation of trifluoroacetyl fluoride. 2,922,816, 1-26-60, Cl. 260-544.
- Bruce, John M., Jr., to E. I. du Pont de Nemours and Co. Method for the preparation of fluorocarbon acids. 2,927,941, 3-8-60, Cl. 260-537.
- Bruce, Robert M. Integral cleat container. 2,920,807, 1-12-60, Cl. 229-33.
- Bruce, Stanford P., and A. T. Kohlstrunk, to Wheel Trueing Tool Co. Continuous diamond infeed and grinding wheel dresser. 2,933,078, 4-19-60, Cl. 125-11.
- Bruce, Walter A.: See—  
Patterson, Joseph A., and Bruce. 2,919,887.  
Patterson, Joseph A., and Bruce. 2,927,453.
- Bruch, Walter, to Telefunken G.m.b.H. High voltage transformer. 2,930,013, 3-22-60, Cl. 336-185.
- Bruch, Walter, and A. Pollak, to Telefunken G.m.b.H. Power supply for cathode ray tubes. 2,939,041, 5-31-60, Cl. 315-27.
- Bruce, Willis N., to L. Ratner. Fly repellent. 2,937,969, 5-24-60, Cl. 167-22.
- Bruck, Henri, to Commissariat A L'Energie Atomique. Magnetic prisms for separating ionized particles. 2,932,738, 4-12-60, Cl. 250-41.9.
- Bruck, Henri, G. Gendreau, and M. Salvat, to Commissariat A L'Energie Atomique. Magnetic prisms used for separating ionized particles. 2,945,125, 7-12-60, Cl. 250-41.9.
- Bruck, John P., to American-Lincoln Corp. Saber saw. 2,946,358, 7-26-60, Cl. 143-68.
- Bruck, John P., to American-Lincoln Corp. Slip clutch. 2,952,146, 9-13-60, Cl. 64-30.
- Brück, Lothar, to Telefunken Gesellschaft fuer Drahtlose Telegraphie G.m.b.H. High frequency electron discharge device. 2,922,919, 1-26-60, Cl. 315-3.6.
- Brück, Lothar, and A. Lauer, to Telefunken Gesellschaft fuer drahtlose Telegraphie G.m.b.H. Traveling wave tube. 2,933,637, 4-19-60, Cl. 315-3.5.
- Brück, Rolf: See—  
Prill, Alphons, and Brück. 2,941,901.
- Bruckner, Byron L., to General Motors Corp. Automatic soap dispenser for washing machines. 2,946,489, 7-26-60, Cl. 222-160.
- Bruckner, Byron L., and K. O. Sisson, to General Motors Corp. Washing machine dispensing cup. 2,953,006, 9-20-60, Cl. 68-17.
- Brucker, Henry J.: See—  
Klausmann, Milton H., Brucker, and Von Culin. 2,943,769.
- Brucker, John, to Empire Brushes, Inc. Telescoping members with means for locking same. 2,942,900, 6-28-60, Cl. 287-58.
- Bruckman, Denis: See—  
De Villiers, Willem J., and Bruckman. 2,922,175.
- Bruckman, William C., to The Easy Washing Machine Co., Ltd. Tub support. 2,957,331, 10-25-60, Cl. 68-23.
- Bruckmann, Denis: See—  
De Villiers, Willem J., and Bruckmann. 2,958,025.
- Bruckmann, Maurice E. Reed case. 2,937,740, 5-24-60, Cl. 206-13.
- Brüder, Werner A.: See—  
Kraus, Ludwig, and Brüder. 2,932,370.
- Bruderer, Alfred, and E. Dziombak. Combination table and folding chair. 2,956,617, 10-18-60, Cl. 155-123.
- Bruddi, Martin C. Dough divider and topping machine. 2,963,995, 12-13-60, Cl. 107-14.
- Bruddi, Ronald A., to Clark Equipment Co. Lift truck attachment. 2,931,531, 4-5-60, Cl. 214-750.
- Budney, Harry. Mechanism for inserting doll eyes in flexible doll heads. 2,931,096, 4-5-60, Cl. 29-209.
- Budney, Harry. Rolling eye. 2,931,138, 4-5-60, Cl. 46-167.
- Budney, Harry. Miniature doll eye. 2,963,818, 12-13-60, Cl. 46-169.
- Buecker, Gerald J., to Badger Northland, Inc. Feed dispensing silo. 2,938,497, 5-31-60, Cl. 119-52.
- Bueckner, Hubert U.: See—  
Fluskey, Edward E., and Bueckner. 2,932,138.
- Bueckmann, Helmut, to United States of America. Army. Antenna curtain array with coupling network. 2,938,209, 5-24-60, Cl. 343-813.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Braking system for automotive vehicles. 2,929,660, 3-22-60, Cl. 303-22.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Power-steering devices for vehicles. 2,930,357, 3-29-60, Cl. 121-41.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Motor vehicle seats. 2,931,426, 4-5-60, Cl. 155-179.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Two stroke engines. 2,935,053, 5-3-60, Cl. 123-32.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Windshield wiper. 2,937,393, 5-24-60, Cl. 15-245.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Two stroke engines. 2,949,905, 8-23-60, Cl. 123-140.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Hydraulic control devices for changing speeds in transmission systems. 2,955,691, 10-11-60, Cl. 192-3.5.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Centrifugal clutch. 2,957,565, 10-25-60, Cl. 192-105.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Play take-up device for hydraulic control system. 2,961,831, 11-29-60, Cl. 60-54.5.
- Bueggeman, Karl O., and C. M. Sherr. Sound-responsive relay unit. 2,954,489, 9-27-60, Cl. 307-117.
- Buehl, Anton. Flashlight. 2,931,894, 4-5-60, Cl. 240-10.61.
- Buehl, Lawrence, to International Business Machines Corp. Combined gun equilibrators and elevation cylinder. 2,946,262, 7-26-60, Cl. 89-37.



- Bruehl, Lawrence, to International Business Machines Corp. Gun equilibrator. 2,946,263, 7-26-60, Cl. 89-37.
- Bruehl, Lawrence, to International Business Machines Corp. Hydraulic cylinder and piston. 2,946,316, 7-26-60, Cl. 121-38.
- Brueninghaus, Paul, to Rheimum Rheinische Werkzeug- und Metallwarenfabrik G.m.b.H. Blinking liquid fuel burner. 2,963,891, 12-13-60, Cl. 67-53.
- Bruestle, Armin O.: *See—*
- Krekeler, Claude B., Bruestle, and Cartlidge. 2,950,096.
- Bruestle, Carl O., to Syncro Machine Co. Apparatus for annealing and drying wire. 2,954,459, 9-27-60, Cl. 219-155.
- Bruestle, Carl O., to Syncro Machine Co. Cradle assembly for stranding machine. 2,959,907, 11-15-60, Cl. 57-65.
- Bruestle, Carl O., to Syncro Machine Co. Sheave or capstan. 2,963,145, 12-6-60, Cl. 205-20.
- Bruetting, Ludwig, to M. Fuchs. Musical tops. 2,950,641, 8-30-60, Cl. 84-83.
- Brugmann, William H., Jr., H. L. Yowell, and L. A. Mikeska, to Esso Research and Engineering Co. Defolating with oxidized white oil emulsions. 2,945,753, 7-19-60, Cl. 71-27.
- Bruhlin, Joseph: *See—*
- Spinnler, Wilhelm, Bruhlin, Scharli, Huber, and Linder. 2,946,910.
- Bruhlin, Joseph, to Alblswehr Zurich, A. G. Image converter tube. 2,945,975, 7-19-60, Cl. 313-94.
- Bruhna, La Verne E., and V. H. McLaren, Jr., to Elgin National Watch Co. Replaceable end links for expansion watch bands. 2,948,941, 8-16-60, Cl. 24-265.
- Bruin, Pieter: *See—*
- Rumschmidt, Gottfried E., and Bruin. 2,939,859.
- Bruin, Pieter, H. A. Oosterhof, and J. Selman, to Shell Development Co. Process of producing improved epoxy resin compositions. 2,921,923, 1-19-60, Cl. 260-47.
- Bruin, Pieter, and A. Klootwijk, to Shell Oil Co. Chroman derivatives. 2,947,760, 8-2-60, Cl. 260-345.2.
- Bruin, Pieter, and F. H. Sinnema, to Shell Oil Co. Process for curing polyepoxides and resulting products. 2,951,824, 9-6-60, Cl. 260-47.
- Bruin, Pieter, and J. J. Zonsveld, to Shell Oil Co. Curing polyepoxides with an acid anhydride and an acid amide. 2,955,101, 10-4-60, Cl. 260-47.
- Bruining, Hajo, and E. F. De Haan, to North American Philips Co. Inc. Colour-television cathode-ray tube. 2,926,283, 2-23-60, Cl. 315-21.
- Brukner, John S., to Texaco Inc. Method for converting a drilling fluid into a well packer fluid. 2,931,772, 4-5-60, Cl. 252-8.55.
- Brukner, John S., to Texaco Inc. Well packer fluid. 2,939,839, 6-7-60, Cl. 252-8.55.
- Brumby, Harold, and K. A. Whitworth, to The Blackburn Group Ltd. Doors or closure members for bomb bays or like spaces in the fuselages or wings of aircraft. 2,947,533, 8-2-60, Cl. 268-30.
- Brumfield, John C., to I-T-E Circuit Breaker Co. Keyed mounting means for circuit breakers. 2,928,998, 3-15-60, Cl. 317-119.
- Brumley, Corwin H., to Bausch & Lomb Optical Co. Tracking device. 2,923,826, 2-2-60, Cl. 250-201.
- Brumley, Corwin H., and R. J. Meitzer, to Bausch & Lomb Optical Co. Fluorometer. 2,950,391, 8-23-60, Cl. 250-71.5.
- Brumley-Donaldson Co.: *See—*
- Donaldson, Harris M. 2,954,813.
- Brumm, Karl: *See—*
- Haelsig, Hans, and Brumm. 2,942,492.
- Brummer, Ella B. Epilating composition and device. 2,954,324, 9-27-60, Cl. 167-89.
- Brummett, William N.: *See—*
- Dunn, Lonnie M., and Brummett. 2,961,885.
- Brun, Pierre: *See—*
- Galvin, Andre, Besson, Brun, and Thirion. 2,944,083.
- Brunarski, Frederick T.: *See—*
- Berlincourt, Don A., and Brunarski. 2,928,163.
- Brundage, Clinton F., to Minnesota Mining and Mfg. Co. Photoprinting apparatus. 2,959,114, 11-8-60, Cl. 95-73.
- Brundage Co., The: *See—*
- Austin, Harold A. 2,952,404.
- Austin, Harold A., and Gupta. 2,928,587.
- Folz, Samuel. 2,951,720.
- Rockafeld, Wilden A. 2,927,228.
- Rockafeld, Wilden A. 2,937,054.
- Brundage, James W., to National Rubber Machinery Co. Tire curing press. 2,959,815, 11-15-60, Cl. 18-17.
- Brundage, John F., D. E. Cleland, and F. M. M. Mirus, to Allis-Chalmers Mfg. Co. Scoop attachment for tractors. 2,930,151, 3-29-60, Cl. 37-126.
- Brundage, John H., to International Telephone and Telegraph Corp. Signal transmission systems. 2,920,291, 1-5-60, Cl. 333-14.
- Brundage, Phillip J., and A. J. Sobey, Jr., to General Motors Corp. Centrifugal pump. 2,957,424, 10-25-60, Cl. 103-97.
- Brundage, Robert W. Hydraulic pump or motor. 2,925,044, 2-16-60, Cl. 103-120.
- Brundage, Robert W. Method and arrangement for cooling variable volume hydraulic pumps at low volumes. 2,948,229, 8-9-60, Cl. 103-120.
- Brundage, Robert W. Hydraulic pump or motor. 2,956,506, 10-18-60, Cl. 103-120.
- Brundage, Robert W. Hydraulic pump or motor. 2,956,512, 10-18-60, Cl. 103-216.
- Bruderman, Vincent G., to Jetgo Mfg. Co. Motorized golf vehicle. 2,958,386, 11-1-60, Cl. 180-65.
- Brune, Herbert. Screw closure with safety ring. 2,950,832, 8-30-60, Cl. 215-7.
- Brunel, Bernard A. C., to Ch. Gervais, Societe Anonyme. Lid for receptacles. 2,942,752, 6-28-60, Cl. 220-27.
- Brunel, Jacques A. Artificial skiing mat. 2,924,455, 2-9-60, Cl. 272-56.5.
- Brunel, Yves: *See—*
- Donnay, Jacques R., and Brunel. 2,965,707.
- Brunelle, Lawrence J., to Olin Mathieson Chemical Corp. Trigger mechanism with a breech bolt sensing element. 2,922,241, 1-26-60, Cl. 42-69.
- Bruner, Charles O. Bowling game device. 2,946,590, 7-26-60, Cl. 273-37.
- Bruner Corp.: *See—*
- Rudelick, John, and Palmer. 2,920,652.
- Bruner, Frank D., to Stannary Corp. Wheel slip or slide indicator. 2,959,772, 11-8-60, Cl. 340-278.
- Bruner, Reuben G. Vegetable toppers. 2,927,616, 3-8-60, Cl. 146-83.
- Bruni, John G., and P. E. Miller, to Diamond Power Specialty Corp. Multi-port liquid level gauge. 2,949,031, 8-16-60, Cl. 73-331.
- Bruni, Robert J., and C. R. Morgan, to Kalvar Corp. Diazonium compounds. 2,923,703, 2-2-60, Cl. 260-141.
- Brunier, Arthur. Pants topper. 2,931,546, 4-5-60, Cl. 223-73.
- Bruning, Charles, Co., Inc.: *See—*
- Kucera, Thomas J. 2,959,481.
- Bruning, Earl F. Longitudinally yieldable coupling. 2,966,371, 12-27-60, Cl. 284-19.
- Bruna, Eleanor B.: *See—*
- Brunn, Robert B. J. 2,950,463.
- Brunn, Ralph A.: *See—*
- Meusel, Jerome A., and Brunn. 2,942,989.
- Brunn, Robert B. J., deceased, by E. B. Brunn, executrix, to Hazeltine Research, Inc. Pulse-translating system. 2,950,463, 8-23-60, Cl. 340-164.
- Brunner, Anton J., to Western Electric Co., Inc. Composite indicia plates. 2,955,371, 10-11-60, Cl. 40-10.5.
- Brunner, Anton J., and J. R. Marcus, to Western Electric Co., Inc. Article-handling devices. 2,936,061, 5-10-60, Cl. 198-177.
- Brunner, Carl, to Murray Mfg. Corp. Bus bar mounting arrangement. 2,934,660, 4-26-60, Cl. 307-147.
- Brunner, Sam W. Carrying cases. 2,925,841, 2-23-60, Cl. 150-1.6.
- Brunnick, Wayne A., and C. H. Helbing, to Pittsburgh Plate Glass Co. Method of applying wax to strands of glass fibers. 2,946,698, 7-26-60, Cl. 117-54.
- Bruno, Anthony T.: *See—*
- Speno, Martin J., and Bruno. 2,951,692.
- Bruno, August C. Clevis pin with double acting locking operating means. 2,960,741, 11-22-60, Cl. 24-211.
- Bruno, Frederic J., to Oxy-Dry Sprayer Corp. Web tensioning and cleaning apparatus. 2,956,300, 10-18-60, Cl. 15-306.
- Bruno, Frederic J., to Oxy-Dry Sprayer Corp. Web cleaning apparatus. 2,956,301, 10-18-60, Cl. 15-306.
- Bruno, Charles, and J. Staley, to Reynolds Metals Co. Welding of circular joints and the like. 2,960,597, 11-15-60, Cl. 219-125.
- Bruno-New York Industries Corp.: *See—*
- Strauss, Irving. 2,934,098.
- Bruns, Frank J., to Sinclair Refining Co. Pyrolytic conversion of hydrocarbons employing a molten metal as a heat transfer medium. 2,931,843, 4-5-60, Cl. 260-683.
- Bruns, Robert L.: *See—*
- Vitale, Peter T., Bruns, and Leonard. 2,949,425.
- Bruns, William H., R. A. Couturier, and D. A. Ghersi, to Otis Elevator Co. Elevator system. 2,960,187, 11-15-60, Cl. 187-29.
- Brunsing, Rex L. Multiple can package. 2,952,355, 9-13-60, Cl. 206-65.
- Brunson, Marion O., and W. M. Gearhart, to Eastman Kodak Co. Aqueous dispersion of synthetic polymers for floor polishing composition. 2,928,797, 3-15-60, Cl. 260-23.
- Brunsviga Maschinenwerke Aktiengesellschaft: *See—*
- Büchner, Frank. 2,933,134.
- Leich, Karl, and Menge. 2,954,924.
- Link, Siegfried. 2,965,293.
- Spingies, Erwin, and Rose. 2,954,160.
- Spingies, Erwin, and Rose. 2,960,225.
- Spingies, Erwin, and Rose. 2,961,546.
- Brunswick Automatic Pinsetter Corp.: *See—*
- Albrecht, Alexander J. 2,930,617.
- Daggett, Albert K. 2,941,803.
- Huck, William F. 2,941,804.
- Huck, William F., Albrecht, and Sanford. 2,941,802.
- Huck, William F., Albrecht, and Sanford. 2,946,591.
- Huck, William F., Albrecht, and Sanford. 2,949,300.
- Brunswick-Balke-Collender Co., The: *See—*
- Hine, Clarke F. 2,940,092.
- Lappin, Richard J., and Mohr. 2,922,685.
- Reineman, Richard G. 2,936,826.
- Brunswick Corp.: *See—*
- Berry, Foster W., and Jolitz. 2,964,319.
- Kunzler, Alex. 2,960,806.
- Mohr, Robert G. 2,964,327.
- Montooth, George A. 2,961,237.



- Brunt, Irwin M., and J. M. Shapiro, to Manson Laboratories, Inc. Ultra high frequency oscillator. 2,934,717, 4-26-60, Cl. 331-98.
- Brunt, Frederic K., to Boeing Airplane Co. Fire protective system for jet engines. 2,952,125, 9-13-60, Cl. 60-30.09.
- Brunzell, Otto R. Three wheeled child's wagon. 2,965,387, 12-20-60, Cl. 280-87.01.
- Brusca, Joseph L.: See—  
Murray, Alfred S., and Brusca. 2,945,730.
- Brusie, James P., to General Aniline & Film Corp. Stabilization of 2-p-dioxanone. 2,962,506, 11-29-60, Cl. 260-340.6.
- Bruson, Herman A., and J. Rockett, to Olin Mathieson Chemical Corp. Halogenated aryl mono-ethers of 9,10-dihydroxystearic acid and salts thereof. 2,942,013, 6-21-60, Cl. 260-408.
- Bruss, Elmer W.: See—  
Stolz, Desmond, and Bruss. 2,958,757.
- Brust, Charles K., to Del Mar Engineering Laboratories. High speed externally carried tow target. 2,953,377, 9-20-60, Cl. 273-105.3.
- Bryan, Eugene W.: See—  
Bales, Harold J., and Bryan. 2,925,017.
- Bryan, James S., to Philco Corp. Beam positioning apparatus for cathode ray tubes. 2,943,219, 6-28-60, Cl. 313-179.
- Bryan, James W. Selected frequency transistor transmitter. 2,955,197, 10-4-60, Cl. 250-17.
- Bryan, John L., Jr.: See—  
Tegge, Bruce R., Ryan, Etherington, and Bryan. 2,940,960.
- Bryan, Joseph F., and J. R. Patmore, to Electronic Associates, Inc. Magnetic field detection. 2,929,019, 3-15-60, Cl. 324-43.
- Bryan, Ray K. Micro-adjustable switch. 2,945,922, 7-19-60, Cl. 200-18.
- Bryan, Roland T.: See—  
Jager, Raymond F., Hage, Ammon, and Bryan. 2,920,609.
- Bryan, Samuel, and G. Nielsen, to L.E.E., Inc. Aircraft load and balance computer. 2,929,679, 3-22-60, Cl. 235-61.
- Bryan, William M. Cigarette snuffer and collector. 2,964,044, 12-13-60, Cl. 131-256.
- Bryant, Austin U.: See—  
Grove, Marvin H., and Bryant. 2,965,354.
- Bryant, Austin U., to Walworth Co. Valve construction. 2,950,897, 8-30-60, Cl. 251-172.
- Bryant Chucking Grinder Co.: See—  
Cann, Roald. 2,927,408.  
Carlisle, Stanley L. 2,927,407.  
Lovely, John W. 2,925,659.  
Maker, Paul. 2,937,478.  
Maker, Paul. 2,932,949.  
Patterson, Henry B. 2,947,302.  
Torp, Charles J. 2,927,406.
- Bryant, Clifford A., and O. C. Payne, to Cabin Crafts, Inc. Machine for carving designs in pile fabrics. 2,935,778, 5-10-60, Cl. 26-16.
- Bryant, Donald D. Snap-on dustguard oil seal. 2,935,344, 5-3-60, Cl. 286-6.
- Bryant, Edwin E., to Nelson Muffler Corp. Exhaust muffler. 2,960,179, 11-15-60, Cl. 181-57.
- Bryant Electric Co., The: See—  
Smith, Clarence M. 2,961,631.  
Taylor, Owen L. 2,957,970.
- Bryant, Eugene E., and V. R. Luster, to Ferro Corp. Method of metal preparation for porcelain enameling. 2,961,337, 11-22-60, Cl. 117-50.
- Bryant, Frederick B. Vibratory strain probe. 2,958,221, 11-1-60, Cl. 73-88.5.
- Bryant, Harold A.: See—  
Holland, John J., Knott, Bryant, and Dunn. 2,927,403.
- Bryant, James F. Pneumatic toy. 2,924,459, 2-9-60, Cl. 273-58.
- Bryant, John D. W., and L. T. Perriam, to Imperial Chemical Industries Ltd. Flaw detection. 2,955,253, 10-4-60, Cl. 324-37.
- Bryant, Lanell: See—  
Lehman, John F. 2,935,766.
- Bryant, Leroy F. Doll with hoop whirling mechanism. 2,959,878, 11-15-60, Cl. 40-106.3.
- Bryant, Lewis V.: See—  
Trickett, Marion C. 2,933,976.
- Bryant, Marvin R. Circular knitting machine. 2,951,355, 9-6-60, Cl. 66-8.
- Bryant, Ozo N.: See—  
Noyes, Edwin G., Jr., and Bryant. 2,932,306.
- Bryant, Ozo N., to Westinghouse Electric Corp. Steam turbine control. 2,933,301, 4-19-60, Cl. 264-7.
- Bryant, Paul M., to United Aircraft Corp. Fuel transfer system. 2,953,156, 9-20-60, Cl. 137-263.
- Bryant, William M. D.: See—  
Barry, Arthur W., and Bryant. 2,932,632.
- Bryce, Robert S., and W. H. Griggs, to Eastman Kodak Co. Photographic stripping paper. 2,925,340, 2-16-60, Cl. 96-83.
- Bryden, Joseph E., to The General Electric Co. Ltd. Apparatus for the measurement of phase distortion in electric circuits. 2,920,271, 1-5-60, Cl. 324-57.
- Brye, James M., to The Ryan Aeronautical Co. Rotor for self-stabilizing helicopter. 2,939,535, 6-7-60, Cl. 170-160.25.
- Bryer, Jack, to R. Hoe & Co., Inc. Intaglio printing cylinder. 2,929,322, 3-22-60, Cl. 101-375.
- Bryer, Jack, to R. Hoe & Co., Inc. Overload release clutch. 2,966,247, 12-27-60, Cl. 192-56.
- Bryn Mawr Smokers Novelty Co.: See—  
Siegel, Morris B. 2,931,366.
- Bryner, Joseph S., and F. Wills, to United States of America, Atomic Energy Commission. Preparation of thorium bismuthide dispersions. 2,953,508, 9-20-60, Cl. 204-154.2.
- Brynildsen, Jan: See—  
Bergmann, Anders K., Brynildsen, Borgstrom, and Goos. 2,948,780.
- Brynolfsson, Bergur L. Extensible trestle. 2,947,378, 8-2-60, Cl. 182-105.
- Bryno, Carl, and W. R. Smithies, to Her Majesty the Queen in right of Canada, as represented by the Minister of National Defence. Vacuum drying. 2,930,139, 3-29-60, Cl. 34-5.
- Bryntse, Anders I., to Aktiebolaget Bygg-Och Transportekonomi. Lifting fork vehicles. 2,943,755, 7-5-60, Cl. 214-672.
- Bryson, James L., to Bryson Mfg. Co., Inc. Cut off device for electrically operated machines. 2,938,972, 5-31-60, Cl. 200-61.18.
- Bryson Mfg. Co., Inc.: See—  
Bryson, James L. 2,938,972.
- Bryson, Robert F., to Thompson Ramo Wooldridge Inc. Dual drive transmissions. 2,930,255, 3-29-60, Cl. 74-665.
- Brysselbout, Henri A.: See—  
Markley, William F., Brysselbout, and Smirl. 2,943,517.
- Brzeski Jerzy, to The Babcock & Wilcox Co. Pocket shot separator. 2,954,843, 10-4-60, Cl. 183-94.
- Bub, Robert A., to Mine Safety Appliances Co. Zigzag filter blank and method of making a filter. 2,943,700, 7-5-60, Cl. 183-71.
- Bubb, Frank W., to Phillips Petroleum Co. Computer. 2,950,862, 8-30-60, Cl. 235-180.
- Bubley, Henry J.: See—  
Hutchings, Robert A., Schwichtenberg, and Bubley. 2,938,307.
- Buc, Saul R., to General Aniline & Film Corp. Solubilization of dissociable ionic structures. 2,953,423, 9-20-60, Cl. 8-85.
- Buc, Saul R., and E. P. Williams, to General Aniline & Film Corp. Amides of aminoalkyl pyrrolidones. 2,945,863, 7-19-60, Cl. 260-326.3.
- Bucalo, Louis, to Specialties, Inc. Motive means having low speed output. 2,938,409, 5-31-60, Cl. 74-798.
- Buck, Hans: See—  
Berghaus, Bernhard, and Bueck. 2,929,947.  
Berghaus, Bernhard, and Bueck. 2,946,708.  
Berghaus, Bernhard, and Bueck. 2,955,998.
- Bueck, Hans, to Elektrophysikalische Anstalt Bernhard Berghaus. Method and apparatus for the performance of technical processes by means of electric glow discharges. 2,921,178, 1-12-60, Cl. 219-121.
- Bueck, Hans, to Elektrophysikalische Anstalt Bernhard Berghaus. Glow discharge apparatus. 2,927,231, 3-1-60, Cl. 313-26.
- Bucchianeri, Angelo G.: See—  
Wayson, Andrew J., and Bucchianeri. 2,936,568.  
Wayson, Andrew J., and Bucchianeri. 2,964,899.
- Bucci, James A.: See—  
Brennen, Ronald F., and Bucci. 2,950,381.
- Buccicone, Dario, to Bucci Engineering Co., Inc. Sheet piling apparatus. 2,938,724, 5-31-60, Cl. 271-68.
- Buccicone, Dario, to Bucci Engineering Co., Inc. Sheet handling apparatus. 2,947,429, 8-2-60, Cl. 214,006.
- Buccicone, Dario, to Bucci Engineering Co., Inc. Sheet handling apparatus. 2,953,238, 9-20-60, Cl. 198-41.
- Bucciconi Engineering Co., Inc.: See—  
Buccicone, Dario. 2,938,724.  
Buccicone, Dario. 2,947,429.  
Buccicone, Dario. 2,953,238.
- Buccino, Gaetano S., to American Cyanamid Co. Suture package and process of making same. 2,949,181, 8-16-60, Cl. 206-63.3.
- Buchalter, Lloyd A., to Burndy Corp. Bolt cutter. 2,957,242, 10-25-60, Cl. 30-254.
- Buchan, Clifford A. Fly cutter tool. 2,945,426, 7-19-60, Cl. 90-11.
- Buchan, Clifford A. Fly cutter tool. 2,959,109, 11-8-60, Cl. 90-11.
- Buchan, Rudolph C., to Jersey Production Research Co. Apparatus for metering and transferring fluid. 2,951,368, 9-6-60, Cl. 73-224.
- Buchanan, Beverly J. Aquarium aerator pump. 2,942,772, 6-28-60, Cl. 230-55.
- Buchanan, David L., to The Budd Co. Temperature controlling apparatus. 2,951,640, 9-6-60, Cl. 236-1.
- Buchanan Electrical Products Corp.: See—  
Kusiv, Daniel B. 2,965,700.  
Mittleman, Albert. 2,939,621.  
Ustin, George. 2,922,139.
- Buchanan, J. W. (Amos). Window regulating attachment. 2,949,718, 8-23-60, Cl. 56-192.
- Buchanan, John C.: See—  
Hughel, Alvin M., and Buchanan. 2,932,108.
- Buchanan, Lee M.: See—  
Decker, Herbert M., Buchanan, and Porter. 2,959,523.



- Buchanan, Leslie B. M., to Westinghouse Electric Corp. Thermoelectric warming and cooling appliance. 2,943,452, 7-5-60, Cl. 62-3.
- Buchanan, Leslie B. M., to Westinghouse Electric Corp. Refrigerating apparatus with hot gas defrost means. 2,957,316, 10-25-60, Cl. 62-153.
- Buchanan, Stephen N. Housing unit and mounting means. 2,932,000, 4-5-60, Cl. 339-125.
- Buchanan, Thomas E. Fishing device. 2,961,793, 11-29-60, Cl. 43-42,74.
- Buchel, Werner, and P. R. Grunberger, to Landis & Gyr A.G. Thermostatic valve for automatic heating or cooling regulation. 2,936,121, 5-10-60, Cl. 236-1.
- Bucher, Carl H., D. J. Crowley, and E. E. Folkenroth, to AMP Inc. Feeding and crimping method and apparatus. 2,939,505, 6-7-60, Cl. 153-1.
- Bucher, Carl H., and G. J. Handel, Jr., to AMP Inc. Electrical connector. 2,943,293, 6-28-60, Cl. 339-223.
- Bucher-Guyer A.-G. Maschinenfabrik: *See*—Hauser-Bucher, Walter. 2,932,354.
- Buchheim, Donald S., to Republic Aviation Corp. Plier-type, article-holding wrench. 2,952,178, 9-13-60, Cl. 81-55.
- Buchholz, Arnold R., to Brandt Automatic Cashier Co. Coin dispensing machine. 2,937,650, 5-24-60, Cl. 133-4.
- Buchholz, Arnold R., to Brandt Automatic Cashier Co. Coin delivery machine. 2,957,481, 10-25-60, Cl. 133-4.
- Buchholz, Arnold R., and F. Haban, to Brandt Automatic Cashier Co. Coin dispensing machine. 2,922,427, 1-26-60, Cl. 133-2.
- Buchholz, Arnold R., and F. Haban, to Brandt Automatic Cashier Co. Coin delivery chute. 2,952,348, 9-13-60, Cl. 193-31.
- Buchholz, Karl, F. Stastny, and R. Gaeth, to Badische Anilin- & Soda Fabrik Aktiengesellschaft. Process of making expandable particulate styrene polymer by diffusion of a volatile liquid hydrocarbon into said polymer particles. 2,950,261, 8-23-60, Cl. 260-2.5.
- Buchholz, Werner, M. K. Haynes, and G. E. Whitney, to International Business Machines Corp. Magnetic core buffer storage and conversion system. 2,931,014, 3-29-60, Cl. 340-174.
- Buchholz, Willi: *See*—Detert, Ernst-Rolf, and Buchholz. 2,927,588.
- Buchi, Alfred. Turbine driven multi-stage blower or pump. Re. 24,810, 4-19-60, Cl. 230-116.
- Buchi, Alfred, deceased; H. Walder, executor. Internal combustion engines. Re. 24,851, 8-9-60, Cl. 123-32.
- Buchi, Alfred. Two-stroke internal combustion engines. 2,924,069, 2-9-60, Cl. 60-13.
- Buchi, Alfred, deceased, and Dr. H. Walder, executor. Reciprocating piston engine type gas generator for gas turbines. 2,938,506, 5-31-60, Cl. 123-52.
- Buchi, Alfred. Valve actuating gear for four-stroke internal combustion engines. 2,958,316, 11-1-60, Cl. 123-79.
- Buchi, Alfred. Two-stroke internal combustion engines. 2,962,009, 11-29-60, Cl. 123-65.
- Buchi, Alfred J. Means for lubricating and cooling a turbine-driven compressor. 2,922,569, 1-26-60, Cl. 230-116.
- Buchi, George H., and R. E. Erickson, to The Givaudan Corp. Patchoulione. 2,942,029, 6-21-60, Cl. 260-587.
- Buchinski, Joseph J., R. M. Focking, R. E. Gluyas, and R. A. Powers, to Union Carbide Corp. Silver alloy for silver iodide batteries. 2,932,569, 4-12-60, Cl. 75-173.
- Buchman, Henry. Tray for making a corrective foot-molded appliance. 2,924,849, 2-16-60, Cl. 18-5.1.
- Buchmann, Fred J.: *See*—De Vries, Arthur D., and Buchmann. 2,946,775.
- Steffgen, Frederick W., Kimberlin, and Buchmann. 2,965,563.
- Büchner, Frank, to Brunsviga Maschinenwerke Aktiengesellschaft. Card punching machines for multi-section cards. 2,933,134, 4-19-60, Cl. 164-112.
- Buchner, Marvin K., and C. R. Thompson, to Food Machinery and Chemical Corp. Fruit preparation apparatus. 2,931,405, 4-5-60, Cl. 146-51.
- Buchner, Marvin K., and C. R. Thompson, to Food Machinery and Chemical Corp. Pear feeder. 2,953,236, 9-20-60, Cl. 198-33.
- Buchoff, Leonard S. Tube for determining dissolved oxygen in low concentrations. 2,929,687, 3-22-60, Cl. 23-253.
- Buchsbaum, Walter H., to Standard Coil Products Co., Inc. Network response testing apparatus. 2,930,975, 3-29-60, Cl. 324-57.
- Buchsbaum, Walter H., to American Brake Shoe Co. Electronic guard. 2,963,627, 12-6-60, Cl. 317-149.
- Buchtenkirch, Arthur J., to North Atlantic Industries, Inc. Rotary magnetic actuator. 2,934,680, 4-26-60, Cl. 317-197.
- Bucic, George, Jr. Bubble producing devices. 2,942,375, 6-28-60, Cl. 46-7.
- Buck, Benjamin L., deceased, by H. B. Rollins, executor, 1/2 to H. B. Rollins. Tomato trimming machine. 2,933,115, 4-19-60, Cl. 146-81.
- Buck, Dudley A., to Research Corp. Saturable switch. 2,933,618, 4-19-60, Cl. 307-88.
- Buck, Dudley A., to Arthur D. Little Inc. High speed cryotron. 2,936,435, 5-10-60, Cl. 338-32.
- Buck, Dudley A., to Arthur D. Little, Inc. Multiple gate cryotron switch. 2,959,688, 11-8-60, Cl. 307-88.5.
- Buck, Ernest A. Expanded polystyrene quick change displays. 2,931,510, 4-5-60, Cl. 211-1.
- Buck, Eugene W., to Buck Mfg. Co. Magnetically supported portable tools. 2,932,194, 4-12-60, Cl. 77-59.
- Buck, Eugene W., to Buck Mfg. Co. Power feed. 2,955,491, 10-11-60, Cl. 77-33.4.
- Buck, George S., Jr., and N. F. Getchell, to National Cotton Council of America. Process of inducing a crease into creaseproofed cellulose fabrics by treating with an acid catalyst and hot pressing a crease in the treated area. 2,957,746, 10-25-60, Cl. 8-129.
- Buck, Harlan M., Inc.: *See*—Saulson, Saul. 2,947,995.
- Saulson, Saul and S. H. 2,947,994.
- Buck, Harry V., to General Dynamics Corp. Printed circuit subassemblies and test fixtures. 2,951,185, 8-30-60, Cl. 317-101.
- Buck, Henry M., to Jersey Production Research Co. Device for sampling formation fluids. 2,927,641, 3-8-60, Cl. 166-64.
- Buck, Henry M., to Jersey Production Research Co. Flowmeter. 2,934,947, 5-3-60, Cl. 73-155.
- Buck, Henry M., to Jersey Production Research Co. Device for measurement of pressure or temperature in wells. 2,942,462, 6-28-60, Cl. 73-152.
- Buck, Hershell, to Rae Metal Industries, Ltd. Clearance lamp for automotive vehicles. 2,922,875, 1-26-60, Cl. 240-8.2.
- Buck, James A. Combined table and chair for infants. 2,959,211, 11-8-60, Cl. 155-123.
- Buck, James R.: *See*—Taylor, Harry E., and Buck. 2,947,444.
- Buck, Johannes S.: *See*—Nachod, Frederick C., Hoppe, and Buck. 2,921,884.
- Buck, Leonard J., Inc.: *See*—Melvill, Francis L. 2,921,838.
- Buck Mfg. Co.: *See*—Buck, Eugene W. 2,932,194.
- Buck, Eugene W. 2,955,491.
- Buck, Norman. Diving board. 2,963,294, 12-6-60, Cl. 272-66.
- Buck, Phillis G.: *See*—Nachod, Frederick C., Hoppe, and Buck. 2,921,884.
- Buck, Robert A.: *See*—Holland, John D., and Buck. 2,938,077.
- Buck, Robert C. Small parts tray for automobiles. 2,958,566, 11-1-60, Cl. 311-21.
- Buck, Russell E., to Buck Tool Co. Chuck jaw take-up, including a tapered gib. 2,920,896, 1-12-60, Cl. 279-123.
- Buck, Thomas M., to Bell Telephone Laboratories, Inc. Surface treatment of silicon. 2,966,432, 12-27-60, Cl. 134-41.
- Buck Tool Co.: *See*—Buck, Russell E. 2,920,896.
- Buck, Willard E., to Barber-Colman Co. Electric motor. Re. 24,780, 2-9-60, Cl. 318-325.
- Buck, Willard E. Centrifugal switching device. 2,942,075, 6-21-60, Cl. 200-80.
- Buckay, Stanley L.: *See*—Kelley, Oliver K., and Buckay. 2,963,923.
- Buckelew, Evelyn J.: *See*—Buckelew, Lawrence R. 2,923,907.
- Buckelew, Lawrence R., 49% to E. J. Buckelew. Electrical swivel connector. 2,923,907, 2-2-60, Cl. 339-8.
- Buckeridge, Roger M., to Goodman Mfg. Co. Load sensing system for flexible strand supported endless belt conveyors. 2,951,576, 9-6-60, Cl. 198-37.
- Buckey, Hiram O. Toy unicycle riding monkey. 2,942,381, 6-28-60, Cl. 46-247.
- Buckeye Cellulose Corp. The: *See*—Durso, Donald F. 2,931,734.
- Buckeye Iron & Brass Works: *See*—Botkin, Lawrence A. 2,957,504.
- Buckeye Tools Corp.: *See*—Conklin, Robert M., Rockwood, Smelker, and Linsker. 2,925,089.
- Linsker Eugene. 2,955,492.
- Buckholdt, Robert E., to Selas Corp. of America. Industrial gas burner. 2,947,526, 8-2-60, Cl. 263-19.
- Buckingham, David E. J., to D. Napier & Son Ltd. Control systems for power plants having at least two power units. 2,942,416, 6-28-60, Cl. 60-39.15.
- Buckingham, William D., G. H. Ridge, L. D. Root, and F. T. Turner, to The Western Union Telegraph Co. Copy sheet storage and feed mechanism. 2,938,721, 5-31-60, Cl. 271-41.
- Buckingham, William T., to The Griscom-Russell Co. Method of applying a plastic coating. 2,923,640, 2-2-60, Cl. 117-49.
- Buckland, Bruce O., to General Electric Co. Elastic fluid blade with a fine-grained surface. 2,920,007, 1-5-60, Cl. 148-31.
- Buckler, Sheldon A., and N. E. Day, to American Cyanamid Co. Tertiary phosphine oxides. 2,927,945, 3-8-60, Cl. 260-606.5.
- Buckler, Sheldon A., and V. P. Wystrach, to American Cyanamid Co. Phosphinic acid derivatives and methods for preparing same. 2,953,584, 9-20-60, Cl. 260-403.
- Buckles, William. Material stand. 2,961,061, 11-22-60, Cl. 182-181.
- Buckley, Cornelius J.: *See*—Alexander, Herbert C., and Buckley. 2,965,787.
- Buckley Dunton & Co., Inc.: *See*—Woelky, Conrad G. 2,936,145.



- Buckley, Herman T.: *See*—  
Shields, William H., and Buckley. 2,944,920.
- Buckley, Jay S., Jr., and R. G. Berg, to Chas. Pfizer & Co., Inc. Production of 1,2,3,4-tetrahydro-1-naphthoic acid. 2,948,749, 8-9-60, Cl. 260—515.
- Buckman, Daniel R.: *See*—  
MacGillivray, Robert K., and Buckman. 2,929,890.
- Buckman, Kenneth E., to General Motors Corp. Filters for fluids. 2,945,559, 7-19-60, Cl. 183—71.
- Buckman Laboratories, Inc.: *See*—  
Buckman, Stanley J., Pera, and Appling. 2,929,758.
- Buckman, Stanley J., J. D. Pera, and J. W. Appling, to Buckman Laboratories, Inc. Processes for the control of iron bacteria and compositions for use therein. 2,929,758, 3-22-60, Cl. 162—161.
- Buckmann, John P., to Union Oil Co. of California. High V.I. detergent lubricating oils. 2,939,841, 6-7-60, Cl. 252—32.7.
- Buckmeyer, Henry W.: *See*—  
Oates, Robert F., and Buckmeyer. 2,922,106.
- Bucknell, Ernest H.: *See*—  
Bletcher, Ralph E., Ward, and Bucknell. 2,923,315.
- Bucknell, Ernest H., small percentages to various assignees. Shower head. 2,923,482, 2-2-60, Cl. 239—591.
- Bucknell, Mabel: *See*—  
Bletcher, Ralph E., Ward, and Bucknell. 2,923,315.
- Buckner, Guy O., Jr., to Welox, Inc. Well bore resistivity scanning system. 2,963,640, 12-6-60, Cl. 324—1.
- Buckner, Jack, to American Optical Co. Spectacle frame manufacture. 2,921,361, 1-19-60, Cl. 29—20.
- Buckner, John F.: *See*—  
Best, Leon H., and Buckner. 2,930,488.
- Buckner, Laurel W.: *See*—  
Peaker, Paul R., and Buckner. 2,960,709.
- Buckner Lowell R., Jr., to Socony Mobil Oil Co., Inc. Method and apparatus for the supply of fluid reactants to compact beds of granular contact material. 2,956,010, 10-11-60, Cl. 208—166.
- Buckner Mfg. Co., Inc.: *See*—  
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- Buckner, Wilbur G., and N. J. Brown, to Advanced Design and Development Co. Check valve. 2,928,417, 3-15-60, Cl. 137—538.
- Bucko, Edward P. Crate for shipping glass. 2,950,001, 8-23-60, Cl. 206—1.
- Buckwalter, Howard M., and J. M. Almand, to United States Rubber Co. Bonding textiles to rubbers with resorcinol and diaryl guanidine formaldehyde reaction product. 2,927,051, 3-1-60, Cl. 154—139.
- Bucourt, Robert: *See*—  
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- Joy, Robert, and Bucourt. 2,943,093.
- Joly, Robert, and Bucourt. 2,957,000.
- Joly, Robert, Bucourt, and Toromanoff. 2,926,167.
- Bucourt, Robert J. Valls, and R. Joly, to Les Laboratoires Francais de Chimiotherapie. Process of preparing tryptamine compounds. 2,920,080, 1-5-60, Cl. 260—319.
- Bueyrus-Erie Co.: *See*—  
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- Pietsch, William C. 2,947,397.
- Buda, Herbert, to J. Pfundner. Bell ringing machines. 2,952,013, 9-6-60, Cl. 340—398.
- Budahn, Burnell E. Apparatus for spray drying flowable liquid-containing material. 2,936,029, 5-10-60, Cl. 159—4.
- Budai, Steve G., to The Globe-Wernicke Co. Flexible office work space and partition structure. 2,930,665, 3-29-60, Cl. 312—111.
- Budd, Chester B., to The B. F. Goodrich Co. Glass fiber material. 2,930,105, 3-29-60, Cl. 28—80.
- Budd, Chester B., and D. E. Weaver, to The B. F. Goodrich Co. Method for coating filaments of glass. 2,934,458, 4-26-60, Cl. 117—126.
- Budd Co., The: *See*—  
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- Buchanan, David L. 2,951,640.
- Dean, Albert G. 2,946,295.
- Dean, Walter B., and Bauer. 2,946,297.
- Ebenbach, Robert. 2,955,547.
- Eggert, Walter S., Jr. 2,939,944.
- Hackman, Clarence B. 2,925,305.
- Herbert, Thomas M. 2,955,679.
- Hykes, Paul G. 2,925,304.
- Hykes, Paul G., Roberts, and Bradley. 2,948,568.
- Krouse, Glen N. 2,920,895.
- Krouse, Glen N., and Sutton. 2,921,282.
- Murphy, Goodrich K. 2,946,294.
- Murphy, Goodrich K. 2,963,988.
- Budd, Donald K. Locking mechanisms. 2,959,814, 11-15-60, Cl. 18—16.
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- Budd, Wilbert H.: *See*—  
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- Budd, Wilbert H., M. B. Arisman, and A. M. Daily, to Chicago Telephone Supply Corp. Miniature single pole single throw switch. 2,932,709, 4-12-60, Cl. 200—153.
- Budde, James C., to American Radiator & Standard Sanitary Corp. Valve construction. 2,922,616, 1-26-60, Cl. 251—148.
- Buddecke, Heinrich. Yarn packaging apparatus. 2,936,508, 5-17-60, Cl. 28—21.
- Buddo, Charles W., and W. M. and R. C. Maybee: said W. M. and R. C. Maybee assors. to said Buddo. Single lever operating controls. 2,933,943, 4-26-60, Cl. 74—471.
- Budenbom, Horace T., to Bell Telephone Laboratories, Inc. Compensated hybrid ring. 2,943,273, 6-28-60, Cl. 333—11.
- Budenbom, Horace T., to Bell Telephone Laboratories, Inc. Compensated hybrid ring. 2,959,751, 11-8-60, Cl. 333—11.
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- Budlong, Simeon: *See*—  
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- Budlong, Willis A.: *See*—  
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- Budlong, Willis A., G. G. Drew, and J. A. Harr, to Bell Telephone Laboratories, Inc. Electronic telephone switching system. 2,955,165, 10-4-60, Cl. 179—18.
- Budney, Henry S.: *See*—  
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- Budney, Michael P., H. S., and T. W., and M. F. Saczawa, to Atlantic Machine Tool Works, Inc. Jig borer. 2,931,253, 4-5-60, Cl. 77—4.
- Budney, Thaddeus W.: *See*—  
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- Budwig, Gilbert G. Spraying device. 2,948,480, 8-9-60, Cl. 239—418.
- Budwig, Gilbert G. Liquid mixing and spraying device. 2,940,673, 6-14-60, Cl. 239—314.
- Budzich, Tadeusz, to The New York Air Brake Co. Engine control. 2,921,560, 1-19-60, Cl. 121—38.
- Budzich, Tadeusz, to The New York Air Brake Co. Engine. 2,925,046, 2-16-60, Cl. 103—162.
- Budzich, Tadeusz, to The New York Air Brake Co. Pump. 2,953,099, 9-20-60, Cl. 103—162.
- Budzilek, Alfonse E.: *See*—  
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- Budzyna, Joseph M., to Draper Corp. Loom picker. 2,943,647, 7-5-60, Cl. 139—159.
- Budzyna, Walter J., and R. H. Brown, Jr., to Draper Corp. Filling holding and cutting mechanism for looms. 2,921,611, 1-19-60, Cl. 139—263.
- Bueche, Arthur M.: *See*—  
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- Büeche, Walter: *See*—  
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- Buecheler, Paul, and J. Guenthard, to Sandoz A.G. Blue disperse dyestuffs of the anthraquinone series. 2,921,944, 1-19-60, Cl. 260—376.
- Buechler, Paul W. Composite bowl structure. 2,927,700, 3-8-60, Cl. 211—71.
- Buechler, William R., to General Electric Co. Control arrangement for clothes washing machine. 2,934,926, 5-3-60, Cl. 68—12.
- Buechner, William W., to High Voltage Engineering Corp. Electromagnetic voltage generator. 2,957,094, 10-18-60, Cl. 310—111.
- Buecker, Carl H., to The Magnavox Co. Gunfiring solenoid. 2,935,001, 5-3-60, Cl. 89—135.
- Buehler, Arthur, A. Fasciati, and H. Riat, to Ciba Ltd. New chromiferous monoazo-dyestuffs. 2,943,084, 6-28-60, Cl. 260—145.
- Buehler, Ernesto: *See*—  
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- Buehler, Henry J., to Anheuser-Busch, Inc. Method of stabilizing vitamin B-12 active material. 2,923,663, 2-2-60, Cl. 167—81.
- Buehler, Maynard P. Adjustable telescope sight mount. 2,951,292, 9-6-60, Cl. 33—50.
- Buehler, William J., and C. G. Dalrymple, to United States of America, Navy. Precipitation-hardenable, aluminum-containing iron base alloy. 2,960,401, 11-15-60, Cl. 75—124.
- Buehler, William J., and J. F. Nachman, to United States of America, Navy. Elevated temperature working of metals and alloys. 2,950,526, 8-30-60, Cl. 29—424.
- Buell, Warren M., and F. B. Hamachek, III, to Diamond Crystal Salt Co. Magnetic belt drive for bulk salter. 2,964,071, 12-13-60, Cl. 141—162.
- Bueneman, Alvin R., to Irvington Machine Works, Inc. Circular saw. 2,958,348, 11-1-60, Cl. 143—139.
- Buensod-Stacey, Inc.: *See*—  
Kreutner, Joseph W. 2,936,123.
- Waterfill, Robert W. 2,933,100.
- Buerger, Herbert. Vehicle wheel covers and lock rings for securing such covers to an automotive vehicle wheel. 2,964,355, 12-13-60, Cl. 301—37.
- Buesing, Ernest A. Controllable feeding device for animals. 2,923,275, 2-2-60, Cl. 119—52.
- Buesing, Richard T., to General Electric Co. Signal combining circuit. 2,923,888, 2-2-60, Cl. 330—124.
- Buetow, Ralph W.: *See*—  
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- Buettner, Raymond J., W. R. Sievert, J. F. Svoboda, and M. J. Robinson, to Precision Metal Workers. Chair base and seat post adjustment. 2,939,514, 6-7-60, Cl. 155—94.



- Buff, Bern F.: *See*—  
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- Buff, Christopher, to Mackey Radio and Telegraph Co. Narrow to wide band converter. 2,932,730, 4-12-60, Cl. 250—8.
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- Buffalo Pottery, Inc.: *See*—  
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- Buffet, Jean, and J. Meriaux, to Compagnie du Filage des Metaux et des Joint Curty. Method of boring metals. 2,956,337, 10-18-60, Cl. 29—555.
- Buffing, Inc.: *See*—  
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- Buffington, John W., to General Mills, Inc. Dip soldering machine. 2,964,007, 12-13-60, Cl. 113—126.
- Buffington, Prudence M. Support and anchorage for headgear. 2,922,426, 1-26-60, Cl. 132—57.
- Bufole, John. Guide for the ball float of flush tanks. 2,920,833, 1-12-60, Cl. 248—214.
- Bufole, John. Stepladders. 2,960,181, 11-15-60, Cl. 182—176.
- Bugay, Rudolph J. Silverware holder. 2,930,558, 3-29-60, Cl. 248—37.6.
- Bugbee and Niles Co.: *See*—  
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- Bugbird, Herbert C.: *See*—  
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- Buge, Nils E., to Elektrokemisk A/S. Electric smelting furnace with bottom tapping hole. 2,957,936, 10-25-60, Cl. 13—33.
- Bugiani, Araldo: *See*—  
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- Bugnone, Aldo. Carton. 2,933,232, 4-19-60, Cl. 229—41.
- Bugosh, John, to E. I. du Pont de Nemours and Co. Hydrophilic polyurethane foam structure and process. 2,920,983, 1-12-60, Cl. 117—98.
- Bugosh, John, to E. I. du Pont de Nemours and Co. Method of esterifying the surface of alumina monohydrate platelets and product thereof. 2,944,914, 7-12-60, Cl. 106—308.
- Bugyi, Edward T. Washable strings for machinists' and similar type aprons. 2,948,037, 8-9-60, Cl. 24—73.
- Buher, Charles O.: *See*—  
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- Buhl, William E., Jr. Battery cover. 2,956,101, 10-11-60, Cl. 136—181.
- Buhler, Walter C., to United States of America, Navy. Stressed skin parachute. 2,959,385, 11-8-60, Cl. 244—145.
- Buhr Machine Tool Co.: *See*—  
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- Buhrer, Erwin: *See*—  
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- Buhrer, Erwin, to Georg Fischer Aktiengesellschaft. Cooling system for foundry molds. 2,942,718, 6-28-60, Cl. 198—31.
- Buhrer, Erwin. Transfer system for foundry molds. 2,948,932, 8-16-60, Cl. 22—20.
- Buhrow, Walter: *See*—  
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- Buhtz, Roderick L.: *See*—  
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- Bule, James L., to Hoffman Electronics Corp. Linear discriminators or the like. 2,947,863, 8-2-60, Cl. 250—27.
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- Building Products Ltd.: *See*—  
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- Bulvid, Michel D., to United Aircraft Corp. Means of folding rotor blades. 2,925,130, 2-16-60, Cl. 170—160.12.
- Bujan, Albert F., to Abbott Laboratories. Venoclysis apparatus. 2,941,778, 6-21-60, Cl. 251—9.
- Bujold, Victor N., to Web Wilson Oil Tools, Inc. Tool safety latch. 2,957,724, 10-25-60, Cl. 294—102.
- Bukalders, Edwards, H. R. Chadwick, J. Ogden, E. B. Gibson, and G. Greaves, to Slatengors Ltd. Tennis balls and their coverings. 2,952,063, 9-13-60, Cl. 28—72.
- Bukoff, Peter, to Bendix Aviation Corp. Cylinder liner. 2,926,053, 2-23-60, Cl. 309—3.
- Bulat, Thomas J., to Bendix Aviation Corp. Process for ultrasonic quenching of steel articles. 2,920,988, 1-12-60, Cl. 148—21.55.
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- Bulger, Donald W., to General Electric Co. Printed circuit sandwiched in glass. 2,937,358, 5-17-60, Cl. 339—17.
- Bulin, Shelly A., to J. I. Case Co. Concave overload release mechanism. 2,931,363, 4-5-60, Cl. 130—27.
- Bulkley, William L., and J. R. Krebs, to Standard Oil Co. Comparison colorimeter. 2,953,963, 9-27-60, Cl. 88—14.
- Bull, Arthur W., to United States Rubber Co. Method of and apparatus for recording information on a pneumatic tire and product obtained thereby. 2,920,674, 1-12-60, Cl. 152—361.
- Bull, Henry C.: *See*—  
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- Bullard Co., The: *See*—  
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Lange, Paul H. 2,920,507.
- Bullard, Daniel R.: *See*—  
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- Bullard, E. D., Co.: *See*—  
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Burnham, William C. 2,928,893.
- Bullard, Edward C., A. A. Tomenceak, and J. E. Ettorre, to The Bullard Co. Synchronizing device. 2,947,188, 8-2-60, Cl. 74—333.
- Bullard, Jack L. Rotary shoe brushing and polishing apparatus. 2,944,278, 7-12-60, Cl. 15—311.
- Bullard, Milford S. Anti-kick device for cows. 2,954,008, 9-27-60, Cl. 119—126.
- Bulldog Electric Products Co.: *See*—  
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- Bull Dog Lock Co.: *See*—  
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- Bullen, Clark V., to Barber-Colman Co. Improved means for creating and combining signal components in condition control apparatus. 2,931,577, 4-5-60, Cl. 236—78.
- Bullen, Russell, and J. F. Jefferson. Hose delivery guide. 2,933,264, 4-19-60, Cl. 242—157.1.
- Buller, Henry. Automatic throttle control system. 2,939,556, 6-7-60, Cl. 192—3.
- Bulletin Co.: *See*—  
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Powers, Richard. 2,964,895.
- Bulleyment, Keith J., to Minneapolis-Honeywell Regulator Co. Condition responsive apparatus. 2,938,174, 5-24-60, Cl. 332—31.
- Buliet, Leander J., and D. P. Youngberg, deceased (by S. L. Spidle, legal representative), to W. F. and John Barnes Co. Position indicator. 2,962,652, 11-29-60, Cl. 323—53.
- Bullis, Douglas E., and M. H. Walker, to Remington Arms Co., Inc. Stud welding apparatus. 2,935,595, 5-3-60, Cl. 219—98.
- Bullock, Earle C., to Steelcase, Inc. Clamp means for joining vertically offset metal tops. 2,940,804, 6-14-60, Cl. 311—4.
- Bullock, Ellis W. Centrifugal fan. 2,958,460, 11-1-60, Cl. 230—134.
- Bullock, Giles E. Spray valves. 2,953,841, 9-27-60, Cl. 29—157.1.
- Bullock, Giles E. Plant duster. 2,961,129, 11-22-60, Cl. 222—193.
- Bullock Mfg. Co., Inc.: *See*—  
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- Bullock, Oakle P. Room air conditioner or the like. 2,924,080, 2-9-60, Cl. 62—262.
- Bulloff, Jack J.: *See*—  
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- Bulloff, Jack J., to The Commonwealth Engineering Co. of Ohio. Vacuum seal for evacuated systems. 2,930,347, 3-29-60, Cl. 118—49.
- Bulloff, Jack J., to The Commonwealth Engineering Co. of Ohio. Process for producing aluminum soaps. 2,957,934, 10-25-60, Cl. 260—414.
- Bulls, James W., J. K. Normand, and E. J. Claassen, Jr., to Sid Richardson Carbon Co. Automatic vacuum packing of pelletized carbon black. 2,922,612, 1-26-60, Cl. 249—59.
- Bulman Corp., The: *See*—  
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- Bulova Research and Development Laboratories, Inc.: *See*—  
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- Bulova Watch Co., Inc.: *See*—  
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- Bulow, Carl L., to Bridgenort Brass Co. Anti-biofouling copper-base alloy. 2,923,620, 2-2-60, Cl. 75—153.
- Buls, Vernon W., and R. S. Miller, to Shell Development Co. Ortho alkylation of phenols. 2,923,745, 2-2-60, Cl. 260—624.
- Bumgarner, Frances V. Apparatus for treating hair. 2,962,031, 11-29-60, Cl. 132—39.
- Bump, Wilson, and W. Weniger. Processes for removing salts and other soluble substances from sea water. 2,921,444, 1-19-60, Cl. 62—58.
- Bumstead, Ralph W.: *See*—  
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- Bumstead, Robert, and R. W. Tape recorder monitoring system and start-stop device therefor. 2,965,720, 12-20-60, Cl. 179—100.1.
- Bunch, Tillman T.: *See*—  
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- Bunch, Tillman T., to Western Electric Co., Inc. Locking mechanism. 2,923,489, 2-2-60, Cl. 242—68.2.
- Bunch, Tillman T., to Western Electric Co., Inc. Strand reeling apparatus. 2,931,588, 4-5-60, Cl. 242—25.
- Bunch, Tillman T., to Western Electric Co., Inc. Method of and apparatus for reeling strands. 2,931,589, 4-5-60, Cl. 242—25.



- Bunch, Tillman T., to Western Electric Co., Inc. Apparatus for distributing strand material. 2,931,595, 4-5-60, Cl. 242—158.4.
- Bunch, Tillman T., to Western Electric Co., Inc. Strand snagging device. 2,946,528, 7-26-60, Cl. 242—25.
- Bunch, Tillman T., M. G. Dinsmore, Jr., and G. E. Henning, to Western Electric Co., Inc. Apparatus for stripping a sheath of plastic material from a core. 2,951,403, 9-6-60, Cl. 81—9.51.
- Bunch, Tillman T., to Western Electric Co., Inc. Devices for removing fluid from the surface of strand material. 2,961,775, 11-29-60, Cl. 34—95.
- Bunce, Roger W., to The Robert Dollar Co. Radio antenna. 2,941,207, 6-14-60, Cl. 343—900.
- Buncher, Earl: *See*—  
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- Bunczk, Charles J., to Quaker Chemical Products Corp. Method of sealing annealing furnaces. 2,956,914, 10-18-60, Cl. 148—13.
- Bundgaard, Howard, and J. W. Preece, to American Cyanamid Co. Apparatus for removing waste filamentary material from a spool or bobbin. 2,957,065, 10-18-60, Cl. 219—19.
- Bunding, Irby M.: *See*—  
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- Bundschoh, John J., and R. G. Elton, to Eastman Kodak Co. Metering and double exposure prevention mechanism. 2,936,687, 5-17-60, Cl. 95—31.
- Bundus, Robert H.: *See*—  
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- Bundus, Robert H., G. C. North, and P. P. Noznick, to Beatrice Foods Co. Valve structure for apparatus for handling fluids under sterile conditions. 2,959,192, 11-8-60, Cl. 137—637.1.
- Bundy, Francis P., to General Electric Co. High temperature high pressure apparatus. 2,941,243, 6-21-60, Cl. 18—16.5.
- Bundy, Francis P., to General Electric Co. High pressure high temperature apparatus. 2,941,246, 6-21-60, Cl. 18—16.5.
- Bundy, Francis P., to General Electric Co. Two-stage high pressure high temperature apparatus. 2,941,247, 6-21-60, Cl. 18—16.5.
- Bundy, Francis P., to General Electric Co. Diamond synthesis. 2,947,611, 8-2-60, Cl. 23—209.1.
- Bundy, John H. Rotary power lawn mower guard. 2,929,186, 3-22-60, Cl. 56—25.4.
- Bundy, Louis E., Jr.: *See*—  
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- Bundy, Oswald M., and J. P. Finley, to The Clark Controller Co. Cam-operable twin-switches. 2,947,827, 8-2-60, Cl. 200—16.
- Bundy, Patrick L.: *See*—  
Hanselman, Harold G., Jr., and Bundy. 2,964,231.
- Bundy, Robert F., to Allen B. Du Mont Laboratories, Inc. Signal generator. 2,922,924, 1-26-60, Cl. 315—169.
- Bundy Tubing Co.: *See*—  
Burnard, Edward O., and Read. 2,960,080.
- Meyers, Richard A. 2,959,842.
- Bunford, Max A. Centrifugal molding machine with hydraulic control means. 2,921,340, 1-19-60, Cl. 18—26.
- Bungardt, Walter, to Goldschmidt, Th. A. G. Pyrophoric alloys with reduced iron content. 2,950,190, 8-23-60, Cl. 75—152.
- Bungart, Henry L., to Sperry Rand Corp. Adjustable lost motion device. 2,920,502, 1-12-60, Cl. 74—665.
- Bunge, Fred H., and I. G. Pocrnich, to The M. A. Hanna Co. Ore beneficiation. 2,944,666, 7-12-60, Cl. 209—5.
- Bunge, Otto: *See*—  
Schürich, Herbert, and Bunge. 2,953,005.
- Bunge, Wilhelm: *See*—  
Windemuth, Erwin, Bunge, and Bayer. 2,954,365.
- Bunge, Wilhelm, E. Windemuth, and K. Mielke,  $\frac{1}{2}$  to Mobay Chemical Co., and  $\frac{1}{2}$  to Farbenfabriken Bayer Aktiengesellschaft. High molecular weight cyclic trimers containing blocked isocyanate groups. 2,952,665, 9-13-60, Cl. 260—77.5.
- Bunger, Dennen J.: *See*—  
Cuny, Richard P., Dietz, Antrim, and Bunger. 2,941,363.
- Bunke, Frederick H. Can crusher. 2,920,554, 1-12-60, Cl. 100—179.
- Bunker, Ward, to General Motors Corp. Engine and vehicle speed control governor. 2,945,547, 7-19-60, Cl. 180—82.1.
- Bunning, Ernest J.: *See*—  
Chute, Richard, and Bunning. 2,945,629.
- Buntenbach, Rudolph W.: *See*—  
Allen, Lloyd W., and Buntenbach. 2,927,215.
- Buntenbach, Rudolph W., to General Precision, Inc. Bridge wire triggered spark gap. 2,935,648, 5-3-60, Cl. 315—173.
- Bunting, Alwyn R. Collating machine. 2,952,456, 9-13-60, Cl. 270—58.
- Bunting Co., Inc., The: *See*—  
Pearlstone, Morton. 2,959,210.
- Bunting, Kemp R.: *See*—  
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- Buono, Frank S., and R. A. Gandi, to United States Rubber Co. Expansion joint. 2,953,618, 9-20-60, Cl. 136—56.
- Buonocore, Michael G., and M. Kuna, to Bristol-Myers Co. Dentifrices. 2,955,984, 10-11-60, Cl. 167—93.
- Buoymaster, Ned W., and D. B. Haagensen, to Cardiotron Electro Medical Laboratories, Inc. Cardiograph stylus calibrations. 2,955,895, 10-11-60, Cl. 346—76.
- Buralli, Ettore: *See*—  
Patrignani, Leonida, and Buralli. 2,919,594.
- Burbank, John E., to Cue Fastener, Inc. Textile processing. 2,942,338, 6-28-60, Cl. 29—408.
- Burbank, Robinson D., R. D. Heidenreich, and E. A. Nesbitt, to Bell Telephone Laboratories, Inc. Magnetic annealing. 2,965,525, 12-20-60, Cl. 148—108.
- Burbey, Chester P.: *See*—  
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- Burbine, William G.: *See*—  
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- Burch, Allen E.: *See*—  
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- Burch, Alvan V., to Burch Plow Works, Inc. Tilt plate planter and method of planting. 2,926,819, 3-1-60, Cl. 222—142.
- Burch, Arthur R. Automobile transmission dolly. 2,940,611, 6-14-60, Cl. 214—1.
- Burch Corp., The: *See*—  
Standfuss, Ernest R. 2,950,660.
- Burch, James R.: *See*—  
Beck, Francis M., and Burch. 2,923,914.
- Burch, James R., to General Electric Co. Magnetic switch. 2,924,685, 2-9-60, Cl. 200—104.
- Burch, Kenneth C. Seal. 2,935,349, 5-3-60, Cl. 288—7.
- Burch Plow Works, Inc.: *See*—  
Burch, Alvan V. 2,926,819.
- Burch, Robert J., and M. W. Leeds, to Air Reduction Co., Inc. Stabilization of chlorinated hydrocarbons with a synergistic combination of a tertiary acetylenic monohydric alcohol and 2,6-di-tert-butyl-para-cresol. 2,945,895, 7-19-60, Cl. 260—652.5.
- Burch, William J. Bulkhead stuffing tube. 2,924,467, 2-9-60, Cl. 286—1.
- Burch, Willie D. Suction operated floor and rug conditioning and cleaning tool. 2,946,080, 7-26-60, Cl. 15—375.
- Burchfield, Arden L. The Air Preheater Corp. Floating sector seals. 2,945,681, 7-19-60, Cl. 257—269.
- Burckhalter, Joseph H., and R. J. Selwald, to University of Kansas Research Foundation. Isothiocyanate compounds and means of producing the same. 2,937,186, 5-17-60, Cl. 260—335.
- Burckhardt, Christof W., to The Rheostatic Co. Ltd. Control of combustion furnaces. 2,966,619, 12-27-60, Cl. 317—130.
- Burckhardt, Manfred H., to Daimler-Benz Aktiengesellschaft. Controller for an automatic motor vehicle transmission. 2,927,475, 3-8-60, Cl. 74—472.
- Burckhardt, Manfred H., to Daimler-Benz Aktiengesellschaft. Hydrodynamic change-speed transmission. 2,949,047, 8-16-60, Cl. 74—732.
- Burd, Samuel I., N. Mayer, and W. B. Berman, to Prestige, Inc. Looping machine and method. 2,948,240, 8-9-60, Cl. 112—25.
- Burder, Henry: *See*—  
Mazur, Joseph. 2,959,879.
- Burdett, Harold D., to The Hub Mfg. Corp. Wheeled agricultural vehicle with traction unit. 2,957,534, 10-25-60, Cl. 180—19.
- Burdett, Henry S., to G. Stibbe & Co., Ltd. Circular knitting machines. 2,938,564, 5-31-60, Cl. 66—14.
- Burdeshaw, Thomas A., to Southern States Equipment Corp. Electric fuse. 2,934,626, 4-26-60, Cl. 200—132.
- Burdick, Clinton D.: *See*—  
Brannin, Richard S., Burdick, Tribken, and Steuer. 2,961,199.
- Burdick, Glen A.: *See*—  
Benda, David, Burdick, and Kautz. 2,963,608.
- Burdick, Glen A., to Sylvania Electric Products Inc. Image display device. 2,937,297, 5-17-60, Cl. 313—85.
- Burdick, Glen A., and G. R. Kautz, to Sylvania Electric Products Inc. Cathode ray tube structure and process. 2,936,683, 5-17-60, Cl. 95—1.
- Burdick, Ray A. Inhalator. 2,951,480, 9-6-60, Cl. 128—194.
- Burdick, Richard. Advertising signs and methods of making same. 2,938,290, 5-31-60, Cl. 40—136.
- Bureau Technique Gautrat: *See*—  
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- Buren Watch Co. S.A.: *See*—  
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- Burfield, Lyle W., and E. C. Bloomgren, to Gerber Sheet Metal Inc. Portable aeration unit for grain in storage. 2,966,110, 12-27-60, Cl. 98—57.
- Burg, Anton B., and R. I. Wagner, to American Potash & Chemical Corp. Phosphine borine compounds and their preparation. 2,920,107, 1-5-60, Cl. 260—543.
- Burg, Anton B., and R. I. Wagner. Phosphinoborine compounds and their preparation. 2,921,095, 1-12-60, Cl. 260—606.5.
- Burg, Anton B., and R. I. Wagner, to American Potash & Chemical Corp. Phosphinoborine compounds and their preparation. 2,921,096, 1-12-60, Cl. 260—606.5.
- Burg, Anton B., and W. Mahler, to American Potash & Chemical Corp. Fluorocarbon phosphorus rings. 2,923,741, 2-2-60, Cl. 260—606.5.
- Burg, Anton B., and W. Mahler, to American Potash & Chemical Corp. Fluorocarbon phosphorus rings. 2,923,742, 2-2-60, Cl. 260—606.5.



- Burg, Anton B., and R. I. Wagner, to American Potash & Chemical Corp. Phosphinoborine compounds and their preparation. 2,925,440, 2-16-60, Cl. 260-606.5.
- Burg, Anton B., and R. I. Wagner, to American Potash & Chemical Corp. Phosphine borine compounds and their preparation. 2,926,194, 2-23-60, Cl. 260-606.5.
- Burg, Anton B., and R. I. Wagner, to American Potash & Chemical Corp. Organochalophosphines. 2,934,564, 4-26-60, Cl. 260-543.
- Burg, Anton B., and P. J. Slota, Jr., to American Potash & Chemical Corp. Manufacture of aminophosphines. 2,941,001, 6-14-60, Cl. 260-551.
- Burg, Anton B., and R. I. Wagner, to American Potash & Chemical Corp. Phosphinoborine compounds and their preparation. 2,948,689, 8-9-60, Cl. 260-2.
- Burg, Anton B., and G. Brendel, to American Potash & Chemical Corp. Fluorocarbon phosphino borines. 2,959,620, 11-8-60, Cl. 260-606.5.
- Burg, Fred G. Movable mounting for machine tool. 2,945,402, 7-19-60, Cl. 77-28.
- Burg, Kenneth E. and E. J. Stulken, to Texas Instruments Inc. System for improving seismic records of underground strata. 2,954,090, 9-27-60, Cl. 181-5.
- Burg, Michael I., to Modern Millinery Box Corp. Hat-box construction. 2,925,950, 2-23-60, Cl. 229-45.
- Burg, Solomon. Double depth selectively firing mechanism for a depth charge. 2,934,012, 4-26-60, Cl. 102-16.
- Burgard, William B., to J. W. Clement Co. Lock-up device. 2,929,323, 3-22-60, Cl. 101-415.1.
- Burgarella, John P.: *See—*  
Rote, William A., Mathews, and Burgarella. 2,932,799.
- Burgdorf, Henry. Free-floating street sweeper elevator. 2,950,827, 8-30-60, Cl. 214-17.
- Burgell, Roy J. G., to Orchard Development Co. (Proprietary) Ltd. Apparatus for producing artificial fog. 2,953,666, 11-1-60, Cl. 252-359.
- Burgeni, Alfred A., to Personal Products Corp. Absorbent product. 2,952,259, 9-13-60, Cl. 128-290.
- Burgeni, Alfred A., to Personal Products Corp. Absorbent product. 2,952,260, 9-13-60, Cl. 128-290.
- Burgeni, Alfred A., to Personal Products Corp. Method of manufacturing an absorbent product. 2,955,641, 10-11-60, Cl. 154-33.
- Burger, Alfred, to Smith, Kline & French Laboratories. 2-(3,4-methylenedioxyphenyl)-cyclopropylamines. 2,934,542, 4-26-60, Cl. 260-340.5.
- Burger, Erich: *See—*  
Burger, Michael and E. 2,952,199.
- Burger, Francis J. P. J., and V. F. G. Tull. Electrolytic capacitors. 2,930,741, 3-29-60, Cl. 204-141.
- Burger, Francis J. P. J., and H. H. Hilton, to General Electric Co. Electrical capacitor. 2,930,951, 3-29-60, Cl. 317-242.
- Burger, Fremont W. Attitude reference device. 2,920,603, 1-12-60, Cl. 116-129.
- Burger, Michael. Flash ignition for cameras. 2,953,074, 9-20-60, Cl. 95-11.5.
- Burger, Michael and E. Automatic regulator for lens diaphragms. 2,952,199, 9-13-60, Cl. 95-64.
- Burger, William H., Jr., H. N. Nelson, and C. H. Rowe, to Kimberly-Clark Corp. Cellulosic product. 2,926,667, 3-1-60, Cl. 128-285.
- Burgermeister Brewing Corp.: *See—*  
Fahrenbach, Wolfgang B., Tonna, and Sariotti. 2,932,929.
- Tonna, Arthur J. 2,934,221.
- Burgert, Billy E., and D. A. Gordon, to The Dow Chemical Co. Thermoplastic compositions having improved stability to heat and light. 2,922,777, 1-26-60, Cl. 260-45.8.
- Burgert, Billy E., and R. L. Hudson, to The Dow Chemical Co. Stabilization of chloro-polymers against thermal degradation. 2,959,566, 11-8-60, Cl. 260-45.8.
- Burgert, Frederick L., to Ideal Pleading Co. Feeder for rucking machine. 2,962,991, 12-6-60, Cl. 112-132.
- Burgert, Herbert A., to IGMA A.G. Spring frame for the upholstery of seats and/or back rests more particularly of seats in motor vehicles. 2,966,207, 12-27-60, Cl. 155-179.
- Burgess-Manning Co.: *See—*  
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- Burgess, George C. Lay out instrument. 2,950,535, 8-30-60, Cl. 33-26.
- Burgess, James V. Ventilation control system. 2,947,239, 8-2-60, Cl. 98-50.
- Burgess, Louis, deceased (M. Burgess and E. B. Beitler, executors of the estate of L. Burgess), to S. Tour and himself. Method of making carbonized briquettes. 2,956,868, 10-18-60, Cl. 44-226.
- Burgess, Murray: *See—*  
Burgess, Louis. 2,956,868.
- Burgess Products Co. Ltd.: *See—*  
Riddell, William. 2,947,831.
- Burgess, Robert W., and H. M. Gorton, to The Greist Mfg. Co. Bound buttonhole attachment. 2,939,412, 6-7-60, Cl. 112-77.
- Burgess, Robert W., C. Curello, and B. S. Nickerson, to The Greist Mfg. Co. Micrometer gages. 2,952,077, 9-13-60, Cl. 33-170.
- Burgess, Roy T., to Borg-Warner Corp. Thermally actuated load relieving device. 2,956,843, 10-18-60, Cl. 308-219.
- Burgess Vibrocrafters, Inc.: *See—*  
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- Burgess, William J. Air powered rotor launcher. 2,938,299, 5-31-60, Cl. 46-32.
- Burgett, Monte I., Jr., to Philco Corp. Character generating means for electronic information display systems. 2,931,936, 4-5-60, Cl. 315-8.6.
- Burgett, Monte I., Jr. Electrical systems. 2,961,576, 11-22-60, Cl. 315-21.
- Burggraf, Frederick, Jr.: *See—*  
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- Burgi, Frank: *See—*  
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- Burgin, Kermit H. Demountable building corner structure. 2,953,225, 9-20-60, Cl. 189-88.
- Burgin, Miller S. Hat holder. 2,939,585, 6-7-60, Cl. 211-32.
- Burgison, Raymond M.: *See—*  
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- Burgner, Josef. Writing block chain. 2,931,666, 4-5-60, Cl. 282-11.5.
- Burgoon, David W., E. J. Ciabattari, and C. Yeomans, to Yeomans Brothers Co. Mixing apparatus. 2,966,345, 12-27-60, Cl. 261-87.
- Burgwald, Theodore A., to Standard Oil Co. Solid propellant combustion catalyst. 2,942,963, 6-28-60, Cl. 52-5.
- Burgwald, Theodore A., J. Linsk, and E. F. Morello, to Standard Oil Co. Stable gas-generating composition. 2,942,964, 6-28-60, Cl. 52-5.
- Burgwin, Stephen L., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,964,950, 12-20-60, Cl. 74-5.
- Burgwin, Stephen L., B. M. Gale, and L. E. Goodman, to Minneapolis-Honeywell Regulator Co. Sensitive instrument. 2,928,281, 3-15-60, Cl. 74-5.
- Burhop, Howard E., to North American Aviation, Inc. Turn-buckle. 2,923,566, 2-2-60, Cl. 287-62.
- Buri, Alfred, to Sulzer Freres, Societe Anonyme. Feed water preheating system for steam power plants. 2,921,441, 1-19-60, Cl. 60-67.
- Buri, Alfred, to Sulzer Freres, S.A. System for distributing steam into resuperheaters. 2,949,896, 8-23-60, Cl. 122-479.
- Buri, Alfred, to Sulzer Freres, S.A. Control of forced flow steam generators. 2,962,865, 12-6-60, Cl. 60-105.
- Burk, George A.: *See—*  
Asadorian, Arthur A., and Burk. 2,941,864.
- Burk, Marvin C., to Phillips Petroleum Co. Emission regulator. 2,945,160, 7-12-60, Cl. 315-106.
- Burk, Marvin C., to Phillips Petroleum Co. Mass spectrometer. 2,959,676, 11-8-60, Cl. 250-41.9.
- Burk, Robert E., E. H. Keller, and D. J. O'Flynn, to E. I. du Pont de Nemours and Co. Bristles for abrading surfaces. 2,920,947, 1-12-60, Cl. 51-298.
- Burkam, John E., to Altoscan Co. Stabilizing gyro. 2,948,155, 8-9-60, Cl. 74-5.6.
- Burkard, Ralph F.: *See—*  
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Lillienfeld, Julius E. 2,929,005.  
Lillienfeld, Julius E. 2,941,929.
- Burkart, Clifford L., and W. J. McEwen, to F. Burkart Mfg. Co. Journal lubricator. 2,920,928, 1-12-60, Cl. 308-243.
- Burkart, F. Mfg. Co.: *See—*  
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- Burke, Charles I.: *See—*  
Lievense, Stanley J., and Burke. 2,927,392.
- Burke, Charles I. Artificial fish lures. 2,955,378, 10-11-60, Cl. 43-42.28.
- Burke, Donald J., to Erico Products, Inc. Toggle clamp. 2,921,486, 1-19-60, Cl. 77-62.
- Burke, Donald J., to Erico Products, Inc. Plastic molding material. 2,940,885, 6-14-60, Cl. 154-53.6.
- Burke, Earl J., to Sprague Electric Co. Winding machine. 2,955,773, 10-11-60, Cl. 242-56.1.
- Burke, Edmund C., and C. M. Zvanut, to The Dow Chemical Co. Rolling magnesium alloy. 2,934,461, 4-26-60, Cl. 148-11.5.
- Burke, Edward J.: *See—*  
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- Burke, Edward J., to Carrier Corp. Air conditioning apparatus. 2,934,323, 4-26-60, Cl. 257-274.
- Burke, Edward J., to Carrier Corp. Air conditioning apparatus. 2,959,933, 11-15-60, Cl. 62-183.
- Burke, George F. C., to United Shoe Machinery Corp. Adhesive applying apparatus. 2,929,353, 3-22-60, Cl. 118-600.
- Burke, George F. C., and R. F. Lane, to United Shoe Machinery Corp. Automatic conveyor systems. 2,920,744, 1-12-60, Cl. 198-85.
- Burke, George K., to R. K. Laros Co. Needle manipulator assembly for donor sets. 2,928,392, 3-15-60, Cl. 128-214.
- Burke, Harry E., Jr.: *See—*  
MacDonald, Duncan N., and Burke. 2,952,844.
- Burke, James D.: *See—*  
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- Burke, Jerry A., Jr., to Experiment Inc. Parachute device. 2,924,409, 2-9-60, Cl. 244-149.
- Burke, John A.: *See—*  
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- Burke, John D. Control member for simultaneous actuation of multi-band tuner and control element. 2,927,203, 3-1-60, Cl. 250-20.



- Burke, John F., and N. J. De Lollis, to United States of America, Army. Hermetic seal and method of making same. 2,941,830, 6-21-60, Cl. 288—1.
- Burke, Louis: *See*—  
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- Burke, Oliver W., Jr.: *See*—  
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- Burke, Robert H.: *See*—  
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- Burke, Thomas J., C. G. Dandrow, Jr., and C. W. Schneible, to Unicitem, Ltd. Calculating device. 2,957,626, 10-25-60, Cl. 235—114.
- Burke, Thomas U., F. G. Hughes, H. Reichle, and T. L. Vinson, to International Business Machines Corp. Automatic record tape handling and loading mechanism. 2,941,738, 6-21-60, Cl. 242—55.12.
- Burke, Thomas U., F. G. Hughes, H. Reichle, and T. L. Vinson, to International Business Machines Corp. Record tape loading mechanism. 2,941,739, 6-21-60, Cl. 242—55.12.
- Burke, William E., to International Minerals & Chemical Corp. Process for the production of magnesium sulfate from langbeinite. Re. 24,890, 10-25-60, Cl. 23—128.
- Burkes, William M., Jr., to Phillips Petroleum Co. Insulated blast tube and method of forming. 2,962,051, 11-29-60, Cl. 138—63.
- Burkhard, Franz, K. Gundlfinger, and W. Volkheimer, to Telefonbau und Normalzeit G.m.b.H. Enciphering device. 2,934,833, 5-3-60, Cl. 35—4.
- Burkhard, George, and P. E. Wrist, to The Ontario Paper Co. Ltd. Means for improving drainage on paper machines. 2,928,466, 3-15-60, Cl. 162—354.
- Burkhard, Ralph F.: *See*—  
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- Burkhardt, George R., to American Brake Shoe Co. Adjustable rail brace. 2,944,740, 7-12-60, Cl. 238—292.
- Burkhardt, Hermann, to Richard Hirschmann Radiotechnisches Werk. Extensible telescopic antenna with drum drive and exchangeable telescope. 2,935,269, 5-3-60, Cl. 242—54.
- Burkhardt, John T. Spacer shoe for a lift magnet. 2,931,678, 4-5-60, Cl. 294—65.5.
- Burkhardt, Edwin J. Radius dresser. 2,919,689, 1-5-60, Cl. 125—11.
- Burkhart, George N., Jr., to Duncan Electric Co., Inc. Automatic dead-reckoner position indicator. 2,924,385, 2-9-60, Cl. 235—188.
- Burkhart, George N., Jr., to Duncan Electric Co., Inc. Automatic calibration for watt-hour meters. 2,957,131, 10-18-60, Cl. 324—74.
- Burkhart, George N., Jr., to Duncan Electric Co., Inc. Automatic calibration for watt-hour meters. 2,957,132, 10-18-60, Cl. 324—74.
- Burkhart, George N., Jr., R. K. O. Lee, and P. E. Pitt, to Duncan Electric Co., Inc. Automatic meter calibration. 2,957,133, 10-18-60, Cl. 324—74.
- Burkhart, William H., to Monroe Calculating Machine Co. Means for diagnosing functional ills of electrical and electronic equipment. 2,925,591, 2-16-60, Cl. 340—213.
- Burkholder, Ward J., to Diamond Alkali Co. Artificial fur. 2,925,359, 2-16-60, Cl. 154—76.
- Burkland, Charles W.: *See*—  
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- Burkland, Charles W., to The Maytag Co. Tub assembly. 2,942,445, 6-28-60, Cl. 68—23.
- Burkland, Theodore L. Storm window and screen conversion structure. 2,923,982, 2-9-60, Cl. 20—55.
- Burks, Arthur W.: *See*—  
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- Burks, Dana, Jr., to United States of America, War. Process for the decontamination of mustard gas-contaminated carbon fabric. 2,933,453, 4-19-60, Cl. 252—412.
- Burks, Herbert G. Separation of pyrochlore from calcite, apatite and silica. 2,951,585, 9-6-60, Cl. 209—167.
- Burleson, Aaron, to Textile Licensing Co. Processing yarns. 2,952,116, 9-13-60, Cl. 57—157.
- Burling, Herbert S., and H. S. Burling, Jr. Temperature controlling apparatus. 2,962,898, 12-6-60, Cl. 73—362.3.
- Burling, Herbert S., Jr.: *See*—  
Burling, Herbert S., and H. S. Burling, Jr. 2,962,898.
- Burlington Industries, Inc.: *See*—  
Atwell, Everett C. 2,961,343.  
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- Burlis, Norbert W., and M. J. Reinert, to Custom Engineering and Development Co. Instrument linearizer. 2,943,207, 6-28-60, Cl. 250—217.
- Burman, Henry H., and H. H. Wayner. Dehumidifying covers. 2,947,843, 8-2-60, Cl. 219—19.
- Burman, Paul G., to American Bosch Arma Corp. Nozzle. 2,921,741, 1-19-60, Cl. 239—111.
- Burman, Paul G., to American Bosch Arma Corp. Nozzle. 2,921,746, 1-19-60, Cl. 239—453.
- Burman, Paul G., to American Bosch Arma Corp. Nozzle. 2,921,747, 1-19-60, Cl. 239—464.
- Burman, Robert L.: *See*—  
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- Burman & Sons Ltd.: *See*—  
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- Burn, Derek: *See*—  
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- Burn, William A., Jr. to Celanese Corp. of America. Tow brake. 2,919,794, 1-5-60, Cl. 203—12.
- Burnard, Edward O., and R. T. Read, to Bundy Tubing Co. Push rod and method of its manufacture. 2,960,080, 11-15-60, Cl. 123—90.
- Burnard, John W.: *See*—  
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- Burnbaum, Jack, to Bradford Novelty Co., Inc. Separable display ornament. 2,925,678, 2-23-60, Cl. 41—10.
- Burndy Corp.: *See*—  
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- Burnell, Maurice R., to American Cyanamid Co. Process for producing fire-retardant nylon fabric. 2,953,480, 9-20-60, Cl. 117—137.
- Burner, Bingham F. Differential mechanism. 2,922,319, 1-26-60, Cl. 74—711.
- Burness, Donald M.: *See*—  
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- Burness, Donald M., to Eastman Kodak Co. Hardening of gelatin with aziridinylsulfonfyl compounds. 2,964,404, 12-13-60, Cl. 96—85.
- Burnett, Alexander H., to Swift & Co. Apparatus for use in packaging of product. 2,924,922, 2-16-60, Cl. 53—96.
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- Burnett, Richard T., to Bendix Aviation Corp. Automatic brake adjuster. 2,935,163, 5-3-60, Cl. 188—79.5.
- Burnett, Richard T., to Bendix Aviation Corp. Brake. 2,937,720, 5-24-60, Cl. 188—70.
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- Burney, Donald E., and H. P. Liao, to Standard Oil Co. Process for recovery of oxidation catalysts. 2,964,559, 12-13-60, Cl. 260—525.
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- Burnham, Willets M., to Fort Worth Steel and Machinery Co. Oil metering device. 2,930,448, 3-29-60, Cl. 184—11.
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- Burns, William C., deceased; J. Burns, executrix. Removable shoe pad construction. 2,949,685, 8-23-60, Cl. 36—71.
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- Burrell, Gilbert, to General Motors Corp. Crankshaft lubricating means. 2,926,972, 3-1-60, Cl. 308—121.
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- Burris, William J., C. L. Huber, and C. B. Kaiser, to Haloid Xerox Inc. Xerographic developing apparatus. 2,965,136, 12-20-60, Cl. 137—625.48.
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- Burrows, Arthur T. C., to Geo. W. King Ltd. Floor conveyors. 2,926,771, 3-1-60, Cl. 198-181.
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- Burton, William P., deceased (by S. T. Burton, administratrix), P. A. Lefrancois, and E. W. Riblett, to The M. W. Kellogg Co. Platinum and palladium catalysts. 2,961,414, 11-22-60, Cl. 252-453.
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- Bury, Jack, to Kaywood Corp. Adjustable hinge for closures. 2,923,027, 2-2-60, Cl. 16-129.
- Bury, Nellie V., G. R. Serrao, and R. M. Koval. Garment hanger. 2,946,493, 7-26-60, Cl. 223-92.
- Busala, Alessandro, L. Schenker, and F. West, to Bell Telephone Laboratories, Inc. Subscriber call transmitting system. 2,927,971, 3-8-60, Cl. 179-90.
- Busanovich, Charles J., to Radio Corp. of America. Thermo-electric compositions and elements and devices using them. 2,951,105, 8-30-60, Cl. 136-5.
- Busbridge, Robert G., to John & Wm. Burt Ltd. Racks for storing articles particularly cylinders. 2,957,583, 10-25-60, Cl. 211-13.
- Busby, Arthur D.: See—  
 Berry, Robert L. P., Busby, and Badger. 2,955,333.  
 Yeomans, Donald E., and Busby. 2,951,890.
- Buscema, Victor S.: See—  
 Bushway, George F., and Buscema. 2,942,359.
- Busch, Albert G., and J. W. Focosi. Safety signals. 2,938,110, 5-24-60, Cl. 240-8.18.
- Busch, Charles R., to Buffalo Brake Beam Co. Railway freight car truck safety device. 2,930,329, 3-29-60, Cl. 105-206.
- Busch, Charles R., to Buffalo Brake Beam Co. Railway car brake mechanism. 2,947,384, 8-2-60, Cl. 188-59.
- Busch, Charles R., to Buffalo Brake Beam Co. Railway car brake mechanisms. 2,954,102, 9-27-60, Cl. 188-59.
- Busch, Frederick G. Lettering device. 2,954,610, 10-4-60, Cl. 33-95.



- Busch, John M.: *See*—  
 Chryst, Anton W., Jr., and Busch. 2,962,233.  
 Buschbom, Floyd E., to Vandale Corp. Silo unloader impeller member. 2,958,412, 11-1-60, Cl. 198-128.  
 Buschers, Herbert H., to The Martin Co. Improved hook release mechanism for a bomb rack. 2,941,442, 6-21-60, Cl. 89-1.5.  
 Buschert, Robert C., and S. L. Miller, to Bell Telephone Laboratories, Inc. Switching transistors. 2,964,689, 12-13-60, Cl. 317-235.  
 Buschhorn, Walther, and R. Schaffer, to Amag-Hilpert-Pegnitzhutte AG. Rotor attachment for centrifugal pumps. 2,960,939, 11-22-60, Cl. 103-111.  
 Busch-Keiser, Hans. Method and apparatus for signaling the positions of a moving object. 2,955,283, 10-4-60, Cl. 340-282.  
 Buschle, Paul. Ballpoint-pen with a light-bulb disposed adjacent the ballpoint. 2,964,614, 12-13-60, Cl. 240-6.46.  
 Buschmann, Hans A.: *See*—  
 Seyfried, Ernst H., and Buschmann. 2,926,841.  
 Buschow, Herman F.: *See*—  
 Pabst, Walter W., and Buschow. 2,927,659.  
 Buselli, Aljo J., and T. F. Rutledge, to Air Reduction Co., Inc. Preparation of vinyl stearate. 2,949,480, 8-16-60, Cl. 260-410.9.  
 Buser Fritz A.G.: *See*—  
 Voegelin, Heinrich. 2,923,235.  
 Buser, Johann, to Buser-Lampen AG. Electric lamp for mixed light. 2,962,627, 11-29-60, Cl. 315-46.  
 Buser-Lampen AG.: *See*—  
 Buser, Johann. 2,962,627.  
 Buser, Rudolf, to Siemens & Halske Aktiengesellschaft Berlin and Munich. Measuring electric currents in terms of units. 2,962,704, 11-29-60, Cl. 340-342.  
 Bussey, Harold M.: *See*—  
 Hammond, Roland P., Bussey, and Wyckoff. 2,940,915.  
 Bush, Arthur B., Jr., and A. C. Weil, to The Celotex Corp. Fiberboard. 2,944,930, 7-12-60, Cl. 162-145.  
 Bush, David C., and E. E. Parker, to Pittsburgh Plate Glass Co. Preparation of foamed polyurethane using salt of mannich base as catalyst. 2,950,262, 8-23-60, Cl. 260-2.5.  
 Bush, Elmer W., and J. N. Brock. Spotting gun. 2,942,791, 6-28-60, Cl. 239-434.  
 Bush, H. M.: *See*—  
 Clements, Shannon K. Re. 24,895.  
 Bush, Harold E.: *See*—  
 Dickinson, Jack R., and Bush. 2,938,363.  
 Dickinson, Jack R., and Bush. 2,940,632.  
 Bush, Harold L., to Crouse-Hinds Co. Traffic signal. 2,949,598, 8-16-60, Cl. 340-84.  
 Bush, Harold L., to Crouse-Hinds Co. Timer dial. 2,953,938, 9-27-60, Cl. 74-568.  
 Bush Hog Mfg. Co., Inc.: *See*—  
 Jones, William L. 2,949,004.  
 Bush, Ian E. Apparatus for washing porous materials. 2,943,632, 7-5-60, Cl. 134-156.  
 Bush, John J. Propelled ball game board. 2,960,339, 11-15-60, Cl. 273-119.  
 Bush, John W., and L. Long, to United Merchants and Mfrs., Inc. Fancy yarn manufacture. 2,923,120, 2-2-60, Cl. 57-18.  
 Bush, Kenneth E.: *See*—  
 Johnson, Carey A. 2,958,237.  
 Bush, Leon D. Feeding spoon. 2,953,170, 9-20-60, Cl. 141-18.  
 Bush, Louis, to Flanders Filter, Inc. Filters. 2,952,333, 9-13-60, Cl. 183-71.  
 Bush, Orville J., to The Martin Co. Air mat bumper pad. 2,939,438, 6-7-60, Cl. 123-14.  
 Bush, Raymond C.,  $\frac{1}{10}$  to A. C. Cherry,  $\frac{1}{8}$  to T. R. Flury, and  $\frac{1}{4}$  to J. J. Breeze. Rotary internal combustion chamber. 2,944,771, 7-12-60, Cl. 244-100.  
 Bush, Robert M.: *See*—  
 Jensen, Raymond W., King, and Bush. 2,948,265.  
 Bush, Russell J., to General Motors Corp. Pipe joint seal. 2,924,472, 2-9-60, Cl. 288-24.  
 Bush, Russell J., and O. C. De Weese, to General Motors Corp. Transmission belt and the like. 2,945,390, 7-19-60, Cl. 74-237.  
 Bush, Walter M., and J. R. Thirtle, to Eastman Kodak Co. Couplers for color photography. 2,920,961, 1-12-60, Cl. 96-100.  
 Bushell, Walter J. Method and apparatus for treating webs. 2,920,960, 1-12-60, Cl. 96-48.  
 Bushfield, Robert J.: *See*—  
 Gartner, John H., Bushfield, and Cooley. 2,953,080.  
 Bushman, Edwin F., to General American Transportation Corp. Methods of making decorative glass fiber reinforced resin bodies. 2,951,780, 9-6-60, Cl. 154-75.  
 Bushman, Stephen F., to A. C. Nielsen Co. Apparatus and system for determining the transmitting station to which a television receiver is tuned. 2,935,557, 5-3-60, Cl. 178-5.8.  
 Bushnell, David P., and R. F. Chapin, to Bino Specialties, Inc. Combination binocular telescope and camera. 2,933,992, 4-26-60, Cl. 95-12.  
 Bushnell, James D.: *See*—  
 Welkart, John, Bushnell, Ward, and Wood. 2,959,538.  
 Bushnell, James D., to Esso Research and Engineering Co. Extraction process for refining lubricating oils. 2,923,680, 2-2-60, Cl. 208-321.  
 Bushong, Gilbert R., to United States of America, Navy. Oscillator-thyratron circuit. 2,942,548, 6-28-60, Cl. 102-702.  
 Bushway, George F., and V. S. Buscema, to Tyer Rubber Co. Article of footwear with integral ankle and heel support. 2,942,359, 6-28-60, Cl. 36-8.5.  
 Busi, Ettore. Sheet material disc-punching and corklining machine. 2,964,091, 12-13-60, Cl. 154-1.5.  
 Busignies, Henri G.: *See*—  
 Deloraine, Edmond M., and Busignies. 2,931,031.  
 Deloraine, Edmond M., and Busignies. 2,943,318.  
 Deloraine, Edmond M., Busignies, and Chevigny. 2,950,400.  
 Busignies, Henri G., P. R. Adams, and M. Rogoff, to International Telephone and Telegraph Corp. Electronic spectro-analyzer systems. 2,927,501, 3-8-60, Cl. 88-14.  
 Busilacchio, Ido. Tone modifier for musical instrument. 2,929,291, 3-22-60, Cl. 84-376.  
 Buske, Gilbert E., to Motor Wheel Corp. Lawn mower handle mounting structure. 2,965,386, 12-20-60, Cl. 280-47.37.  
 Busquet, Jan C., to Koninklijke Machinefabriek Gebr. Stork & Co. N.V. Centrifugal fans. 2,938,660, 5-31-60, Cl. 230-128.  
 Busquet, Jan C., to Koninklijke Machinefabriek Gebr. Stork & Co. N.V. Axial flow fans. 2,947,466, 8-2-60, Cl. 230-114.  
 Buss A.G.: *See*—  
 List, Heinz. 2,921,842.  
 List, Heinz, and Wollak. 2,932,557.  
 Buss, Benjamin A., to American Machine and Metals, Inc. Laundry folding machine lane control means. 2,924,451, 2-9-60, Cl. 270-69.  
 Buss, Benjamin A., to American Machine and Metals, Inc. Laundry device. 2,934,614, 4-26-60, Cl. 200-38.  
 Buss, Benjamin A., to American Machine and Metals, Inc. Laundry folding machines. 2,940,751, 6-14-60, Cl. 270-69.  
 Buss, Benjamin A., to American Machine and Metals, Inc. Laundry folding machines. 2,941,797, 6-21-60, Cl. 270-69.  
 Buss, Donald R. Fish hook assembly. 2,922,247, 1-26-60, Cl. 43-44.8.  
 Buss, Edward J., G. R. Fansher, J. H. Groves, and G. E. O'Donald, to Fairbanks, Morse & Co. Electrical machine rotor. 2,956,189, 10-11-60, Cl. 310-211.  
 Bussard, Emmerly J. H.: *See*—  
 Congdon, Kenneth P., and Bussard. 2,941,076.  
 Bussard, Emmerly J. H., to Avco Mfg. Corp. Transistorized alternating current amplifier with gain control. 2,931,988, 4-5-60, Cl. 330-18.  
 Bussard, Emmerly J. H., to Avco Mfg. Corp. Coupler for transmission line. 2,963,665, 12-6-60, Cl. 333-9.  
 Busse, Curtis T., 50% to G. W. Busse. Machine for stacking cans on pallets. 2,949,179, 8-16-60, Cl. 198-30.  
 Busse, Ferdinand. Method of and apparatus for producing a finned tube. 2,965,744, 12-20-60, Cl. 219-107.  
 Busse, Francis A., J. F. Flannery, and A. E. Stone, to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,964,684, 12-13-60, Cl. 317-123.  
 Busse, Gilbert W.: *See*—  
 Busse, Curtis T. 2,949,179.  
 Busse, Warren F.: *See*—  
 Hines, Roger A., and Busse. 2,961,389.  
 Busse, Warren F., and R. A. Hines, to E. I. du Pont de Nemours and Co. Process for modifying polymers and products thus obtained. 2,957,814, 10-25-60, Cl. 204-154.  
 Bussert, Clarence E. Ornamentation. 2,953,867, 9-27-60, Cl. 41-15.  
 Bussey, Gene R.: *See*—  
 Rodgers, George W., Althouse, Anderson, Bussey, and Minnear. 2,952,012.  
 Bussom, Charles J., and D. L. Say, to Sylvania Electric Products Inc. Current limiter. 2,943,904, 7-5-60, Cl. 316-27.  
 Bussone, Joseph V., to General Electric Co. Thrust bearing support and spacer arrangement for electric motors. 2,947,893, 8-2-60, Cl. 310-90.  
 Buster, James R.: *See*—  
 Hunt, Thomas D., and Buster. 2,953,428.  
 Bustin, Leopold. Retractable staircase. 2,956,638, 10-18-60, Cl. 182-88.  
 Butcher, Ewen. Unit for moulding concrete mix or the like. 2,932,875, 4-19-60, Cl. 25-32.  
 Butcher, Maude L. Automobile travel kit box. 2,939,756, 6-7-60, Cl. 312-282.  
 Butcher, Ralph L., and L. F. Weber. Knocked down containers. 2,920,781, 1-12-60, Cl. 217-12.  
 Butcosk, Richard A.: *See*—  
 Armstrong, Eldon L., Butcosk, and Murray. 2,950,248.  
 Buteux, Richard H. B., J. R. Cann, and J. W. Cornforth, to Imperial Chemical Industries Ltd. Production of film. 2,952,872, 9-20-60, Cl. 18-14.  
 Butler, Adolf G., H. T. Jobe, and L. A. Domis, to American Pipe and Construction Co. Pipe-handling vehicle. 2,954,136, 9-27-60, Cl. 214-394.  
 Butler, Albert L., Jr., and J. D. Chandler, to Arista Mills Co. Cloth inspection frame. 2,936,506, 5-17-60, Cl. 26-70.  
 Butler, Alfred G. Dishwasher. 2,959,180, 11-8-60, Cl. 134-188.  
 Butler, Bartholomew F. Opener and dispenser for canned fluids. 2,919,835, 1-5-60, Cl. 222-86.  
 Butler, Benjamin B.: *See*—  
 Krueger, Bruno O., Butler, and Hine. 2,946,403.



- Butler, Cecil T. Method for producing spectacle templates. 2,949,638, 8-23-60, Cl. 18—55.05.
- Butler, Charles K., to Owens-Corning Fiberglas Corp. Method for continuously fabricating an impervious metal coated fibrous glass sheet. 2,951,771, 9-6-60, Cl. 117—114.
- Butler, Charles K., and R. M. Woodward, to Owens-Corning Fiberglas Corp. Method for forming glass reinforced metal tubing. 2,937,436, 5-24-60, Cl. 29—419.
- Butler, Clyde A. Rock crusher. 2,931,585, 4-5-60, Cl. 241—219.
- Butler, Edward J. Automatic reminder. 2,964,370, 12-13-60, Cl. 312—222.
- Butler, Florence P.: See—Weisberg, Mark, and Butler. 2,937,940.
- Butler, Frank D. Radiant flow internal combustion turbine with air and fuel injection means. 2,941,360, 6-21-60, Cl. 60—39.34.
- Butler, Frank D. Combined liquid fuel and excess air metering and distributing, combined liquid fuel and excess air atomizing and injecting, internal combustion engine. 2,950,707, 8-30-60, Cl. 123—32.
- Butler, Frank D. Multiple stage cammed, cam chambered and bladed, multiple pressure stage compounded, rotary, elastic fluid compressor. 2,965,288, 12-20-60, Cl. 230—149.
- Butler, Geoffrey H., and J. B. Mackness, to Rota Cota Pty. Ltd. Method and means for depositing a film of fluid between a cylindrical member and sleeve on said member. 2,927,622, 3-8-60, Cl. 154—1.
- Butler, George B., R. J. Angelo, and A. Crawshaw, to Peninsular Chem Research, Inc. Linear homopolymers of diallyl amines. 2,926,161, 2-23-60, Cl. 260—89.7.
- Butler, George B., and R. L. Goette. Quaternary ammonium ion exchange resins of improved properties. 2,946,757, 7-26-60, Cl. 260—2.1.
- Butler, George I. Ornamental tree support. 2,964,273, 12-13-60, Cl. 248—48.
- Butler, Henry J., to Dunlop Rubber Co. Ltd. Vehicle brake. Re. 24,870, 9-20-60, Cl. 188—73.
- Butler, Henry J., to Dunlop Rubber Co. Ltd. Disc brake. 2,921,650, 1-19-60, Cl. 188—73.
- Butler, Henry J., to Dunlop Rubber Co. Ltd. Braking systems. 2,940,544, 6-14-60, Cl. 188—33.
- Butler, Henry J., to Dunlop Rubber Co. Ltd. Servo-assisted disc brakes. 2,940,547, 6-14-60, Cl. 188—70.
- Butler, Henry J., to Dunlop Rubber Co. Ltd. Spot brake with removable friction pads. 2,942,695, 6-28-60, Cl. 188—73.
- Butler, Henry J., to Dunlop Rubber Co. Ltd. Disc brakes and automatic adjusting devices therefor. 2,948,356, 8-9-60, Cl. 188—73.
- Butler, Henry J., and J. Wright, to Dunlop Rubber Co. Ltd. Disc brakes. 2,934,173, 4-26-60, Cl. 188—73.
- Butler, James H., and C. E. Atherton. Live bait box. 2,936,542, 5-17-60, Cl. 43—57.
- Butler, James T. F. Closure fastening device. 2,924,479, 2-9-60, Cl. 292—296.
- Butler, Jerry A.: See—Kimball, George R., D'Olive, and Butler. 2,966,388.
- Butler, Joseph E.: See—Benjamin, Robert P. 2,921,118.
- Butler, Keith H.: See—Harris, Joseph M., Butler, and Thomas. 2,966,605.
- Homer, Horace H., Thomas, and Butler. 2,962,616.
- Butler, Leslie F., deceased; H. Myra, administrator,  $\frac{1}{2}$  to J. R. Bethea III. Convertible desks. 2,931,685, 4-5-60, Cl. 312—196.
- Butler Mfg. Co.: See—Anderson, Arthur I. 2,923,560.
- Williams, Don E. 2,938,289.
- Butler, Morton G.: See—Rodriguez, Ignacio, and Butler. 2,929,477.
- Butler, Norman C., to United States of America, Navy. Gravity sensing device. 2,949,783, 8-23-60, Cl. 73—514.
- Butler, Oliver I., T. H. Barton, and H. Sterling, to Lancashire Dynamo & Crypto Ltd. Multi-phase induction motors. 2,959,721, 11-8-60, Cl. 318—211.
- Butler, Oscar. Taxicab control system. 2,934,159, 4-26-60, Cl. 180—82.
- Butler, Richard A., Jr. Splicing machine. 2,940,507, 6-14-60, Cl. 154—42.3.
- Butler, Richard K., to Machinecraft, Inc. Spinning frame apron guides. 2,943,362, 7-5-60, Cl. 19—131.
- Butler, Robert C., to Monsanto Chemical Co. Manufacture of sulfur compounds. 2,928,880, 3-15-60, Cl. 260—609.
- Butler, Robert H., and R. Sundene, to Unistrut Products Co. Shelving structure. 2,937,767, 5-24-60, Cl. 211—148.
- Butler, Stedman M. Filter cleaner. 2,919,704, 1-5-60, Cl. 134—102.
- Butler, Thomas A., to The Lubrizol Corp. Process of preparing neutral phosphorus- and sulfur-containing compositions. 2,965,664, 12-20-60, Cl. 260—461.
- Butler, Thomas E.: See—Wilson, Jack L., Rockefeller, and Butler. 2,948,803.
- Butler, Thomas E., and J. A. Persson, to Union Carbide Corp. Electric arc electrodes. 2,922,028, 1-19-60, Cl. 219—145.
- Butler, Tod F.: See—Petty, Thomas M., Jr., and Butler. 2,952,971.
- Butler, William F.: See—Beacham, Robert C., and Butler. 2,922,613.
- Butler, William L., to General Electric Co. Manual motor starter. 2,932,707, 4-12-60, Cl. 200—116.
- Butman, Louis S. Cultivator attachment for crawler tractors. 2,954,086, 9-27-60, Cl. 172—542.
- Butt, Alan G., to The Trane Co. Heat exchanger. 2,961,222, 11-22-60, Cl. 257—245.
- Butterfield, A. E.: See—Marvin, Orrin F. 2,949,339.
- Butterfield, Harry E., Jr.: See—De Angelis, Angelo C., and Butterfield. 2,931,632.
- De Angelis, Angelo C., and Butterfield. 2,931,926.
- De Angelis, Angelo C., and Butterfield. 2,949,709.
- Butter-Pak, Inc.: See—Mead, Harry A. 2,958,173.
- Butters, Otto, to Hunt Foods, Inc. Carton dividers. 2,920,782, 1-12-60, Cl. 217—32.
- Butterworth, Archibald J., to Sidler Ltd. Parking devices for motor vehicles. 2,964,118, 12-13-60, Cl. 180—1.
- Butterworth, Gilbert J., and S. W. Gurasich, to Sperry-Sun Well Surveying Co. Self-contained flowmeter. 2,929,244, 3-22-60, Cl. 73—155.
- Butterworth, Greig S.: See—Wiatt, James G., and Butterworth. 2,949,708.
- Butterworth, Greig S., to The Cincinnati Milling Machine Co. Gaging device. 2,950,581, 8-30-60, Cl. 51—103.
- Butterworth, John W.: See—Royden, George T., and Butterworth. 2,944,110.
- Butterworth, Julian S.: See—Sharpsteen, Jay R., Jr., Scheraga, and Butterworth. 2,962,425.
- Butterworth, Robert: See—Woodward, Kenneth E., and Butterworth. 2,942,856.
- Butterworth System, Inc.: See—Lione, Leonard V. 2,947,482.
- Buttery, Kenneth T.: See—Walton, Charles W., and Buttery. 2,937,800.
- Buttery, Kenneth T., to KVP Sutherland Paper Co. Dispensing carton. 2,943,779, 7-5-60, Cl. 229—17.
- Buttery, Kenneth T., and T. Vander Lugt, Jr., to KVP Sutherland Paper Co. Carton and container carton assembly. 2,927,713, 3-8-60, Cl. 220—85.
- Buttery, Kenneth T., and T. Vander Lugt, Jr., to Sutherland Paper Co. Bacon package. 2,934,253, 4-26-60, Cl. 229—40.
- Buttery, Kenneth T., and T. Vander Lugt, Jr., to KVP Sutherland Paper Co. Display carton. 2,937,743, 5-24-60, Cl. 206—45.14.
- Buttery, Kenneth T., and L. M. Gilbert, to KVP Sutherland Paper Co. Display carton. 2,954,151, 9-27-60, Cl. 229—19.
- Buttery, Kenneth T., and T. Vanderlugt, Jr., to KVP Sutherland Paper Co. Collapsible polyhedral carton. 2,954,152, 9-27-60, Cl. 229—39.
- Buttiaz, André, C. Tesage, and H. Dembowski. Apparatus for controlling or checking the irregularity of a flow of textile or like materials. 2,950,436, 8-23-60, Cl. 324—61.
- Büttiker, Werner, to Gesellschaft der Ludw. von Roll'schen Eisenwerke A.G. Rotary slide valve with inspection stop valve. 2,950,896, 8-30-60, Cl. 251—172.
- Buttke, Richard A., Rockwell Mfg. Co. Grinder attachment for woodworking machines. 2,944,376, 7-12-60, Cl. 51—249.
- Buttke, Richard A., to Rockwell Mfg. Co. Planer and attachments therefor. 2,955,007, 10-4-60, Cl. 312—304.
- Büttner, Artur, to Schnellpressenfabrik Aktiengesellschaft Heidelberg. Sheet feed apparatus driving mechanisms. 2,922,646, 1-26-60, Cl. 271—54.
- Büttner, Artur, to Schnellpressenfabrik Aktiengesellschaft Heidelberg. Sheet feeding apparatus. 2,922,647, 1-26-60, Cl. 271—62.
- Büttner, Artur, to Schnellpressenfabrik A.G. Heidelberg. Driving arrangement for the impression cylinder printing press. 2,924,172, 2-9-60, Cl. 101—282.
- Büttner, Artur, to Schnellpressenfabrik AG Heidelberg. Cylinder printing machines. 2,958,275, 11-1-60, Cl. 101—173.
- Büttner, Artur, to Schnellpressenfabrik Aktiengesellschaft Heidelberg. Feed apparatus for platen presses. 2,963,292, 12-6-60, Cl. 271—11.
- Büttner, Artur M., to Schnellpressenfabrik AG Heidelberg. Variable speed platen printing press. 2,963,966, 12-13-60, Cl. 101—287.
- Button, Frederick L.: See—Doncaster, Daniel P., and Button. 2,951,705.
- Buttrey, Ronald N., and B. C. Ciborowski, to South Wales Switchgear Ltd. High voltage switchgear. 2,957,971, 10-25-60, Cl. 200—166.
- Butts, Robert L.: See—Graff, Alan R., Garis, Butts, and Juergens. 2,947,187.
- Buus, Harold W., to Indiana General Corp. Drum type magnetic separator. 2,950,008, 8-23-60, Cl. 209—219.
- Buvelot, John A., to American Steel Foundries. Slidable fifth wheel mounting. 2,940,774, 6-14-60, Cl. 280—405.
- Buxbaum, Edwin C., to E. I. du Pont de Nemours and Co. Stabilized cured polyurethanes. 2,944,998, 7-12-60, Cl. 260—45.8.
- Buxton, Elliott R., to North American Aviation, Inc. Aircraft maneuver stabilizer. 2,964,269, 12-13-60, Cl. 244—77.
- Buxton, Inc.: See—Broughton, Douglas J. 2,963,063.
- Buxton, James E., to Bendix Aviation Corp. Engine starter drives. 2,922,307, 1-26-60, Cl. 74—7.



- Buxton, James E., to Bendix Aviation Corp. Starter gearing for internal combustion engines. 2,938,391, 5-31-60, Cl. 74-7.
- Buxton, James E., to The Bendix Corp. Engine starter gearing. 2,962,902, 12-6-60, Cl. 74-7.
- Buxton, James E., and R. A. Gantert, to Bendix Aviation Corp. Engine starter drive. 2,933,926, 4-26-60, Cl. 74-7.
- Buyers, Robert A., to Davol Rubber Co. Abdominal drainage tube. 2,930,378, 3-29-60, Cl. 128-350.
- Byus, Leonard A. and P. R. Device for picking fruit. 2,931,160, 4-5-60, Cl. 56-328.
- Byus, Philip R.: *See*—  
Byus, Leonard A. and P. R. 2,931,160.
- Buzas, August J.: *See*—  
Schenck, Remsen T. E., and Buzas. 2,958,626.
- Buzicky, Edmund J., to Whirlpool Corp. Freezer cabinet shelving. 2,950,157, 8-23-60, Cl. 312-300.
- Buzzell, Dow A., and R. L. Bloor. Means and method for molding concrete sections of hydraulic concrete structures. 2,961,731, 11-29-60, Cl. 25-131.
- Byars, Wallace W. Friction window lock. 2,933,338, 4-19-60, Cl. 292-83.
- Byatt, Dennis, to Marconi's Wireless Telegraph Co. Ltd. Receiving aerial systems. 2,953,782, 9-20-60, Cl. 343-118.
- Byatt, Dennis, to Marconi's Wireless Telegraph Co. Ltd. Radio direction finding systems. 2,962,715, 11-29-60, Cl. 343-120.
- Bychinsky, Wilfred A., to General Motors Corp. Spark plug-engine seal construction. 2,927,144, 3-1-60, Cl. 123-169.
- Bydalek, Floyd J., to Baso, Inc. Electromagnetic control device with manual operator and overcalling control means. 2,932,307, 4-12-60, Cl. 137-66.
- Byerly, Earle H., to United States of America, Air Force. Selective frequency system. 2,946,964, 7-26-60, Cl. 331-49.
- Byers, Norman R.: *See*—  
Eddy, William R., and Byers. 2,930,395.
- Byers, Richard K., and R. Safer, Jr. Painting mask for nameplates and the like. 2,959,152, 11-8-60, Cl. 118-505.
- Byford Labs. Inc.: *See*—  
Powell, Albert E. 2,926,217.
- Bygbjerg, Karl, to Pacific Shops, Inc. Tail shaft packing seal. 2,925,291, 2-16-60, Cl. 286-25.
- Byk-Gulden Lomberg, Chemische Fabrik G.m.b.H.: *See*—  
Gedeon, Joseph, and Bolz. 2,953,597.
- Hallmann, Gunther. 2,923,660.
- Schneider, Adolf, Draeger, Furchner, and Baenkler. 2,957,518.
- Byland, Hans-Rudolf, to Saul & Co., as nominee of Fidelity Union Trust Co., executive trustee under Sandoz Trust. Metal-containing polyazo dyestuffs. 2,941,991, 6-21-60, Cl. 260-145.
- Byland, Hans-Rudolf, and F. Kehrler, to Sandoz A.G. Metal-lizable hexakisazo dyestuffs. 2,958,689, 11-1-60, Cl. 260-144.
- Byland, Henry L., to U.S. Slicing Machine Co., Inc. Wrapping machine. 2,926,473, 3-1-60, Cl. 53-230.
- Byles, Theodore A., to Motorola, Inc. Warm up noise silencer. 2,946,014, 7-19-60, Cl. 330-3.
- Byles, Theodore A., and B. Birkenes, to Motorola, Inc. Amplifier circuit. 2,946,015, 7-19-60, Cl. 330-15.
- Bylsma, Harold R.: *See*—  
Chisholm, Douglas S., and Bylsma. 2,958,099.
- Bylsma, Harold R., to The Dow Chemical Co. Nitrogenous compositions. 2,960,535, 11-15-60, Cl. 260-567.6.
- Byrd, Beatrice E.: *See*—  
O'Brien, Francis L. 2,925,006.
- Byrd, Gerald J., to Lignosol Chemicals Ltd. Dispersant and method of making the same. 2,933,452, 4-19-60, Cl. 252-353.
- Byrd, Jerry E., Sr. Speed limiting accelerator pedal. 2,924,117, 2-9-60, Cl. 74-526.
- Byrne, Donald L.: *See*—  
Klaybor, Leonard V., Borneman, and Byrne. 2,934,430.
- Byrne, John F., to Haloid Xerox Inc. Image reproduction. 2,951,443, 9-6-60, Cl. 101-426.
- Byrne, John F., to Haloid Xerox Inc. Xerographic contrast. 2,965,483, 12-20-60, Cl. 96-1.
- Byrne, Raymond A. Key guide. 2,941,392, 6-21-60, Cl. 70-454.
- Byrne, Stanley: *See*—  
Molins, Desmond W., Rowlands, and Byrne. 2,963,026.
- Byrne, Thomas J., to The American Oil Co. Automatic overload protection for flow meters. 2,943,485, 7-5-60, Cl. 73-199.
- Byrnes, James J., to Associated Nucleonics, Inc. Filter apparatus. 2,923,376, 2-2-60, Cl. 183-71.
- Byrnes, John J., to H. D. Gregory. Tool for rupturing fill caps. 2,938,265, 5-31-60, Cl. 30-91.
- Byrnes, John J., to H. D. Gregory. Liquid-sampling device. 2,938,388, 5-31-60, Cl. 73-425.4.
- Byrnes, William P., to Teletype Corp. Telegraph system. 2,927,960, 3-8-60, Cl. 178-23.
- Byrnes, William W., to The Upjohn Co. 17 $\alpha$ -acetoxyprogesterone compositions for oral use and methods of using same. 2,965,541, 12-20-60, Cl. 167-55.
- Byrns, Alva C., to Kaiser Aluminum & Chemical Corp. Preparation of sodium aluminum fluoride and silicon-aluminum alloy. 2,930,676, 3-29-60, Cl. 23-88.
- Byrtus, Alojzy M. Walking mechanisms. 2,924,042, 2-9-60, Cl. 46-150.
- Bystrom, Agnar F. Screw-holding screw driver. 2,933,114, 4-19-60, Cl. 145-52.
- C. A. P. Inc.: *See*—  
Bergier, Arnold H., and Umanoff. 2,934,844.
- C.A.V. Ltd.: *See*—  
Chmielecki, Jerzy. 2,946,292.
- Curzon, Thomas. 2,965,164.
- Seilly, Alec H. 2,934,656.
- CBS-Hytron, a Division of Columbia Broadcasting System, Inc.: *See*—  
Giuffrida, Joseph. 2,922,059.
- C. C. Corp.: *See*—  
Pearson, William S. 2,935,274.
- C.C.D. Processes (N.Y.) Ltd.: *See*—  
Chayen, Israel H. 2,928,821.
- C. & D. Lumber Co.: *See*—  
Randall, Burton T. 2,961,015.
- C.D. Patents Ltd.: *See*—  
Norman, William S. 2,927,877.
- Sawyer, Charles H. V., and Landeg. 2,947,443.
- C.E.M. Co.: *See*—  
Koehl, Herman. 2,928,154.
- C.E.M.A.M. Concord: *See*—  
Loutrel, Maurice. 2,936,605.
- C.G.S. Laboratories, Inc.: *See*—  
Gabor, William D. 2,926,311.
- Gollub, Raphael. 2,926,240.
- Gollub, Raphael. 2,941,173.
- Smith-Vaniz, William R., Jr. 2,923,814.
- Smith-Vaniz, William R., Jr. 2,927,279.
- Sontheimer, Carl G. 2,923,815.
- C.I.C.O.M.I. Compagnie Internationale pour le Commerce et l'Industrie: *See*—  
Kühn, Richard. 2,948,926.
- C.I.P. Co.: *See*—  
Derby, Marshall T. 2,954,602.
- CKD Ceska Lipa, narodni podnik: *See*—  
Adamec, Miroslav, Duben, and Pavlasek. 2,930,883.
- Kruml, Vincenc, Brabenec, and Sulc. 2,929,917.
- Vltavsky, Milan. 2,966,031.
- C-M Equipment Corp.: *See*—  
McCullough, Russell H. 2,955,520.
- C. & M. Mfg. Co.: *See*—  
McCreery, Albert J. 2,921,677.
- CMP Stampings, Inc.: *See*—  
Slisz, John J., Chodil, and Wallace. 2,961,477.
- CPS Mfg. Co.: *See*—  
Cummings, Thomas N., Peterson, and Shiu. 2,936,161.
- Cummings, Thomas N., Peterson, and Shiu. 2,936,798.
- C & S Products Co., Inc.: *See*—  
Conger, Gerald A. 2,955,332.
- CTS Corp.: *See*—  
Barden, Wayne A. 2,958,837.
- Barden, Wayne A. 2,958,839.
- Barden, Wayne A. 2,958,840.
- Barden, Wayne A., and Arisman. 2,958,062.
- Barden, Wayne A., and Arisman. 2,958,748.
- Budd, Wilbert H. 2,943,288.
- Dally, Arthur M. 2,946,032.
- Di Girolamo, Joseph. 2,942,221.
- Di Girolamo, Joseph, and Budd. 2,945,933.
- Cabanaw, Eldred J.: *See*—  
Mathy, Eugene V., and Cabanaw. 2,931,768.
- Cabaniss, Edward H., and C. P. Christensen, to General Electric Co. Magnetic core logic units. 2,932,815, 4-12-60, Cl. 340-174.
- Cabasso, Victor J., to American Cyanamid Co. Tissue culture propagated canine distemper virus and vaccine thereof. 2,965,544, 12-20-60, Cl. 167-78.
- Cabe, Frank D. Combined fluid container and cooling core therefor. 2,925,200, 2-16-60, Cl. 222-130.
- Cabin Crafts, Inc.: *See*—  
Bryant, Clifford A., and Payne. 2,935,778.
- Hackney, Robert F., Payne, and Sapp. 2,954,865.
- Cable Belt Ltd.: *See*—  
Cripps, Alan. 2,924,326.
- Cable Covers Ltd.: *See*—  
Walton, John H. 2,962,129.
- Cable Electric Products, Inc.: *See*—  
Grohsal, Alexis C. 2,952,829.
- Cable Raincoat Co.: *See*—  
Roseman, Isadore M. 2,941,577.
- Cabot, Godfrey L., Inc.: *See*—  
Jordan, Merrill E., and Burbine. 2,947,713.
- Munsell, David D. 2,920,793.
- Reintjes, Harold. 2,922,752.
- Reintjes, Harold. 2,927,062.
- Specht, Otto E., and Boyd. 2,938,651.
- Cabot Shops, Inc.: *See*—  
Wilkinson, Alvin H. 2,954,131.
- Wilkinson, Alvin H., and Newhouse. 2,923,381.
- Cacciola, Peter M. Seed planter. 2,937,604, 5-24-60, Cl. 111-82.
- Caddell, Flora E. Detachable ironing board clothes receptacles and hangers therefor. 2,941,320, 6-21-60, Cl. 38-111.
- Caddell, Alfred M. Multiple stage turbine unit. 2,933,287, 4-19-60, Cl. 253-87.
- Caddell, Alfred M. Compressor with air cooler between stages. 2,940,660, 6-14-60, Cl. 230-130.
- Caddell, Alfred M. Rotary temperature-reducing exhaust silencer. 2,942,685, 6-28-60, Cl. 181-64.



- Caddell, Alfred M. Compressor with compressed air reactive drive. 2,944,730, 7-12-60, Cl. 230-127.
- Caddell, Alfred M. Centrifugal fluid compressor with axial delivery. 2,945,620, 7-19-60, Cl. 230-127.
- Caddell, Alfred M. Active-reactive energy applications for prime movers. 2,945,670, 7-19-60, Cl. 253-39.
- Caddell, Alfred M. Vestibule air intake for jet engines. 2,963,856, 12-13-60, Cl. 60-35.6.
- Cadden, William J., to Bell Telephone Laboratories, Inc. Shift register counter. 2,951,230, 8-30-60, Cl. 340-168.
- Caddock, Richard E., to Bourns, Inc. Variable resistor. 2,946,975, 7-26-60, Cl. 338-183.
- Caddy, Edward W. J., to Garrard Engineering and Mfg. Co. Ltd. Automatic record changing gramophones. 2,954,981, 10-4-60, Cl. 274-10.
- Cade, Phillip J.: *See*—  
Thomson, Elihu C., and Cade. 2,963,622.
- Cade, Phillip J., to Electronics Corp. of America. Headlight control apparatus. 2,965,798, 12-20-60, Cl. 315-83.
- Cadet Chemical Corp.: *See*—  
Wahl, Allan A. 2,927,084.
- Cadillac Gage Co.: *See*—  
Brandstadter, Jack M., and Taylor. 2,929,391.
- Jarvis, John. 2,944,526.
- Cadillac, John G., and R. T., to Aacon Contracting Co., Inc. Vehicle boxing. 2,953,848, 9-27-60, Cl. 29-407.
- Cadillac, Robert T.: *See*—  
Cadillac, John G., and R. T. 2,953,848.
- Cadm Corp., The: *See*—  
Allenbaugh, Ralph. 2,928,671.
- Cadman, Coin Q. Attachment for golf clubs. 2,950,919, 8-30-60, Cl. 273-171.
- Cadwallader, Alvin A., to Feleflex Inc. Linear irreversible mechanism. 2,959,982, 11-15-60, Cl. 74-531.
- Cadwell, Charles W. Bathing accessory. 2,946,074, 7-26-60, Cl. 15-122.
- Cady, Arthur B., to Capitol Products Corp. Oven heating system. 2,956,523, 10-18-60, Cl. 107-63.
- Cady, Charles E., to General Electric Co. Automatic tuning system. 2,956,161, 10-11-60, Cl. 250-40.
- Cady, Charles E., to General Electric Co. Snap-opening box. 2,963,195, 12-6-60, Cl. 220-35.
- Cady, George H.: *See*—  
Dudley, Francis B., and Cady. 2,946,661.
- Cady, John F.: *See*—  
Murdoch, Colin D. 2,926,861.
- Caen, Kenneth G., to L. J. Horan. Fuel pressure regulators. 2,936,781, 5-17-60, Cl. 137-588.
- Caero, Jose G. Disk brake. 2,955,680, 10-11-60, Cl. 188-70.
- Caesar, Cameron H., G. G. Lukk, and F. Bonmartini, to Esso Research and Engineering Co. Desorption process wherein a portion of the adsorbate is burned with an oxygen-containing gas utilizing a moving heat front. 2,966,451, 12-27-60, Cl. 208-26.
- Cafarelli, Nicholas J., Jr.: *See*—  
Mellix, Oliver S., Whittle, and Cafarelli. 2,962,714.
- Cafferro, Edward M., to American Sign & Indicator Corp. Display sign. 2,959,881, 11-15-60, Cl. 40-142.
- Caffrey, James M., Jr.: *See*—  
Allen, Augustine O., and Caffrey. 2,955,997.
- Cage, John M., to Sturdy-Cage Projects, Inc. Microwave television system. 2,945,089, 7-12-60, Cl. 178-7.2.
- Cagen, George, to Roanwell Corp. Headset. 2,924,672, 2-9-60, Cl. 179-156.
- Cagle, Duward S.: *See*—  
Stone, Kenneth F., Force, Olson, and Cagle. 2,964,710.
- Cagle, John E.: *See*—  
Bland, Richard L., and Cagle. 2,940,707.
- Cagle, William B., and W. H. Chen, to Bell Telephone Laboratories, Inc. Diode-transistor switching circuits. 2,964,653, 12-13-60, Cl. 307-88.5.
- Caha, Archimiro, and V. Prokes. Probe for a scintillation meter arrangement. 2,931,905, 4-5-60, Cl. 250-71.5.
- Cahill, Richard T., and E. A. Wheelock, to Chicago Rawhide Mfg. Co. Seals. 2,943,872, 7-5-60, Cl. 286-11.
- Cahill, Robert C.: *See*—  
Riede, John R., and Cahill. 2,958,037.
- Cahn, Eric P. Support for air conditioner unit. 2,935,366, 5-3-60, Cl. 312-213.
- Cahn, Frank J., to Louis Milani Foods, Inc. Process for producing cold water-soluble gelatin compositions. 2,948,622, 8-9-60, Cl. 99-130.
- Cahn, Robert P., to Esso Research and Engineering Co. Selective segregation of hydrocarbon constituents in a combination crude distillation process. 2,935,462, 5-3-60, Cl. 208-81.
- Cahn, Robert P., to Esso Research and Engineering Co. Production of diolefins. 2,957,928, 10-25-60, Cl. 260-680.
- Cahn, Robert P., and J. M. Naugle, to Esso Research and Engineering Co. Alkylation of aromatics. 2,943,118, 6-28-60, Cl. 260-671.
- Cahn, Robert P., and A. L. Baron, to Esso Research and Engineering Co. Light ends absorption system. 2,959,540, 11-8-60, Cl. 208-345.
- Cahne, Armand, to M. Gregoire. Method of coating a metal base with polytetrafluoroethylene. 2,944,917, 7-12-60, Cl. 117-49.
- Cahoon, Nelson C.: *See*—  
Johnson, Richard E., Cahoon, and Schaefer. 2,945,079.
- Johnson, Richard E., Darland, Grukke, Cahoon, and Schaefer. 2,948,767.
- Cail, Roland A., and E. M. Payne, to Electric & Musical Industries Ltd. Improvements relating to control systems for automatic machine tools. 2,944,737, 7-12-60, Cl. 235-151.
- Caillat, Albert E.: *See*—  
Gouloues, Noel, Caillat, and Criquillon. 2,965,469.
- Caillaud, Michel E., to Societe Anonyme Francaise pour la Separation l'Emulsion et le Melange (Procédes S.E.M.). Kinematic control system, chiefly for pumps having an adjustable throughput. 2,953,029, 9-20-60, Cl. 74-40.
- Caillaud, Michel E., to Societe Anonyme Francaise pour la Separation, l'Emulsion et le Melange (Procédes S.E.M.). Mixing, emulsifying, homogenizing and the like machines. 2,960,318, 11-15-60, Cl. 259-9.
- Caille, Charles, to Sulzer Freres, S.A. Variable width air curtain protected doorway. 2,939,374, 6-7-60, Cl. 98-36.
- Caillotte, Georges. Jet propelling unit. 2,937,496, 5-24-60, Cl. 60-35.54.
- Cain, Clayborn Y.: *See*—  
Fields, William L., and Cain. 2,949,293.
- Cain, Dallas E., and J. A. Pritzlaff, to General Electric Co. Device for producing step by step motion in different directions. 2,927,556, 3-8-60, Cl. 121-40.
- Cain, Earl S., Jr., to The Garrett Corp. Antifriction bearing construction. 2,926,052, 2-23-60, Cl. 308-187.
- Cain, Gordon A., to Freeport Sulphur Co. Saline water heating processes and systems. 2,947,689, 8-2-60, Cl. 210-56.
- Cain, Jack L., to Texaco Inc. Gravel packing shale formations. 2,955,653, 10-11-60, Cl. 166-20.
- Cain, Lester R., to International Telephone and Telegraph Corp. Telephone system with digit-translating trunk repeaters. 2,926,218, 2-23-60, Cl. 179-16.
- Cain, Robert M.: *See*—  
Parmater, Lee W., and Cain. 2,959,711.
- Cain, William A., Jr. Control and locking operator for plate valves. 2,919,601, 1-5-60, Cl. 74-531.
- Cairnes, Charles W., to United States of America, Air Force. Adjustable pedestal for mounting precision and power equipment. 2,921,764, 1-19-60, Cl. 248-163.
- Cairns, James J.: *See*—  
Olson, Frederick F., and Cairns. 2,943,405.
- Cal, Genevieve K.: *See*—  
Leonard, George H. 2,924,989.
- Calabrese, Louis M. Educational toy. 2,952,923, 9-20-60, Cl. 35-36.
- Calabrese, Rocco. Diverless ship salvage apparatus. 2,939-416, 6-7-60, Cl. 114-51.
- Calabro, Sebastian J. Combination chord, interval, scale and scale degree indicator. 2,958,251, 11-1-60, Cl. 84-477.
- Calam, Christopher T., and P. J. Curtis, to Imperial Chemical Industries Ltd. Isolation process. 2,950,288, 8-23-60, Cl. 260-343.3.
- Calaman, Joseph J.: *See*—  
Royer, Stanley H., Miller, and Calaman. 2,935,303.
- Calaora, Albert: *See*—  
Gavreau, Vladimir, and Calaora. 2,946,938.
- Calcinator Corp.: *See*—  
Herbert, John W., Schubert, and Coles. 2,962,987.
- Calcium Carbonate Co.: *See*—  
McHan, Brack B. 2,929,734.
- McHan, Brack B. 2,937,954.
- Calculagraph Co.: *See*—  
Moodie, William C., Sr. 2,963,968.
- Cal-Dak Co., The: *See*—  
Best, Melvin H. 2,920,900.
- Dunbar, Robert H. 2,919,809.
- Calder, Nigel D. R.: *See*—  
Schagen, Pieter, and Calder. 2,924,656.
- Schagen, Pieter, Eastwell, and Calder. 2,957,097.
- Calder, Nigel D. R., and P. Schagen, to North American Philips Co., Inc. Scanning and display device for television and like purposes. 2,927,315, 3-1-60, Cl. 340-370.
- Calder, Nigel D. R., P. Schagen, and C. H. Tosswill, to North American Philips Co., Inc. Optical scanning device. 2,957,044, 10-18-60, Cl. 178-7.6.
- Calder, Royall M. Phosphatide therapeutic composition and method of treatment therewith. 2,935,448, 5-3-60, Cl. 167-65.
- Calderazzo, Fausto: *See*—  
Natta, Giulio, Ercoli, and Calderazzo. 2,940,832.
- Calderbank, Alan, and R. Ghosh, to Imperial Chemical Industries Ltd. O'-diethyl S-( $\beta$ -dimethyl amino- $\beta$ -methyl) propyl phosphorothiolates and pesticidal composition containing same. 2,943,015, 6-28-60, Cl. 167-22.
- Calderhead, Henry J.: *See*—  
Bird, James R., Calderhead, and Heller. 2,966,645.
- Waterfield, Clayton F., Calderhead, and Heller. 2,946-005.
- Calderone, Ridsy, Jr.: *See*—  
Cooper, John J., and A. R. and D. Hawk. 2,958,543.
- Calderone, Sam: *See*—  
Cooper, John J., and A. R. and D. Hawk. 2,958,543.
- Caldwell, Blake M.: *See*—  
Howard, George C., and Caldwell. 2,935,020.
- Caldwell, Blake M., to Welox, Inc. Junk basket. 2,927,644, 3-8-60, Cl. 166-99.
- Caldwell, Bruce I., to said B. I. and M. A. Caldwell, and R. W. Fuller. Fire protection wire or cable. 2,948,789, 8-9-60, Cl. 200-143.



- Caldwell, Carlyle G., and O. B. Wurzberg, to National Starch and Chemical Corp. Method of making paper containing a starch ether and product produced thereby. 2,935,436, 5-3-60, Cl. 162-175.
- Caldwell, Charles W. Dispensing brushes. 2,952,027, 9-13-60, Cl. 15-131.1.
- Caldwell, Harvey E.: *See*—  
Journey, Clarence E., and Caldwell. 2,948,447.
- Caldwell, James E. Clarinet tenon repair tool and method of repairing clarinets. 2,951,284, 9-6-60, Cl. 29-401.
- Caldwell, James N., and H. R. A. Hansen, to The Louis Allis Co. D.C. adjustable speed drive. 2,929,975, 3-22-60, Cl. 318-154.
- Caldwell, John R.: *See*—  
Martin, James C., and Caldwell. 2,937,162.
- Caldwell, John R., to Eastman Kodak Co. Acrylonitrile polymer compositions containing modified bentonite and fibers formed therefrom. 2,921,042, 1-12-60, Cl. 260-30.4.
- Caldwell, John R., to Eastman Kodak Co. Surface treating polyester films and fibers with primary amino compounds. 2,921,828, 1-19-60, Cl. 8-4.
- Caldwell, John R., to Eastman Kodak Co. Polyamides of 4-carboxypiperidine. 2,952,687, 9-13-60, Cl. 260-78.
- Caldwell, John R., to Eastman Kodak Co. Compositions of polyacrylates with gelatin and other proteins. 2,956,884, 10-18-60, Cl. 96-114.
- Caldwell, John R., and J. W. Wellman, to Eastman Kodak Co. Polyesters of sulfonfylidibenzole acid and gemdialkyl glycols. 2,921,052, 1-12-60, Cl. 260-75.
- Caldwell, John R., and J. W. Wellman, to Eastman Kodak Co. Co-polyesters of a dicarboxylic acid, a dihydric alcohol and a substituted benzenesulfonamide. 2,925,404, 2-16-60, Cl. 260-49.
- Caldwell, John R., and R. Gilkey, to Eastman Kodak Co. Linear polyamides from ether-type diamines, 1,4-cyclohexanedicarboxylic acid and an upgrading diamine. 2,939,862, 6-7-60, Cl. 260-47.
- Caldwell, John R., and R. Gilkey, to Eastman Kodak Co. Linear condensation polymers from p-carboxycarbanilic acid. 2,945,007, 7-12-60, Cl. 260-75.
- Caldwell, John R., R. Gilkey, and B. S. Meeks, Jr., to Eastman Kodak Co. Condensation polymers derived from spiro-glycols. 2,945,008, 7-12-60, Cl. 260-75.
- Caldwell, John R., and R. Gilkey, to Eastman Kodak Co. Polyamides from oxamic acids. 2,945,011, 7-12-60, Cl. 260-78.
- Caldwell, John R., and J. W. Tamblyn, to Eastman Kodak Co. Composition containing vinyl polymer and a bicycloheptene dicarboxylic acid-glycol polyester and process for making the polyester. 2,950,265, 8-23-60, Cl. 260-31.6.
- Caldwell, John R., and W. J. Jackson, Jr., to Eastman Kodak Co. Esters of 6-cyanonorcamphane-2 (or 3)-carboxylic acid and resin plasticized therewith. 2,956,977, 10-18-60, Cl. 260-31.2.
- Caldwell, John R., and W. J. Jackson, Jr., to Eastman Kodak Co. Aminomethyl norcamphanecarboxylic acids and polyamides thereof. 2,956,987, 10-18-60, Cl. 260-78.
- Caldwell, John R., and R. Gilkey, to Eastman Kodak Co. Linear polyamides from aliphatic dicarboxy compounds and aliphatic diamines upgraded with trans-1,4-cyclohexanedicarboxylic acid. 2,965,616, 12-20-60, Cl. 260-78.
- Caldwell, Joseph J., Jr., to Hughes Aircraft Co. Traveling-wave tube assembly. 2,935,641, 5-3-60, Cl. 315-3.5.
- Caldwell, Joseph J., Jr., to Sperry Rand Corp. Object detecting and locating system. 2,952,014, 9-6-60, Cl. 343-11.
- Caldwell, Leslie M. Slings. 2,919,949, 1-5-60, Cl. 294-74.
- Caldwell Mfg. Co., The: *See*—  
Nobes, William D. 2,929,095.
- Caldwell, Marion J.: *See*—  
Gehrt, Albert J., Caldwell, and Elmslie. 2,924,522.
- Caldwell, Mary F.: *See*—  
Caldwell, Winston. Re. 24,879.
- Caldwell, Maurice A.: *See*—  
Caldwell, Bruce I. 2,948,789.
- Caldwell, Paul,  $\frac{1}{2}$  to D. W. Lloyd. Production of a calcium phosphate fertilizer with reduced hygroscopicity. 2,942,987, 6-28-60, Cl. 71-39.
- Caldwell, Ralph, F. C. De Luca, F. M. Jue, and J. H. Fergus, to United States of America, Army. Safety and arming unit for a high velocity missile. 2,958,283, 11-1-60, Cl. 102-70.
- Caldwell, Richard L.: *See*—  
Bonner, Tom W., and Caldwell. 2,948,811.  
Bonner, Tom W., and Caldwell. 2,963,582.
- Caldwell, Richard L., G. L. Hoehn, Jr., and T. W. Bonner, to Socony Mobil Oil Co., Inc. Selected scattered gamma-ray density logging. 2,934,652, 4-26-60, Cl. 250-83.6.
- Caldwell, Richard L., and S. E. Turner, to Socony Mobil Oil Co., Inc. Delayed gamma radiation log of oxygen. 2,948,810, 8-9-60, Cl. 250-83.3.
- Caldwell, Robert B.: *See*—  
Slezak, Robert W., Bjerke, and Caldwell. 2,946,461.
- Caldwell, Robert L.,  $\frac{1}{2}$  to R. L. Caldwell, and  $\frac{1}{2}$  to R. B. Caldwell. Egg crate or collapsible container. 2,936,090, 5-10-60, Cl. 217-15.
- Caldwell, Roy L.: *See*—  
Caldwell, Robert L. 2,936,090.
- Caldwell, Rual B.: *See*—  
Caldwell, Robert L. 2,936,090.
- Caldwell, Samuel H., to Graphic Arts Research Foundation, Inc. Ideographic type composing machine. 2,950,800, 8-30-60, Cl. 197-1.
- Caldwell, Samuel P., to The Greist Mfg. Co. Gage mechanism. 2,946,128, 7-26-60, Cl. 33-147.
- Caldwell, Samuel P., and F. A. Capuano, to The Greist Mfg. Co. Marking device for sewing machine attachments. 2,925,795, 2-23-60, Cl. 112-131.
- Caldwell, William A. Universal relief valve and pressure signal for pneumatic tires. 2,925,799, 2-23-60, Cl. 116-34.
- Caldwell, Winston, deceased, by M. F. Caldwell, administratrix,  $\frac{1}{4}$  to J. J. Stanley. Electron tube thermoelectric generator. Re. 24,879, 9-27-60, Cl. 310-4.
- Cale, Roland E., to Schaefer Equipment Co. Wear plate for brake hanger brackets. 2,921,653, 1-19-60, Cl. 188-209.
- Calehuff, James M.: *See*—  
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- Calendine, Roy A., and C. A. Schroeder. Cable splicing sleeve. 2,938,940, 5-31-60, Cl. 174-76.
- Caler, Herschel R., M. Russo, and E. N. Singer, to United States of America, Navy. Adjustable cam. 2,945,397, 7-19-60, Cl. 74-568.
- Caler, Herschel R., M. Russo, and E. N. Singer, to United States of America, Navy. Automatic peak level indicator system. 2,952,768, 9-13-60, Cl. 250-1.
- Caley, George W.: *See*—  
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- Calfee, John D.: *See*—  
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- Calhoun, Charles W., to Bowen Iteco, Inc. Weight indicating mechanism. 2,940,308, 6-14-60, Cl. 73-143.
- Calhoun, Ernest N., and D. L. Ripley, to Edwin L. Wiegand Co. Baseboard heaters. 2,954,456, 9-27-60, Cl. 219-34.
- Calhoun, Howard J., and W. L. Human, Jr., to Westinghouse Electric Corp. Contact making devices. 2,945,929, 7-19-60, Cl. 200-87.
- Calhoun, James R., and W. L. Shirley, to Appleton Wire Works Corp. Fault detection apparatus for weaving. 2,930,411, 3-29-60, Cl. 139-352.
- Calhoun, Lannie M.: *See*—  
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- Calhoun, Samuel E., to Pitney-Bowes, Inc. Envelope flap opening device. 2,939,261, 6-7-60, Cl. 53-381.
- Calhoun, Samuel E., to Pitney-Bowes, Inc. Sheet mis-feed detection means. 2,966,355, 12-27-60, Cl. 271-57.
- Call, Lawrence J.: *See*—  
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- Calidyne Co., Inc., The: *See*—  
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- Calleezi, Armin, and W. Kern, to Ciba Ltd. Vat dyestuffs of the acedanthrone series. 2,945,866, 7-19-60, Cl. 260-351.
- California Almond Orchards, Inc.: *See*—  
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- California Fresno Investment Corp.: *See*—  
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- California Industrial Products: *See*—  
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- California Institute Research Foundation: *See*—  
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- Califone Packing Corp.: *See*—  
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- California Plasteck, Inc.: *See*—  
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- Batchelder, Augustus H., and Sieg. 2,942,933.
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- Chinn, Austin B. 2,964,461.
- Chittum, Joseph F., and Rohrback. 2,934,503.
- Dreher, John L., and Carter. 2,945,813.
- Elliott, Laverne P. 2,942,932.
- Elliott, Laverne P., and Rossi. 2,920,029.
- Farnham, Robert A. 2,945,807.
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 Hull, Donald E. 2,957,989.  
 Hull, Donald E., and Huey. 2,943,045.  
 Klein, Walter W., Jr., Grannemann, and Fredriksson. 2,952,812.  
 Lavigne, Joe B. 2,938,918.  
 Lew, Henry Y. 2,956,025.  
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 Stine, Harrison M., and Callahan. 2,945,909.  
 Callahan, James L., R. W. Foreman, and F. Veatch, to Standard Oil Co. Process for the oxidation of olefins. 2,941,007, 6-14-60, Cl. 260—604.  
 Callahan, John C., and E. R. Sandhage, to American Cyanamid Co. Aseptic liquid transfer apparatus. 2,954,769, 10-4-60, Cl. 128—272.  
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 Callahan, Lester L., and T. E. Clark. Extensible automobile awning and cantilever support therefor. 2,922,472, 1-26-60, Cl. 160—62.  
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 Calva, Jose B.,  $\frac{1}{2}$  to G. W. Benz. Apparatus for odorizing liquefied gas. 2,919,981, 1-5-60, Cl. 48—195.  
 Calvache, Manuel, and A. Overbury, said Overbury assor., to said Calvache. Olive packing machine. 2,964,893, 12-20-60, Cl. 53—237.  
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- Cameron, Donald J., to Cameron Windows Aluminum Ltd. Weatherstripping for double hung windows. 2,948,028, 8-9-60, Cl. 20—52.4.
- Cameron, Donald J., and A. G. De Claire, Jr., to Holley Carburetor Co. Fuel system. 2,957,682, 10-25-60, Cl. 261—23.
- Cameron, Frank. Signal device for bobber. 2,962,831, 12-6-60, Cl. 43—17.
- Cameron, Frank L., and T. J. Herter, to Westinghouse Electric Corp. Automatic recloser. 2,922,005, 1-19-60, Cl. 200—89.
- Cameron, Hugh J.: *See—*  
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- Cameron, Margaret D., to Monsanto Chemical Co. Process for aromatic alkynyl ethers. 2,931,836, 4-5-60, Cl. 260—612.
- Cameron, Margaret D., to Monsanto Chemical Co. Oxidative coupling process. 2,942,014, 6-21-60, Cl. 260—410.6.
- Cameron, Mortimer B., to Westinghouse Air Brake Co. Railway wheel tread brake unit. 2,940,554, 6-14-60, Cl. 188—153.
- Cameron, Phillip G., O. A. Clark, and J. L. Maxwell, to American Telephone and Telegraph Co. Permutation code selecting circuit. 2,961,488, 11-22-60, Cl. 178—53.1.
- Cameron, Thomas A., and H. F. Keyser, to Goodyear Aircraft Corp. Stretch forming of metal sheets provided with reinforcing ribs. 2,949,667, 8-23-60, Cl. 29—428.
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- Cametti, Benjamin, and O. P. Steele, III, to Westinghouse Electric Corp. Bearing and mounting therefor. 2,956,841, 10-18-60, Cl. 308—26.
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- Camilli, Guglielmo, to General Electric Co. High voltage transformer. 2,958,058, 10-25-60, Cl. 336—174.
- Camilli, Guglielmo, and J. B. Stover, to General Electric Co. Winding arrangement for electrical apparatus. 2,942,213, 6-21-60, Cl. 336—60.
- Camilli, Guglielmo, and S. H. Wilk, to General Electric Co. Electrical apparatus and enclosure therefor. 2,942,216, 6-21-60, Cl. 336—92.
- Camilli, Guglielmo, and D. R. Pryde, to General Electric Co. Cooling arrangement for electric apparatus. 2,947,798, 8-2-60, Cl. 174—15.
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- Camino, Anthony V.: *See—*  
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Newcomer, Jacob R., Jr., and Raska. 2,926,056.
- Camm, John C., R. K. Lee, and R. Silver, to Electronics Corp. of America. Electrical actuator. 2,926,293, 2-23-60, Cl. 318—117.
- Cammack, Arthur R., to Associated Engineering & Equipment Co. Weight indicator. 2,925,731, 2-23-60, Cl. 73—144.
- Cammann, Fred W. Internal tube cutter. 2,942,092, 6-21-60, Cl. 219—69.
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- Camp, Elza Q., W. O. Milligan, and A. J. Schmidl, to Esso Research and Engineering Co. Treatment of aromatic hydrocarbons with silica-alumina pills to produce solvents. 2,932,676, 4-12-60, Cl. 260—674.
- Camp, George F. Fluid cylinder. 2,962,975, 12-6-60, Cl. 103—175.
- Camp, Glenn D., to Melpar, Inc. Distance measuring systems. 2,926,243, 2-23-60, Cl. 250—27.
- Camp, James B., to United States Steel Corp. Magnetic impulse switch. 2,929,945, 3-22-60, Cl. 310—156.
- Camp, James B., to United States Steel Corp. Self-cleaning light receiver for pin hole detector. 2,932,747, 4-12-60, Cl. 250—239.
- Camp, James B., to United States Steel Corp. Mechanism and method for classifying and assorting metal sheets. 2,950,640, 8-30-60, Cl. 83—29.
- Camp, James B., to United States Steel Corp. Pinhole detector. 2,958,785, 11-1-60, Cl. 250—219.
- Camp, John M., J. E. Eckel, and M. C. Sons, to Jersey Production Research Co. Two fluid drilling system. 2,951,680, 9-6-60, Cl. 255—1.8.
- Camp, Leon W., to The Bendix Corp. Underwater transducer having a longitudinally vibratile element. 2,961,637, 11-22-60, Cl. 340—10.
- Camp, Leon W., and J. P. O'Neill, to Bendix Aviation Corp. Transducers for generating vibrations in liquids. 2,930,913, 3-29-60, Cl. 310—26.
- Camp, Marvin E., to W. L. Bonnell. Sink mountings and sink frame components therefor. 2,921,321, 1-19-60, Cl. 4—187.
- Camp, William W., to Heinemann Electric Co. Handle and latching mechanism for circuit breakers. 2,958,751, 11-1-60, Cl. 200—153.
- Campa, Ferdinand J.: *See—*  
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- Campagna, Gary J. Anoscope. 2,922,415, 1-26-60, Cl. 128—4.
- Campagna, Louis. Draining spoon. 2,923,059, 2-2-60, Cl. 30—325.
- Campagnolo, Tullio. Saddle supports for bicycles and like vehicles. 2,920,911, 1-12-60, Cl. 287—14.
- Campaola, Michael: *See—*  
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- Campani, Louis M., to The Liquidometer Corp. Liquid weight gauging apparatus. 2,942,467, 6-28-60, Cl. 73—304.
- Campanile, Vincent A., to Shell Oil Co. Particle accelerator. 2,959,700, 11-8-60, Cl. 313—64.
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- Campbell, Carl M., Jr., to Burroughs Corp. Gating circuits. 2,927,733, 3-8-60, Cl. 235—76.
- Campbell, Carl M., Jr., to Burroughs Corp. Bistable circuit. 2,928,010, 3-8-60, Cl. 307—88.5.
- Campbell, Carl M., Jr., to Burroughs Corp. Bistable circuits. 2,928,011, 3-8-60, Cl. 307—88.5.
- Campbell, Carol, Enterprises, Inc.: *See—*  
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- Campbell, Charles A. High speed recording system. 2,933,364, 4-19-60, Cl. 346—33.
- Campbell, Charles A. Symbol writing recorder. 2,933,559, 4-19-60, Cl. 178—30.
- Campbell, Charles H., and L. T. Jenkins, to The Chemstrand Corp. Stabilized compositions of polymerizable monomers. 2,932,661, 4-12-60, Cl. 260—465.9.
- Campbell, Charles L., to Centrifix Corp. Line purifier construction. 2,925,884, 2-23-60, Cl. 183—80.
- Campbell, Charles L., to Centrifix Corp. Internal purifier. 2,929,465, 3-22-60, Cl. 183—81.
- Campbell, Clarence: *See—*  
Bauer, Jackson, and Campbell. 2,950,221.
- Campbell, Dan H., to California Institute Research Foundation. Process for the isolation of diagnostic and immunizing proteinaceous materials. 2,957,808, 10-25-60, Cl. 167—78.
- Campbell, Dan N., to Monsanto Chemical Co. Polymerization inhibitor. 2,964,131, 12-13-60, Cl. 183—115.
- Campbell, Dan N., to Monsanto Chemical Co. Polymerization inhibitor. 2,965,685, 12-20-60, Cl. 260—666.5.
- Campbell, David D., and C. S. Semar, to General Motors Corp. Hinge. 2,947,025, 8-2-60, Cl. 16—178.
- Campbell, David D., and L. P. Garvey, to General Motors Corp. Hinge assembly. 2,948,917, 8-16-60, Cl. 16—163.
- Campbell, David D., and L. P. Garvey, to General Motors Corp. Window regulator mechanism. 2,955,817, 10-11-60, Cl. 268—126.
- Campbell, David R., to E. I. du Pont de Nemours and Co. Process for the preparation of improved polytetrafluoroethylene extrusion powder. 2,931,106, 4-5-60, Cl. 34—30.
- Campbell, David S., to Cardwell Westinghouse Co. Rubber draft gear. 2,934,216, 4-26-60, Cl. 213—45.
- Campbell, David S., to Cardwell Westinghouse Co. Draft gear with supplemental resistance mechanism. 2,956,692, 10-18-60, Cl. 213—34.
- Campbell, Donald A., to Eclipse Fuel Engineering Co. Low velocity gas burner. 2,965,167, 12-20-60, Cl. 158—113.
- Campbell, Donald E.: *See—*  
Halina, Joseph W. 2,962,553.
- Campbell, Donald E. Electrical box connector. 2,927,807, 3-8-60, Cl. 285—128.
- Campbell, Donald J., to J. I. Case Co. Reversible disc plow and rear wheel system. 2,949,161, 8-16-60, Cl. 172—212.
- Campbell, Edwin P. Grass catcher for rotary mowers. 2,932,146, 4-12-60, Cl. 56—202.
- Campbell, Elwin B. Loading pallet board. 2,923,512, 2-2-60, Cl. 248—120.



- Campbell, Ernest C., Jr., to Hallmark Cards, Inc. Moistening apparatus. 2,954,573, 10-4-60, Cl. 15-131.
- Campbell, Ernest G. Liner pipes. 2,926,701, 3-1-60, Cl. 138-97.
- Campbell, Francis K., 1/2 to The Moran Corp. Method of exploration for locating hydrocarbons and oil. 2,950,392, 8-23-60, Cl. 250-83.
- Campbell, Frank G.: See—
- Messick, Kirwan Y. 2,955,718.
- Campbell, Gregory J., to W. T. Neiman. Mop and brush cleaning device. 2,921,325, 1-19-60, Cl. 15-142.
- Campbell, Grosvenor P. Arm rest. 2,961,038, 11-22-60, Cl. 155-198.
- Campbell, Hallock C.: See—
- Johnson, Wallace C., and Campbell. 2,955,193.
- Campbell, Henry H. Garage door operating mechanism. 2,921,782, 1-19-60, Cl. 268-58.
- Campbell, Huntly M.: See—
- Williams, Henry M., and Campbell. 2,920,380.
- Campbell, Huntly M., to Olin Mathieson Chemical Corp. Heat exchanger. 2,957,679, 10-25-60, Cl. 257-130.
- Campbell, Ivor E.: See—
- Wehrmann, Ralph F., Yntema, and Campbell. 2,924,004.
- Yntema, Leonard F., Beidler, and Campbell. 2,920,006.
- Campbell, Ivor E., and D. M. Rosenbaum, to The Battelle Development Corp. Method for preparation of rhenium. 2,935,399, 5-3-60, Cl. 75-84.
- Campbell, Ivor E., and J. M. Blocher, Jr., to Chilean Nitrate Sales Corp. Dissociation-deposition unit for the production of chromium. 2,955,566, 10-11-60, Cl. 118-48.
- Campbell, J. Allan: See—
- Babcock, John C., and Campbell. 2,936,312.
- Campbell, James F., to The Bendix Corp. Fuel control device utilizing engine speed governor. 2,960,154, 11-15-60, Cl. 158-36.
- Campbell, James R. Method and apparatus for fabricating structural panel and core therefor. 2,930,882, 3-29-60, Cl. 219-81.
- Campbell, James R. Honeycomb core and panel utilizing same. 2,959,257, 11-8-60, Cl. 189-34.
- Campbell, James S., to Chrysler Corp. High pressure ball relief valve. 2,933,103, 4-19-60, Cl. 137-539.5.
- Campbell, John H.: See—
- Saltz, Bernard, and Campbell. 2,928,363.
- Campbell, John O., and Y. J. Liu, to Aerostronics Corp. System and apparatus for preventing collisions between vehicles. 2,933,726, 4-19-60, Cl. 343-112.
- Campbell, John O., and Y. J. Liu, to Aerostronics Corp. System and apparatus for superimposing voice-time messages on signal recordings. 2,966,552, 12-27-60, Cl. 179-6.1.
- Campbell, John R.: See—
- Alholm, Wayne I., Campbell, Foye, Lynn, and Shanklin. 2,964,246.
- Campbell, John W., Jr. Electron discharge apparatus. 2,954,466, 9-27-60, Cl. 250-27.
- Campbell, Joseph K., to Sperry Rand Corp. Knife mounting for flywheel type forage harvesters. 2,938,557, 5-31-60, Cl. 146-107.
- Campbell, Julian A. Meter clock winding device. 2,931,163, 4-5-60, Cl. 58-46.
- Campbell, Leonard R.: See—
- Ricards, Charles L., Tollison, Campbell, and Oderman. 2,945,438.
- Campbell, LeRoy C.: See—
- Schrader, Loren E., and Campbell. 2,956,356.
- Campbell, Louis T., to United States Steel Corp. Support means for long tanks. 2,920,850, 1-12-60, Cl. 248-146.
- Campbell, Louis T., to United States Steel Corp. Hydraulic arrestor for inclined ramp. 2,931,478, 4-5-60, Cl. 193-40.
- Campbell, Mark E., to North American Aviation, Inc. Tracking display for aircraft. 2,943,824, 7-5-60, Cl. 244-77.
- Campbell, Mark S.: See—
- Smith, Joe H., and Campbell. 2,950,445.
- Campbell, Milford A. Hopper fed machine for orienting work pieces. 2,930,473, 3-29-60, Cl. 198-30.
- Campbell, Norman B., and L. Berthiaume, to Canadian Celanese Ltd. Manufacture of cellulose esters of aliphatic acids. 2,923,706, 2-2-60, Cl. 260-229.
- Campbell, Oliver K., to Sinclair Refining Co. Turbine with reheat cycle. 2,919,551, 1-5-60, Cl. 60-73.
- Campbell, Paul E.: See—
- Leatherman, Gerald T., and Campbell. 2,929,807.
- Campbell, Paul E., to Phillips Petroleum Co. Process for coating polyethylene with a higher melting polyolefinic composition and article therefrom. 2,928,756, 3-15-60, Cl. 117-47.
- Campbell, Richard A., to Hughes Aircraft Co. Optimum biasing binary threshold device for responding to pulses in presence of noise. 2,963,653, 12-6-60, Cl. 328-165.
- Campbell, Robert A. Cane-simulating luggage carrier. 2,932,526, 4-12-60, Cl. 280-42.
- Campbell, Robert G., Sr., to General Motors Corp. Hood mount. 2,936,990, 5-17-60, Cl. 248-288.
- Campbell, Robert H., to Continental Can Co., Inc. Tray. 2,965,279, 12-20-60, Cl. 229-34.
- Campbell, Robert W.: See—
- Kates, Leonard W., Campbell, and Heartel. 2,947,080.
- Campbell, Rodney B. Valve. 2,931,615, 4-5-60, Cl. 251-50.
- Campbell, Rodney B., to Malcolm R. Maben, trustee. Valve having fluid retarding means. 2,965,351, 12-20-60, Cl. 251-54.
- Campbell, Rouel R. Rotary storage file. 2,942,373, 6-28-60, Cl. 43-81.
- Campbell Soup Co.: See—
- Lindstaedt, Frank F. 2,928,222.
- Campbell, Sylvester J.: See—
- Derrick, Robert P., and Campbell. 2,945,637.
- Campbell, Thomas B., and E. Koledin. Combined coil handling and self aligning uncoiling apparatus. 2,962,241, 11-29-60, Cl. 242-79.
- Campbell, Thomas C.: See—
- Van Goey, Henry R., and Campbell. 2,926,609.
- Campbell, Tod W., to E. I. du Pont de Nemours, and Co. Carbodiimide polymers. 2,941,966, 6-21-60, Cl. 260-2.5.
- Campbell, Tod W., to E. I. du Pont de Nemours and Co. Crystalline polyallyl-trimethylsilane. 2,958,681, 11-1-60, Cl. 260-80.
- Campbell, Vernon G.: See—
- Zabrocki, Anthony J. 2,963,814.
- Campbell, William E. Candle holder. 2,948,135, 8-9-60, Cl. 67-23.
- Campbell, William E., Jr., and L. H. Brown, to Aerojet-General Corp. Propellant liner. 2,958,288, 11-1-60, Cl. 102-98.
- Campbell, William J. Device for testing the abrasion-resistance of surfaces of metallic articles. 2,950,617, 8-30-60, Cl. 73-7.
- Campe, William T., and A. C. Ensign, to Minneapolis-Honeywell Regulator Co. Switch apparatus. 2,924,692, 2-9-60, Cl. 200-167.
- Campe, William T., and R. A. Heinrich, to Minneapolis-Honeywell Regulator Co. Mounting arrangement for electrical device. 2,935,653, 5-3-60, Cl. 317-99.
- Campen, Charles F., Jr.: See—
- Lally, Vincent E., and Campen. 2,923,770.
- Camphausen, Fred H.: See—
- Harza, Leroy F. 2,937,065.
- Campo, Alfred, deceased; L. M. Campo, executrix. Filtered suction desoldering tool. 2,955,187, 10-4-60, Cl. 219-26.
- Campo, Alfred. Power suction desoldering tool. 2,955,188, 10-4-60, Cl. 219-26.
- Campo, Lillian M.: See—
- Campo, Alfred. 2,955,187.
- Camras, Marvin, to Armour Research Foundation of Illinois Institute of Technology. Electromagnetic head construction. 2,926,220, 2-23-60, Cl. 179-100.2.
- Canada, Alfred H., to General Electric Co. Device for directing radiated energy. 2,934,755, 4-26-60, Cl. 343-5.
- Canada, Alfred H., and D. De Jager, to General Electric Co. Optical dynamometer. 2,938,378, 5-31-60, Cl. 73-136.
- Canada, Charles W.: See—
- Cook, Howard L., Canada, and Smith. 2,920,581.
- Canada Cycle and Motor Co. Ltd.: See—
- Shakesby, Leonard. 2,934,136.
- Canada Envelope Co.: See—
- Normandin, William O. 2,945,616.
- Normandin, William O. 2,945,617.
- Canada, Her Majesty the Queen in right of: See—
- Moody, Norman F., and Florida. 2,945,134.
- Canada, Her Majesty The Queen In Right Of, as represented by the Minister of Mines and Technical Surveys: See—
- Willmore, Patrick L. 2,939,079.
- Canada, Her Majesty the Queen in the right of, as represented by the Minister of National Defence: See—
- Brynko, Carl, and Smithies. 2,930,139.
- Grant, George A. 2,919,977.
- Hay, Donald R. 2,958,829.
- Thompson, Philip M. 2,923,894.
- Thompson, Philip M. 2,931,984.
- Wright, Jerauld G., and Durie. 2,933,242.
- Canada, Her Majesty The Queen in the Right of, as represented by the Postmaster General: See—
- Levy, Maurice M. 2,925,586.
- Levy, Maurice M. 2,937,739.
- Canada Packers Ltd.: See—
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- Canada Wire and Cable Co. Ltd.: See—
- Vineberg, David A., and Messer. 2,958,929.
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- Sullivan, Bernell T., and Abbott. 2,938,991.
- Canadair Ltd.: See—
- Robinson, Gerge I., and Stypinski. 2,933,143.
- Canaday, Joe R.: See—
- Elliott, Harold V., and Canaday. 2,942,220.
- Canadian Admiral Corp., Ltd.: See—
- Irvine, Gordon L., and Voss. 2,939,978.
- Canadian Airborne Geophysics Ltd.: See—
- Puranen, Maunu. 2,931,973.
- Puranen, Maunu, Kahma, and Ronka. 2,929,984.
- Canadian Breweries Ltd.: See—
- McFarlane, William D. 2,939,791.
- Canadian Bronze Co., Ltd.: See—
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- Canadian Celanese Ltd.: See—
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- Canadian Curtiss-Wright Ltd.: See—
- Meray Horvath, L. 2,965,761.
- Canadian Fabricated Products Ltd.: See—
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- Canadian Forest Products Ltd.: See—
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- Canadian General Electric Co., Ltd.: *See*—  
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- Canadian Industries Ltd.: *See*—  
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Johnson, Arthur L., Morf, and Whiteley. 2,964,483.  
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- Canadian Ingersoll-Rand Co., Ltd.: *See*—  
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- Canadian International Paper Co.: *See*—  
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Leopold, Bengt, Mutton, and Saxton. 2,928,826.
- Canadian Marconi Co.: *See*—  
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- Candido, Michael, Jr., to Chas. Pfizer & Co., Inc. Apparatus for opening and unloading cartons. 2,925,185, 2-16-60, Cl. 214—304.
- Canadian Patents and Development Ltd.: *See*—  
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Vogelfanger, Isaac J., Beattie, Klein, Smialowski, and Fischer. 2,940,451.
- Canadian Pittsburgh Industries Ltd.: *See*—  
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- Canadian Summer Iron Works Ltd.: *See*—  
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- Canadian Westinghouse Co., Ltd.: *See*—  
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- Canalizo, Carlos R., to Otis Engineering Corp. Air or gas lift valves. 2,954,043, 9-27-60, Cl. 137—155.
- Canalizo, Carlos R., to Otis Engineering Corp. Means for installing and pulling well tools. 2,959,227, 11-8-60, Cl. 166—218.
- Canarios, Chrysosthenis M., to The Harshaw Chemical Co. Stabilized vinyl resin compositions. 2,944,045, 7-5-60, Cl. 260—45,75.
- Canausa, Fred C. Golfer's glove. 2,928,102, 3-15-60, Cl. 2—161.
- Canazzi, Henry D. Water brake for outboard motors and stern drives. 2,959,148, 11-8-60, Cl. 115—17.
- Candee, Allan H. Device for demonstrating mechanical movements. 2,957,243, 10-25-60, Cl. 33—31.
- Candela, Anthony S.: *See*—  
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- Candellise, Alfred, to General Motors Corp. Spark plug. 2,927,238, 3-1-60, Cl. 313—145.
- Candellise, Alfred, to General Motors Corp. Spark plug seal. 2,962,543, 11-29-60, Cl. 174—152.
- Candido, Michael, Jr., to Chas Pfizer & Co., Inc. Article storage and feeding device. 2,929,491, 3-22-60, Cl. 198—107.
- Candlin, James E., Jr., to Pullman-Standard Car Mfg. Co. Welded bolster construction. 2,931,319, 4-5-60, Cl. 105—414.
- Candlin, James E., Jr., to Pullman-Standard Car Mfg. Co. Vehicle folding step assembly. 2,951,454, 9-6-60, Cl. 105—447.
- Candlin, James E., Jr., to Pullman-Standard Car Mfg. Co. Suspension system. 2,951,455, 9-6-60, Cl. 105—453.
- Candlin, James E., Jr., and W. Van Der Sluys, to Pullman Inc. Side frame construction and finish. 2,925,050, 2-16-60, Cl. 105—397.
- Candlin, James E., Jr., R. W. Lanman, and W. Van Der Sluys, to Pullman-Standard Car Mfg. Co. Suspension system. 2,953,102, 9-20-60, Cl. 105—168.
- Candor, Robert R., to General Motors Corp. Control means for washer-dryer. 2,919,493, 1-5-60, Cl. 34—48.
- Canepa, Michele, to Olivetti Corp. of America. Decoding-printing apparatus. 2,945,091, 7-12-60, Cl. 178—34.
- Canepa, Michele, to Olivetti Corp. of America. Modified return-to-zero digital recording system. 2,954,267, 9-27-60, Cl. 346—74.
- Canevari, Gerard P., to Esso Research and Engineering Co. Heating of coker cyclone and outlet. 2,934,489, 4-26-60, Cl. 208—48.
- Canevari, Gerard P., and J. F. Delahunt, to Esso Research and Engineering Co. Coated pipeline and method of coating metal article to protect it against corrosion. 2,963,045, 12-6-60, Cl. 138—68.
- Canfield, Earl L. Electrical conductors, connections and methods of connection. 2,939,905, 6-7-60, Cl. 174—71.
- Canfield, Eugene B., to General Electric Co. Electromechanical overspeed limit switch. 2,938,091, 5-24-60, Cl. 200—87.
- Canfield, William B.: *See*—  
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- Canfield, Robert H., to United States of America, Navy. Combustion flask for liquid oxidants and fuels. 2,938,343, 5-31-60, Cl. 60—39,46.
- Canfora, Arthur E., H. J. Kishi, S. Sharin, and A. Liquori, to Radio Corp. of America. Electronic extensor. 2,938,078, 5-24-60, Cl. 178—70.
- Canivet, Gaston. Coin-operated electro-mechanical game of skill, of the pinball machine type. 2,962,287, 11-29-60, Cl. 273—119.
- Cann, Edward, J. Cann, and The Summit Trust Co., as trustees. Swinging doors. 2,939,527, 6-7-60, Cl. 160—87.
- Cann, Edward. Swinging doors. 2,942,660, 6-28-60, Cl. 160—354.
- Cann, Joan: *See*—  
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- Cann, Roald, to Bryant Chucking Grinder Co. Radial work support for centric grinding machine. 2,927,408, 3-8-60, Cl. 51—103.
- Cann, William F., Jr.: *See*—  
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- Cannan, John J. Paper sampler. 2,939,210, 6-7-60, Cl. 30—124.
- Cannata, Umberto G., to Boeing Airplane Co. Means for forming a profile template or the like. 2,960,776, 11-22-60, Cl. 33—174.
- Cannell, Russell S.: *See*—  
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- Cannella, Salvatore. Automatic anti-skid chains for automobiles. 2,948,319, 8-9-60, Cl. 152—214.
- Canner, Edwin M., to Kahn and Co., Inc. Remote controlled coupling for fluid lines. 2,921,436 1-19-60, Cl. 60—39,14.
- Canner, Edwin M., to Kahn and Co., Inc. Fluid line coupling with remote controlled fluid pressure actuated latch. 2,921,802, 1-19-60, Cl. 285—18.
- Canney, Charles G., and F. P. Whalen, to United States Steel Corp. Method of making cold headed wire. 2,933,424, 4-19-60, Cl. 148—12.
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- Cannon Electric Co.: *See*—  
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- Cannon, Jack A., to R. B. Wilk. Surgical instrument. 2,944,552, 7-12-60, Cl. 128—304.
- Cannon, James J.: *See*—  
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- Cannon, Kenneth F., Jr. Automatic load-release coupler. 2,928,693, 3-15-60, Cl. 294—83.
- Cannon, Maxwell R.: *See*—  
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- Cannon, Maxwell R., to International Business Machines Corp. Detecting apparatus. 2,939,016, 5-31-60, Cl. 250—219.
- Cannon, Maxwell R., to International Business Machines Corp. Conductive particle detector. 2,941,144, 6-14-60, Cl. 324—54.
- Cannon, Maxwell R., to International Business Machines Corp. Pulse counting and checking apparatus. 2,944,189, 7-5-60, Cl. 315—84,6.
- Cannon, Peter: *See*—  
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- Cannon, Peter, to General Electric Co. Gas separator. 2,951,552, 9-6-60, Cl. 183—45.
- Cannon, Robert H., Jr.: *See*—  
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- Cannon, William D., to The Western Union Telegraph Co. Delay and amplitude corrective system. 2,966,633, 12-27-60, Cl. 330—20.
- Cannova, Richard D.: *See*—  
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- Canon Camera Co., Inc.: *See*—  
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- Canovai, Peter C., Jr. Azotic colors. 2,934,459, 4-26-60, Cl. 117—126.
- Canter, James A., to General Motors Corp. Refrigerating apparatus. 2,964,922, 12-20-60, Cl. 62—160.
- Canter, Walter H., Jr.: *See*—  
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- Canterino, Peter J.: *See*—  
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Wheelock, Charles E., and Canterino. 2,952,576.
- Canterino, Peter J., to Phillips Petroleum Co. Halogenation of rubbery polymers. 2,943,988, 7-5-60, Cl. 204—163.



- Canterino, Peter J., and L. T. Smith, to Phillips Petroleum Co. Method of preparing a water soluble polymer from a water insoluble conjugated diene polymer. 2,927,100, 3-1-60, Cl. 260—83.5.
- Cantieri Riuniti Del Adriatico: See—  
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- Pontoni, Giovanni, and Vassili. 2,923,265.
- Cantinneau, Jean. Construction of blades for aircraft having gyrotary wings. 2,963,094, 12-6-60, Cl. 170—159.
- Cantlay, William G.: See—  
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- Cantlin, John H., and E. E. Anderson, to Fenwal Inc. Thermocouple harness. 2,926,209, 2-23-60, Cl. 136—4.
- Cantonwine, Hazel V. Typewriter keyboard having thumb operated control keys. 2,958,408, 11-1-60, Cl. 197—100.
- Cantor, Jacob J. Valve. 2,946,555, 7-26-60, Cl. 251—342.
- Cantral, John I., to Deere & Co. Disk tillers. 2,960,170, 11-15-60, Cl. 172—407.
- Cantrel, Kenneth E.: See—  
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- Cantrel, Kenneth E., to Phillips Petroleum Co. Insect repellent composition and method for repelling insects. 2,946,717, 7-26-60, Cl. 167—22.
- Cantrell, Claude J., to Esso Research and Engineering Co. Loading system. 2,941,343, 6-21-60, Cl. 53—263.
- Cantrell, Clifford M.: See—  
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- Cantrell, Harry N., and F. A. Ewing, to General Electric Co. Fluid pressure reducing apparatus. 2,923,319, 2-2-60, Cl. 137—599.1.
- Cantrell, Troy L., and J. G. Peters, to Gulf Oil Corp. Non-stalling gasoline fuel compositions. 2,920,944, 1-12-60, Cl. 44—63.
- Cantrell, Troy L., and J. G. Peters, to Gulf Oil Corp. Anticorrosion compositions and mineral oil compositions containing the same. 2,934,500, 4-26-60, Cl. 252—49.9.
- Cantrell, Troy L., J. G. Peters, and H. G. Smith, to Gulf Oil Corp. Lubricants containing mixed metal salts. 2,943,053, 6-28-60, Cl. 252—40.7.
- Cantrell, Troy L., J. G. Peters, and C. R. Summers, Jr., to Gulf Oil Corp. Lubricating oil composition. 2,966,460, 12-27-60, Cl. 252—32.7.
- Canyon Farms, Inc.: See—  
Kasten, John W. 2,930,352.
- Canzano, Emilio F. Electrically operated snow-melting machine. 2,922,015, 1-19-60, Cl. 219—19.
- Capalozza, Leonello, to Tele F'Lux Soc. a.r.l. Device for detecting and repeating selectively sound signals emitted by overtaking vehicles. 2,963,693, 12-6-60, Cl. 340—261.
- Capanna, Adolfo A., to Pitney-Bowes, Inc. Electrical signal storage device. 2,952,839, 9-13-60, Cl. 340—173.
- Caparosa, Ralph J., to Redi-Knot, Inc. Necktie holders. 2,941,212, 6-21-60, Cl. 2—154.
- Cape, Arthur T., to Coast Metals, Inc. Brazing alloys. 2,944,891, 7-12-60, Cl. 75—170.
- Capehart, Charles W.: See—  
Spracklen, Stanford B., Martin, Rogers, Capehart, Fertig, and Fellows. 2,933,600.
- Capellaro, Natale, to Ing. C. Olivetti & C., S.p.A. Printing mechanism for business machines. 2,929,314, 3-22-60, Cl. 101—109.
- Capellaro, Natale, to Ing. C. Olivetti & C., S.p.A. Register reversing and engaging mechanism. 2,954,921, 10-4-60, Cl. 235—60.2.
- Capellaro, Natale, and T. Gassino, to Ing. C. Olivetti & C., S.p.A. Short-cut multiplication mechanisms for calculating machines. 2,952,406, 9-13-60, Cl. 235—63.
- Capetti, Federico: See—  
Papa, Paolo, and Capetti. 2,931,647.  
Papa, Paolo, and Capetti. 2,938,457.
- Capewell Mfg. Co.: See—  
Craven, Wilbur J., and Mueck. 2,954,710.
- Capital Engineering & Mfg. Corp.: See—  
Grunwald, Arnold P. 2,935,326.  
Grunwald, Arnold P. 2,947,542.
- Capitol Products Corp.: See—  
Cady, Arthur B. 2,956,523.  
Graham, Donald C. 2,952,048.  
Martin, Eugene. 2,931,232.  
Minick, Dean K. 2,953,824.  
Royer, Wayne H. 2,931,322.  
Royer, Wayne H. 2,965,049.
- Caplan, Lawrence. Current tap. 2,922,980, 1-26-60, Cl. 339—157.
- Caporicci, Antonio G. Supporting bracket for paint receptacles. 2,963,252, 12-6-60, Cl. 243—229.
- Capp, Clifford W., H. P. Crocker, and F. E. Salt, to The Distillers Co. Ltd. Production of dichlorbutene. 2,948,760, 8-9-60, Cl. 260—654.
- Cappelletti, Carlo, G. J. Ekkers, and W. Meier, to "Patelhold" Patentverwertungs- & Elektro-Holding A.-G. Process of filling a discharge chamber with mercury and product. 2,930,921, 3-29-60, Cl. 313—174.
- Capps, Beryl F. Music transposing scale computer. 2,925,750, 2-23-60, Cl. 84—473.
- Capps, Donald D. Scented fishing lures. 2,937,467, 5-24-60, Cl. 43—42.06.
- Capron, Robert W., and C. E. Johnson, to Bendix Aviation Corp. Tracer control system. 2,939,287, 6-7-60, Cl. 60—97.
- Capuano, Carmen J., to Sealion Metal Fabricators. Boat trailer. 2,948,423, 8-9-60, Cl. 214—84.
- Capuano, Frank A.: See—  
Caldwell, Samuel P., and Capuano. 2,925,795.
- Caputo, Alice E.: See—  
Caputo, James V. 2,946,934.
- Caputo, James V., deceased; A. E. Caputo, executrix. Recifier. 2,946,934, 7-26-60, Cl. 317—234.
- Caputo, Paul J., and J. A. Johnson, to ACF Industries, Inc. Container cars. 2,919,661, 1-5-60, Cl. 105—366.
- Carabet, George F., to The Hoover Co. Surface cleaning tool. 2,938,225, 5-31-60, Cl. 15—356.
- Carabet, George F., to The Hoover Co. Suction cleaners. 2,958,894, 11-8-60, Cl. 15—327.
- Caradco Inc.: See—  
Gabriel, Arthur E. 2,959,490.  
Gabriel, Arthur E. 2,964,519.  
Gill, Harvey J., Jr., Sitterly, and Preu. 2,948,027.  
Glab, William T. 2,964,416.
- Caranda Machine Works: See—  
McCoy, Thomas A. 2,943,724.
- Caravias, Nicoletta. Folding chair. 2,966,204, 12-27-60, Cl. 155—139.
- Carbary, Richard J., to General Electric Co. Magnetic latch. 2,950,139, 8-23-60, Cl. 292—251.5.
- Carbo, Edward J., to Westinghouse Electric Corp. Apparatus for heating metal articles of irregular shape. 2,937,017, 5-17-60, Cl. 266—4.
- Carbogen Corp.: See—  
Roberts, Edward S. 2,932,664.
- Carbon, John A., W. B. Martin, and L. E. Swett, to Abbott Laboratories, Inc. Methylene cyclopropanemethanol. 2,921,966, 1-19-60, Cl. 260—617.
- Carbon, John A., W. B. Martin, and L. E. Swett, to Abbott Laboratories. Cyclopropane-formamidomalonate intermediates and process. 2,956,076, 10-11-60, Cl. 260—468.
- Carbon, John A., W. B. Martin, and L. E. Swett, to Abbott Laboratories. Ester of methylenecyclopropanecarboxylic acid. 2,956,077, 10-11-60, Cl. 260—468.
- Carbon, John A., W. B. Martin, and L. E. Swett, to Abbott Laboratories. p-Substituted benzenesulfonyl cyclopropane intermediate. 2,962,514, 11-29-60, Cl. 260—456.
- Carbonara, Victor E., to Hon Industries, Inc. Position finding device. 2,953,060, 9-20-60, Cl. 88—2.4.
- Carbonara, Victor E., to Kollsman Instrument Corp. Automatic course follower and recorder. 2,957,742, 10-25-60, Cl. 346—8.
- Carbonara, Victor E., H. J. Eckweiler, and L. E. Sharpe, to Kollsman Instrument Corp. Photoelectric automatic sextant. 2,941,082, 6-14-60, Cl. 250—203.
- Carbonara, Victor E., H. J. Eckweiler, J. B. O'Maley, and P. D. Hansell, to Kollsman Instrument Corp. Star tracking system. 2,947,872, 8-2-60, Cl. 250—203.
- Carbone, James H., deceased; N. F. Carbone, executrix. Fluid flow meter. 2,942,465, 6-28-60, Cl. 73—211.
- Carbone, Nettie F.: See—  
Carbone, James H. 2,942,465.
- Carbonero, Carlo, to Society "Ateliers de Construction de Motocycles et Automobiles". Mixers for two liquids, such as those for supplying engines with a mixture of fuel and lubricant. 2,938,509, 5-31-60, Cl. 123—139.
- Carbonic Development Corp.: See—  
Hasche, Rudolph L. 2,966,402.
- Carborundum Co., The: See—  
Hummel, Floyd A. Re. 24,795.  
McCord, Andrew T., and Spink. 2,921,836.  
McMullen, John C. 2,924,533.  
Nicholson, Kenneth C. 2,957,754.  
Padula, Pasquale C. 2,938,806.  
Van Der Beck, Roland R., Jr. 2,941,962.
- Carbotti, Sergio, to Soc. Sali Potassici Trinacria. Process for recovering potassium from solutions thereof. 2,966,395, 12-27-60, Cl. 23—121.
- Carbrey, Robert L., and C. B. H. Feldman, to Bell Telephone Laboratories, Inc. Elastic multiplex speech interpolation system. 2,961,492, 11-22-60, Cl. 179—15.
- Carcasson, George V.: See—  
Archer, John, and Carcasson. 2,965,801.
- Card, Caleb E. Timber handling apparatus for resawing mills. 2,949,138, 8-16-60, Cl. 143—4.
- Card, Joseph L., to Cobble Brothers Machinery Co. Apparatus for making patterned tufted pile fabric. 2,935,037, 5-3-60, Cl. 112—79.
- Card, Joseph L. Floating loop cutter. 2,960,748, 11-22-60, Cl. 26—12.
- Card, Paul Q., and N. K. Stanton, to The Northern Trust Co. Flavor premix for animal feeds. 2,921,853, 1-19-60, Cl. 99—2.
- Cardaras, James, to International Harvester Co. Mold part composition and process of making same. 2,950,205, 8-23-60, Cl. 106—38.3.
- Carden, John R.: See—  
Carter, Cecil V., Carden, and Howe. 2,961,156.
- Cardi, Americo S.: See—  
Cascone, Francis X. 2,933,321.
- Cardiff, Edward H.: See—  
Turner, Peter J. A., and Cardiff. 2,922,227.



- Cardinal Control Co., Inc.: *See*—  
Lewis, James B., Jr. 2,935,652.
- Cardinal, Earl V., and W. A. Dow, Jr., to International Minerals & Chemical Corp. Glutamic acid recovery. 2,929,681, 3-22-60, Cl. 23-147.
- Cardiotron Electro Medical Laboratories, Inc.: *See*—  
Buoymaster, Ned W., and Haagenesen. 2,955,895.
- Cardon, Bartley P., to Erly-Fat Livestock Feed Co. Chelated metals in feedstuffs for ruminants. 2,960,406, 11-15-60, Cl. 99-2.
- Cardona, Carlos J., and N. H. Milde, to McCulloch Motors Corp. Projectile ignition device. 2,919,627, 1-5-60, Cl. 89-1.
- Cardwell Westinghouse Co.: *See*—  
Campbell, David S. 2,934,216.  
Campbell, David S. 2,956,692.  
Peterson, Bertil E. 2,956,336.
- Cardwell, William D. Valve operating assembly. 2,951,394, 9-6-60, Cl. 74-504.
- Caresana, Giuseppe, to P. Guardigli. Electrically controlled force amplifier. 2,937,326, 5-17-60, Cl. 318-31.
- Caresio, Dominic J., to Fibreboard Paper Products Corp. Carton flap defecting and separating means. 2,947,229, 8-2-60, Cl. 93-53.
- Carew, Herman, to American Can Co. Convertible cup dispensing mechanism. 2,946,481, 7-28-60, Cl. 221-222.
- Carey, Edwin A. Tape dispenser. 2,929,540, 3-22-60, Cl. 225-47.
- Carey, Johanna M.: *See*—  
Eisele, Orion, and Carey. 2,939,497.
- Carey, Patrick H., Jr., E. P. Davis, and P. V. Palmquist, to Minnesota Mining and Mfg. Co. Reflex-reflecting textile yarns and fabrics. 2,937,668, 5-24-60, Cl. 139-426.
- Carey, Stuart, to Giannini Controls Corp. Force responsive mechanism. 2,940,316, 6-14-60, Cl. 74-1.
- Carey, Walter F., and A. J. Nagy, to Trailtrack Transit, Inc., and Equipment Mfg. Inc. Shipping support with hold down means. 2,962,250, 11-29-60, Cl. 248-119.
- Cargill Detroit Corp.: *See*—  
Cargill, Donald A., Ducker, and Koch. 2,958,616.
- Cargill, Don A., W. H. Ducker, and G. R. Koch, to Cargill Detroit Corp. Handling method and system for fragile parts. 2,958,616, 11-1-60, Cl. 134-25.
- Caribbean Products Corp.: *See*—  
Emmick, Frank C., and Saco. 2,935,751.
- Caribonum Ltd.: *See*—  
Francis, Frederick G., and Moulton. 2,934,007.  
Francis, Frederick G., and Moulton. 2,961,932.  
Francis, Frederick G., and Seaward. 2,936,247.
- Carignan, Lucien W., to Superior Machinery Corp. Yarn package. 2,921,676, 1-19-60, Cl. 206-64.
- Carignan, Thomas N.: *See*—  
Connors, John, and Carignan. 2,958,950.
- Carini, Reno: *See*—  
Insolio, Thomas A., Carini, and Magrini. 2,946,460.
- Caris, Darl F., to General Motors Corp. Engine. 2,963,015, 12-6-60, Cl. 123-193.
- Carkhuff, Edwin D., and P. A. Tuerck, to The Wm. S. Merrell Co. Tri-p-anisyl-chloroethylene composition. 2,944,938, 7-12-60, Cl. 167-55.
- Carkhuff, Le Roy F., to Diamond National Corp. Printing attachment for egg carton hand set-up machine. 2,947,228, 8-2-60, Cl. 93-37.
- Carkhuff, Le Roy F., to Diamond National Corp. Expanding egg lifter. 2,948,564, 8-9-60, Cl. 294-87.
- Carkhuff, LeRoy F., to Diamond National Corp. Egg transfer lifter. 2,954,996, 10-4-60, Cl. 294-87.
- Carl, Louis H., W. B. Herndon, Jr., and G. F. McConnell, to Whirlpool Corp. Heater clamping assemblies. 2,930,207, 3-29-60, Cl. 62-276.
- Carl, Paul R., and I. V. De Chellis, to Socony Mobil Oil Co., Inc. Method of increasing the on-stream time of heat transfer units. 2,940,922, 6-14-60, Cl. 208-85.
- Carlberg, Erik R., to Aktiebolaget Electrolux. Detachable coupling for a vacuum cleaner hose. 2,951,714, 9-6-60, Cl. 285-7.
- Carlberg, Erik R., and C. O. Ernlöf, to Aktiebolaget Electrolux. Suction cleaner. 2,958,893, 11-8-60, Cl. 15-327.
- Carles, Alonza C. Drill guide. 2,953,045, 9-20-60, Cl. 77-7.
- Carleton, Bukk G.: *See*—  
Skarsten, Olav A., and Carleton. 2,954,083.
- Carleton, James T., C. L. Wagner, and T. J. Woth, to Westinghouse Electric Corp. Regulator system for generators. 2,949,574, 8-16-60, Cl. 322-25.
- Carli, Alvin J.: *See*—  
Deming, Andrew F., and Carli. 2,951,385.
- Carlin, Benson, to Alcar Instruments, Inc. Nuisance control technique and apparatus therefor. 2,922,999, 1-26-60, Cl. 340-384.
- Carlin, Benson, to Alcar Instruments, Inc. Ultrasonic flaw detector. 2,932,189, 4-12-60, Cl. 73-67.7.
- Carlin, Benson, to Alcar Instruments, Inc. Ultrasonic soldering equipment. 2,951,975, 9-6-60, Cl. 318-118.
- Carlin, William W., to Columbia-Southern Chemical Corp. Method of treating drying oil impregnated graphite electrode. 2,920,004, 1-5-60, Cl. 117-228.
- Carlini, Louis M. Cornet supporting stand. 2,920,851, 1-12-60, Cl. 248-171.
- Carlisle, "A" "D" and E. A. Bread board or shelf bracket. 2,936,987, 5-17-60, Cl. 248-205.
- Carlisle Chemical Works, Inc.: *See*—  
Longman, Stanley H. 2,921,917.  
Mack, Gerry P., and Parker. 2,938,013.  
Mack, Gerry P., and Parker. 2,938,877.
- Carlisle Corp.: *See*—  
Parr, Russell D., and Otstot. 2,931,420.
- Carlisle, Denis R.: *See*—  
Johnson, Francis M., and Carlisle. 2,920,449.
- Carlisle, Denis R., and E. Milner, to Rolls-Royce Ltd. Fuel burner. 2,959,903, 11-8-60, Cl. 60-39.74.
- Carlisle, Elizabeth A.: *See*—  
Carlisle, "A" "D" and E. A. 2,936,987.
- Carlisle, Gower N. Reverse movement alarm for use on vehicles. 2,957,443, 10-25-60, Cl. 116-56.
- Carlisle, Kenneth R.: *See*—  
Hatherell, George A., and Carlisle. 2,921,736.
- Carlisle, Stanley L., to Bryant Chucking Grinder Co. Internal grinding machine. 2,927,407, 3-8-60, Cl. 51-103.
- Carlisle, Willis C.: *See*—  
McCarvell, John H., and Carlisle. 2,948,232.
- Carlisle, Willis C., and J. H. McCarvell. Anti-scoring check valve. 2,931,385, 4-5-60, Cl. 137-516.29.
- Carls, William. Control valve for fluid circuits. 2,945,481, 7-19-60, Cl. 121-164.
- Carlson, Leonard O.: *See*—  
Barker, Paul F., Carlson, Critchley, and Haase. 2,930,163.
- Carlson, Leonard O. Machine for generating gears. 2,932,923, 4-19-60, Cl. 51-33.
- Carlson, Leonard O., to The Gleason Works. Tool mechanism for gear cutting machine. 2,953,068, 9-20-60, Cl. 90-6.
- Carlson, Leonard O., to The Gleason Works. Machine for testing or lapping gears or the like. 2,961,873, 11-29-60, Cl. 73-162.
- Carlson, Leonard O., and H. A. Male, to The Gleason Works. Spindle clamp. 2,947,061, 8-2-60, Cl. 29-1.
- Carlson, Leonard O., A. H. Krastel, and H. A. Male, to The Gleason Works. Gear machine or the like. 2,947,223, 8-2-60, Cl. 90-5.
- Carlsmith, Lawrence A., and O. Luthi, to Improved Machinery, Inc. Discharge apparatus. 2,939,745, 6-7-60, Cl. 302-14.
- Carlson, Arthur H., and C. W. Wulff, to Holland Co. Means for stabilizing railway trucks. 2,934,333, 4-26-60, Cl. 267-9.
- Carlson, Arthur M., and C. E. Prymula, to Alpha Metal Laboratories, Inc. Nickel coating composition and method of coating. 2,956,900, 10-18-60, Cl. 117-47.
- Carlson, Arthur M., and C. E. Prymula, to Alpha Metal Laboratories, Inc. Copper coating composition and method of coating. 2,956,901, 10-18-60, Cl. 117-50.
- Carlson, Barber C.: *See*—  
Lyons, James D., and Carlson. 2,927,909.
- Carlson, Bernard E., and C. W. Pohlmann, to E. & J. Mfg. Co. Absorber for anesthetic gas machine. 2,952,526, 9-13-60, Cl. 23-284.
- Carlson, Bertil V., G. J. Depold, and W. N. Stark, to Librascope, Inc. Anti-arcing safety switch. 2,921,995, 1-19-60, Cl. 200-10.
- Carlson, Carl R., to Calumet Flexicore Corp. Pre-cast concrete beam. 2,962,839, 12-6-60, Cl. 50-82.
- Carlson, Charles L., and S. A. Rosecrans, to Westinghouse Electric Corp. Aluminum clad copper wire and process for making the same. 2,947,069, 8-2-60, Cl. 29-197.
- Carlson, Charles W.: *See*—  
Larson, Robert H., Carlson, and Koenig. 2,925,009.  
Larson, Robert H., Carlson, and Koenig. 2,960,005.  
Loevenstein, Hirsch, Carlson, and Gunderson. 2,964,179.
- Carlson, Chester F., to Haloid Xerox Inc. Xerographic powder fixing apparatus. 2,922,230, 1-26-60, Cl. 34-151.
- Carlson, Chester F., to Haloid Xerox Inc. Electrostatic image development. 2,928,575, 3-15-60, Cl. 222-193.
- Carlson, Chester F., to Haloid Xerox Inc. Electrostatic developer composition and method therefor. 2,940,934, 6-14-60, Cl. 252-62.1.
- Carlson, Chester F., and H. Bogdonoff, to Haloid Xerox Inc. Method of forming a raised image. 2,955,052, 10-4-60, Cl. 117-17.5.
- Carlson, Clarence G.: *See*—  
Benson, Carl E., and Carlson. 2,943,592.
- Carlson, Clifford R., to The Bastian-Blessing Co. Griddle stand. 2,955,715, 10-11-60, Cl. 211-147.
- Carlson, David G., to Hoffman Electronics Corp. Regulated D.C. power supplies or the like. 2,957,119, 10-18-60, Cl. 321-18.
- Carlson, David J., to Radio Corp. of America. Frequency converter with oscillator tuning inductor. 2,950,383, 8-23-60, Cl. 250-20.
- Carlson, David J., and G. J. Geyer. Self-loading truck. 2,929,524, 3-22-60, Cl. 214-674.
- Carlson, Donald W., to Union Carbide Corp. Film fastener. 2,939,195, 6-7-60, Cl. 24-245.
- Carlson, Drexel T.: *See*—  
Wrob, Ronald M., Carlson, and Stephens. 2,943,560.
- Carlson, Duane E. Sock rack. 2,922,528, 1-26-60, Cl. 211-89.
- Carlson, Elmer T., to Electric Distribution Products, Inc. Bus duct. 2,955,147, 10-4-60, Cl. 174-68.
- Carlson, Elmer T., and W. A. Kuhar, to Electric Distribution Products, Inc. Busway. 2,963,537, 12-6-60, Cl. 174-99.
- Carlson, Elwood L.: *See*—  
Mod, William A., Becker, and Carlson. 2,926,995.



- Carlson, Ernest C., to International Harvester Co. Corn sheller. 2,931,362, 4-5-60, Cl. 120-6.
- Carlson, Ernest C., E. A. Henningsen, and W. F. Schmied, to International Harvester Co. Manure spreader with hammer knife shredder and distributor. 2,952,466, 9-13-60, Cl. 275-6.
- Carlson, Ernest R.: See—  
Hubbell, Harvey, and Carlson. 2,933,578.
- Carlson, Floyd E.: See—  
Hann, Melvin M., Moon, and Carlson. 2,942,421.
- Carlson, Floyd E., M. M. Hann, and H. C. Moon, Jr., to Sundstrand Corp. Hydraulic transmission. 2,941,365, 6-21-60, Cl. 60-52.
- Carlson, Frank A., Jr.: See—  
Aykanian, Ardasha A., and Carlson. 2,945,261.
- Carlson, Frank A., Jr., to Monsanto Chemical Co. Heat sealing method. 2,952,578, 9-13-60, Cl. 154-126.
- Carlson, Frank A., Jr., to Monsanto Chemical Co. Process for preparing foamed styrene polymers containing an inorganic pigment. 2,962,456, 11-29-60, Cl. 260-2.5.
- Carlson, Frank E., to General Electric Co. Lighting unit. 2,924,748, 2-9-60, Cl. 315-122.
- Carlson, George E.: See—  
Tisch, Richard E., and Carlson. 2,954,264.
- Carlson, Glen A., Belt pulley and bearing assembly. 2,955,392, 10-11-60, Cl. 51-168.
- Carlson, Gordon A.: See—  
Heiskell, Theodore W., Carlson, and Brown. 2,954,333.
- Carlson, Gus: See—  
Lehr, Philip N., and Carlson. 2,964,725.
- Carlson, Gustav, to Consolidated Cigar Corp. Method and apparatus for the production of cigars. 2,926,670, 3-1-60, Cl. 131-39.
- Carlson, Gustav E., to Consolidated Cigar Corp. Method for the production of cigars. 2,926,671, 3-1-60, Cl. 131-42.
- Carlson, Gustav H., and R. P. Scherer, to R. P. Scherer Corp. Process of improving adhesivity of gelatin used in preparing capsules by continuously agitating the gelatin until casting. 2,928,128, 3-15-60, Cl. 13-47.5.
- Carlson, Harold A., to ACF Industries, Inc. Engine anti-stall device. 2,925,256, 2-16-60, Cl. 261-41.
- Carlson, Harold A., to ACF Industries, Inc. Automatic choke control. 2,942,596, 6-28-60, Cl. 123-119.
- Carlson, Harold A., to ACF Industries, Inc. Heat control for automatic choke. 2,965,082, 12-20-60, Cl. 123-119.
- Carlson, Harold A., and R. J. Smith, to ACF Industries, Inc. Automatic choke control. 2,937,635, 5-24-60, Cl. 123-119.
- Carlson, Harold S., Portable irrigation siphon. 2,927,596, 3-8-60, Cl. 137-146.
- Carlson, Herbert G., and H. B. Gustafson, to Inflico Inc. Method of controlling regeneration of ion exchangers and apparatus. 2,938,868, 5-31-60, Cl. 210-25.
- Carlson, John A., Building construction. 2,940,294, 6-14-60, Cl. 72-1.
- Carlson, John H.: See—  
Musser, C. Walton, and Carlson. 2,930,254.
- Carlson, Lorian A., to Wood Conversion Co. Drill sharpener and method. 2,952,101, 9-13-60, Cl. 51-105.
- Carlson, Lorian A., to Wood Conversion Co. Drill and drill head. 2,963,058, 12-6-60, Cl. 144-110.
- Carlson, Martin, to G. W. Houlisby, Jr. Break-away door control mechanism. 2,923,962, 2-9-60, Cl. 16-55.
- Carlson, Martin, Reversible hydraulic door operator system. 2,927,429, 3-8-60, Cl. 60-52.
- Carlson, Martin, to G. W. Houlisby, Jr. Door control device. 2,933,755, 4-26-60, Cl. 16-55.
- Carlson, Marvin T.: See—  
Elliott, Harold V., and Carlson. 2,948,792.
- Carlson, Milton R.: See—  
Schaeve, Donald K., and Carlson. 2,957,111.
- Carlson, Norman G., to Minnesota Mining and Mfg. Co. Pyrrolidone purification. 2,939,869, 6-7-60, Cl. 260-326.5.
- Carlson, O. D.: See—  
Schneider, William S. 2,942,760.
- Carlson, Oscar N., F. A. Schmidt, and F. H. Spedding, to United States of America, Atomic Energy Commission. Reduction of fluoride to metal. 2,950,962, 8-30-60, Cl. 75-84.4.
- Carlson, Reuben C., to Admiral Corp. Tunable condenser. 2,926,291, 2-23-60, Cl. 317-249.
- Carlson, Richard H., to United States Steel Corp. Insulated oil well cable. 2,929,863, 3-22-60, Cl. 174-108.
- Carlson, Robert E.: See—  
Hoffman, John R., and Carlson. 2,962,706.
- Carlson, Walter A., and E. M. Ziegenfuss, to General Mills, Inc. Process for preparing gluten and wheat starch. 2,961,353, 11-22-60, Cl. 127-67.
- Carlson, Wilbert T., Kits for producing boat hull and other hollow objects. 2,941,216, 6-21-60, Cl. 9-6.5.
- Carlson, William L., Jr., to Minneapolis-Honeywell Regulator Co. Remote control apparatus. 2,923,835, 2-2-60, Cl. 315-100.
- Carlson, William L., Jr., to Minneapolis-Honeywell Regulator Co. Conductive fluid relay. 2,944,127, 7-5-60, Cl. 200-112.
- Carlson, William L., Jr., to Minneapolis-Honeywell Regulator Co. Diaphragm support. 2,953,166, 9-20-60, Cl. 137-788.
- Carlson, William L., Jr., and F. M. Exner, to Minneapolis-Honeywell Regulator Co. Electromagnetic pump actuated device. 2,948,118, 8-9-60, Cl. 60-52.
- Carlson, Wyman I., to Chisholm-Ryder Co., Inc. Juice extractor. 2,930,314, 3-29-60, Cl. 100-147.
- Carlsson, Peter M., and K. F. Petersen. Method and apparatus for the fermentation of waste materials containing organic constituents. 2,954,285, 9-27-60, Cl. 71-9.
- Carlsson, Sven, to Aktiebolaget Recip. 6-nitro-2-dichloroacetyl amino benzothiazole and the use in combating bacterial infections. 2,930,734, 3-29-60, Cl. 167-55.
- Carlsson, Sven, and G. Hellner, to Aktiebolaget Svenska Flaktfabriken. Loading and unloading apparatus for fiberboard or sheets of similar material. 2,940,614, 6-14-60, Cl. 214-1.
- Carlstedt, Ragnar L., to The R. K. Le Blond Machine Tool Co. Seal arrangement. 2,938,410, 5-31-60, Cl. 77-5.
- Carlstedt, Ragnar L., to The R. K. Le Blond Machine Tool Co. Boring tool. 2,953,951, 9-27-60, Cl. 77-68.
- Carlsten, Kirk F.: See—  
Simons, Sanford L., Floyd, and Carlsten. 2,957,322.
- Carlton, Chester L., to General Motors Corp. Liquid circulating system for liquid cooled internal combustion engine. 2,949,103, 8-16-60, Cl. 123-122.
- Carlton, James T., to Westinghouse Electric Corp. Compensating circuit. 2,961,597, 11-22-60, Cl. 323-78.
- Carlton Machine Tool Co., The: See—  
Weidig, Miles. 2,926,554.
- Carlton, Raymond R., L. A. Scott, and P. E. Mortensen, to Omak Industries, Inc. Method and machine for assembling chain parts. 2,964,902, 12-20-60, Cl. 59-7.
- Carlton, Stuart S.: See—  
Raynes, Bertram C., and Carlton. 2,937,128.
- Carlton, W. E.: See—  
Seago, Alton L. 2,936,031.
- Carlton, William W., and G. A. Sears, to The Marquardt Corp. Supersonic inlet. 2,959,916, 11-15-60, Cl. 60-35.6.
- Carlyle, Robert L., to Continental Oil Co. Method of dispersing calcium carbonate in a nonvolatile carrier. 2,937,991, 5-24-60, Cl. 252-18.
- Carlyle, Robert L., and E. F. Morris, to Continental Oil Co. Lubricating composition. 2,943,052, 6-28-60, Cl. 252-33.
- Carlyle, Robert L., and E. F. Morris, to Continental Oil Co. Metal containing organic compositions and method of preparing the same. 2,956,018, 10-11-60, Cl. 252-18.
- Carlzen, Carl F.: See—  
Lehner, William L., and Carlzen. 2,949,184.
- Carlzen, Carl F., R. W. Heldt, and W. L. Lehner, to Sylvania Electric Products Inc. Electrical component assembly apparatus. 2,921,316, 1-19-60, Cl. 1-210.
- Carlzen, Carl F., K. A. Kramer, and W. L. Lehner, to Sylvania Electric Products Inc. Component assembly machine and process. 2,928,165, 3-15-60, Cl. 29-155.5.
- Carman, George L., Vacuum type loose hair remover. 2,953,808, 9-27-60, Cl. 15-365.
- Carman, Carl M., and D. F. Armento, to United States of America, Army. Low alloy high tensile strength high impact strength steel. 2,959,506, 11-8-60, Cl. 148-36.
- Carman, Edmund R.: See—  
Morgan, Manuel E., Peithman, and Carman. 2,953,789.
- Carman, Eric H., to The Birmingham Small Arms Co. Ltd. Spark-machining. 2,945,936, 7-19-60, Cl. 219-69.
- Carmarella, Richard R., Archer's arm. 2,954,765, 10-4-60, Cl. 124-23.
- Carmellini, Andrew E., and E. B. Hotelling, to American Machine & Foundry Co. Tobacco product. 2,949,117, 8-16-60, Cl. 131-15.
- Carmichael, Bruce, Collapsible sink stopper structure. 2,944,265, 7-12-60, Cl. 4-206.
- Carmichael, Bruce, Apparatus for applying joint cement to seam tape and feeding the latter in flat or folded condition. 2,957,449, 10-25-60, Cl. 118-32.
- Carmichael, Gil M., Jr. Auxiliary handle for outboard motors. 2,926,544, 3-1-60, Cl. 74-484.
- Carmichael, Harry W.: See—  
Wintermute, Glenn E., and Carmichael. 2,955,972.
- Carmody Corp.: See—  
Salisbury, Frank M. 2,924,890.
- Salisbury, Frank M., and Carmody. 2,924,025.
- Carmody, Don R., to Standard Oil Co. Process for monitoring a solid adsorption process by radioactive means. 2,954,338, 9-27-60, Cl. 208-91.
- Carmody, Edmund O.: See—  
Salisbury, Frank M., and Carmody. 2,924,025.
- Carmody, Raymond F., to Socony Mobil Oil Co., Inc. Synthetic resin and method of producing the same. 2,952,646, 9-13-60, Cl. 260-20.
- Carnagua, Harold E.: See—  
Simpson, John M., and Carnagua. 2,940,336.
- Carnagua, Harold E., to Borg-Warner Corp. Overdrive transmission. 2,933,944, 4-26-60, Cl. 74-472.
- Carnagua, Harold E., and J. F. Tye, to Tokheim Corp. Hose braking mechanism. 2,944,748, 7-12-60, Cl. 242-47.5.
- Carnation Co.: See—  
Field, Frank C. 2,920,796.
- Parker, Richard B. 2,921,854.
- Carnes, Frank C., to Kimberly-Clark Corp. Cellulosic product. 2,920,759, 1-12-60, Cl. 206-56.
- Carnes, Fred D., to The Heltzel Steel Form & Iron Co. Road joints. 2,949,828, 8-23-60, Cl. 94-22.
- Carnes, Wilbur R., and R. J. Troller, to Coolant Equipment Corp. Universal invalid handling device. 2,962,730, 12-6-60, Cl. 5-86.
- Carnevale, Richard J.: See—  
Smura, Edwin J., and Carnevale. 2,963,625.



- Carney Corp.: *See*—  
Downey, Richard M., and Jamison. 2,949,698.
- Carney, Delmar E.: *See*—  
Davis, Curtis W., and Carney. 2,957,275.
- Carney, Delmar E., to Libbey-Owens-Ford Glass Co. Apparatus for producing sheet glass. 2,948,989, 8-16-60, Cl. 49-3.
- Carney-Stansfield Co.: *See*—  
Stansfield, Hamill, and Edge. 2,958,119.
- Carnwath, Joseph W. and R. Material handling pallet. 2,930,560, 3-29-60, Cl. 248-120.
- Carnwath, Robert, Jr.: *See*—  
Carnwath, Joseph W. and R. 2,930,560.
- Caroli, Gerhard, to Suddedeutsche Kuhlerfabrik Julius Fr. Behr. Device for degassing and purifying hydraulic liquid of a hydraulic power system. 2,959,008, 11-8-60, Cl. 60-52.
- Caroli, Gerhard. Device for degassing pressure fluids of hydraulic power plants. 2,962,863, 12-6-60, Cl. 60-52.
- Carollo, Albert M., Sr.: *See*—  
Brown, Bart D. 2,927,170.
- Caron, Edgar L.: *See*—  
Hoeksema, Herman, Caron, and Hinman. 2,929,821.
- Caron, Michel, G. Chaudron, and L. Moreau, to Commissariat A l'Energie Atomique. Vacuum furnace for vaporising the volatile constituent of an alloy. 2,949,495, 8-16-60, Cl. 13-8.
- Caronelle, Inc.: *See*—  
Otto, Carl L. and L. N. B., and Briton. 2,964,045.
- Caroselli, Frank, to Bell Telephone Laboratories, Inc. Microwave impedance branch. 2,931,992, 4-5-60, Cl. 333-83.
- Caroselli, Remus F.: *See*—  
Marzocchi, Alfred, and Caroselli. 2,938,812.
- Carothers, John N., and R. J. Hurka, Jr. Process of recovering fluorine from phosphate rock. 2,954,275, 9-27-60, Cl. 23-88.
- Carothers, John N., and R. J. Hurka, Jr. Process of forming phosphate solutions. 2,954,287, 9-27-60, Cl. 71-40.
- Carothers, Theodore E., to Gladding, McBean & Co. Tile setter loading apparatus. 2,936,908, 5-17-60, Cl. 214-6.
- Carothers, William D., to The Salem Tool Co. Multiple coal auger. 2,951,693, 9-6-60, Cl. 262-26.
- Carpark Corp.: *See*—  
Welch, John F. 2,950,584.
- Carpenter, Albert J., to Portage Machine Co. Locating device for precision tools. 2,948,817, 8-9-60, Cl. 250-231.
- Carpenter, Allen L. Lure holding assembly for fishermen's wearing apparel. 2,963,815, 12-13-60, Cl. 43-57.5.
- Carpenter, Arthur J., to General Motors Corp. Closure latch. 2,954,252, 9-27-60, Cl. 292-110.
- Carpenter, Arvell A. Central vacuum cleaning unit. 2,942,690, 6-28-60, Cl. 183-37.
- Carpenter, Arvell A., and J. R. Ferguson. Central vacuum cleaning unit. 2,933,152, 4-19-60, Cl. 183-37.
- Carpenter, Douglas H., to JFD Mfg. Co., Inc. High gain broad band antenna. 2,923,007, 1-26-60, Cl. 343-727.
- Carpenter, Doyle, to Tyler Refrigeration Corp. Adjustable shelf and tray support. 2,936,077, 5-10-60, Cl. 211-126.
- Carpenter, Edith A. M.: *See*—  
Emerson, Gordon G., Walton, and Carpenter. 2,965,941.
- Carpenter, Eugene R. Dough dividing machine. 2,920,583, 1-12-60, Cl. 107-8.
- Carpenter, Frank C., Jr., to Hoffman Electronics Corp. Helical-and-whip antennas. 2,948,894, 8-9-60, Cl. 343-725.
- Carpenter, Gayle E., and A. S. Johnson. Outdoor cooking apparatus. 2,938,450, 5-31-60, Cl. 99-427.
- Carpenter, Gene C. Tool setting gauge. 2,955,359, 10-11-60, Cl. 33-185.
- Carpenter, Gordon D., G. Gregory, S. H. Kalfayan, and I. P. Seegman, to Products Research Co. Polysulfide compositions and cure. 2,964,503, 12-13-60, Cl. 260-79.1.
- Carpenter, Herbert L., and H. L. Carpenter, Jr., to The Greif Bros. Cooperage Corp. Closure assembly for fibre containers. 2,966,378, 12-27-60, Cl. 292-256.69.
- Carpenter, Herbert L., Jr.: *See*—  
Carpenter, Herbert L., and H. L. Carpenter, Jr. 2,966,378.
- Carpenter, Jacob F. Distributor attachment for a lawn mower. 2,966,023, 12-27-60, Cl. 56-25.4.
- Carpenter, James C., H. W. McNelley, Sr., B. T. David, and T. Bishoff to American Associated Companies. Mop making machine. 2,964,353, 12-13-60, Cl. 300-16.
- Carpenter, James H. Magnetic ore separator. 2,939,580, 6-7-60, Cl. 209-219.
- Carpenter, James R., to Sides Mfg. Co. Casters. 2,929,092, 3-22-60, Cl. 16-21.
- Carpenter, Jesse J. Oil filter device. 2,951,587, 9-6-60, Cl. 210-441.
- Carpenter, John R.: *See*—  
Banik, Oscar W., Carpenter, and Hampel. 2,961,584.
- Carpenter, Joseph E., and E. R. Kolodny, to American Cyanamid Co. Dialkylpolyaminopolyalkylene amides as asphalt antistripping agents. 2,937,106, 5-17-60, Cl. 106-273.
- Carpenter, Keith H., to United Shoe Machinery Corp. Fastener inserting devices. 2,931,537, 4-5-60, Cl. 221-251.
- Carpenter, Keith H., and F. W. Reinhold, to United Shoe Machinery Corp. Fastener inserting devices. 2,943,328, 7-5-60, Cl. 1-44.4.
- Carpenter, Keith R., R. F. Lane, and R. C. Newhouse, to Bell Telephone Laboratories, Inc. Deflection circuit for cathode ray tubes. 2,954,502, 9-27-60, Cl. 315-26.
- Carpenter, L. E., & Co.: *See*—  
Sylvester, Arthur D., and Scheiding. 2,958,148.
- Carpenter, Lane B., S. Hormats, and H. Tannenbaum, to United States of America, Army. Long path infrared detection of atmospheric contaminants. 2,930,893, 3-29-60, Cl. 250-43.5.
- Carpenter Mfg. Co.: *See*—  
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- Carpenter, Merton J.: *See*—  
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- Carpenter Paper Co.: *See*—  
Milne, Bruce L. 2,927,803.
- Carpenter, Paul G., to Phillips Petroleum Co. Underground storage of high pressure petroleum gases. 2,930,197, 3-29-60, Cl. 61-5.
- Carpenter, Robert H., to Flexonics Corp. Hose clamp. 2,944,841, 7-12-60, Cl. 285-243.
- Carpenter, Rupert E. H. Electric tachometers for operation from the ignition systems of internal combustion engines. 2,929,022, 3-15-60, Cl. 324-70.
- Carpenter Steel Co., The: *See*—  
Culp, Neil J. 2,923,619.
- Culp, Neil J. 2,950,968.
- Kegerise, Wesley R., and Heydt. 2,932,568.
- Carpenter, Thomas J., to General Electric Co. Wind shielded external air gap. 2,930,924, 3-29-60, Cl. 313-231.
- Carpenter, Thomas J., and G. Milne, to General Electric Co. Preionizer. 2,922,914, 1-26-60, Cl. 313-308.
- Carpenter, William P.: *See*—  
Polzella, Louis C., Snowdon, and Carpenter. 2,947,959.
- Carpentier, Melbourne L., deceased (by P. Luoma and G. Kane, coadministrators), and W. E. Drinkard, to Chrysler Corp. Overhead valve engine. 2,957,461, 10-25-60, Cl. 123-55.
- Carpentier, Raymond, and P. Lambert, to Union Chimique Belge, S.A. Preparation of pentaerythritol. 2,950,327, 8-23-60, Cl. 260-635.
- Carper, Harold R., 35% to C. F. Spickelmier, 32% to E. S. Greer, and 33% to B. S. Spickelmier. Reinforced concrete slab construction. 2,949,705, 8-23-60, Cl. 50-536.
- Carper, William P. Stock crowder. 2,964,003, 12-13-60, Cl. 113-49.
- Carper, William P. Stock crowder. 2,964,004, 12-13-60, Cl. 113-49.
- Carpet Craftsmen, Inc.: *See*—  
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- Carpinella, Michael J., to Scovill Mfg. Co. Prong ring fastener member. 2,939,194, 6-7-60, Cl. 24-216.
- Carpino, Simon F.: *See*—  
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- Carr, Clara P.: *See*—  
Carr, Jewell R. 2,961,257.
- Carr, Clide L., Jr., and G. C. Zwick, to United States Rubber Co. Method of making vinyl chloride-dialkyl maleate copolymer latex. 2,958,668, 11-1-60, Cl. 260-29.6.
- Carr, Donald E., to Phillips Petroleum Co. Fuel containing anti-icing additive. 2,919,684, 1-5-60, Cl. 123-1.
- Carr, Donald E., to Phillips Petroleum Co. Removal of carbon deposits from jet engines. 2,940,253, 6-14-60, Cl. 60-39.02.
- Carr, Donald E., to Phillips Petroleum Co. Process for initiating in situ combustion. 2,953,205, 9-20-60, Cl. 166-11.
- Carr, Edward F., to International Telephone and Telegraph Corp. Monostable multivibrator. 2,952,784, 9-13-60, Cl. 307-88.5.
- Carr, Edward F., to International Telephone and Telegraph Corp. Modulation synchronizing pulse generator. 2,952,811, 9-13-60, Cl. 328-149.
- Carr, Hugh B.: *See*—  
Kinney, Selwyne P., Garrigan, Clarke, and Carr. 2,934,310.
- Carr, Jesse C., Jr. Toy fish. 2,933,315, 4-19-60, Cl. 273-1.
- Carr, Jewell R., deceased, C. P. Carr, administratrix, to C. P. Carr. Portable writing appliance. 2,961,257, 11-22-60, Cl. 281-44.
- Carr, John C.: *See*—  
Ledwith, Walter A., and Carr. 2,965,286.
- Carr, John W. Film processing tank unit. 2,919,637, 1-5-60, Cl. 95-89.
- Carr, Norman L.: *See*—  
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- Carr, Norman L., to The Pure Oil Co. Hydrocarbon isomerization process and catalyst treatment. 2,943,127, 6-23-60, Cl. 260-683.65.
- Carr, Norman L., to The Pure Oil Co. Process for upgrading isomerizable hydrocarbon compounds. 2,951,803, 9-6-60, Cl. 208-66.
- Carr, Norman L., to The Pure Oil Co. Process for desulfurizing and isomerizing light normal paraffins. 2,951,888, 9-6-60, Cl. 260-683.65.
- Carr, Norman L., and O. L. Beber, to The Pure Oil Co. Process for upgrading desulfurized naphthas. 2,965,561, 12-20-60, Cl. 208-65.
- Carr, Richard A.: *See*—  
Morrison, Thompson, and Carr. 2,952,402.
- Carr, Victor H., C. E. Frogge, and D. J. Klee, to General Electric Co. Electrode guide. 2,942,049, 6-21-60, Cl. 13-17.
- Carr, Victor H., D. J. Klee, and L. Krivanek, to General Electric Co. Electrode drive control circuit. 2,942,138, 6-21-60, Cl. 314-69.
- Carr, William F., to Motorola, Inc. Remote shaft positioner. 2,945,169, 7-12-60, Cl. 318-467.



- Carrara, Piero M. Preparation of certain hydroxamic acids. 2,929,836, 3-22-60, Cl. 260-500.
- Carraway, Thomas W. Lubricant separator for fluid compressing and condensing apparatus. 2,921,448, 1-19-60, Cl. 62-192.
- Carraway, Thomas W. Air conditioning system. 2,922,290, 1-26-60, Cl. 62-133.
- Carraway, Thomas W. Starting mechanism for internal combustion engine. 2,931,348, 4-5-60, Cl. 123-179.
- Carrell, Donald D.: See—
- Ray, Edward, Carrell, and Gido. 2,954,155.
- Carrico, Ralph T., to Indus Corp. Method of making solid tire wheels. 2,921,344, 1-19-60, Cl. 18-47.5.
- Carrie, William D., to Crane Co. Valve testing apparatus. 2,934,942, 5-3-60, Cl. 73-46.
- Carrie, William D., to Crane Co. Valve pressure testing apparatus. 2,934,943, 5-3-60, Cl. 73-46.
- Carrie, William D., to Crane Co. Pressure test gasket. 2,953,015, 9-20-60, Cl. 73-49.8.
- Carriel, Robert L.: See—
- Feagan, Robert L., and Carriel. 2,954,894.
- Feagan, Robert L., and Carriel. 2,959,320.
- Carrier, Byrl A.: See—
- Judge, William P., and Carrier. 2,965,919.
- Carrier Conveyor Corp.: See—
- Carrier, Robert M., Jr. 2,922,514.
- Carrier, Robert M., Jr. 2,927,683.
- Carrier Corp.: See—
- Arzberger, William A. 2,959,939.
- Ashley, Carlyle M. 2,947,304.
- Ashley, Carlyle M. 2,948,619.
- Ashley, Carlyle M. 2,948,620.
- Ashley, Carlyle M., and Roberts. 2,962,953.
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- Ayling, Robert W. 2,963,113.
- Bosworth, Cyrus M., Jr. 2,952,993.
- Burke, Edward J. 2,934,323.
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- Di Niro, Carmen A. 2,950,092.
- Embury, Joseph E., Sr. 2,948,124.
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- Hayes, Richmond S., Jr., and Lohnas. 2,962,116.
- Hopkinson, Harold H., Irwin, and Kessler. 2,959,031.
- Hungate, Ernest C. 2,932,360.
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- Hwang, Cheng-Chieh. 2,959,018.
- Keville, Jesse F., Jr. 2,954,822.
- Leonard, Louis H., Jr. 2,940,273.
- Leonard, Louis H., Jr. 2,959,931.
- Leonard, Louis H., Jr. 2,959,935.
- MacLeod, David E. 2,945,357.
- MacLeod, David E. 2,945,359.
- MacLeod, David E. 2,952,988.
- MacLeod, David E. 2,952,996.
- MacLeod, David E., and Tyler. 2,945,358.
- Masin, William, and Pearson. 2,937,588.
- McGrath, William L. 2,940,274.
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- McGrath, William L. 2,961,844.
- McGrath, William L. 2,962,952.
- Mehalick, John R. 2,959,030.
- Mehalick, John R. 2,959,036.
- Mehalick, John R., and Izzo. 2,948,515.
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- Palmatier, Everett P. 2,963,886.
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- Zulinke, Adolph. 2,921,446.
- Carrier, Harvey W.: See—
- Beggs, John C., Carrier, and Farkas. 2,948,475.
- Carrier, Joe B. Sawing apparatus. 2,965,094, 12-20-60, Cl. 125-14.
- Carrier, Robert M., Jr., to Carrier Conveyor Corp. Balanced spiral conveyors. 2,922,514, 1-26-60, Cl. 198-220.
- Carrier, Robert M., Jr., to Carrier Conveyor Corp. Drive for a helical vibratory conveyor. 2,927,683, 3-8-60, Cl. 198-220.
- Carrier, Robert M., Jr., to Chain Belt Co. Helical conveyor. 2,946,429, 7-26-60, Cl. 198-220.
- Carrier, Robert M., Jr., to Chain Belt Co. Drive means for vibratory apparatus. 2,947,410, 8-2-60, Cl. 198-220.
- Carrier, Robert M., Jr., and J. M. Morris, to Chain Belt Co. Resonant vibration exciter. 2,947,181, 8-2-60, Cl. 74-26.
- Carrier, Robert M., Jr., and J. M. Morris, to Chain Belt Co. Vibration imparting mechanism. 2,947,183, 8-2-60, Cl. 74-61.
- Carrier, Robert M., Jr., and J. M. Morris, to Chain Belt Co. Resonant vibration exciter. 2,958,228, 11-1-60, Cl. 74-26.
- Carrigan, Richard M.: See—
- Mapes, Carl H., and Carrigan. 2,939,225.
- Carrigan, Tracy, to Food Machinery and Chemical Corp. Clamp for mounting wheel balancers. 2,927,760, 3-8-60, Cl. 248-226.
- Carrigan, Tracy, to Food Machinery and Chemical Corp. Runway for automotive vehicles. 2,962,980, 12-6-60, Cl. 104-33.
- Carrington, Alexander G. Concealed key and utility case. 2,955,704, 10-11-60, Cl. 206-38.
- Carrington, Arthur F., to Republic Aviation Corp. Electrical test apparatus. 2,932,791, 4-12-60, Cl. 324-73.
- Carriveau, Wilfred A. Hand tool for removing V-belts. 2,924,109, 2-9-60, Cl. 74-242.7.
- Carroll, Burt H., to Eastman Kodak Co. Multicontrast photographic emulsions. 2,944,901, 7-12-60, Cl. 96-102.
- Carroll, Burt H., to Eastman Kodak Co. Multicontrast photographic emulsions containing cyanine dyes. 2,947,631, 8-2-60, Cl. 96-106.
- Carroll, Burt H., H. S. Elins, J. L. Graham, and C. V. Wilson, to Eastman Kodak Co. Sensitization of photographic emulsions with ionic polyalkylene oxide salts. 2,944,900, 7-12-60, Cl. 96-100.
- Carroll, Burt H., J. Sagal, Jr., and D. J. Beavers, to Eastman Kodak Co. Sensitization of photographic emulsions with ionic polyalkylene oxide salts. 2,944,902, 7-12-60, Cl. 96-107.
- Carroll, Burt H., J. E. Jones, and J. Spence, to Eastman Kodak Co. Supersensitization of photographic emulsions using triazines. 2,945,762, 7-19-60, Cl. 96-100.
- Carroll, Burt H., J. E. Jones, and J. Spence, to Eastman Kodak Co. Supersensitization of photographic emulsions using triazines. 2,950,196, 8-23-60, Cl. 96-100.
- Carroll, Charles, to Duff-Norton Co. Safety brake. 2,949,979, 8-23-60, Cl. 188-77.
- Carroll, Charles, to Duff-Norton Co. Switching mechanism. 2,955,175, 10-4-60, Cl. 200-104.
- Carroll, Charles O. and H. N. Cleaning pad and holder therefor. 2,954,649, 10-4-60, Cl. 51-187.
- Carroll, Damon. Garment. 2,932,034, 4-12-60, Cl. 2-88.
- Carroll Dunham Smith Pharmaceutical Co.: See—
- Neesby, Torben E. Re. 2,746,3.
- Carroll, Frederick M. Motor vehicle bumper. 2,966,225, 12-27-60, Cl. 180-83.
- Carroll, George P.: See—
- Knox, William H., Jr., Blanch, and Carroll. 2,957,750.
- Carroll, Helen N.: See—
- Carroll, Charles O. and H. N. 2,954,649.
- Carroll, James G.: See—
- Bolt, Robert O., and Carroll. 2,943,056.
- Carroll, James H., J. A. Runberg, and H. E. Benjamin, to Phillips Petroleum Co. Carbon black slurries and method of preparation. 2,965,510, 12-20-60, Cl. 106-238.
- Carroll, James S.: See—
- Black, Robert S., and Carroll. 2,926,628.
- Carroll, John J., deceased; M. Carroll, administratrix. Tensioned canopy. 2,963,031, 12-6-60, Cl. 135-5.
- Carroll, John P., J. Mazzarines, E. J. Selyem, and R. C. Williams, to General Motors Corp. Twin engine crawler tractor. 2,955,845, 10-11-60, Cl. 280-400.
- Carroll, Manly E., Jr.: See—
- Carroll, Manly E., Sr., M. E. Carroll, Jr., and Morgan. 2,929,463.
- Carroll, Manly E., Sr., M. E. Carroll, Jr., and A. G. Morgan, to Senogas Corp. Apparatus for salvaging vapor gas from hydrocarbon liquids. 2,929,463, 3-22-60, Cl. 183-25.
- Carroll, Mildred: See—
- Carroll, John J. 2,963,031.
- Carroll, Oren H. Valve locking device. 2,925,955, 2-23-60, Cl. 230-221.
- Carroll, William N., to International Business Machines Corp. Transformer coupled flip-flop. 2,932,795, 4-12-60, Cl. 328-196.
- Carroll, William N., and F. E. Herdina, to International Business Machines Corp. Transistor testing method. 2,932,792, 4-12-60, Cl. 324-158.
- Carrollton Mfg. Co.: See—
- Richardson, Richard A. 2,925,609.
- Carruthers, Eben H.: See—
- Anderson, Lyle K., Jann, and Carruthers. 2,954,298.
- Carruthers, Eben H., to Chisholm Ryder Co. Inc. Machine for harvesting pod type vegetables. 2,943,430, 7-5-60, Cl. 56-1.
- Carruthers, Eben H., to Chisholm Ryder Co. Inc. Cutter bank for harvesting machines. 2,943,629, 7-5-60, Cl. 130-30.
- Carruthers, Thomas F., to Union Carbide Corp. Lactone adducts. 2,929,827, 3-22-60, Cl. 260-405.
- Carruthers, Walter W., and C. L. Kirkpatrick, to United States of America, Navy. Sonar trainer. 2,948,970, 8-16-60, Cl. 35-10.4.
- Carskadon, Thomas W., Sr. Pant leg pressing machine. 2,949,688, 8-23-60, Cl. 38-22.
- Carson, Andrew: See—
- Bockstahler, Theodore E., Aycock, and Carson. 2,920,102.
- Bockstahler, Theodore E., Aycock, and Carson. 2,920,108.
- Carson, Benjamin R., to Radio Corp. of America. Single automatic slot record player. 2,927,794, 3-8-60, Cl. 274-9.
- Carson, Frank J.: See—
- Bamford, William P., Carson, and Laine. 2,950,573.
- White, Gerald, and Carson. 2,957,277.



- Carson, Frank J., to Libbey-Owens-Ford Glass Co. Glass bending apparatus. 2,925,688, 2-23-60, Cl. 49-67.
- Carson, Frank J., to Libbey-Owens-Ford Glass Co. Apparatus for producing bent sheets. 2,936,550, 5-17-60, Cl. 49-67.
- Carson, Frank J., to Libbey-Owens-Ford Glass Co. Glass bending mold. 2,963,822, 12-13-60, Cl. 49-67.
- Carson, Frank J., and L. H. Laine, to Libbey-Owens-Ford Glass Co. Apparatus for bending glass sheets. 2,920,423, 1-12-60, Cl. 49-67.
- Carson, Frank L. Therapeutic machine. 2,923,289, 2-2-60, Cl. 128-25.
- Carson, George L., to Philco Corp. Processing system. 2,952,499, 9-13-60, Cl. 316-1.
- Carson, Robert E., to General Electric Co. Signal processing arrangement. 2,945,153, 7-12-60, Cl. 315-39.
- Carson, Thomas H., to Ex-Cell-O Corp. Flow control servo valve. 2,934,765, 4-26-60, Cl. 137-622.
- Carson, William H., to Harbison-Walker Refractories Co. Shell brass recovering machine. 2,961,754, 11-29-60, Cl. 29-208.
- Carson, William T. Slide fastener tape construction. 2,935,095, 5-3-60, Cl. 139-384.
- Carstedt, Volney E., and R. H. Wood. D.C. to A.C. converter. 2,964,717, 12-13-60, Cl. 331-113.
- Carstens, Fred A., to A. O. Smith Corp. Method of fabricating cylindrical shell structures. 2,948,061, 8-9-60, Cl. 29-463.
- Carswell, James R., to Delta Welder Corp. Dual piston welding gun. 2,938,996, 5-31-60, Cl. 219-89.
- Carten, George T., to Carten Redi-Braid, Inc. Braid anchorage stand. 2,939,360, 6-7-60, Cl. 87-62.
- Carten Redi-Braid, Inc.: *See*—  
Carten, George T., 2,939,360.
- Carten, Allen E.: *See*—  
Powers, Clyde W., Bean, and Carter. 2,952,498.
- Carten, Alvie. Bee simulating toy. 2,922,253, 1-26-60, Cl. 46-232.
- Carter, Andrew G. Buckle construction for safety belts. 2,965,942, 12-27-60, Cl. 24-170.
- Carter, Arthur M. Pump liner packing apparatus. 2,937,600, 5-24-60, Cl. 103-216.
- Carter, Arthur W. H., to Electric & Musical Industries Ltd. Separate adjacent antennas for different bands with means to reduce cross coupling. 2,924,823, 2-9-60, Cl. 343-751.
- Carter, Arthur W. H., to Electric & Musical Industries Ltd. Slotted waveguide aerials. 2,937,373, 5-17-60, Cl. 343-771.
- Carter, Austin G.: *See*—  
Maccormac, Michael, and Carter. 2,927,847.
- Carter, Austin G., to The Power Gas Corp. Ltd. Heating gases and vapours. 2,944,806, 7-12-60, Cl. 263-52.
- Carter, Benjamin C.: *See*—  
Sharman, John C., and Carter. 2,924,955.
- Carter, Carnie M. Fishing lure retriever. 2,940,203, 6-14-60, Cl. 43-17.2.
- Carter, Cecil J. Lifting device. 2,946,616, 7-26-60, Cl. 294-65.5.
- Carter, Cecil M. Flush tank controls. 2,963,710, 12-13-60, Cl. 4-67.
- Carter, Cecil S., and G. R. Oleson. Position control servo-system. 2,922,939, 1-26-60, Cl. 318-31.
- Carter, Cecil V., J. R. Carden, and R. Howe, to Northrop Corp. Graphical vector computer. 2,961,156, 11-22-60, Cl. 235-61.
- Carter, Charles F., Jr.: *See*—  
Yingst, Cyrus S., and Carter. 2,933,862.
- Carter, Clare A., and D. H. Way, to Union Carbide Corp. Fire extinguishing method. 2,956,947, 10-18-60, Cl. 252-3.
- Carter, Clarence F. Filling machine. 2,954,203, 9-27-60, Cl. 249-64.
- Carter, Crawford F.: *See*—  
Dreher, John L., and Carter. 2,945,813.
- Carter, Daniel H., and A. E. Nall, Jr., to Welx, Inc. Recording system. 2,958,010, 10-25-60, Cl. 315-307.
- Carter, Earnest R.: *See*—  
Yates, Roy L., Carter, and Casoria. 2,963,208.
- Carter, Edward S., Jr., to United Aircraft Corp. Actuating mechanism damping control. 2,955,779, 10-11-60, Cl. 244-17.21.
- Carter, Elbert P., to E. I. du Pont de Nemours and Co. Blast-ing machine. 2,933,653, 4-19-60, Cl. 317-80.
- Carter, Franklyn Y., to American Radiator & Standard Sanitary Corp. Valve. 2,949,128, 8-16-60, Cl. 137-505.37.
- Carter, George E., Jr.: *See*—  
Briggs, Richard S., and Carter. 2,965,791.
- Carter, George E., Jr., to Bomac Laboratories Inc. Filamentary electrode structure for electron discharge devices. 2,964,668, 12-13-60, Cl. 313-275.
- Carter, Howell L., Jr.: *See*—  
Anderson, Carl L., and Carter. 2,920,245.
- Carter, Howell L., Jr., to Raytheon Co. Bandwidth switching circuits. 2,933,694, 4-19-60, Cl. 330-154.
- Carter, Howell L., Jr., to Raytheon Co. Decoupling amplifying systems. 2,951,209, 8-30-60, Cl. 330-167.
- Carter, Iula O. Nursery chair. 2,923,950, 2-9-60, Cl. 4-135.
- Carter, Jack W.: *See*—  
Pfaff, George C., Jr., and Carter. 2,925,231.
- Carter, James M.: *See*—  
Chesnut, John D., and Carter. 2,965,078.
- Carter, John C. G., to Westinghouse Electric Corp. Electrical control system. 2,924,755, 2-9-60, Cl. 317-139.
- Carter, John W.: *See*—  
Dailey, William H., Jr., Phillips, and Carter. 2,932,497.
- Carter, Kenneth G. Muffler. 2,961,058, 11-22-60, Cl. 181-35.
- Carter, Melvin A. Motor-driven rotary stepping switch. 2,935,586, 5-3-60, Cl. 200-105.
- Carter, Norman C., to Phillips Petroleum Co. Reforming process wherein the temperatures in and temperature drop across a reactor or reactors are controlled. 2,955,080, 10-4-60, Cl. 208-63.
- Carter, Norman D.: *See*—  
Riordan, Michael D., Carter, and Bos. 2,932,660.
- Carter Parts Co.: *See*—  
Frantz, Nicholas, and Gloviak. 2,951,926.  
Gloviak, Stanley, and Frantz. 2,942,074.  
Raab, Andrew E. 2,921,170.
- Carter, Philip M., and D. Nardoza, to Leeder Mfg. Co. Inc. Fire extinguishers. 8,924,280, 2-9-60, Cl. 169-31.
- Carter, Philip S., to United States of America, Air Force. Circularly polarized wave apparatus. 2,942,260, 6-21-60, Cl. 343-756.
- Carter, Philip S., Jr., to United States of America, Air Force. Direction finding antenna. 2,959,782, 11-8-60, Cl. 343-708.
- Carter Products, Inc.: *See*—  
Berger, Frank M., and Ludwig. 2,937,119.  
Spitzer, Joseph G., Nasarevich, Lange, and Bondi. 2,944,906.
- Carter, Ralph H. Stepladder attachment. 2,930,442, 3-29-60, Cl. 182-120.
- Carter, Richard H., to The Fostoria Corp. Electrical terminal connector. 2,957,157, 10-18-60, Cl. 339-50.
- Carter, Richard H., to The Fostoria Corp. Vibration isolating coupling. 2,958,296, 11-1-60, Cl. 103-218.
- Carter, Richard S., to Hydronics, Inc. Nutrient fluid control in hydroponic systems. 2,940,218, 6-14-60, Cl. 47-1.2.
- Carter, Richard S., 1/4 to D. A. Hicks. Imitative nursing doll. 2,945,321, 7-19-60, Cl. 46-247.
- Carter, Richard T. Process of making refractory shell for casting metal. 2,948,935, 8-16-60, Cl. 22-196.
- Carter, Robert L.: *See*—  
Beem, Donald W., Carter, and Wallace. 2,940,701.
- Carter, Robert L., to General Motors Corp. Diaphragm pump with pulsator by-pass valve. 2,942,550, 6-28-60, Cl. 103-42.
- Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Apparatus for separating like articles and dividing the articles in predetermined relative number. 2,920,738, 1-12-60, Cl. 198-31.
- Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Labeling machine for applying wrap-around labels. 2,925,931, 2-23-60, Cl. 216-13.
- Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Article combiner. 2,936,060, 5-10-60, Cl. 198-30.
- Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Labeling machine. 2,940,630, 6-14-60, Cl. 216-13.
- Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Grip-finger assembly for labeling machines. 2,946,472, 7-26-60, Cl. 216-13.
- Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Gum-applying apparatus for labeling machines. 2,947,433, 8-2-60, Cl. 216-12.
- Carter, Thomas A., Jr., and A. V. Hooper, to Thompson Ramo Wooldridge Inc. Pump. 2,946,288, 7-26-60, Cl. 103-97.
- Carter, Thomas N., to The Champion Paper and Fibre Co. Oscillator for web winding devices. 2,946,532, 7-26-60, Cl. 242-57.1.
- Carter, Walter C., and E. D. Smith, to The Chemstrand Corp. Process for dyeing shaped articles. 2,952,505, 9-13-60, Cl. 8-21.
- Carter, William A.: *See*—  
Caswell, Arthur S., and Carter. 2,959,654.
- Carter, William D., and N. H. Shearer, Jr., to Eastman Kodak Co. Process of polymerizing ethylene with aluminum-titanium halide catalyst. 2,928,818, 3-15-60, Cl. 260-94.9.
- Carter, William G. Shaft seal. 2,921,806, 1-19-60, Cl. 286-11.15.
- Carter, William H., Jr. Pulse tachometer. 2,929,992, 3-22-60, Cl. 324-70.
- Carter, William H., Jr. Perfusion chamber. 2,940,360, 6-14-60, Cl. 88-40.
- Carter, William H., Jr. Portable refrigeration system for refrigerating scintillation detectors and the like. 2,948,127, 8-9-60, Cl. 62-384.
- Carter, William H., Jr. Cinephotomicrograph. 2,956,489, 10-18-60, Cl. 95-11.5.
- Carter, William R.: *See*—  
Neibel, De Witt E., and Carter. 2,932,476.
- Carter, Willis M., T. H. Clore, and K. O. Lange, to The Kentucky Research Foundation. Parachute disreefing apparatus. 2,929,589, 3-22-60, Cl. 244-152.
- Cartier, William O.: *See*—  
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- Cartinhour, John W.: *See*—  
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- Cartlidge, John R.: *See*—  
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- Carton Associates, Inc.: *See*—  
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- Cartrix Corp.: *See*—  
Sarnoff, Stanley J. 2,956,563.
- Cartwright, Bert W., T. Iavelli, and E. R. Miller, to Chrysler Corp. Transmission. 2,932,990, 4-19-60, Cl. 74-763.
- Cartwright, Jessie, to Borg-Warner Corp. Agitator. 2,959,045, 11-8-60, Cl. 68-134.
- Cartwright, John R.: *See*—  
Bird, Raymond, and Cartwright. 2,958,856.
- Cartwright, John R., to International Computers and Tabulators Ltd. Data checking apparatus. 2,943,787, 7-5-60, Cl. 235-61.7.
- Cartwright, Leonard W., and S. C. Blowers, to Philco Corp. Radiation-detecting device and system. 2,961,542, 11-22-60, Cl. 250-83.3.
- Cartwright, Victor F., to The Ralph M. Parsons Co. Distance measuring system. 2,921,301, 1-12-60, Cl. 343-6.
- Cartwright, Victor F., to Ralph M. Parsons Co. Mode silencer for a closed loop transmission system. 2,921,302, 1-12-60, Cl. 343-7.5.
- Carty, John J. Floral supporting stands. 2,925,975, 2-23-60, Cl. 248-27.8.
- Carufel, Louis D., to Continental Motors Corp. Transmissions. 2,962,976, 12-6-60, Cl. 103-218.
- Carus Chemical Co.: *See*—  
Carus, Milton B., and Reidies. 2,940,821.  
Carus, Milton B., and Reidies. 2,940,822.  
Reidies, Arno H., and Carus. 2,940,823.
- Carus, Milton B.: *See*—  
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- Carus, Milton B., and A. H. Reidies, to Carus Chemical Co. Production of  $K_2MnO_4$ . 2,940,821, 6-14-60, Cl. 23-58.
- Carus, Milton B., and A. H. Reidies, to Carus Chemical Co. Production of potassium manganates. 2,940,822, 6-14-60, Cl. 23-58.
- Caruso, Anthony M., to Seeburg Corp. Vending machines. 2,960,373, 11-15-60, Cl. 312-35.
- Caruso, Frank E., and R. A. Stampfl, to United States of America, Army. Remote control device. 2,939,054, 5-31-60, Cl. 317-157.
- Caruso, John S.: *See*—  
Pascale, John, and Caruso. 2,952,606.
- Caruso, Joseph, to Keuffel & Esser Co. Combination tape case and leveling device. 2,942,348, 6-28-60, Cl. 33-89.
- Caruso, Paul B. Folded rigid cigarette package fitted with lifting insert. 2,928,571, 3-15-60, Cl. 221-247.
- Caruthers, Neal M., to Pan American Petroleum Corp. Treatment of hydrocarbon solutions of oxygenated chemicals. 2,943,104, 6-28-60, Cl. 260-449.6.
- Caruthers, Neal M., to Pan American Petroleum Corp. Treatment of hydrocarbon solutions of oxygenated chemicals with solid adsorbents. 2,943,105, 6-28-60, Cl. 260-450.
- Carvalho, Pierre. Conveyor and transport apparatus with stirring action. 2,960,319, 11-15-60, Cl. 259-54.
- Carver, David C., to Multa Products, Inc. Portable plumbing and electrical unit for multiple installation of washing machines. 2,951,498, 9-6-60, Cl. 137-343.
- Carver, James N.: *See*—  
Brillhart, William O., Gallant, and Carver. 2,950,992.
- Carver, Lawrence M., to Stelma, Inc. Telegraph repeater system. 2,930,849, 3-29-60, Cl. 178-70.
- Carver, Lawrence M., to Stelma, Inc. Regenerative repeater system. 2,953,641, 9-20-60, Cl. 178-70.
- Carver, Lawrence M., to Stelma, Inc. Telegraph single space or mark pulse distortion monitor. 2,961,489, 11-22-60, Cl. 178-69.
- Carver, Philip W., to Kontak Mfg. Co. Ltd. Pumps for liquids. 2,948,221, 8-9-60, Cl. 103-37.
- Carver, Robert G., to General Electric Co. Refrigerant compressor having thermal overload protector. 2,946,203, 7-26-60, Cl. 62-230.
- Carwin Co., The: *See*—  
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- Carwin Co., The: *See*—  
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- Cary, Donald S., to Eastman Kodak Co. Optically immersed photoconductive cells. 2,964,636, 12-13-60, Cl. 250-211.
- Cary, Henry H., to Applied Physics Corp. Raman spectrophotometer. 2,940,355, 6-14-60, Cl. 88-14.
- Cary, John E., R. E. Shafer, and V. Cary. Self propelled fibre harvesting and decorticating machine. 2,939,181, 6-7-60, Cl. 19-12.
- Cary, Valerie: *See*—  
Cary, John E., Shafer, and Cary. 2,939,181.
- Caryl, Coleman R., and W. E. Helmick. Apparatus and mechanism for concentrating solar rays on objects to be tested. 2,945,417, 7-19-60, Cl. 88-14.
- Casablanca High Draft Co. Ltd.: *See*—  
Noguera, Joseph. 2,931,074.  
Noguera, Joseph. 2,931,594.  
Noguera, Joseph. 2,933,773.  
Noguera, Joseph. 2,951,267.
- Casabona, Anthony M., J. S. Engel, and C. Lucanera, to International Telephone and Telegraph Corp. Omnidirectional antennas. 2,939,141, 5-31-60, Cl. 343-754.
- Casady, Edgar G. Pipe insulation cutting machine. 2,948,085, 8-9-60, Cl. 51-74.
- Casaleto, Joseph. Adjustable spray nozzle with resilient body. 2,959,359, 11-8-60, Cl. 239-455.
- Casanov, Raymond C., to Teletype Corp. Fast acting tailstock. 2,944,467, 7-12-60, Cl. 90-23.
- Casassa, Joseph P., to General Motors Corp. Impeller pumps with magnetic drives. 2,951,447, 9-6-60, Cl. 103-37.
- Casazza, John J., Jr., to United States Rubber Co. V-transmission belt. 2,945,389, 7-19-60, Cl. 74-233.
- Casboni, Anthony: *See*—  
Wise, Ernest G., and Casboni. 2,941,274.
- Cascade Mfg. Co.: *See*—  
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- Casco Products Corp.: *See*—  
Fenn, Lawrence E. 2,959,663.  
Fenn, Lawrence E. 2,959,664.  
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- Cascone, Francis X.,  $\frac{1}{2}$  to A. S. Cardi. Gun drill holder. 2,933,321, 4-19-60, Cl. 279-20.
- Case, Bruce G., and H. Coster, to Shell Oil Co. Process and apparatus for wrapping bales. 2,928,217, 3-15-60, Cl. 53-28.
- Case, Carlton L., G. D. Harkey, and F. P. Miller. Gas meter. 2,944,421, 7-12-60, Cl. 73-230.
- Case, Donald P.: *See*—  
Criscuolo, Edward L., Polansky, and Case. 2,938,374.
- Case, Everett N., and R. Koncos, to Sinclair Refining Co. Process for removing heavy metals from petroleum with an oil-insoluble sulfonic acid. 2,948,675, 8-9-60, Cl. 208-252.
- Case, J. I., Co.: *See*—  
Arnold, Bruce C. 2,953,943.  
Bliss, John W. 2,963,998.  
Bulin, Shelly A. 2,931,363.  
Campbell, Donald J. 2,949,161.  
Christenson, Donald J., and Heth. 2,940,283.  
Cole, John M. 2,929,458.  
Downey, Wayne A. 2,955,550.  
Frushour, George V., and Olinger. 2,930,494.  
Gillette, Roy A. 2,925,871.  
Gillette, Roy A. 2,928,482.  
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Henson, Clarence E. 2,960,172.  
Hodges, Lawrence H. 2,924,188.  
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King, Richard J., and Schill. 2,923,364.  
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Meldahl, Waldemar J. 2,964,114.  
Miller, Charles D. 2,956,808.  
Miller, Kay. 2,935,860.  
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Russell, Stanley D. 2,933,037.  
Schwegler, Roy F. 2,949,970.  
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Weiss, Webster J. 2,955,528.  
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- Case, James W. Apparatus for coating glass fibers. 2,954,582, 10-4-60, Cl. 18-8.
- Case, Laura K., to E. I. du Pont de Nemours and Co. Complexes of vanadium halides and monoethylenic compounds and their preparation. 2,930,807, 3-29-60, Cl. 260-429.
- Case Mfg. Corp.: *See*—  
Kohlmeier, George W. 2,923,012.
- Case, Morris A. Textile fiber winder. 2,955,772, 10-11-60, Cl. 242-43.
- Case, Richard Y., to United States Rubber Co. Flexible shaft couplings. 2,952,143, 9-13-60, Cl. 64-11.
- Case, Thomas C. Pencil rack. 2,959,296, 11-8-60, Cl. 211-69.
- Case, Thomas L.: *See*—  
Roth, Willard, and Case. 2,926,902.
- Case, Willis H. Mud guards and mounting structures therefor. 2,935,336, 5-3-60, Cl. 280-154.5.
- Casella, Secondo L.: *See*—  
Morey, Sigmund M., and Casella. 2,949,795.
- Casey, Anderson P.,  $\frac{1}{2}$  to E. E. Casey. Occupant operated aquatic toy. 2,962,283, 11-29-60, Cl. 272-1.
- Casey, Ben F., and H. R. White, to United States Steel Corp. Adjustable pay-off reel. 2,936,133, 5-10-60, Cl. 242-110.3.
- Casey, Carl: *See*—  
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- Casey, Earl E.: *See*—  
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- Casey, Harold C., to De Walt, Inc. Tool elevating device. 2,959,200, 11-8-60, Cl. 143-35.
- Casey, Harry B.: *See*—  
Burns, Jerome G., and Casey. 2,956,254.
- Casey, Joseph J., to Amalgamated Growth Industries, Inc. Apparatus and process for conducting chemical reactions. 2,921,892, 1-19-60, Cl. 204-164.
- Casey, Raymond: *See*—  
Siedband, Melvin P., Hirst, and Casey. 2,946,021.
- Casey, Robert F.: *See*—  
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- Casey, Robert F., to Monroe Calculating Machine Co. Amplitude discriminative amplifier. 2,929,029, 3-15-60, Cl. 330-173.
- Casey, Robert F. Balanced modulator. 2,946,023, 7-19-60, Cl. 332-13.
- Casey, Robert F., and J. Gibbon, to Monroe Calculating Machine Co. Flip-flop. 2,921,192, 1-12-60, Cl. 250-27.
- Casey, Robert F., and J. Gibbon, to Monroe Calculating Machine Co. Trouble detector. 2,947,943, 8-2-60, Cl. 324-158.
- Casey, Robert T., to General Electric Co. Circuit breaker. 2,925,481, 2-16-60, Cl. 200-88.
- Casey, William J., III, to American Steel Foundries. Transition coupling. 2,925,925, 2-23-60, Cl. 213-112.
- Casey, William J., III, to American Steel Foundries. Oscillation control arrangement. 2,966,124, 12-27-60, Cl. 105-197.
- Cash, A. W. Co.: *See*—  
Jones, John G., and Mattingly. 2,925,067.
- Cash, Burton E., to Celanese Corp. of America. Solvent recovery. 2,951,067, 8-30-60, Cl. 260-94.9.
- Cash Control Cover Corp.: *See*—  
Eaton, William M., and Sporn. 2,943,901.
- Cash, James A., Sr., to Cash Machine Co., Inc. Mattress filling machine. 2,924,925, 2-16-60, Cl. 53-125.
- Cash, James A., Sr., to James Cash Machine Co., Inc. Mattress tape edge sewing apparatus. 2,925,057, 2-16-60, Cl. 112-3.
- Cash, James, Machine Co., Inc.: *See*—  
Cash, James A., Sr. 2,925,057.
- Cash Machine Co., Inc.: *See*—  
Cash, James A., Sr. 2,924,925.
- Cashion, Francis W., to Allied Chemical Corp. Stabilized benzidines. 2,966,519, 12-27-60, Cl. 260-571.
- Cashman, Walter D., and E. W. Spannhake, to LeTourneau-Westinghouse Co. Power transmission device. 2,961,893, 11-29-60, Cl. 74-574.
- Casida, John E., and B. W. Arthur, to Wisconsin Alumni Research Foundation. Dimethyl-2,2,2-trichloro-1-acetyloxyethylphosphonate. 2,927,880, 3-8-60, Cl. 167-22.
- Casida, John E., and B. W. Arthur, to Wisconsin Alumni Research Foundation. Dimethyl-2,2,2-trichloro-1-n-butyloxyethylphosphonate. 2,927,881, 3-8-60, Cl. 167-22.
- Casini, Carlo R. Rotary internal combustion engine with radial cylinders and variable stroke. 2,920,611, 1-12-60, Cl. 123-44.
- Casini, Vittorio, to Piaggio & C. Societa per Azioni. Internal combustion engine. 2,946,324, 7-26-60, Cl. 123-73.
- Casius Corp. Ltd.: *See*—  
Berg, John V., and Stare. 2,948,947.
- Casler, Roger H.: *See*—  
Darsie, Burns, and Casler. 2,935,914.
- Eames, James O. 2,942,699.
- Eaton, Wilfred A. 2,934,178.
- Eaton, Wilfred A., and Casler. 2,954,854.
- Sanford, Roy S. 2,925,891.
- Sanford, Roy S., and Eames. 2,930,456.
- Sanford, Roy S., and Eames. 2,945,566.
- Casler, Roger H., to R. S. Sanford, W. A. Eaton, E. D. Sedergren, R. H. Casler, and J. O. Eames. Hydraulic control system. 2,934,382, 4-26-60, Cl. 303-54.
- Casner Patents, Inc.: *See*—  
Roters, Herbert C. 2,953,700.
- Casoria, Michael: *See*—  
Yates, Roy L., Carter, and Casoria. 2,963,028.
- Caspar, John, and H. D. Hoffman, to Curtiss-Wright Corp. Ram jet control system. 2,959,000, 11-8-60, Cl. 60-35.6.
- Casper, Johannes: *See*—  
Müller, Wilhelm, Casper, Haupt, and Heinen. 2,947,706.
- Casper, Marlene H. Diaper construction. 2,926,666, 3-1-60, Cl. 128-284.
- Cass, Freeman R. Thread guides for textile machines. 2,943,813, 7-5-60, Cl. 242-157.
- Cass, Nathan, to United States of America, Army. Negative resistance voltage breakdown tester. 2,956,223, 10-11-60, Cl. 324-24.
- Cass, Wilfred R., to Pye Ltd. Method of making electric circuits. 2,962,801, 12-6-60, Cl. 29-155.5.
- Cassady, Robert T. Method of and apparatus for regulating corrugating machines (variable heat double facer). 2,941,573, 6-21-60, Cl. 154-32.
- Casse, Marcel. Method of manufacturing blanks of articles of felt and automatic machine therefor. 2,936,512, 5-17-60, Cl. 28-72.3.
- Cassell, Kathleen C. Arithmetical aid for teaching fractions. 2,930,146, 3-29-60, Cl. 35-31.
- Cassell, Norman S., to Interchemical Corp. Non-woven fabrics. 2,949,386, 8-16-60, Cl. 117-140.
- Cassell, Charles F., deceased; J. C. Cassell, executrix, to J. C. Cassell. Incision closing clip. 2,926,407, 3-1-60, Cl. 24-161.
- Cassell, Irving S., and L. D. Eckard. Ignition safety control for fluid fuel burners. 2,964,102, 12-13-60, Cl. 158-28.
- Cassell, James W., and A. W. Graybeal, 1/2 to James W. Cassell. Fuel injection apparatus. 2,960,976, 11-22-60, Cl. 123-119.
- Cassell, Jeannette C.: *See*—  
Cassell, Charles F. 2,926,407.
- Cassell, Joseph L., to The Reeve Electrical Co., Inc. Foil takeoff block for burglar alarms. 2,922,979, 1-26-60, Cl. 339-17.
- Cassell, Joseph L., to Automatic Fire Alarm Co. Automatic alarm transmitter. 2,938,197, 5-24-60, Cl. 340-288.
- Cassell, Joseph L., to Automatic Fire Alarm Co. Detector unit valve construction. 2,948,299, 8-9-60, Cl. 137-625.4.
- Cassell, Joseph L., to Automatic Fire Alarm Co. Detector-unit switch construction. 2,965,732, 12-20-60, Cl. 200-83.
- Casselman, Elbridge J., to American Safety Razor Corp. Blade edge deformation tester. 2,925,730, 2-23-60, Cl. 73-104.
- Casselman, Elbridge J., to The American Safety Razor Corp. Device for presenting cutting edges for cutting ability indexing. 2,934,994, 5-3-60, Cl. 88-14.
- Casseman, T. & E., Inc.: *See*—  
Vohden, Allen J. 2,955,000.
- Cassey, Harold C., to American Machine & Foundry Co. Locking structure for power tool setting. 2,942,632, 6-28-60, Cl. 143-6.
- Cassidy, John J.: *See*—  
Jordan, Robert O., and Cunningham. 2,927,963.
- Cassidy, Peter P. Bottle and jar opener. 2,929,283, 3-22-60, Cl. 81-3.4.
- Casson, Wesley C., to Cue Fastener, Inc. Interlocking fastener elements for a slide fastener. 2,919,482, 1-5-60, Cl. 24-205.13.
- Castady, George. Boats. 2,924,834, 2-16-60, Cl. 9-2.
- Castaigne, Albert. Pharmaceutical product for reducing the proportion of cholesterol in the blood. 2,965,542, 12-20-60, Cl. 167-65.
- Castaine, Clarence B. Metal block construction. 2,933,166, 4-19-60, Cl. 189-34.
- Castberg, Carl G., to Rederiaktiebolaget Nordstjernan. Methods and devices for preventing stalk rot in fruit stalks. 2,923,632, 2-2-60, Cl. 99-154.
- Castellana, Jack, to Taylor Industries, Inc. Stereoscopic slide projector. 2,928,316, 3-15-60, Cl. 88-26.
- Castellanos, Leo J.: *See*—  
Guy, Arthur L., and Castellanos. 2,954,676.
- Castellanos, Leopold J., to Fares Hanna. Swaged pipe coupling for off shore drilling. 2,934,360, 4-26-60, Cl. 285-18.
- Castelli, Charles, to Johnson & Johnson. Dispensing cutter. 2,942,764, 6-28-60, Cl. 225-51.
- Castelli, Charles, A. R. Meares, and I. J. Gershen, to Johnson & Johnson. Dispenser for dental floss and other filaments. 2,929,541, 3-22-60, Cl. 225-51.
- Castelli, Charles, C. E. Moser, and W. H. Ashton, to Johnson & Johnson. Dispensing device. 2,939,610, 6-7-60, Cl. 222-94.
- Castenschild, Rene: *See*—  
Spinelli, Frank P., and Castenschild. 2,938,127.
- Castera, George. Portable sand conditioning apparatus. 2,959,830, 11-15-60, Cl. 22-89.
- Casteras, John M., to International Smelting and Refining Co. Mold dressing. 2,956,890, 10-18-60, Cl. 106-38.22.
- Castle, Alfred B. Instrument clamping assembly. 2,938,690, 5-31-60, Cl. 248-27.
- Castle, Alfred B. Mounting means. 2,938,700, 5-31-60, Cl. 248-358.
- Castle, Alfred B. Clamps. 2,957,666, 10-25-60, Cl. 248-27.
- Castle, John G., Jr., to United States of America, Navy. Optimizing sensitivity and resolution of ion chamber. 2,946,887, 7-26-60, Cl. 250-41.9.
- Castle Machines, Inc.: *See*—  
O'Harah, Alvin F. 2,961,985.
- Castles, Walter, Jr., to Georgia Tech Research Institute. Hydraulic transmission. 2,927,430, 3-8-60, Cl. 60-53.
- Castner, Foster J.: *See*—  
Reinking, Norman H., Barth, and Castner. 2,951,825.
- Castoe, Hubert M. Combination truck and hoisting boom. 2,951,601, 9-6-60, Cl. 214-86.
- Castricone, John A., to American Motors Corp. Clothes washing machine. 2,929,234, 3-22-60, Cl. 68-17.
- Castricone, John A., to American Motors Corp. Manually operable quadrant type timer mechanism. 2,931,473, 4-5-60, Cl. 192-3.5.
- Castro, Bernard. Sofa bed. 2,928,106, 3-15-60, Cl. 5-51.
- Castro, Bernard. Seat cushion support for sofa-bed. 2,960,698, 11-22-60, Cl. 5-13.
- Castro Convertible Corp.: *See*—  
Barabas, John J., and Willis. 2,944,595.
- Barabas, John J., and Willis. 2,949,955.
- Willis, Sumner C., and Barabas. 2,934,770.
- Castronovo, John. Manicotti shell maker. 2,962,985, 12-6-60, Cl. 107-58.
- Caswell, Arthur S., to I-T-E Circuit Breaker Co. Pneumatically operated circuit breaker having pneumatically assisted arc interrupting means. 2,920,170, 1-5-60, Cl. 200-148.
- Caswell, Arthur S., to I-T-E Circuit Breaker Co. Latch means for recirculating gas blast interrupters. 2,936,355, 5-10-60, Cl. 200-148.
- Caswell, Arthur S., to I-T-E Circuit Breaker Co. Arc extinguishing means for high voltage circuit breakers. 2,941,060, 6-14-60, Cl. 200-144.
- Caswell, Arthur S., and J. D. Wood, to I-T-E Circuit Breaker Co. Contact cooling means for recirculating gas blast interrupters. 2,955,182, 10-4-60, Cl. 200-148.
- Caswell, Arthur S., and W. A. Carter, to I-T-E Circuit Breaker Co. Latched type shunted contact for three stage contact construction. 2,959,654, 11-8-60, Cl. 200-146.



- Caswell, Dwight A., to Monogram Precision Industries, Inc. Unidirectional transmission line. 2,941,168, 6-14-60, Cl. 333-24.
- Catalano, Charles, and J. Zanca. Feeding and weeping doll. 2,954,640, 10-4-60, Cl. 46-135.
- Cataldi, Louis V. Hinged jewelry clasp with means blocking disassembly. 2,943,363, 7-19-60, Cl. 63-14.
- Cataldo, John B.: See—
- Platz, Elwood T., Cataldo, and Herrmann. 2,946,037.
- Catalysts and Chemicals Inc.: See—
- Fleming, Harold W., and Gutmann. 2,959,627.
- Catalytic Combustion Corp.: See—
- Ruff, Richard J. 2,921,778.
- Ruff, Richard J. 2,950,098.
- Catanesco, Miguel A.: See—
- Massar, Julius C., and Catanesco. 2,934,628.
- Cataphote Corp.: See—
- Hodgson, George T., Jr., and Wells. 2,948,191.
- Catchpole, William A.: See—
- Sutherland, Ronald D., and Catchpole. 2,939,205.
- Cater, Sarah L. Garment bag. 2,935,182, 5-3-60, Cl. 206-7.
- Caterpillar Tractor Co.: See—
- Costa, Philip J., Wagner, Stafford, Lampert, and Randolph. 2,952,346.
- Fabere, Raymond W., and Wegner. 2,948,546.
- Goulet, Jules H., Dawes, and Smith. 2,943,422.
- Johnson, Gordon W. 2,961,057.
- Johnson, Lloyd E., and Holthe. 2,922,314.
- Kimsey, Woodrow P., and Holmstrom. 2,934,336.
- McCarthy, John H., Mogk, and Van Zandt. 2,939,346.
- Parks, John H. 2,961,229.
- Risk, Norman E., and Holden. 2,948,347.
- Zuhn, Arthur A. 2,943,617.
- Cather, Jay H. Bird feeder. 2,931,336, 4-5-60, Cl. 119-52.
- Catherall, Reginald, to The Solotron Electric Group Ltd. Low frequency oscillators and to the measuring of the amplitude of low frequency oscillations. 2,941,148, 6-14-60, Cl. 324-106.
- Cathey, William B. Spring guide box front for loom shuttle box. 2,948,303, 8-9-60, Cl. 159-185.
- Catlett, John C.: See—
- Gulick, John A., and Catlett. 2,944,281.
- Catlin, Everett A.: See—
- Hasek, Carl W., Jr., and Catlin. 2,924,204.
- Catlin, Robert T., and A. J. Landa, to Remington Arms Co., Inc. Curved barrel extension for cartridge-powered stud driving tools. 2,932,033, 4-12-60, Cl. 1-106.
- Catlin, Willard E.: See—
- Dawson, Thomas P., and Catlin. 2,951,863.
- Caton, Thomas R. Light-sensitive coating and the method for its production. 2,921,852, 1-19-60, Cl. 96-93.
- Caton, Thomas R., to Reproduction Research Laboratories, Inc. Plate graining apparatus. 2,948,087, 8-9-60, Cl. 51-120.
- Catron, Claude E. Protective device for the water cooled jaws of a positive carbon cooler. 2,928,991, 3-15-60, Cl. 315-118.
- Cat's Paw Rubber Co., Inc.: See—
- Esterson, Albert A. 2,955,365.
- Cattaneo, Giustino and Guido. Motion transmitting device for marine propellers having their thrust axis vertically movable. 2,949,791, 8-23-60, Cl. 74-385.
- Cattaneo, Guido: See—
- Cattaneo, Giustino and Guido. 2,949,791.
- Cattermole, Kenneth W.: See—
- Starr, Arthur T., Cattermole, and Price. 2,954,550.
- Cattermole, Kenneth W., to International Standard Electric Corp. Electric pulse communication systems. 2,927,162, 3-1-60, Cl. 179-15.
- Cattermole, Kenneth W., and R. B. Herman, to International Standard Electric Corp. Pulse producing device. 2,956,176, 10-11-60, Cl. 307-88.5.
- Cattorini, Joseph F.: See—
- Preston, William C., Cattorini, and Chaboty. 2,935,935.
- Cattrall, Thomas C., Jr.: See—
- Bergstrom, Eric V., Cattrall, and Haddad. 2,956,008.
- Caubet, Jacques J., to Societe dite: Ateliers Partiot Cementation. Structure for placing in contact slow moving members supporting heavy loads. 2,959,895, 11-15-60, Cl. 50-129.
- Cauchon, Philippe. Energy storing means for bicycles. 2,965,393, 12-20-60, Cl. 280-212.
- Caughy, John M., to Stubnitz Greene Corp. Spring element for cushion spring structure. 2,925,855, 2-23-60, Cl. 155-179.
- Caulfield, Harding B., to Kayser-Roth Corp. Display package for stretch socks. 2,965,227, 12-20-60, Cl. 206-78.
- Caulfield, Phillip D. Cowl flap actuating mechanism. 2,957,458, 10-25-60, Cl. 123-41.7.
- Causley, David J.: See—
- Young, John Z., Roberts, and Causley. 2,927,219.
- Young, John Z., Taylor, and Causley. 2,966,299.
- Cavadini, Alfredo: See—
- Steinberg, Adalberto, and Cavadini. 2,933,793.
- Cavagnaro, William A., E. B. Judd, W. J. Krzystyniak, and F. W. Truesdell, to General Electric Co. Impulse generating device for a wattour meter. 2,958,016, 10-25-60, Cl. 317-139.
- Cavalier, Alphonse A., and D. J. Coan, to Bendix Aviation Corp. Assembly of spherical containers. 2,938,644, 5-31-60, Cl. 220-3.
- Cavalier Corp.: See—
- Womack, Jack M. 2,944,703.
- Cavallini, Guido, and E. Massarani, to Francesco Vismara, S.p.A. 4-diphenylethane-aldehyde. 2,960,537, 11-15-60, Cl. 260-599.
- Cavallito, Chester J., to Irwin, Neisler and Co. N-[2-(1-phenyl-propyl)]-2,2-trichloroethylideniminem. 2,923,661, 2-2-60, Cl. 167-55.
- Cavallito, Chester J., to Irwin Neisler and Co. Amphetamine tartrate. 2,950,309, 8-23-60, Cl. 260-473.5.
- Cavanagh, Daniel A. Multiple conductor for large currents. 2,922,834, 1-26-60, Cl. 174-24.
- Cavanagh, Daniel A. Precision forging methods and apparatus. 2,925,486, 2-16-60, Cl. 219-151.
- Cavanagh, George C., to Ranchers Cotton Oil. Process for forming meal from cottonseed edible by animals and poultry. 2,934,431, 4-26-60, Cl. 99-2.
- Cavanagh, Patrick E. Method for jet smelting. 2,951,756, 9-6-60, Cl. 75-40.
- Cavanagh, Robert T., and R. W. Deichert, to Allen B. Du Mont Laboratories, Inc. Meteorological apparatus. 2,923,277, 3-15-60, Cl. 73-170.
- Cavanaugh, Edward F.: See—
- Keil, Harvard L., Cavanaugh, and Himes. 2,958,630.
- Cavanaugh, Edwin J. Self cleaning friction drive for lawn mowers. 2,954,836, 10-4-60, Cl. 180-74.
- Cavanaugh, Richard D., to Barry Wright Corp. Pneumatic isolator. 2,965,372, 12-20-60, Cl. 267-1.
- Cave, William T., to Monsanto Chemical Co. Resolution of 5-phenylethylhydantoin. 2,942,004, 6-21-60, Cl. 260-309.5.
- Cavedon, John, Jr.: See—
- Asti, Mansueto, and Cavedon. 2,959,824.
- Cavender, John G., to H. J. Tillery. Guard for garment hanger. 2,960,252, 11-15-60, Cl. 223-98.
- Cavey, Jack E. Wiring duct. 2,921,007, 1-19-60, Cl. 138-75.
- Cavin, Luella G. Combined coat hanger and clothesline gripping and suspending device. 2,921,728, 1-19-60, Cl. 223-93.
- Cavins, Paul. Releasable tool-holding socket. 2,935,302, 5-3-60, Cl. 255-26.
- Cavitron Corp.: See—
- Klesattel, Claus. 2,948,154.
- Cawl, Allen P.: See—
- Beede, Arnold H., and Cawl. 2,965,916.
- Belicka, Michael E., and Cawl. 2,945,921.
- Cawley, Frances: See—
- Lowell, Edward B., and Cawley. 2,963,172.
- Cawood, Desmond W.: See—
- Harris, Hunter C., Jr., Leifer, and Cawood. 2,941,202.
- Cawood, Paul J. Portable concrete batching plant. 2,959-302, 11-8-60, Cl. 214-2.
- Cawthon, William L., and O. A. Petti, to Green Fuel Economizer Co., Inc. Automatic air filter. 2,963,112, 12-6-60, Cl. 183-62.
- Cayo, Alven A. Reciprocable powered cradle, bed or the like. 2,964,761, 12-20-60, Cl. 5-109.
- Cayton, Robert J. Vertical blind drive mechanism. 2,935,881, 5-10-60, Cl. 74-243.
- Cazemier, Frits, and W. H. G. Moen, to North American Philips Co., Inc. Method of pasting by machine. 2,937,105, 5-17-60, Cl. 106-193.
- Cazier, John M., and H. J. Tuchyner, to The Garrett Corp. Resilient bearing mount. 2,926,051, 2-23-60, Cl. 308-184.
- Cazzaniga, Carlos A., to Kenig, Cazzaniga y Cia. Sociedad de Responsabilidad Limitada. Vertical shaft washing machines. 2,930,216, 3-29-60, Cl. 68-23.
- Cebular, John V. Alarm device, system and method. 2,935,741, 5-3-60, Cl. 340-310.
- Cecil, Edward C., and E. L. Scott, to American Potash & Chemical Corp. Production of lithium tetraborate from lithium hydroxide monohydrate and boric acid. 2,952,512, 9-13-60, Cl. 23-59.
- Cecil, Tom A.: See—
- Powell, Manly J., and Cecil. 2,944,986.
- Cedarholm, John P.: See—
- Amdahl, Lowell D., Havens, Jeanel, Schreiner, Cedarholm, and Eichenberger. 2,951,232.
- Havens, Byron L., Schreiner, Amdahl, Cedarholm, Jeanel, Meadows, and Mitchell. 2,957,626.
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- Cedeno, Arturo O. Traffic intersection. 2,941,454, 6-21-60, Cl. 94-1.
- Cedeno, Arturo O. Traffic intersection. 2,946,267, 7-26-60, Cl. 94-1.
- Cedeno, Arturo O. Traffic intersection. 2,949,067, 8-16-60, Cl. 94-1.
- Cederberg, Carl W., to Larson Tool & Stamping Co. Bobbin. 2,942,801, 6-23-60, Cl. 242-118.1.
- Cederlund, Albert, to Crompton & Knowles Corp. Filling thread control for weft replenishing loom. 2,965,138, 12-20-60, Cl. 139-260.
- Cederlund, Albert, K. J. Hall, and C. Darwin, to Crompton & Knowles Corp. Thread tension for shuttle. 2,961,008, 11-22-60, Cl. 139-217.
- Cederquist, Karl N., to Stora Kopparbergs Bergslags Aktiebolag. Continuous method of burning highly hydrous organic materials. 2,949,010, 8-16-60, Cl. 60-39.05.
- Cefalde, Joseph. Safety cigarette rest. 2,957,479, 10-25-60, Cl. 131-257.



- Cegan, Alex J., to Eastern Industries, Inc. Electrical control circuit. 2,931,923, 4-5-60, Cl. 307-132.
- Cejka, Joseph B., to General Bronze Corp. Contact member for collapsible antenna. 2,923,908, 2-2-60, Cl. 339-9.
- Cejka, Joseph B., to General Bronze Corp. Motor-controlled automobile radio antenna. 2,938,207, 5-24-60, Cl. 343-714.
- Cejka, Joseph B., to General Bronze Corp. Antenna mounting means. 2,944,777, 7-12-60, Cl. 248-43.
- Cejka, Joseph B., to Ward Products Corp. Antenna mounting. 2,953,630, 9-20-60, Cl. 174-153.
- Cekada, Joseph A., J. J. Evans, and P. H. Stiles, to United States of America, Army. Vehicle load suspension for fifth wheel type hitch. 2,920,905, 1-12-60, Cl. 280-440.
- Celanese Corp. of America: *See*—
- Adams, John R., Jr., and Salvin. 2,921,945.
  - Adams, John R., Jr., and Salvin. 2,922,796.
  - Axtell, Oliver H., Jr., and Clarke. 2,951,059.
  - Bartz, Kenneth W. 2,947,727.
  - Bartz, Kenneth W. 2,947,728.
  - Bennes, William J. 2,921,345.
  - Berardinella, Frank M., and Shanly. 2,925,354.
  - Burn, William A., Jr. 2,919,794.
  - Cash, Burton E. 2,951,067.
  - Chow, Ho, and Leyes. 2,947,031.
  - Contois, Leo L., Jr., and Tatum. 2,925,425.
  - Davis, Sanford, Marshall, and Davies. 2,961,430.
  - Edelman, Abraham, and Koslow. 2,964,260.
  - Fortess, Fred, and Best. 2,954,269.
  - Guentert, Louis F., Williams, and Parsons. 2,939,177.
  - Hertz, David B., and Chow. 2,926,384.
  - Hudgin, Donald E. 2,955,092.
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  - Jaffe, Joseph, and Schneider. 2,939,806.
  - Laughlin, Kenneth C., Osborne, and Santangelo. 2,966,455.
  - Layman, Claude E. 2,961,066.
  - Lewis, Charles. 2,936,941.
  - Luke, Oren V., Jr., Robeson, and Taylor. 2,951,095.
  - Martin, William T. 2,939,270.
  - McNeill, John H., and Keight. 2,932,850.
  - Mika, John P., and Hughes. 2,925,353.
  - Moelter, Gregory M. 2,947,595.
  - Palm, Clifford W. 2,942,402.
  - Parker, Edwin D., and MacLean. 2,921,090.
  - Pilat, Howard L., and Schrage. 2,964,477.
  - Plonsky, Seymour. 2,923,964.
  - Rice, Paul M. 2,952,418.
  - Rosenthal, Arnold J. 2,927,031.
  - Schmieding, Earl G., and Wall. 2,954,330.
  - Schoeneberg, Werner A., and Studer. 2,961,288.
  - Singleton, Robert W., and Horback. 2,966,428.
  - Storey, Alvin B., and Bayers. 2,962,167.
  - Waters, Elmer E., Shatynski, and Koch. 2,944,976.
  - Whitehead, William. 2,956,331.
- Celastec Corp., The: *See*—
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- Cella, G., Inc.: *See*—
- Bianchi, Henry E. 2,925,902.
- Cella, John A.: *See*—
- Brown, Edward A., and Cella. 2,925,416.
  - Mazur, Robert H., and Cella. 2,932,655.
- Cella, John A., to G. D. Searle & Co. 16-cyano-5-pregnene-3,20-diol and derivatives. 2,931,808, 4-5-60, Cl. 260-230.57.
- Cella, John A., to G. D. Searle & Co. 17 $\alpha$ -carboxyalkyl-17 $\beta$ -hydroxyandrostane-3-one lactones and nor compounds corresponding. 2,952,676, 9-13-60, Cl. 260-239.57.
- Cella, Joseph F., to Cella Machinery, Inc. Apparatus for depositing paper containers in crates. 2,953,407, 9-20-60, Cl. 294-94.
- Cella, Joseph F., to Cella Machinery, Inc. Apparatus for depositing filled paper cartons or containers. 2,957,287, 10-25-60, Cl. 53-64.
- Cella, Luigi. Precision adjustable dress form. 2,922,555, 1-26-60, Cl. 223-68.
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- Cella, Joseph F. 2,953,407.
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- Cellerini, Albert R., to Westinghouse Electric Corp. Circuit breaker. 2,937,251, 5-17-60, Cl. 200-88.
- Cellerini, Albert R., and R. H. Hill, to Westinghouse Electric Corp. Circuit breaker. 2,922,008, 1-19-60, Cl. 200-116.
- Cellitti, Raymond A., and D. E. Polacek, to International Harvester Co. Fork lift vehicle weighing scale. 2,935,213, 5-3-60, Cl. 214-2.
- Cellulastic Corp.: *See*—
- Lynn, Edwin W. 2,925,815.
- Celon Co., The: *See*—
- Holoubek, George H., and Harms. 2,953,819.
  - Owens, Howard V. 2,954,139.
- Celotex Corp., The: *See*—
- Boarini, Edward J. 2,959,898.
  - Bush, Arthur B., Jr., and Weil. 2,944,930.
  - Loechl, Clarence J. 2,965,528.
  - Muench, Carl G. 2,937,614.
- Celso, Robert J.: *See*—
- Della, Anthony B., and Celso. 2,953,663.
- Cemam-Conord, Societe Anonyme: *See*—
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- Cementi Elba Societa per Azioni (C.E.S.A.): *See*—
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- Centa, Joseph, Jr. Wheeled support for garbage can or the like. 2,960,347, 11-15-60, Cl. 280-47.26.
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- Wier, Arthur H. 2,950,638.
- Central Contra Costa Sanitary District: *See*—
- Hinkson, Robert H., and Hopkins. 2,936,775.
- Central Fibre Products Co.: *See*—
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- Hyde, David F. 2,966,175.
  - Jankowski, Conrad M. 2,930,747.
  - Labbe, Robert F. 2,951,684.
  - Picard, Robert G., and Le Blanc. 2,941,099.
  - Reynolds, Manning S. 2,923,158.
  - Reynolds, Manning S., and Nakata. 2,963,898.
- Central Soya Co., Inc.: *See*—
- Kruse, Norman F. 2,928,738.
  - Kruse, Norman F. 2,947,632.
  - Kruse, Norman F. 2,952,540.
  - Kruse, Norman F., and Cravens. 2,924,525.
  - Witte, Norman H., and Sipos. 2,929,714.
- Central Stamping & Mfg. Co.: *See*—
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- Stedman, James A., and Marshall. 2,957,248.
- Central Transformer Corp.: *See*—
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  - Smith, George A. 2,936,433.
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- Central States Paper & Bag Co.: *See*—
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- White, Geoffrey R. 2,956,377.
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- Joisel, Albert. 2,937,814.
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  - Fourestier, Max, J. and H. Vulmiere, and Gladu. 2,932,294.
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  - Guillaud, Charles. 2,960,472.
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- Campbell, Charles L. 2,925,884.
  - Campbell, Charles L. 2,929,465.
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- Century Die & Mfg. Co.: *See*—
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- Cenzato, Lorenzo, to E. I. du Pont de Nemours and Co. Process for producing shaped articles using sonic vibrations to enhance solidification. 2,954,271, 9-27-60, Cl. 18-54.
- Cerberus G.m.b.H.: *See*—
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- Cerofolini, Gabriello F., to Automatic Electric Laboratories, Inc. Negative impedance repeater. 2,963,558, 12-6-60, Cl. 179-170.
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- Rintoul, Harry A., and Cerulli. 2,944,432.
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- Meister, George, and Cerulli. 2,921,827.
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- Cervinka, Anthony, to Bata Shoe Co. of Canada Ltd. Automatic mould carriers. 2,960,211, 11-15-60, Cl. 198-177.
- Cervinka, Anthony, to Bata Shoe Co. of Canada Ltd. Storage and deaeration of viscous liquid material. 2,966,230, 12-27-60, Cl. 183-2.5.



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- Cetran, Louis, and R. H. Arthur, to Royal McBee Corp. Terminal block connector assembly. 2,925,577, 2-16-60, Cl. 339—198.
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- Chabrier de Lassauniere, Pierre E.: *See*—  
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- Chace, Richard A., to Tog-Loc, Inc. Self-centering mid-stroke securing device. 2,949,890, 8-23-60, Cl. 121—40.
- Chace, Thomas B., to The Dole Valve Co. Valves and bodies therefor. 2,934,088, 4-26-60, Cl. 137—605.
- Chace, Thomas B. Method of making clad metal cooking utensils. 2,941,289, 6-21-60, Cl. 29—544.
- Chadbourne, William H., to The Danielson Mfg. Co. Pulley. 2,924,431, 2-9-60, Cl. 254—192.
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- Chadowski, Joseph P., to New-Tronics Corp. Replacement antenna staff assembly or unit. 2,944,847, 7-12-60, Cl. 287—117.
- Chadowski, Joseph P., to New-Tronics Corp. Automobile antenna. 2,946,842, 7-26-60, Cl. 174—153.
- Chadowski, Joseph P., to New-Tronics Corp. Automobile antenna. 2,965,340, 12-20-60, Cl. 248—43.
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- Chadwick, Joseph H., Jr.: *See*—  
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- Chadwick, Joseph H., Jr., and J. Bentkowsky, to Sperry Rand Corp. Roll stabilization system for marine vessels. 2,960,959, 11-22-60, Cl. 114—126.
- Chadwick, Robert A., to The Thomas & Betts Co. Method of assembling terminal connectors. 2,963,775, 12-13-60, Cl. 29—155.55.
- Chadwick, Robert A., to The Thomas & Betts Co. Strip connectors. 2,964,171, 12-13-60, Cl. 206—56.
- Chafetz, Harry, to Texaco Inc. Dibasic acid treating process. 2,961,462, 11-22-60, Cl. 260—539.
- Chafetz, Harry, E. E. Schallenberg, J. T. Nolan, and J. A. Patterson, to Texaco Inc. Purification of dibasic acids. 2,962,527, 11-29-60, Cl. 260—537.
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- Chaffee, Emory L., to J. H. Hammond, Jr. Ground survey system. 2,932,021, 4-5-60, Cl. 343—15.
- Chaffee, Floyd L. Watercraft. 2,940,409, 6-14-60, Cl. 114—66.5.
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- Chalet, Louis, to Merck & Co., Inc. Method of fermenting meat products and composition therefor. 2,945,766, 7-19-60, Cl. 99—107.
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- Chakerian, Ralph, and H. E. Stevens, to Bird Electronic Corp. Peak wattmeter. 2,929,993, 3-22-60, Cl. 324—103.
- Chalkley, Lyman. Photoactivation of aminotriarylmethane dye cyanides. 2,936,235, 5-10-60, Cl. 96—85.
- Chalkley, Lyman. Photochemical compositions and processes utilizing salts of para-amino triphenylacetonitriles. 2,936,276, 5-10-60, Cl. 204—158.
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- Chall, Harold J., to Friden, Inc. Symbol printing mechanism. 2,954,922, 10-4-60, Cl. 235—60.18.
- Chall, Harold J., and A. J. Malavazos, to Friden, Inc. Selection mechanism for ten-key multiplier control unit. 2,935,253, 5-3-60, Cl. 235—63.
- Challacombe, Carl N., E. F. Mayer, and D. D. Wiley, to Elgin National Watch Co. Electromotive vibrator and oscillator systems. 2,959,747, 11-8-60, Cl. 331—156.
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- Chamberlain, George, and M. P. Nashman, to International Telephone and Telegraph Corp. Waveguide coupling. 2,928,059, 3-8-60, Cl. 333—98.
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- Chamberlain, Ralph J., to American Cyanamid Co. Chlorinated melamine cyanurate. 2,929,816, 3-22-60, Cl. 260—249.6.
- Chamberlin, Catherine D. Child's coloring apparatus. 2,932,906, 4-19-60, Cl. 35—26.
- Chamberlin, Charles P.,  $\frac{1}{4}$  to A. Severs. Cabinet door control. 2,935,035, 5-3-60, Cl. 109—63.5.
- Chamberlin, Coleman R. Self adhesive label holder. 2,952,087, 9-13-60, Cl. 40—16.
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- Chamberlin, Earl M., and J. M. Chmerda, to Merck & Co., Inc. 3-acloxy-7,11-diketo-cyclopentanophenanthrene compounds. 2,931,807, 4-5-60, Cl. 260—239.55.
- Chamberlin, Earl M., and T. Utne, to Merck & Co., Inc. Preparation of A9(11)-anhydro steroids. 2,946,811, 7-26-60, Cl. 260—397.45.
- Chamberlin, George E., and R. G. Knutson, to Minnesota and Ontario Paper Co. Process for the manufacture of primer coated fiber board. 2,928,129, 3-15-60, Cl. 18—47.5.
- Chamberlin, Harry C. Magnetic tape sound reproducing musical instrument. 2,940,351, 6-14-60, Cl. 84—1.28.



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- Chamberlin, Reginald H. D., to D. Napier & Son Ltd. Control apparatus for helicopter power units. 2,926,732, 3-1-60, Cl. 170-135.22.
- Chamberlin, Reginald H. D., to D. Napier & Son Ltd. Combustion turbines and their installation in aircraft. 2,937,703, 5-24-60, Cl. 170-135.7.
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- Chambers, Edmund S., A. A. Garren, D. O. Kippenhan, W. A. S. and R. J. Riddell, Jr., to United States of America, Atomic Energy Commission. Apparatus for heating ions. 2,920,236, 1-5-60, Cl. 315-111.
- Chambers, Frank H., and G. B. Moats, to Technical Rubber Co., Inc. Plug-type repair for tires. 2,966,189, 12-27-60, Cl. 152-370.
- Chambers, Giles E. Transportation equipment. 2,965,046, 12-20-60, Cl. 105-215.
- Chambers, Herbert L., A. W. Fischer, K. E. Sihvoen, and G. P. Wilson, to Consolidated Electrodynamics Corp. Oscillograph apparatus. 2,931,690, 4-5-60, Cl. 346-74.
- Chambers, Herbert L., and K. E. Sihvoen, to Consolidated Electrodynamics Corp. Apparatus for recording on electro-sensitive paper. 2,963,336, 12-6-60, Cl. 346-74.
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- Chambers, Steven. Device for safely administering poison to insects, rodents and the like. 2,953,868, 9-27-60, Cl. 43-131.
- Chambers, Thomas R. Plane blade grinding jig. 2,938,311, 5-31-60, Cl. 51-221.
- Chambers, Torrence H. Transducer mounting. 2,934,661, 4-26-60, Cl. 310-9.4.
- Chambers, William M. and J. W., to Electro-Way Corp. Valve. 2,934,314, 4-26-60, Cl. 251-331.
- Chambers, William W., to Robertshaw-Fulton Controls Co. Thermostatically controlled valves. 2,926,854, 3-1-60, Cl. 236-102.
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- Chamot, Walter M., to Nalco Chemical Co. Corrosion inhibitor composition and method of preventing corrosion. 2,957,824, 10-25-60, Cl. 252-8.55.
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- Chance, Britton, and D. T. Griggs, to United States of America, Navy. Method of and means for guiding missiles. 2,950,880, 8-30-60, Cl. 244-14.
- Chance, Richard F. Electrical measuring network. 2,942,183, 6-21-60, Cl. 324-62.
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- Chandler, Arthur B. Apparatus for the collection and testing of blood. 2,952,258, 9-13-60, Cl. 128-276.
- Chandler, Carroll F., to Admiral Corp. Field recognition apparatus. 2,935,560, 5-3-60, Cl. 178-7.3.
- Chandler, Carroll F., to Admiral Corp. Color killer apparatus for television receivers. 2,941,031, 6-14-60, Cl. 178-5.4.
- Chandler, Charles H., to Radio Corp. of America. Amplitude-stabilized sweep generator. 2,924,707, 2-9-60, Cl. 250-27.
- Chandler, Clark. Work clamps. 2,952,283, 9-13-60, Cl. 144-304.
- Chandler, Clifford E. Mine cage safety device. 2,925,151, 2-16-60, Cl. 187-85.
- Chandler, Edward F. Rocket projectile construction. 2,926,608, 3-1-60, Cl. 102-49.
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- Chandler, Roy L., and C. B. Ogle, Jr., to Atlas Scraper and Engineering Co. Roll-over actuator for two-way plow. 2,929,456, 3-22-60, Cl. 172-226.
- Chandler, Walter, to The Plessey Co. Ltd. Improvements in or relating to terminal fittings for the ends of wires or the like. 2,952,832, 9-13-60, Cl. 339-100.
- Chaney, Donal W., to Converto Mfg. Co., Inc. Truck body construction. 2,945,721, 7-19-60, Cl. 296-28.
- Chaney, Donal W., to Converto Mfg. Co., Inc. Tractor-trailer dumping mechanism. 2,953,410, 9-20-60, Cl. 298-22.
- Chaney, John F. Automatic lubricator for rotary elements. 2,956,455, 10-18-60, Cl. 77-55.
- Chang, Hung C.: See—
- Kroko, Leonard J., and Chang. 2,937,323.
- Chang, Hung-Chi, to Westinghouse Electric Corp. Method of preparing material for semiconductor applications. 2,921,905, 1-19-60, Cl. 252-62.3.
- Chang, Kern K. N., to Radio Corp. of America. Electron beam tube. 2,945,153, 7-12-60, Cl. 315-3.5.
- Chang, Kern K. N., to Radio Corp. of America. High efficiency traveling wave tubes. 2,964,671, 12-13-60, Cl. 315-3.6.
- Chang, Robert W. H.: See—
- Barker, Norval G., and Chang. 2,946,780.
- Chang, Robert W. H., and F. L. Moyer, to General Mills, Inc. Salts of basic amino acids and linoleic acid. 2,945,049, 7-12-60, Cl. 260-404.
- Chang, Stephen S., F. L. De Vore, and M. A. Friedman, to Swift & Co. Shortening emulsifiers and method of using same. 2,966,410, 12-27-60, Cl. 99-118.
- Chang, Stephen S., and P. E. Mone, to Swift & Co. Stabilization of fats and oils. 2,966,413, 12-27-60, Cl. 99-163.
- Changewood Corp.: See—
- Clark, James d'A. 2,949,646.
- Lambert, Robert D. 2,931,401.
- Chanko, Mortimer L., to Educational Products, Inc. Batting practice device. 2,955,823, 10-11-60, Cl. 273-26.
- Chanko, Mortimer L., to Educational Products, Inc. Batting practice device. 2,955,824, 10-11-60, Cl. 273-26.
- Channel Master Corp.: See—
- Anderson, Warner H. 2,921,310.
- Green, Julius. 2,942,259.
- Channell, Charles A., to American-Marietta Co., O'Cedar Division. Sponge mop. 2,940,101, 6-14-60, Cl. 15-119.
- Channell, Charles A., to American-Marietta Co., O'Cedar Division. Self-wringing sponge mop. 2,943,340, 7-5-60, Cl. 15-119.
- Channing, Charles E.: See—
- Darrell, George H., and Channing. 2,919,491.
- Channing Corp.: See—
- McCloskey, Albert R. 2,929,131.
- Chanut, Laurent U., and G. R. Dardy, to Commissariat a l'Energie Atomique. Systems for handling articles inside a fuidget chamber. 2,932,413, 4-12-60, Cl. 214-16.
- Chao, Stanley K., to Baird-Atomic, Inc. Reversible counting tube system. 2,966,613, 12-27-60, Cl. 315-84.6.
- Chao, Stanley K., and H. F. Stoddart, to Baird-Atomic, Inc. Counting tube read out system. 2,937,318, 5-17-60, Cl. 315-84.6.
- Chapellier, Robert A., to United States of America, Atomic Energy Commission. Control rod drive. 2,937,984, 5-24-60, Cl. 204-193.2.
- Chaperon, Remy: See—
- Huber, Kurt, Chaperon, and Kern. 2,956,936.



- Chapin, Earl C., to Monsanto Chemical Co. Cross-linked styrene-allyl alcohol copolymers as binders for fibrous fillers and structural units manufactured therefrom. 2,961,423, 11-22-60, Cl. 260-41.
- Chapin, Earl C., and R. F. Smith, to Monsanto Chemical Co. Aliphatic ester group and hydroxyl group containing interpolymers. 2,945,835, 7-19-60, Cl. 260-43.
- Chapin, Earl C., and M. E. Murphy. Metal salts complexed vinylidene aromatic-aldehyde copolymers. 2,950,264, 8-23-60, Cl. 260-23.
- Chapin, Earl C., and W. P. Sanford, to Monsanto Chemical Co. Rubbery diene terpolymers. 2,950,270, 8-23-60, Cl. 260-80.7.
- Chapin, Earl C., and R. F. Smith, to Monsanto Chemical Co. Terpolymer systems containing carboxyl groups and hydroxyl groups. 2,957,853, 10-25-60, Cl. 260-80.5.
- Chapin, Earl C., and R. F. Smith, to Monsanto Chemical Co. Coating compositions. 2,962,460, 11-29-60, Cl. 260-21.
- Chapin, Earl C., R. H. Reinhard, and W. F. Yates, to Monsanto Chemical Co. Thermosettable interpolymers containing hydroxyl groups. 2,962,462, 11-29-60, Cl. 260-23.7.
- Chapin, Edward A.: *See—*
- Chaplin, Albin, and Chapin. 2,956,642.
- Chapin, Robert F.: *See—*
- Bushnell, David P., and Chapin. 2,933,992.
- Chaplick, Adolph M.: *See—*
- Roop, Cyril W., Rossitto, and Chaplick. 2,957,207.
- Chaplik, Rubin, and J. J. Shelley. Machine for making and flaking ice. 2,962,877, 12-6-60, Cl. 62-320.
- Chaplin, Albin, and E. A. Chapin, to General Motors Corp. Camshaft and bearing lubricating means. 2,956,642, 10-18-60, Cl. 184-6.
- Chaplin-Fulton Mfg. Co., The: *See—*
- Loftink, Joseph P. 2,950,739.
- Loftink, Raymond P. 2,921,603.
- Chaplin, George B. B.: *See—*
- White, Roger B., and Chaplin. 2,957,595.
- Williams, Frederic C., and Chaplin. 2,937,288.
- Chaplin, George B. B., to The United Kingdom Atomic Energy Authority, Patents Branch. Transistor circuit. 2,939,047, 5-31-60, Cl. 315-84.6.
- Chaplin, Merle P., to Diamond National Corp. Pulp molding machine. 2,925,863, 2-23-60, Cl. 162-391.
- Chaplin, Merle P., to Diamond National Corp. Apparatus for making molded pulp articles. 2,938,582, 5-31-60, Cl. 162-392.
- Chaplin, Oliver F., to Crown Zellerbach Corp. Folded paper products and dispenser therefor. 2,923,435, 2-2-60, Cl. 221-47.
- Chapman Brothers: *See—*
- Richards, Lawrence R. 2,939,975.
- Chapman Chemical Co.: *See—*
- King, Robert G. 2,930,414.
- Chapman, Christopher L. C., and P. J. Skinner, to Yardney International Corp. Alkaline electric cells. 2,945,078, 7-12-60, Cl. 136-20.
- Chapman, Christopher L. C., and A. Howard, to Yardney International Corp. Method of making battery separators. 2,945,080, 7-12-60, Cl. 136-148.
- Chapman, Donald J.: *See—*
- Siccama, Nicholas B., and Wirbelauer. 2,948,657.
- Chapman, Edward C., to Combustion Engineering, Inc. Joining tubes to tube sheets. 2,966,340, 12-27-60, Cl. 257-236.
- Chapman, Edward L.: *See—*
- Statia, Edwin V., Sr. 2,926,463.
- Chapman, Eugene S. Device for removing frictional caps from containers. 2,961,902, 11-29-60, Cl. 81-34.6.
- Chapman, Florence M. Rubber finger shield. 2,935,354, 5-3-60, Cl. 294-25.
- Chapman, Frederick W., to General Motors Corp. Radiation detector. 2,957,081, 10-18-60, Cl. 250-83.3.
- Chapman, George C., to Owens-Illinois Glass Co. Method and apparatus for forming projections on glass surfaces. 2,950,569, 8-30-60, Cl. 49-7.
- Chapman, Harvey A., C. H. Whitmore, and R. L. Crane, to Continental Machines, Inc. Saw band guide. 2,934,106, 4-26-60, Cl. 143-160.
- Chapman, Harvey W., H. L. Dunlap, and R. M. Krokos, to Evans Products Co. Bicycle wheel suspension. 2,932,530, 4-12-60, Cl. 280-276.
- Chapman, Harvey W., and H. L. Dunlap, to Evans Products Co. Portable trolley track and trolley assembly. 2,947,262, 8-2-60, Cl. 104-111.
- Chapman, Harvey W., H. L. Dunlap, and W. T. Rigney, to Evans Products Co. Freight shipping device. 2,956,517, 10-18-60, Cl. 105-368.
- Chapman, Jack A. Kite. 2,943,829, 7-5-60, Cl. 244-153.
- Chapman, James, and R. L. McGinty, to Imperial Chemical Industries Ltd. Process for the preparation of bromochlorofluoroethanes. 2,921,099, 1-12-60, Cl. 260-653.7.
- Chapman, James R., Jr.: *See—*
- Barnes, Charles M., Chapman, Jr., and Lewis. 2,959,190.
- Chapman, James R., and O. R. Weber, to Reynolds Metals Co. Method and apparatus for vacuum sealing packages and the like. 2,953,877, 9-27-60, Cl. 53-22.
- Chapman, Joan: *See—*
- Blackman, Toby and Chapman. 2,923,550.
- Chapman, Otto C., and A. W. Dean, to Virginia-Carolina Chemical Corp. Process of deoiling phosphate concentrate by means of immiscible liquids. 2,927,691, 3-8-60, Cl. 209-166.
- Chapman, Paul R.: *See—*
- Bowden, John N., and Chapman. 2,939,843.
- Chapman, Ralph, to Wood Processes (Oregon) Ltd. Method of manufacturing a composite board product. 2,947,654, 8-2-60, Cl. 154-100.
- Chapman, Ralph W. Soil-molding frame. 2,942,823, 6-28-60, Cl. 248-97.
- Chapman, Ronald W.: *See—*
- Dille, Roger M., and Chapman. 2,963,355.
- Dille, Roger M., Chapman, and Eastman. 2,920,936.
- Eastman, Du Bois, Dille, and Chapman. 2,960,476.
- Chapman, Ronald W., and R. M. Dille, to Texaco Inc. Preventing scale formation in rotary feeding processes by means of a mixture of alkali hydroxide and carbonate. 2,924,515, 2-9-60, Cl. 48-206.
- Chapman Valve Mfg. Co., The: *See—*
- Low, Sidney, and Powell. 2,949,320.
- Chapman, Walter R.: *See—*
- Noon, T. Cyril, and Chapman. 2,925,242.
- Noon, T. Cyril, and Chapman. 2,956,578.
- Chapman, Wilbur F., and J. N. Cosby, to Allied Chemical Corp. Process for increasing the emulsifiability of a polyethylene/isopropanol telomer wax. 2,928,816, 3-15-60, Cl. 260-94.9.
- Chapman, Wilbur F., and J. Pisanchyn, to Allied Chemical Corp. Wax emulsion polish. 2,964,487, 12-13-60, Cl. 260-23.
- Chapman, William C. Seats. 2,942,652, 6-28-60, Cl. 155-178.
- Chapou, Yves. Mixing cock. 2,934,091, 4-26-60, Cl. 137-628.
- Chapoux, Edouard, to Indufi S.A. de Participations. Torque limiting device. 2,942,441, 6-28-60, Cl. 64-29.
- Chappay, Gaston, and J. Boes. Mediator. 2,962,023, 11-29-60, Cl. 128-260.
- Chappel, C. Eugene, and W. A. Barnes, to Kelsey-Hayes Co. Wire twisting tool. 2,964,069, 12-13-60, Cl. 140-119.
- Chappel, Frank A.: *See—*
- Hodsmen, George F., and Chappell. 2,950,099.
- Chappell, Frank L.: *See—*
- Heathfield, Patrick E. H., Gow, and Richardson. 2,928,778.
- Chappel, Story F. Wrist watch strap. 2,958,449, 11-1-60, Cl. 224-4.
- Chappelle, Homer T. Compound piston hydraulic pump. 2,959,132, 11-8-60, Cl. 103-44.
- Chappey, Marc A.: *See—*
- Marzin, Charles C., Chappey, and Lucas. 2,951,907.
- Chapuis, Henri: *See—*
- Colombu, Eugene, and Chapuis. 2,954,249.
- Charbin, Roger M. Pile fabrics. 2,958,344, 11-1-60, Cl. 139-397.
- Charbonneau, Gilbert W. Automatic gas cut off valve. 2,962,044, 11-29-60, Cl. 137-456.
- Charbonnages de France: *See—*
- Belugou, Pierre, and Condolios. 2,946,438.
- Condolios, Elie, and Belugou. 2,946,439.
- Charbonneau, Eddy L.: *See—*
- Duperron, Leo J., Ross, and Charbonneau. 2,937,673.
- Charbonneau, John H. G. Multiple syrup dispenser. 2,959,330, 11-8-60, Cl. 222-181.
- Charbonnel, Maxine J. A., to Societe Technique et Commerciale d'Installations Industrielles "Luceat." Pipe blind, more particularly for hydrocarbon pipelines. 2,965,353, 12-20-60, Cl. 251-158.
- Charcuset, Raymond, and J. Moyrand, to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. Device for filling containers with predetermined quantities of materials. 2,931,614, 4-5-60, Cl. 249-64.
- Chare, Jean: *See—*
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- Charewicz, Francis J.: *See—*
- Snell, James H., Jr., Charewicz, and Lucek. 2,959,704.
- Charlie, Harry J., and J. P. Savage, to Thomas J. Lipton, Inc. Food compositions. 2,927,861, 3-8-60, Cl. 99-139.
- Charlie, Roger, and C. Pigerol, to Societe Anonyme dite: Societe Monsavon-L'Oreal. Process of dyeing hair with 5,6 dihydroxyindole. 2,934,396, 4-26-60, Cl. 8-11.
- Charlie, Roger, R. Ritter, and G. Kalopissis, to Societe Anonyme dite Societe Monsavon-L'Oreal. Methylsilyl mercaptoacetates and their use in treating hair. 2,944,942, 7-12-60, Cl. 167-87.1.
- Charles, Daniel, and M. Soulet, to Compagnie Generale de Telegraphie Sans Fil. Permanent magnet construction. 2,952,803, 9-13-60, Cl. 317-201.
- Charles, Geoffrey R. S., to Chelton (Poppits) Ltd. Ornamental beads. 2,942,318, 6-28-60, Cl. 24-213.
- Charlesworth, John A.: *See—*
- Sauter, Erwin R., McDonald, and Charlesworth. 2,944,988.
- Charlesworth, Thomas R., to Laycock Engineering Ltd. Universal joints. 2,949,021, 8-16-60, Cl. 64-11.
- Charlet, Elphege M.: *See—*
- Aldridge, Clyde L., and Charlet. 2,933,468.
- Forrester, John S., and Charlet. 2,923,823.
- Charlet, Elphege M., and A. B. Small, to Eosso Research and Engineering Co. Two-step creaming process for the preparation of emulsion latices from hydrocarbon polymer. 2,947,715, 8-2-60, Cl. 260-29.6.
- Charlotte, Hubert F. Cathode ray tube screens. 2,939,812, 6-7-60, Cl. 154-80.



- Charlson, Lynn L., to Germane Corp. Rotary valve for power steering mechanism. 2,939,429, 6-7-60, Cl. 121-41.
- Charlton, Alexander E., to Photoceramics, Inc. Photographic stencil negatives or positive. 2,942,972, 6-28-60, Cl. 96-27.
- Charlton, Philip, to Motor Specialties Ltd. Apparatus for expanding metals with curved surfaces such as pistons. 2,945,405, 7-19-60, Cl. 78-13.1.
- Charney, William, to Schering Corp. Process for the manufacture of  $\Delta 14$ -steroids. 2,951,016, 8-30-60, Cl. 195-51.
- Charney, William, H. L. Herzog, and D. Sutter, to Schering Corp. Hydroxylated steroids and methods for their manufacture using bacillus megatherium. 2,958,631, 11-1-60, Cl. 195-51.
- Charon, Clarence W.: *See*—  
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- Charret, Edouard J.-F. Materials for cleansing the hair. 2,927,901, 3-8-60, Cl. 252-153.
- Charret, Edouard J.-F., to Societe Monsaron-L'Oreal (Societe Anonyme). Hair cleansing composition. 2,930,761, 3-29-60, Cl. 252-152.
- Charron, Armand G., to Texas Instruments Inc. Method and apparatus for coating disks. 2,952,557, 9-13-60, Cl. 117-4.
- Charron, Arthur A., to Embart Mfg. Co. Notching press with work indexing means and tool disabling means. 2,956,464, 10-18-60, Cl. 83-257.
- Charrues Melotte, Societe Anonyme: *See*—  
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- Charske, Charles J., and C. L. Hubbard, to Jersey Production Research Co. Seismic velocity well logging apparatus. 2,938,592, 5-31-60, Cl. 181-5.
- Chartier, Arthur G.: *See*—  
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- Chartier, Raymond A.: *See*—  
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- Charton, Jean C., to Societe Genevoise d'Instruments de Physique. Machine-tool provided with means for illuminating the tool. 2,926,236, 2-23-60, Cl. 240-2.
- Chart-Pak, Inc.: *See*—  
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- Chartrand, Carlton F., and K. R. Stadthaus, to General Electric Co. Control for wheel rolling machine. 2,932,223, 4-12-60, Cl. 80-16.
- Chase, Carlton E., to General Electric Co. High temperature silicone rubber heating cable. 2,935,719, 5-3-60, Cl. 338-330.
- Chase Chemical Co.: *See*—  
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- Chase, Corson W.: *See*—  
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- Chase, Corson W., W. J. Jasnowski, and A. V. Pedersen, to Miehle-Goss-Dexter, Inc. Web splicing apparatus. 2,963-234, 12-6-60, Cl. 242-58.3.
- Chase, George C., to Monroe Calculating Machine Co. Sign signal mechanism. 2,940,668, 6-14-60, Cl. 235-133.
- Chase, Geoffrey S. Means for producing a plaster or like cast. 2,948,017, 8-9-60, Cl. 18-5.7.
- Chase, Henry V., Jr., J. C. Foster, and D. F. Jornlin, to Hercules Powder Co. Metal end for explosive cartridge and cartridge containing same. 2,953,093, 9-20-60, Cl. 102-24.
- Chase, Kenneth J. Signal device for food package. 2,951,764, 9-6-60, Cl. 99-192.
- Chase, Lyle O., to M. C. Richardson. Bush bean harvester. 2,938,325, 5-31-60, Cl. 56-130.
- Chase, Marston. Door latch lever. 2,942,909, 6-28-60, Cl. 292-347.
- Chase Manhattan Bank, The: *See*—  
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- Chase-Shawmut Co., The: *See*—  
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- Edsall, William S. 2,965,809.
- Jacobs, Philip C., and Kozacka. 2,920,241.
- Jacobs, Philip C., Jr., and Kozacka. 2,964,604.
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- Kozacka, Frederick J. 2,939,935.
- Kozacka, Frederick J. 2,961,593.
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- Swain, Kenneth W. 2,921,250.
- Chase, Thomas W., to Minneapolis-Honeywell Regulator Co. Automatic condition control apparatus. 2,957,654, 10-25-60, Cl. 244-77.
- Chastel, Jacques: *See*—  
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- Chastenev, Ruth G., and S. Paukstela. Partition structure. 2,945,568, 7-19-60, Cl. 189-34.
- Chatfield, Herbert W., to A. Boake, Robert & Co. Ltd. Inhibiting corrosion in metals. 2,930,708, 3-29-60, Cl. 106-14.
- Chatt, Joseph, F. A. Hart, and H. C. Fielding, to Imperial Chemical Industries Ltd. O-phenylene-bis-(dialkylphosphines). 2,922,819, 1-26-60, Cl. 260-606.5.
- Chattanooga Medicine Co., The: *See*—  
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- Zimmer, Hans W. 2,950,280.
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- Zimmer, Hans W. 2,950,294.
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- Zimmer, Hans W. 2,957,012.
- Zimmer, Hans W. 2,962,511.
- Chattanooga Welding & Machine Co., Inc.: *See*—  
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- Chatten, John B., to Philco Corp. Apparatus for improving reproduced color television images. 2,938,169, 5-24-60, Cl. 328-169.
- Chatten, Victor H., to Anheuser-Busch, Inc. Apparatus for metal forming using explosive pressures. 2,935,038, 5-3-60, Cl. 113-44.
- Chatten, Victor H., to Anheuser-Busch, Inc. Dispenser for carbonated beverages. 2,936,100, 5-10-60, Cl. 222-396.
- Chatterton, Robert T., to American Can Co. Applicator drip-page control device. 2,960,060, 11-15-60, Cl. 118-24.
- Chattin, Robert C. Power take-off mechanism. 2,940,534, 6-14-60, Cl. 180-53.
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- Chaudon, Maurice V. Needle device for medial injections and blood transfusions. 2,941,529, 6-21-60, Cl. 128-215.
- Chaudron, Georges: *See*—  
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- Chausse, Burnette P., to General Electric Co. Field current regulating system. 2,930,960, 3-29-60, Cl. 318-350.
- Chausson, Andre, to Societe Anonyme des Usines Chausson. Electromagnetically energized mechanism. 2,935,629, 5-3-60, Cl. 310-27.
- Chausson, Andre, to Societe Anonyme des Usines Chausson. Equipment for cooling various fluids and more particularly air in aircraft flying at high speed. 2,944,409, 7-12-60, Cl. 62-169.
- Chausson, Andre, to Societe Anonyme des Usines Chausson. Method and apparatus for cooling various fluids and more particularly the air in aircraft flying at high speed. 2,947,154, 8-2-60, Cl. 62-169.
- Chautauqua Hardware Corp.: *See*—  
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- Chavannes, Marc A., 30% to M. J. Fellner. Sheet material perforation. 2,924,863, 2-16-60, Cl. 22-203.
- Chauvin, Bernard, to Westinghouse Electric Corp. Apparatus for sealing off vessels. 2,940,231, 6-14-60, Cl. 53-91.
- Chauvin, Bernard, and J. E. Mills, to Westinghouse Electric Corp. Packing apparatus and method. 2,956,381, 10-18-60, Cl. 53-26.
- Chauvineau, Jean E.: *See*—  
Legay, Andre C., and Chauvineau. 2,940,014.
- Chauvineau, Jean E., to F. Alexander. Electronic flash lighting system. 2,953,721, 9-20-60, Cl. 315-241.
- Chayen, Israel H., to C.C.D. Processes (N.Y.) Ltd. Synthetic protein-lipid complex and a method of making the same from raw vegetable materials. 2,928,821, 3-15-60, Cl. 260-112.
- Chayne, Charles A., to General Motors Corp. Transmission selector control. 2,929,261, 3-22-60, Cl. 74-484.
- Chebuhar, Charles J., to Continental Can Co., Inc. Magnetic can body conveying and turning mechanism. 2,940,581, 6-14-60, Cl. 198-33.
- Check, Mathias M., to The Yale & Towne Mfg. Co. Combination padlock. 2,931,203, 4-5-60, Cl. 70-21.
- Check, Mathias M., to The Yale & Towne Mfg. Co. Combination padlock. 2,931,204, 4-5-60, Cl. 70-21.
- Check, Mathias M., to The Yale & Towne Mfg. Co. Luggage lock. 2,938,371, 5-31-60, Cl. 70-75.
- Check, Mathias M., to The Yale & Towne Mfg. Co. Automatic throw-off for screen door latches. 2,950,137, 8-23-60, Cl. 292-228.
- Check, Mathias M., to The Yale & Towne Mfg. Co. Sliding door lock. 2,956,428, 10-18-60, Cl. 70-100.
- Check, Mathias M., to The Yale & Towne Mfg. Co. Strike. 2,964,346, 12-13-60, Cl. 292-340.
- Check-All Valve Co.: *See*—  
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- Cheehe, Raymond J.: *See*—  
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- Cheeley, William E., to Reynolds Metals Co. Expendible shipping container and baking pan. 2,960,218, 11-15-60, Cl. 206-47.
- Cheeseman, Herbert L.: *See*—  
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- Cheeseman, Herbert L., to General Electric Co. Combustion chamber. 2,933,895, 4-26-60, Cl. 60-39.69.
- Cheeseman, Leslie H., to Addressograph-Multigraph Corp. Printing and retaining device. 2,944,483, 7-12-60, Cl. 101-368.
- Cheln, J. & Co.: *See*—  
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- Cheli, Francis J., to Bulova Watch Co., Inc. Crystal ovens. 2,938,099, 5-24-60, Cl. 219-19.
- Chellev, Norman R.: *See*—  
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- Chellstorp, Robert A. Archer's arrow nock and finger grip. 2,936,749, 5-17-60, Cl. 124-35.
- Chelton (Poppits) Ltd.: *See*—  
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- Sanderson, William T. 2,947,053.
- Chemagro Corp.: *See*—  
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- Chemex, Inc.: *See*—  
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- Chemerda, John M.: *See*—  
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Christensen, Burton G., Chemerda, and Hirschmann. 2,941,996.
- Chemerda, John M., and E. F. Schoenewaldt, to Merck & Co., Inc. Process of reducing  $\Delta^8$ -11-keto-steroids. 2,923,708, 2-2-60, Cl. 260—239.55.
- Chemerda, John M., and A. E. Erickson, to Merck & Co., Inc. Steroid delta 1,4,6-steroid triene-3-ones and processes of preparing them. 2,933,509, 4-19-60, Cl. 260—397.2.
- Chemerda, John M., R. J. Tull, and J. F. Fisher, to Merck & Co., Inc. Synthesis of steroid phosphates. 2,939,873, 6-7-60, Cl. 260—397.45.
- Chemerda, John M., R. F. Hirschmann, and N. G. Steinberg, to Merck & Co., Inc.  $C^{14}$  cortical steroids and methods of preparing same. 2,951,074, 8-30-60, Cl. 260—239.55.
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- Chemicals Corp.: *See*—  
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- Chemetron Corp.: *See*—  
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Bottoms, Robert R. 2,963,512.  
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- Chemical Construction Corp.: *See*—  
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- Chemical and Industrial Corp., The: *See*—  
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- Chemical Process Co.: *See*—  
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- Chemical Sealing Corp.: *See*—  
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- Chemie und Metall Handelsgesellschaft mit beschränkter Haftung: *See*—  
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- Chemische Fabrik L. van der Grinten N.V.: *See*—  
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- Chemische Fabrik Promonta G.m.b.H.: *See*—  
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- Chemische Werke Albert: *See*—  
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- Chemische Werke Huls Aktiengesellschaft: *See*—  
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Dietrich, Wilhelm, Mertens, and Wetter. 2,925,386.  
Gumlich, Walter, Sprock, and Mönkemeyer. 2,941,982.  
Kalenda, Helmut. 2,932,663.  
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Weber, Heinrich, Paul, and Reimold. 2,930,783.  
Weber, Heinrich, Strache, Broich, Franke, and Klepert. 2,935,501.  
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- Chemische Werke Witten Gesellschaft mit beschränkter Haftung: *See*—  
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- Chempel Inc.: *See*—  
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- Chemplate Corp.: *See*—  
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Ballentine, James B. 2,952,664.  
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Bray, John R., and McGlaughlin. 2,958,008.  
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Bromley, James E. 2,937,489.  
Bromley, James E. 2,952,115.  
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Carter, Walter C., and Smith. 2,952,505.  
Craig, Alfred B. 2,941,970.  
Dellis, Dimitri D. 2,952,506.  
De Witt, Hobson D. 2,941,972.  
De Witt, Hobson D. 2,941,984.  
De Witt, Hobson D. 2,956,986.  
De Witt, Hobson D., and Beindorff. 2,956,974.  
De Witt, Hobson D., and Hobson. 2,946,760.  
Goodwin, Chester H. 2,952,033.  
Goodwin, Chester H., and McKelvy. 2,952,045.  
Gundlach, Karl W. 2,924,001.  
Ham, George E. 2,949,483.  
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- Chemstrand Corp., The: *See*—Continued  
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Ringwald, Eugene L. 2,920,099.  
Ringwald, Eugene L. 2,932,662.  
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Scruggs, Jack G., and Huffman. 2,956,985.  
Stehman, Carlyle J. 2,938,033.  
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Ucci, Pompilio A., and Stroud. 2,924,502.  
Wagner, William S., and Huffman. 2,924,501.  
Walmsley, Leslie L. 2,932,550.
- Chen, Kan, to Westinghouse Electric Corp. Anti-coincident circuit. 2,937,290, 5-17-60, Cl. 307—88.5.
- Chen, Li-Yen, to Directorate General of Telecommunications, Ministry of Communications. Vacuum tube hybrid. 2,946,861, 7-26-60, Cl. 179—170.
- Chen, Mao C., to General Dynamics Corp. Magnetic core full adder. 2,921,737, 1-19-60, Cl. 235—176.
- Chen, Simon K., to International Harvester Co. Air bypass for free piston engine. 2,935,056, 5-3-60, Cl. 123—46.
- Chen, Wayne H.: *See*—  
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- Chenette, Joseph C. Retaining clip for storm shutters. 2,959,831, 11-15-60, Cl. 24—81.
- Cheney, Charles W.; F. M. Tomkinson, H. W. Cheney, and G. M. Sherwood, executors. Hasp fittings. 2,960,363, 11-15-60, Cl. 292—281.
- Cheney, Gordon H., to Boeing Airplane Co. Apparatus for recording wind tunnel test pressures. 2,957,345, 10-25-60, Cl. 73—147.
- Cheney, Harry A.: *See*—  
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- Cheney, Howard W.: *See*—  
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- Cheney, James E., to General Electric Co. Die. 2,941,245, 6-21-60, Cl. 18—16.5.
- Cheney, Lee C., and C. T. Holdrege, to Bristol-Myers Co. 4-amino - 6 - trifluoromethyl-N,N'-di-2-pyridyl-m-benzenedisulfonamide. 2,947,742, 8-2-60, Cl. 260—239.65.
- Cheney, Lee C., and J. Lein, to Bristol-Myers Co. Antibiotic production. 2,956,930, 10-18-60, Cl. 195—80.
- Cheney Lumber Co., Inc.: *See*—  
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- Cheney, North, to Ideal Industries, Inc. Connector wrench. 2,966,083, 12-27-60, Cl. 81—90.
- Cheney, Raymond H., to Contronics, Inc. Electroluminescent light construction. 2,958,762, 11-1-60, Cl. 240—10.
- Cheney, Stanley O. Garment reshaping and drying device. 2,951,621, 9-6-60, Cl. 223—66.
- Cheng, Jen P.: *See*—  
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- Cheng, Peter A., to Sierra Engineering Co. Epidural needle. 2,922,420, 1-26-60, Cl. 128—221.
- Cheng, Wing G., to Meyer Mfg. Co. Ltd. Portable illuminating device. 2,934,635, 4-26-60, Cl. 240—10.66.
- Cheng, Wing G. Portable electric lanterns or torches. 2,959,667, 11-8-60, Cl. 240—10.63.
- Chenick, Joseph A.: *See*—  
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- Chenick, Joseph A., to Universal Oil Products Co. Process for stabilizing crops and the resulting product. 2,944,903, 7-12-60, Cl. 99—8.
- Chenick, Joseph A., and W. K. T. Gleim, to Universal Oil Products Co. Stabilization of non-distilled alcoholic beverages and the resulting product. 2,926,086, 2-23-60, Cl. 99—48.
- Chenick, Joseph A., and W. L. Cox, to Universal Oil Products Co. Production of a concentrate of dimethyl ethers of 5-alkylpyrogallols. 2,964,569, 12-13-60, Cl. 260—613.
- Chenoweth, Albert J. Prefabricated door and door frame unit. 2,927,352, 3-8-60, Cl. 20—16.
- Cherbuliez, Emile, and J. Rabinowitz, to Ciba Pharmaceutical Products Inc. Process for the manufacture of phosphorylated hydroxy-acids and derivatives thereof. 2,962,516, 11-29-60, Cl. 260—461.
- Chereffo, George. Electric switch for motor vehicles. 2,965,728, 12-20-60, Cl. 200—61.85.
- Chereih, Anthony F.: *See*—  
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- Chermak, Alice P. Electric hosiery and lingerie dryer. 2,940,180, 6-14-60, Cl. 34—163.
- Chern, Diomed M., to The Dow Chemical Co. Oxypropylation of phenolic resins. 2,938,884, 5-31-60, Cl. 260—58.
- Chernack, Jacob: *See*—  
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- Chernock, Stephen P. Pipestem couplers. 2,965,106, 12-20-60, Cl. 131—225.
- Chernosky, Allen A., to Jersey Production Research Co. Variable gap reluctance transducer. 2,920,307, 1-5-60, Cl. 340—17.
- Cherrier, Claude M., to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de St. Gobain, Chauny and Cirey. Manufacture of metals of high purity. 2,945,797, 7-19-60, Cl. 204—164.



- Cherry, Amanda: *See*—  
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- Cherry, Arthur J. Fishing lure. 2,940,205, 6-14-60, Cl. 43—42.16.
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- Cherry, Edward C., and M. P. Beddoes, to National Research Development Corp. Signal transmission systems. 2,965,709, 12-20-60, Cl. 178—6.8.
- Cherry, George J. N., and D. R. Thomas, to Foundry Services International Ltd. Production of multilayer compacted granular products. 2,944,307, 7-12-60, Cl. 22—9.
- Cherry, Norman H., to Nuclear Research Corp. Testing apparatus. 2,928,947, 3-15-60, Cl. 250—71.5.
- Chertkof, Jack O. Device for taking impressions. 2,958,946, 11-8-60, Cl. 32—17.
- Chertok, Sidney L., to Sprague Electric Co. Line filter. 2,939,095, 5-31-60, Cl. 333—70.
- Cherup, Nicholas. Impact absorber. 2,934,766, 5-3-60, Cl. 2—2.
- Chery, Walter V., to Talon, Inc. End stop for slide fasteners. 2,958,111, 11-1-60, Cl. 24—205.11.
- Chesapeake and Ohio Railway Co., The: *See*—  
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- Chesbro, Ruth M., A. M. Erskine, and B. K. Shahrokh; said Chesbro and said Shahrokh assors, to said Erskine. Organic ammonium salts of polysaccharide carboxylic acids. 2,931,753, 4-5-60, Cl. 167—22.
- Chesebro Whitman Mfg. Corp.: *See*—  
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- Cheshire, Frank E., to International Steel Co. Unit load freight car. 2,942,561, 6-28-60, Cl. 105—404.
- Cheshire, Inc.: *See*—  
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- Cheskin, David B. Reinforced concrete framing system. 2,929,235, 3-22-60, Cl. 72—15.
- Cheskin, David B. Cable pulling and anchoring means. 2,965,356, 12-20-60, Cl. 254—29.
- Chesluk, Ralph P.: *See*—  
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- Chesnut, John D., and J. M. Carter, to Aerojet-General Corp. Piston engine unit for submerged operation in wells. 2,965,078, 12-20-60, Cl. 121—164.
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- Chesson, Frederick W., and L. J. A. van Lieshout, to Consolidated Electronics, Industries, Corp. Transistorized timing circuit. 2,923,863, 2-2-60, Cl. 317—148.5.
- Chester, Allan E., to Poor & Co. Base stock for vitreous enamel coatings. 2,963,784, 12-13-60, Cl. 29—194.
- Chester, Allan E., and J. P. Stella, to Poor & Co. Corrosion preventing coatings and coating compositions. 2,935,422, 5-3-60, Cl. 117—70.
- Chester, Peter F.: *See*—  
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- Chestnut, Frank K., Jr., and L. G. Mayne, to Food Machinery and Chemical Corp. Self-dispensing feeding station. 2,936,734, 5-17-60, Cl. 119—52.
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- Cheverton, John S., and F. Brouwer, to Westinghouse Electric Corp. Line tracer scanning head. 2,933,612, 4-19-60, Cl. 250—202.
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- Chevillon, Manuel. Pen point adapter for scribes. 2,966,137, 12-27-60, Cl. 120—98.
- Chew, Harvey L., to Columbia Broadcasting System, Inc. Method of insulating electron discharge tube elements. 2,927,069, 3-1-60, Cl. 204—181.
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- Chiappe, Orlando J., to The Bendix Corp. Die for bellows or corrugating machine. 2,963,068, 12-6-60, Cl. 153—73.
- Chiappetta, Helen A., and A. Fabbì, to P. P. Chiappetta and F. Fabbì. Double flush valve for toilet tank. 2,931,048, 4-5-60, Cl. 4—57.
- Chiappetta, Peter P.: *See*—  
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- Chiappulini, Ruggero, to Duplomatic S.R.L. Meccanica Applicazioni Oleodinamiche. Tracer apparatus. 2,935,289, 5-3-60, Cl. 251—3.
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- Chiasson, John. Artificial body member. 2,924,828, 2-16-60, Cl. 3—27.
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- Chicago Bridge & Iron Co.: *See*—  
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- Chicago Forging and Mfg. Co.: *See*—  
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- Chicago Rawhide Mfg. Co.: *See*—  
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- Chichester, George D., to General Phones Corp. Audio-electric translating device. 2,957,053, 10-18-60, Cl. 179-114.
- Chichester, Kenneth J., and E. M. Crocco, to The Reflectone Corp. Speed governor for motors or the like. 2,927,172, 3-1-60, Cl. 200-80.
- Chichester, Kenneth J., and E. M. Crocco, to The Reflectone Corp. Rotational speed governor. 2,945,101, 7-12-60, Cl. 200-80.
- Chicken, John C.: *See*—  
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- Chiddix, Max E., and E. P. Williams, to General Aniline & Film Corp. Alkylbenzyltriphenylphosphonium chlorides. 2,946,824, 7-26-60, Cl. 260-606.5.
- Chiddix, Max E., and R. W. Wynn, to General Aniline & Film Corp. Halogenated epoxy resins. 2,951,829, 9-6-60, Cl. 260-78.4.
- Chiddix, Max E., and R. W. Wynn, to General Aniline & Film Corp. Bis-epoxides obtained from 2,2,3,3-tetrahalo-1,4-butanediol and methods of manufacture of the same. 2,951,854, 9-6-60, Cl. 260-348.
- Chiera, Jacob A., and B. J. Gedrewicz, to General Electric Co. Gas impingement starter nozzle for turbines. 2,959,919, 11-15-60, Cl. 60-39.14.
- Chierigatti, Luigi. Air-conditioning apparatus of the induction type. 2,932,956, 4-19-60, Cl. 62-296.
- Chiero, Louis L., to Chicago Rawhide Mfg. Co. Seal molding apparatus. 2,949,635, 8-23-60, Cl. 18-36.
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- Chilcoat, Murray A., to Futurecraft Corp. Check valve. 2,940,472, 6-14-60, Cl. 137-540.
- Child, Claude H., and S. A. Pryga, to North American Aviation, Inc. High temperature pressurized coaxial radio frequency connector. 2,946,971, 7-26-60, Cl. 333-97.
- Child, Edward R., to United States of America, Navy. Automatic aircraft navigator. 2,929,553, 3-22-60, Cl. 235-61.
- Child, Elaine, to Sarong, Inc. Foundation garment. 2,934,071, 4-26-60, Cl. 128-432.
- Child, Fernand, to Proplastex. Safety stopper for liquid containers. 2,948,429, 8-9-60, Cl. 215-21.
- Childers, Earl L. Apparatus for separating meat from bone. 2,932,058, 4-12-60, Cl. 17-1.
- Childers Mfg. Co.: *See*—  
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- Childers, Robert A., to Childers Mfg. Co. Weather-proof jacketing for insulation. 2,936,259, 5-10-60, Cl. 154-44.
- Childress, Scott J.: *See*—  
Scudi, John V., Reinsner, and Childress. 2,947,754.  
Scudi, John V., Reinsner, Childress, and Walter. 2,947,755.
- Childs, Anthony F., and L. T. D. Williams, to Minister of Supply, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Manufacture of mono-alkyl alkylphosphonofluoridate. 2,957,017, 10-18-60, Cl. 260-461.
- Childs, Clayton G., and J. M. Connelly, to General Electric Co. Grid shim. 2,923,847, 2-2-60, Cl. 313-250.
- Childs Equipment Co.: *See*—  
Childs, Louis. 2,933,196.
- Childs, George A.: *See*—  
Cuthbertson, William F. J., and Childs. 2,961,320.
- Childs, Henry B., to Underwood Corp. Ribbon spool cover arrangement in typewriter. 2,946,423, 7-26-60, Cl. 197-186.
- Childs, Louis, to Childs Equipment Co. Base for shelving support. 2,933,196, 4-19-60, Cl. 211-183.
- Childs, Percy A., S. F. Gold, and W. A. G. Walsh, to International Standard Electric Corp. Multiple panel mounting arrangement. 2,928,555, 3-15-60, Cl. 211-169.
- Childs, Percy A., S. F. Gold, and W. A. G. Walsh, to International Standard Electric Corp. Equipment unit mounting arrangements. 2,950,156, 8-23-60, Cl. 312-266.
- Chilean Nitrate Sales Corp.: *See*—  
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- Chillgas Corp.: *See*—  
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- Chillson, Charles W.: *See*—  
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Africano, Alfred, and Chillson. 2,962,858.
- Chillson, Charles W., to Curtiss-Wright Corp. Control mechanism. 2,928,287, 3-15-60, Cl. 74-388.
- Chillson, Charles W., M. Meyer, and D. M. Lawrence, to United States of America, Air Force. Variable thrust rocket engine. 2,930,187, 3-29-60, Cl. 60-35.6.
- Chillson, Charles W., and E. K. Hine, to Curtiss-Wright Corp. Governor and speed control for helicopters and the like. 2,957,687, 10-25-60, Cl. 264-5.
- Chilman, John A., to Rotol Ltd. Speed governing systems for turbines. 2,926,681, 3-1-60, Cl. 137-34.
- Chilman, John A., to Rotol Ltd. Hydraulic variable pitch propellers. 2,934,154, 4-26-60, Cl. 170-160.32.
- Chilman, John A., and I. H. Brooking, to Rotol Ltd. Hydraulic variable pitch propellers. 2,934,153, 4-26-60, Cl. 170-160.32.
- Chilton, John M., to W. & T. Avery Ltd. Precision potentiometer. 2,945,197, 7-12-60, Cl. 338-143.
- Chilton, William D., to General Motors Corp. Power operated tool for feeding and driving headed fasteners. 2,943,652, 7-5-60, Cl. 144-32.
- Chilton, William D., to General Motors Corp. Fastener driving tool with hopper and feed means. 2,951,516, 9-6-60, Cl. 144-32.
- Chimento, Charles, to Silencer Mfg., Inc. Turbine muffler. 2,958,506, 11-1-60, Cl. 253-52.
- Chimie et Atomistique: *See*—  
Cottet, Jean, and Redel. 2,937,117.  
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- Chimiotex Societe Anonyme: *See*—  
Colombu, Eugene, and Chapuis. 2,954,249.  
Dalix, Paul. 2,953,895.  
Drisch, Nicolas, and Schneller. 2,954,270.  
Petit, Omer L. V. 2,934,065.
- Chimko, John, and L. M. Piteny, to General Motors Corp. Vehicle speed governing device for use with automatic transmissions. 2,965,189, 12-20-60, Cl. 180-82.1.
- Chin, Bock M., to General Electric Co. Magnetic oscillator. 2,944,162, 7-5-60, Cl. 307-88.
- Chinn, Austin B., to California Research Corp. Leaded solid catalyst or adsorbent particles and processes employing the same. 2,964,461, 12-13-60, Cl. 208-47.
- Chinolin Gyogyszer-Es Vegyszeri Termekek Gyara Rt.: *See*—  
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- Chiodo, Giuseppe I., ½ to R. E. Burns. Tires. 2,960,138, 11-15-60, Cl. 152-209.
- Chiotti, Premo, and H. E. Shoemaker, to United States of America, Atomic Energy Commission. Method of separating uranium from alloy. 2,942,968, 6-28-60, Cl. 75-84.1.
- Chippewa Plastics Inc.: *See*—  
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- Chirana Praha, narodni podnik: *See*—  
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- Chiras, Stanley J., to Olin Mathieson Chemical Corp. Process of preparing trimethyl borate. 2,947,776, 8-2-60, Cl. 260-462.
- Chirchiglia, Salvatore N. Containers. 2,928,539, 3-15-60, Cl. 206-56.
- Chisholm, Douglas S., to The Dow Chemical Co. Coating iron and its alloys with magnesium. 2,935,421, 5-3-60, Cl. 117-52.
- Chisholm, Douglas S., and D. F. Hall, to The Dow Chemical Co. Method and apparatus for making die-expressed metal sponge of group IV, subgroup A. 2,932,565, 4-12-60, Cl. 75-84.1.
- Chisholm, Douglas S., and H. R. Bylsma, to The Dow Chemical Co. Extrusion die for plastic extruders. 2,958,099, 11-1-60, Cl. 18-012.
- Chisholm, Duncan: *See*—  
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- Chisholm, Harry E., to Food Machinery and Chemical Corp. Magnesium oxychloride cements. 2,939,799, 6-7-60, Cl. 106-108.
- Chisholm, Raymond S.: *See*—  
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- Chisholm-Ryder Co., Inc.: *See*—  
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- Chisholm-Ryder Co. of Pennsylvania: *See*—  
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- Chislow, Joseph H., to Bell Telephone Laboratories, Inc. Heat abstracting and shielding means for electron discharge devices. 2,933,292, 4-19-60, Cl. 257-263.
- Chittenden, George E., to The Keelavite Co. Ltd. Hydraulic motor systems. 2,946,193, 7-26-60, Cl. 60-53.
- Chittum, Joseph F., and G. H. Rohrback, to California Research Corp. Scale inhibiting composition. 2,934,503, 4-26-60, Cl. 252-181.
- Chivari, Ilie, ½ to P. Nouel. Change speed gear automatic control. 2,964,150, 12-13-60, Cl. 192-3.5.
- Chiyoda Kogaku Seiko Kabushiki Kaisha: *See*—  
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- Chizallet, Georges, and R. Dumon, to Organico, S.A. Fireproof electrical insulation. 2,930,838, 8-29-60, Cl. 174-120.
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- Chmielecki, Jerzy, to C.A.V. Ltd. Liquid fuel pumps for internal combustion engines. 2,946,292, 7-26-60, Cl. 103-160.
- Choate, James R., to Riverside Mfg. Co., Inc. Paperboard berry box. 2,944,721, 7-12-60, Cl. 229-34.
- Choate, Paul V., and H. W. Aschaffenburg, to Flighter Fabrics, Inc. Hydrodynamic testing apparatus. 2,957,337, 10-25-60, Cl. 73-12.



- Choate, William E., and J. A. Morgan. Multiple master cylinder. 2,947,145, 8-2-60, Cl. 60-54.6.
- Chodan, Ivan. Variable pitch means for vertically rising plane. 2,966,318, 12-27-60, Cl. 244-23.
- Chodil, Frank: *See—*
- Slisz, John J., Chodil, deceased, and Wallace. 2,961,477.
- Chodorow, Marvin, to Varian Associates. Electron beam apparatus. 2,924,738, 2-9-60, Cl. 315-3.5.
- Chodorow, Marvin, to Varian Associates. Electron discharge device. 2,937,311, 5-17-60, Cl. 315-3.6.
- Chodorow, Marvin, to Varian Associates. Resonator and velocity modulation device using same. 2,945,155, 8-12-60, Cl. 315-5.39.
- Choice, Frank C., to United Shoe Machinery Corp. Machines for operating on blanks of ceramic ware. 2,954,595, 10-4-60, Cl. 25-22.
- Choice, Frank C., to United Shoe Machinery Corp. Methods of vulcanizing soles onto shoe bottoms. 2,956,313, 10-18-60, Cl. 18-59.
- Cholvin, Robert L., and L. S. Terp, to The Garrett Corp. Pneumatic actuator. 2,929,225, 3-22-60, Cl. 62-172.
- Chombard, Pierre A., to Etat Français. Free gyroscopes. 2,934,960, 5-3-60, Cl. 74-5.2.
- Chombard, Pierre A., to Etat Français, as represented by the Secretary of State for Armed Forces (Air). Device for suspending the action of ball-type erectors of vertical spin axis gyroscopes. 2,934,962, 5-3-60, Cl. 74-5.44.
- Chomo, Anna K.: *See—*
- Kleminsky, Michael. 2,936,137.
- Chontos, Kazmer. Toy animals. 2,960,345, 11-15-60, Cl. 280-1.182.
- Chope, Wilbert E., W. B. Lowman, and P. Spergel, to Industrial Nucleonics Corp. Ratio computer. 2,960,268, 11-15-60, Cl. 235-193.
- Choppin, Gregory R., S. G. Thompson, and B. G. Harvey, to United States of America, Atomic Energy Commission. Cationic exchange process for the separation of rare earths. 2,925,431, 2-16-60, Cl. 260-429.1.
- Chore-Boy Mfg. Co., Inc.: *See—*
- Golay, Donaven E. 2,942,574.
- Chou, Wayne W., to International Business Machines Corp. Transistor trigger circuits. 2,947,882, 8-2-60, Cl. 307-88.5.
- Choudhury, Shaif-Uddin A., to The British Thomson-Houston Co. Ltd. Dynamic braking of induction motors. 2,922,097, 1-19-60, Cl. 318-212.
- Choudhury, Shaif-Uddin A., to The British Thomson-Houston Co. Ltd. Dynamic braking of induction motors. 2,929,977, 3-22-60, Cl. 318-212.
- Chouinard, Joseph H. Stand-up sulky. 2,955,835, 10-11-60, Cl. 280-43.
- Choulings, Leslie C., and P. G. Tweddell, to Automotive Products Co. Ltd. Disc brakes. 2,957,553, 10-25-60, Cl. 188-73.
- Choura, Richard A.: *See—*
- Lawson, Wendall L. 2,928,405.
- Chow, Ho: *See—*
- Hertz, David B., and Chow. 2,926,384.
- Chow, Ho, and C. E. Leyes, to Celanese Corp. of America. Method and apparatus for cooling extruded tubing. 2,947,031, 8-2-60, Cl. 18-14.
- Chow, Welchen: *See—*
- Best, Cleafe A., Jr., and Chow. 2,958,307.
- Chow, Wen M., and A. O. Parker, to American Cyanamid Co. Heat recovery system for diphenylamine process. 2,938,055, 5-24-60, Cl. 260-576.
- Chow, Woo F., to General Electric Co. Transistor regenerative detector circuit. 2,921,196, 1-12-60, Cl. 250-31.
- Chow, Woo F., and J. J. Suran, to General Electric Co. Active element impedance network. 2,930,996, 3-29-60, Cl. 333-80.
- Choyke, Wolfgang J., to United States of America, Air Force. Radiant energy detector. 2,920,205, 1-5-60, Cl. 250-83.3.
- Chris, Theodore S., to Angular Lock Co., Inc. Building construction. 2,961,077, 11-22-60, Cl. 189-36.
- Christ, Johann: *See—*
- Angel, Harald, and Christ. 2,924,716.
- Christen, Albert. Combination lock. 2,964,936, 12-20-60, Cl. 70-309.
- Christensen, Axel, to Chemical Construction Corp. Anhydrous ammonia storage tank. 2,938,360, 5-31-60, Cl. 62-54.
- Christensen, Bertha N.: *See—*
- Umholtz, Franklin G. 2,924,010.
- Christensen, Burton G., R. F. Hirschmann, and I. Putter, to Merck & Co., Inc. Purification of steroid phosphate esters. 2,932,657, 4-12-60, Cl. 260-397.45.
- Christensen, Burton G., and R. F. Hirschmann, to Merck & Co., Inc. Diazo pregnane compounds and method of preparing same. 2,933,494, 4-19-60, Cl. 260-239.55.
- Christensen, Burton G., and R. F. Hirschmann, to Merck & Co., Inc. Zinc salts of steroid phosphates. 2,938,916, 5-31-60, Cl. 260-397.45.
- Christensen, Burton G., J. M. Chemerda, and R. F. Hirschmann, to Merck & Co., Inc. 12 $\alpha$ -halo pregnanes. 2,941,996, 6-21-60, Cl. 260-239.55.
- Christensen, Clarence P.: *See—*
- Cabaniss, Edward H., and Christensen. 2,932,815.
- Christensen, Charles C., and J. D. Prater, to Kennecott Copper Corp. Liquid-liquid extraction process for the recovery of high purity thorium oxide. 2,945,742, 7-19-60, Cl. 23-14.5.
- Christensen, Dan A.: *See—*
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- Christensen, Edward R.: *See—*
- Hess, Howard V., and Christensen. 2,935,459.
- Hess, Howard V., Christensen, and Vermillion. 2,939,895.
- Ryer, Jack, Fontaine, and Christensen. 2,960,460.
- Christensen, Emil A., and R. B. King. Magazine loader, plier type, split-shot applying hand tool. 2,941,431, 6-21-60, Cl. 81-15.
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- Christensen, George L., to Harvey Machine Co., Inc. Low inertia valve lifter unit and method of making the same. 2,932,290, 4-12-60, Cl. 123-90.
- Christensen, Hans P.: *See—*
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- Christensen, Horace H.: *See—*
- Alcock, Wydner G., and Christensen. 2,940,237.
- Christensen, Horace H., to General Electric Co. Constant pressure hydraulic servo system having variable displacement device. 2,966,142, 12-27-60, Cl. 121-41.
- Christensen, Howard, to Bell Telephone Laboratories, Inc. Thermally sensitive target. 2,935,711, 5-3-60, Cl. 338-18.
- Christensen, Howard, to Bell Telephone Laboratories, Inc. Method of making improved contacts to semiconductors. 2,965,519, 12-20-60, Cl. 117-227.
- Christensen, Jorgen E. T., to Det Danske Medicinal- & Kemikalie-Kompagni A-S. 2-methyl-2-hydroxy-4-(2,2,2-trichloro-1-hydroxyethoxy)-pentane and its production. 2,931,838, 4-5-60, Cl. 260-615.
- Christensen, Marie C. Combined anti-roosting and scare crow device. 2,938,244, 5-31-60, Cl. 20-1.
- Christensen, Norman B. Control device for vehicle suspension. 2,929,407, 3-22-60, Cl. 137-627.5.
- Christensen, Norman B. Control device for vehicle suspension. 2,929,619, 3-22-60, Cl. 267-65.
- Christensen, Norman B. Control device for vehicle suspension. 2,929,620, 3-22-60, Cl. 267-65.
- Christensen, Norman B. Control device for vehicle pneumatic suspension. 2,929,621, 3-22-60, Cl. 267-65.
- Christensen, Norman B.,  $\frac{1}{2}$  to Republic Mfg. Co. and  $\frac{1}{2}$  to The Firestone Tire & Rubber Co. Control device for vehicle pneumatic suspension. 2,947,322, 8-2-60, Cl. 137-596.2.
- Christensen, Norman B.,  $\frac{1}{2}$  to Republic Mfg. Co. and  $\frac{1}{2}$  to The Firestone Tire & Rubber Co. Actuating mechanism. 2,947,532, 8-2-60, Cl. 267-65.
- Christensen, Norman B., to Republic Mfg. Co. Relief valve. 2,962,045, 11-29-60, Cl. 137-509.
- Christensen, Oscar E. Secondary register hole for clarinets. 2,951,414, 9-6-60, Cl. 84-382.
- Christensen, Paul M., to Federal Pacific Electric Co. Combination circuit breakers. 2,934,623, 4-26-60, Cl. 200-115.5.
- Christensen, Paul M., to Federal Pacific Electric Co. Bus duct. 2,966,540, 12-27-60, Cl. 174-72.
- Christensen, Paul M., C. G. Landeck, and M. J. St. John, to Federal Pacific Electric Co. Waterproof enclosure for electrical devices. 2,950,837, 8-30-60, Cl. 220-3.7.
- Christensen, Raymond T., to Zenith Radio Corp. Sound-reproducing device. 2,964,596, 12-13-60, Cl. 179-107.
- Christensen, William. Moisture detector. 2,935,867, 5-10-60, Cl. 73-29.
- Christenson, Donald J., and S. C. Heth, to J. I. Case Co. Slip clutch. 2,940,283, 6-14-60, Cl. 64-30.
- Christenson, Howard W., to General Motors Corp. Transmission. 2,930,257, 3-29-60, Cl. 74-720.5.
- Christenson, Howard W., to General Motors Corp. Transmission. 2,965,202, 12-20-60, Cl. 192-3.2.
- Christenson, Howard W., and U. A. Breting, to General Motors Corp. Clutch and brake for steering vehicle. 2,941,639, 6-21-60, Cl. 192-13.
- Christenson, Howard W., and W. G. Livezey, to General Motors Corp. Transmission. 2,933,040, 9-20-60, Cl. 74-781.
- Christenson, Lowell B. Submersible barge assembly. 2,953,904, 9-27-60, Cl. 61-46.5.
- Christenson, Owen A., to General Motors Corp. Spark plugs. 2,946,912, 7-26-60, Cl. 313-141.
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- Olson, Melvin M., and Christenson. 2,957,901.
- Christenson, Roger M., to Pittsburgh Plate Glass Co. Preparation of interpolymers of blown oils and vinyl chloride-vinyl acetate mixtures. 2,926,153, 2-23-60, Cl. 260-23.
- Christenson, Roger M., to Pittsburgh Plate Glass Co. Unsaturated carboxylic acids in interpolymer resins. 2,939,854, 6-7-60, Cl. 260-22.
- Christenson, Roger M., to Pittsburgh Plate Glass Co. Resinous coating compositions. 2,940,944, 6-14-60, Cl. 260-21.
- Christenson, Roger M., to Pittsburgh Plate Glass Co. Interpolymers of ethylenic monomers and ethylenic esters of alcohols from reduction of fatty acids of glyceride oil acids. 2,946,774, 7-26-60, Cl. 260-78.5.
- Christenson, Roger M., and H. A. Vogel, to Pittsburgh Plate Glass Co. Resinous coating composition comprising nitrocellulose and aldehyde modified amide polymer and metallic surface coated therewith. 2,940,943, 6-14-60, Cl. 260-15.



- Christenson, Roger M., and H. G. Bittle, to Pittsburgh Plate Glass Co. Resinous compositions comprising an aldehyde-modified amide interpolymers and an alkyd resin. 2,940,945, 6-14-60, Cl. 260—21.
- Christenson, Roger M., and N. A. Jacobson, to Pittsburgh Plate Glass Co. Composition comprising reaction product of aldehyde and polycarbonate and method of preparing. 2,956,964, 10-18-60, Cl. 260—15.
- Christian, Erich, to United States of America, Army. FM-discriminator. 2,941,075, 6-14-60, Cl. 250—27.
- Christian, John D., to W. R. Grace & Co. Process for preparing trichlorocyanuric acid. 2,956,056, 10-11-60, Cl. 260—248.
- Christian, John F. Portable shower unit. 2,923,480, 2-2-60, Cl. 239—139.
- Christian, Joseph D., to Holo-Flite International Inc. Pulley with torque tube. 2,966,068, 12-27-60, Cl. 74—421.
- Christian, Lorin M. Electrical generator. 2,928,959, 3-15-60, Cl. 310—15.
- Christian, Raymond A., and R. C. Mitchell, to The National Cash Register Co. Convertible function control means for accounting machines. 2,927,728, 3-8-60, Cl. 235—60.5.
- Christian, Raymond A., A. R. Colley, J. R. Ganger, and P. H. Williams, to The National Cash Register Co. Totalizer control mechanism for accounting machines. 2,930,523, 3-29-60, Cl. 235—60.2.
- Christian, Raymond A., J. H. Crawford, J. R. Ganger, and E. J. Stockler, to The National Cash Register Co. Digital switch mechanism for combined accounting machine and tape recorder. 2,931,564, 4-5-60, Cl. 235—60.13.
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- Christiani, Severino, to A. Salvi & Co. gia I.F.I. Manually controlled portable hydraulic compressors. 2,945,526, 7-19-60, Cl. 153—1.
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- Christiansen, Arnold B.: See—
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- Christiansen, Carl J. Machine for dust free grinding of materials as ear corn for livestock feed. Re. 24,806, 4-12-60, Cl. 241—186.
- Christiansen, Carl L. Jr., to International Business Machines Corp. Transformer redundancy checking circuit. 2,946,962, 7-26-60, Cl. 328—195.
- Christiansen, Milton J., and E. W. Pirok, to Western Electric Co., Inc. Article distributing apparatus. 2,964,163, 12-13-60, Cl. 198—31.
- Christiansen, Robert J., R. J. Nevsmal, and H. F. Volkert, to F. N. Volkert & Co. Automatic stitcher trimmer. 2,944,456, 7-12-60, Cl. 83—151.
- Christianson, George, B. Nichols, and R. W. Rath, to The Rath Packing Co. Apparatus for coating fragile foods. Re. 24,835, 6-14-60, Cl. 99—169.
- Christie, Chester D., to Eaton Mfg. Co. Overrunning tandem axle. 2,928,485, 3-15-60, Cl. 180—22.
- Christie, John S., to Proctor & Schwartz, Inc. Device for determining color. 2,928,310, 3-15-60, Cl. 88—14.
- Christie, John S., to Proctor & Schwartz, Inc. Light transmissive color standard. 2,934,172, 4-26-60, Cl. 88—14.
- Christie, Peter J. F., to Nordischer Maschinenbau Rud. Baader. Devices for the orientation of fishes. 2,938,229.
- Christie, Reginald A., to International Harvester Co. Control means for hydraulic rams. 2,935,089, 5-3-60, Cl. 137—620.
- Christie, Robert G.: See—
- Gorman, William A., Christie, and Kraft. 2,937,093.
- Christie, Thomas A., Jr.: See—
- Boughtwood, John E., Boggs, and Christie. 2,929,875.
- Christie, William J. 51% to J. T. Olson. Container safety closure. 2,960,247, 11-15-60, Cl. 215—9.
- Christin, Georges E., to Etablissements Bertrand Faure. Tools for securing wires together by means of deformable clips. 2,929,069, 3-22-60, Cl. 1—187.
- Christison, Lewis D. Hub and bushing assembly. 2,960,358, 11-15-60, Cl. 287—52.
- Christman, Arthur R., and P. W. Schirmer, to General Electric Co. Alternate channel supervisory control system. 2,936,442, 5-10-60, Cl. 340—163.
- Christman, Charles W. Method of making cellular core material from fluted stock. 2,933,122, 4-19-60, Cl. 153—2.
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- Brandes, Adolf, Christmann, and Willersinn. 2,963,738.
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- Christoff, James W., to Mannix Co. Ltd. Ballast plow for use under railroad tracks. 2,924,897, 2-16-60, Cl. 37—104.
- Christoff, James W., to Mannix Co. Ltd. Ballast handling devices for use under railroad tracks. 2,961,972, 11-29-60, Cl. 104—7.
- Christoffersen, Hans J., and C. M. Moller. Apparatus for continuous lixivation. 2,928,760, 3-15-60, Cl. 127—7.
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- Christofilos, Nicholas C., and K. W. Ehlers, to United States of America, Atomic Energy Commission. Electron gun. 2,931,939, 4-5-60, Cl. 315—15.
- Christopher, Arthur J., Jr.: See—
- Lamphier, Walter C., Robinson, and Christopher. 2,923,977.
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- Young, Harland H., and Christopher. 2,923,691.
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- Christopherson, Earl M. Illuminated mirror for self-checking of the ears. 2,943,184, 6-28-60, Cl. 240—4.2.
- Christopherson, Warren A., to International Business Machines Corp. Apparatus for correcting electrical signal distortion. 2,963,549, 12-6-60, Cl. 178—69.
- Christopherson, Warren A., to International Business Machines Corp. Addressing circuit. 2,964,737, 12-13-60, Cl. 340—174.
- Christy, Robert F., to White Eagle International, Inc. Gas detection apparatus. 2,955,922, 10-11-60, Cl. 23—254.
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- Metcalfe, Richard T., and Chrobak. 2,920,898.
- Chromatic Television Laboratories, Inc.: See—
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- Zaphiropoulos, Renn. 2,936,399.
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- Chromy, Benjamin J. Device for optical examination of gem materials. 2,934,993, 5-3-60, Cl. 88—14.
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- Ball, Jeremy T. 2,933,977.
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- Moskovitz, Milton A., and Collier. 2,953,401.
- Platzer, George E., Jr., and Gau. 2,938,143.
- Rarey, Robert S., and Shrimpton. 2,941,521.
- Slemmons, Arthur J. 2,922,619.
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 Rosenthal, Joseph S. 2,939,150.  
 Cislak, Francis E., to Reilly Tar & Chemical Corp. Dithiocarbamyl-pyridines. 2,938,034, 5-24-60, Cl. 260-294.8.  
 Cislak, Francis E., to Reilly Tar & Chemical Corp. Cyano-vinylpyridines. 2,938,035, 5-24-60, Cl. 260-294.9.  
 Cislak, Francis E., to Reilly Tar & Chemical Corp. Cyano-ethanolpyridines. 2,938,036, 5-24-60, Cl. 260-294.9.  
 Cislak, Francis E., to Reilly Tar & Chemical Corp. Carboalkoxy-vinylpyridines. 2,938,037, 5-24-60, Cl. 260-295.  
 Cislak, Francis E., to Reilly Tar & Chemical Corp. Process of preparing higher alkyl-cyanopyridines. 2,943,091, 6-28-60, Cl. 260-294.9.  
 Cislak, Francis E., and W. R. Wheeler. Process of preparing pyridine and 3-picoline. 2,934,537, 4-26-60, Cl. 260-290.  
 Cislak, Frank W. Combination household utility implement. 2,921,798, 1-19-60, Cl. 280-47.27.



- Cislo, Casimer J., to General Motors Corp. Height extending control apparatus for air suspension. 2,919,930, 1-5-60, Cl. 280-124.
- Cislo, Casimer J., to General Motors Corp. Dual trim height leveling valve mechanism for air suspension. 2,919,931, 1-5-60, Cl. 280-124.
- Cislo, Casimer J., to General Motors Corp. Actuating mechanism for disk brake. 2,954,850, 10-4-60, Cl. 188-71.
- Cislo, Casimer J., to General Motors Corp. Pneumatic suspension lift control. 2,962,297, 11-29-60, Cl. 280-124.
- Cissell, W. M., Mfg. Co.: *See*—
- Richterkesing, Frank H., and Cissell. 2,948,443.
- Cissell, William M.: *See*—
- Richterkesing, Frank H., and Cissell. 2,948,443.
- Cities Service Refining Corp.: *See*—
- Faulk, Kenneth H. 2,949,245.
- Cities Service Research and Development Co.: *See*—
- Faulk, Kenneth H. 2,944,002.
- Hughes, William B. 2,924,571.
- Hughes, William B. 2,924,605.
- Hughes, William B. 2,926,169.
- Hughes, William B. 2,927,922.
- Hughes, William B. 2,940,927.
- Hughes, William B. 2,964,471.
- Hughes, William B., Fallgatter, and Newcombe. 2,950,246.
- Kerschner, Paul M., and Greenwald. 2,951,861.
- Kerschner, Paul M., and Greenwald. 2,966,508.
- Price, William H. 2,965,557.
- Newcombe, Jack, and Fallgatter. 2,957,823.
- Sekul, Antonio A., and Sellers. 2,964,575.
- Citizen Watch Co., Ltd.: *See*—
- Mori, Yoshinobu. 2,923,218.
- Citizens Bank of Maryland: *See*—
- Huggin, Forrest E., Diambra, and Didra. 2,929,062.
- Citron, Robert R. Storage and display rack. 2,932,407, 4-12-60, Cl. 211-113.
- City Paper Box Co., Ltd.: *See*—
- Minkow, Julius M. 2,941,452.
- Cizek, Frank G., to American Steel Foundries. Hydraulic descaler. 2,961,741, 11-29-60, Cl. 29-81.
- Claas, August. Apparatus for handling a load. 2,948,427, 8-9-60, Cl. 214-515.
- Claassen, Edwin J., Jr.: *See*—
- Bulls, James W., Normand, and Claassen. 2,922,612.
- Clade, Robert, to ACF Industries, Inc. Spherical plug valve. 2,942,840, 6-28-60, Cl. 251-174.
- Clade, Wilbur W., to Columbia Broadcasting System, Inc. Governor controlled direct current motor system. 2,933,669, 4-19-60, Cl. 318-325.
- Claesson, Per H. E.: *See*—
- Vigren, Sten D., Zander, and Claesson. 2,928,915.
- Claesson, Per H. E. Contact device. 2,924,684, 2-9-60, Cl. 200-104.
- Clafflin, Raymond E., Jr.: *See*—
- Neuendorffer, Carl, and Clafflin. 2,921,285.
- Clair, Verne, Jr., and S. A. Zysk, to Kelsey-Hayes Co. Opening means for sealed containers. 2,946,478, 7-26-60, Cl. 220-54.
- Clairex Corp.: *See*—
- Greig, John H. 2,965,867.
- Clancy, Daniel J. Mail processing table. 2,928,518, 3-15-60, Cl. 198-19.
- Clancy, John J., A. B. Poole, and R. C. Wells, to Arthur D. Little, Inc. Positive printing, pressure-sensitive material and method of making it. 2,961,334, 11-22-60, Cl. 117-36.
- Clancy, William H., to Rohm & Haas Co. Fluid pump. 2,952,210, 9-13-60, Cl. 103-44.
- Clapp, James W.: *See*—
- Lamb, Glentworth, and Clapp. 2,935,440.
- Lamb, Glentworth, and Clapp. 2,935,441.
- Lamb, Glentworth, and Clapp. 2,935,442.
- Lamb, Glentworth, and Clapp. 2,935,443.
- Clapp, Maurice. Tire shaping and tread centering device. 2,948,840, 8-16-60, Cl. 18-18.
- Clapp, Roger W., to Hughes Aircraft Co. Waveguide motional joint. 2,951,217, 8-30-60, Cl. 333-10.
- Clapper, Clyde E. Earth anchor. 2,966,243, 12-27-60, Cl. 189-92.
- Clapper, Genung L., to International Business Machines Corp. Variable pulse width control. 2,951,950, 9-6-60, Cl. 307-88.5.
- Clapper, Genung L., to International Business Machines Corp. High frequency gated trigger. 2,951,952, 9-6-60, Cl. 307-88.5.
- Clapsaddle, Victor E., Jr., to Windsor Door Co., Inc. Sectional sliding door. 2,959,221, 11-8-60, Cl. 160-201.
- Clardy, Kenneth D.: *See*—
- Dyatt, Irving B. 2,962,907.
- Clare, C. P., & Co.: *See*—
- Juptner, Wilhelm. 2,957,961.
- Clare, Maurice Ch. Moistening device for offset printing machines and the like. 2,954,933, 10-4-60, Cl. 239-220.
- Claridge, Elmond L., to Shell Oil Co. Processing petroleum oils. 2,952,613, 9-13-60, Cl. 208-73.
- Clark, A. Lee: *See*—
- Jackson, Clyde J. 2,956,814.
- Clark, Albert G., to General Electric Co. Ignition mechanism. 2,942,420, 6-28-60, Cl. 60-39.82.
- Clark, Alfred: *See*—
- Bailey, Grant C., Holm, and Clark. 2,949,429.
- Holm, Vernon C. F., Bailey, and Clark. 2,921,971.
- Clark, Alfred D., II, and R. A. Vojsak, to The National Cash Register Co. Price tag collector controls. 2,936,113, 5-10-60, Cl. 235-61.11.
- Clark, Alfred S., to United Shoe Machinery Corp. Mechanisms for applying hot adhesives for bonding. 2,926,723, 3-1-60, Cl. 154-42.
- Clark, Alfred S., to United Shoe Machinery Corp. Shoe sewing machines. 2,960,947, 11-22-60, Cl. 112-46.
- Clark, Auvy W. Portable foot warmer. 2,960,982, 11-22-60, Cl. 126-208.
- Clark, Burton P., and V. B. Corbo, to General Electric Co. Retractable fin mechanism. 2,937,828, 5-24-60, Cl. 244-91.
- Clark, Carleton L., to Clark & Vicario Corp. Conditioning paper-making stock. 2,931,503, 4-5-60, Cl. 209-211.
- Clark, Carroll F., and N. C. Paul, to W. P. Fuller & Co. Pigment concentrate. 2,932,580, 4-12-60, Cl. 106-308.
- Clark, Charles, Jr., to United States of America, Air Force. Phase controlled measuring system. 2,933,683, 4-19-60, Cl. 324-83.
- Clark, Charles, Jr., to United States of America, Air Force. Visual indicating apparatus. 2,965,844, 12-20-60, Cl. 324-82.
- Clark, Charles A., to The International Nickel Co., Inc. Nickel-iron alloys. 2,930,725, 3-29-60, Cl. 148-123.
- Clark, Charles A., to The International Nickel Co., Inc. Temperature compensator elements having constant negative coefficient of magnetic permeability. 2,962,373, 11-29-60, Cl. 75-170.
- Clark, Charles C., and F. A. Kanda, to Olin Mathieson Chemical Corp. Production of diborane. 2,963,347, 12-6-60, Cl. 23-204.
- Clark, Charles E., to Benesh-Clark Engineering Co. Water conditioning unit for live bait containers. 2,962,835, 12-6-60, Cl. 43-56.
- Clark, Charles W. Internal combustion engines of the swash or wobble plate type. 2,957,462, 10-25-60, Cl. 123-58.
- Clark, Charley E. Power-driven, grass-cutting and grass-renovating machine. 2,942,397, 6-28-60, Cl. 56-25.4.
- Clark, Clayton F.: *See*—
- Pullen, Joe W., Neighbors, Clark, Hoffmann, and Meunier. 2,951,786.
- Clark Controller Co., The: *See*—
- Bundy, Oswald M., and Finley. 2,947,827.
- Collings, David A. 2,933,163.
- Cortelli, John A., and Koenig. 2,963,634.
- Feil, Edward L. 2,956,135.
- Few, William, Pearson, and Dakers. 2,921,166.
- Gravenstreter, Paul R., Willowick, and Koenig. 2,949,249.
- Hart, Vincent E., and Whitwell. 2,926,292.
- Clark, David A., to Clark Mfg. Co. Support and transporting structure for harrows. 2,944,615, 7-12-60, Cl. 172-456.
- Clark, David, Co., Inc.: *See*—
- Wadsworth, William B., and Poole. 2,946,862.
- Clark, Donald B.: *See*—
- Gallo, Elia A., Clark, and Schwartz. 2,935,946.
- Clark, Earl D., and R. A. Stubberfield. Cable shackle. 2,935,776, 5-10-60, Cl. 24-122.6.
- Clark, Earl J., to General Motors Corp. Journal-bearing assembly. 2,926,970, 3-1-60, Cl. 308-83.
- Clark, Earl J., and L. J. Schmid, to General Motors Corp. Assembly for making a bearing. 2,923,987, 2-9-60, Cl. 22-123.
- Clark, Earl K., and H. P. Allen, to United States of America, Navy. Lens. 2,961,925, 11-29-60, Cl. 88-57.
- Clark, Earnest H., Jr.: *See*—
- Conrad, Martin B., and Clark. 2,952,438.
- Clark, Earnest H., Jr., to Baker Oil Tools, Inc. Expandable and retractable packing structure. 2,921,632, 1-19-60, Cl. 166-204.
- Clark, Earnest H., Jr., to Baker Oil Tools, Inc. Safety valve for subsurface conduit strings. 2,931,384, 4-5-60, Cl. 137-498.
- Clark, Earnest H., Jr., to Baker Oil Tools, Inc. Blowout control valve. 2,962,099, 11-29-60, Cl. 166-224.
- Clark, Edgar H., deceased, by E. H. Clark, Jr., executor, to E. H. Clark, Jr. Automatic code translating systems. 2,960,570, 11-15-60, Cl. 178-26.
- Clark, Edgar H., Jr.: *See*—
- Clark, Edgar H. 2,960,570.
- Clark, Edward B., to General Electric Co. Junction box with adjustable leveling ring. 2,936,091, 5-10-60, Cl. 220-3.4.
- Clark, Edward G., to Philco Corp. Push-pull reactance tube stage. 2,927,286, 3-1-60, Cl. 333-80.
- Clark, Edward G., to Burroughs Corp. Shift register. 2,933,622, 4-19-60, Cl. 307-88.5.
- Clark, Edward G., to Burroughs Corp. Complementing flip-flops. 2,945,965, 7-19-60, Cl. 307-88.5.
- Clark, Elizabeth C., to International Latex Corp. Foundation garment. 2,923,302, 2-2-60, Cl. 128-547.



- Clark Equipment Co.: *See*—  
 Anzons, Janis O. 2,950,831.  
 Ayers, Edgar H. 2,935,713.  
 Bolster, Ronald H. 2,954,040.  
 Brudi, Ronald A. 2,931,531.  
 Cook, Charles J. 2,924,296.  
 D'Arca, Nicholas A. 2,956,763.  
 Gould, Arlow G. 2,937,687.  
 Hasbany, Woodrow A. 2,950,734.  
 Henryon, Lewis E., and Leonard. 2,926,540.  
 Hepler, Leon R., and Johnson. 2,955,721.  
 Howard, Wayne R. 2,926,551.  
 Hubbard, Deville H., and Sutton. 2,959,235.  
 Jacobus, Charles J. 2,945,544.  
 Keller, Walter G. 2,931,681.  
 Leonard, William F. 2,926,539.  
 Leonard, William F., and Henryon. 2,926,635.  
 Lewis, William M., and Gray. 2,929,617.  
 Mackie, Harry A. 2,931,452.  
 McAdams, Paul F. 2,940,533.  
 McColl, Bruce J. Re. 2,846.  
 McColl, Bruce J. 2,936,587.  
 Miller, James A. 2,929,271.  
 Miller, James A. 2,959,987.  
 Mills, Burton L. 2,935,169.  
 Rogers, Cyril B., and McKee. 2,956,835.  
 Root, Afton B. 2,937,777.  
 Sherriff, Fred. 2,920,555.  
 Simbulan, Raymond F. 2,962,105.  
 Wendt, Hermann. 2,945,610.  
 White, William E. 2,959,255.
- Clark, Ernest E., to Phillips Petroleum Co. Filter back-wash system. 2,925,912, 2-23-60, Cl. 210-108.
- Clark, Everett M.: *See*—  
 Orelind, John R., and Clark. 2,947,366.
- Clark, Frederick G., to Eastman Machine Co. Bevel cutting machine. 2,930,123, 3-29-60, Cl. 30-276.
- Clark, Frederick G., to Eastman Machine Co. Hold-down device for pattern cutting machines. 2,952,913, 9-20-60, Cl. 30-275.
- Clark, George M.: *See*—  
 Arterbury, Bryant P., and Clark. 2,935,132.
- Clark, George M. Removable handle construction for burial caskets. 2,946,113, 7-26-60, Cl. 27-27.
- Clark, Gerald A.: *See*—  
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 Havens, Carl B., and Clark. 2,964,554.
- Clark, Gerald A., to The Dow Chemical Co. Haloethylene polymers containing allyl ethers of 2-hydroxy benzophenones. 2,937,157, 5-17-60, Cl. 260-45.95.
- Clark, Gerald A., to The Dow Chemical Co. Chloroethylene polymers stabilized with 2,4-dihydroxy-3-allyl benzophenone and substituted derivatives thereof. 2,947,723, 8-2-60, Cl. 260-45.95.
- Clark, Grady W., and R. A. Lefever, to Union Carbide Corp. Process for crystalline growth employing collimated electrical energy. 2,965,456, 12-20-60, Cl. 23-301.
- Clark, Harlan C., and R. S. Sanford, to United States of America, Army. Rim-gripping cartridge belt link. 2,925,015, 2-16-60, Cl. 89-35.
- Clark, Harold A., to Dow Corning Corp. Room temperature curing silicone resins. 2,934,519, 4-26-60, Cl. 260-46.5.
- Clark, Harold A., and J. H. Thomas, to Dow Corning Corp. Siloxane coating composition. 2,931,786, 4-5-60, Cl. 260-45.5.
- Clark, Harold D., and A. W. Johnson, to Douglas Aircraft Co., Inc. Glass fiber jigs. 2,923,542, 2-2-60, Cl. 269-136.
- Clark, Harold E., to Haloid Xerox Inc. Method for preparing a spirit duplicating master. 2,954,291, 9-27-60, Cl. 96-1.
- Clark, Harold E., and R. W. Gundlach, to Haloid Xerox Inc. Developer electrode for electrophotographic apparatus. 2,952,241, 9-13-60, Cl. 118-637.
- Clark, Harry F., to General Motors Corp. Electrical apparatus. 2,943,171, 6-28-60, Cl. 200-88.
- Clark, Harry I.: *See*—  
 Clark, Harry I., Jr. 2,922,494.
- Clark, Harry I., Jr., to H. I. Clark. Holding device for wheeled vehicles. 2,922,494, 1-26-60, Cl. 188-5.
- Clark, Harry S. Article loading machine. 2,954,862, 10-4-60, Cl. 198-30.
- Clark, Henry C. Toothbrush support means. 2,919,813, 1-5-60, Cl. 211-66.
- Clark, Howard G.: *See*—  
 Preston, Jack, and Clark. 2,928,859.
- Clark, Ivaloe M. Smoking accessory. 2,958,416, 11-1-60, Cl. 206-38.
- Clark, J. R., Co., The: *See*—  
 Munson, Donald J. 2,939,232.  
 Munson, Donald J. 2,939,233.  
 Olander, Kemuel B., and Munson. 2,957,736.
- Clark, James B., Jr., M. M. Behles, and D. K. Mackenzie, Jr., to The Martin Co. Self-sealing one-way drain valve. 2,919,670, 1-5-60, Cl. 114-185.
- Clark, James D'A., to Fibrofete Corp. Feed mechanism. 2,920,355, 1-12-60, Cl. 19-69.
- Clark, James D'A., to Fibrofelt Corp. Apparatus and method for producing fibrous structures. 2,931,076, 4-5-60, Cl. 19-156.
- Clark, James D'A., to Changewood Corp. Method for forming fibrous structures. 2,949,646, 8-23-60, Cl. 19-155.
- Clark, James K., to The Partlow Corp. Temperature control system. 2,933,257, 4-19-60, Cl. 236-80.
- Clark, James K., to The Partlow Corp. Safety shut-off valve. 2,949,959, 8-23-60, Cl. 158-138.
- Clark, James T. Set sprinkler for lawns. 2,924,394, 2-9-60, Cl. 239-495.
- Clark, Jean H., to American Telephone and Telegraph Co. Equalizer. 2,958,831, 11-1-60, Cl. 333-28.
- Clark, Jean H., to American Telephone and Telegraph Co. Differential-phase corrector. 2,958,832, 11-1-60, Cl. 333-28.
- Clark, Jesse H.: *See*—  
 Hecser, Clem J. 2,941,224.
- Clark, Jim M.: *See*—  
 Roach, Gay W., and Clark. 2,939,569.
- Clark, John: *See*—  
 Webster, Edmund E., and Clark. 2,952,826.
- Clark, John B., and P. W. Hicks, to Siemens Edison Swan Ltd. Arrangements for controlling the access of a number of equipments to a common apparatus. 2,945,917, 7-19-60, Cl. 179-27.
- Clark, John D.: *See*—  
 Seavey, Frederick R., and Clark. 2,942,513.
- Clark, John T.: *See*—  
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- Clark, John W., and L. R. Wilson, to Litton Industries, Inc. Nucleonic X-ray apparatus. 2,926,262, 2-23-60, Cl. 250-105.
- Clark, Joseph W., to Phillips Petroleum Co. Process for the production of hydrogen halide from a Friedel-Crafts metal halide sludge. 2,929,682, 3-22-60, Cl. 23-152.
- Clark, Joseph W., to Phillips Petroleum Co. Separation process and apparatus. 2,938,022, 5-24-60, Cl. 260-96.5.
- Clark, Kenneth B., and G. Durst, to Texas Instruments Inc. Solid phase strip inlay bonding. 2,961,762, 11-29-60, Cl. 29-475.
- Clark, Kenneth J. B., to Metalastik Ltd. Spring suspension for vehicle wheels. 2,964,334, 12-13-60, Cl. 280-124.
- Clark, Kenneth W.: *See*—  
 Hooker, Stanley G., and Clark. 2,928,650.
- Clark, Leslie J., and H. F. Goodman, to North Thames Gas Board. Containers for liquefied gases. 2,959,318, 11-8-60, Cl. 220-15.
- Clark, Lewis R., to United Aircraft Corp. High temperature rotary plug valve. 2,929,607, 3-22-60, Cl. 251-192.
- Clark, Lyle G., to The Aero Equipment Corp. Vibration absorber. 2,942,834, 6-28-60, Cl. 248-358.
- Clark, Malcolm A., R. L. Miller, and R. W. Sears, to Bell Telephone Laboratories, Inc. Two-way television over telephone lines. 2,922,843, 1-26-60, Cl. 178-6.8.
- Clark, Malcolm S., to Snap-Tite, Inc. Dispensing device. 2,954,245, 9-27-60, Cl. 285-38.
- Clark Mfg. Co.: *See*—  
 Clark, David A. 2,944,615.
- Clark, Marion A. Scraper. 2,931,111, 4-5-60, Cl. 37-4.
- Clark, Maurice W. Automatic signaling device. 2,966,674, 12-27-60, Cl. 540-366.
- Clark, Melville, Jr. Photoelectric scanning device for generating musical tones. 2,941,434, 6-21-60, Cl. 84-1.18.
- Clark, Melville, Jr. Progressively keyed electrical musical instrument. 2,946,252, 7-26-60, Cl. 84-1.1.
- Clark, Melville, Jr. Photoelectric apparatus for generating musical tones. 2,946,253, 7-26-60, Cl. 84-1.18.
- Clark, Neil M., to Power Jets (Research and Development) Ltd. Gas turbine-driven plant. 2,937,497, 5-24-60, Cl. 60-39.16.
- Clark, Nigel G.: *See*—  
 Stevenson, Herbert A., Clark, Cranham, and Higgons. 2,938,829.  
 Stevenson, Herbert A., Clark, Marshall, Greenwood, Cranham, and Higgons. 2,938,928.
- Clark, Orville A.: *See*—  
 Cameron, Philip G., Clark, and Maxwell. 2,961,488.
- Clark, Orville C. Automatic cut-off valves. 2,935,290, 5-3-60, Cl. 251-15.
- Clark, Paul A., to Industridor, Inc. Doors formed of sections hinged together and guided for vertical movement. 2,952,314, 9-13-60, Cl. 160-229.
- Clark, Phillip M.: *See*—  
 Lantz, Kenneth D., and Clark. 2,919,710.
- Clark, Ralph B., and E. W. Spannhake, to LeTourneau-West-  
 inghouse Co. Power train. 2,950,634, 8-30-60, Cl. 74-801.
- Clark, Ralph H., to Burroughs Corp. Method of making duplicating transfer sheet and resultant article. 2,943,952, 7-5-60, Cl. 117-36.
- Clark, Ralph H., to Burroughs Corp. Ink-transfer compositions and duplicating media prepared therewith. 2,944,037, 7-5-60, Cl. 260-23.
- Clark, Richard U. Method of making hermetically sealed electric terminals. 2,944,325, 7-12-60, Cl. 29-155.55.
- Clark, Richard U. High torque resistant electrical terminals. 2,963,540, 12-6-60, Cl. 174-153.
- Clark, Robert A., to Caloric Appliance Corp. Time controlled latch mechanism for an incinerator. 2,960,046, 11-15-60, Cl. 110-18.
- Clark, Robert A. Screw holding attachment for screwdrivers. 2,960,131, 11-15-60, Cl. 145-52.
- Clark, Robert E. D. Rotary pump apparatus. 2,965,041, 12-20-60, Cl. 103-149.
- Clark, Robert L.: *See*—  
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- Clark, Robert L., and F. W. Gubitz, to Sterling Drug Inc. Mercurated 1,6-diazabicyclo[4,4,0]decane-7,10-diones. 2,921,068, 1-12-60, Cl. 260—242.
- Clark, Robert L., and A. A. Pessolano, to Merck & Co., Inc. Benzimidazole derivatives. 2,933,503, 4-19-60, 260—309.2.
- Clark, Robert L., and A. A. Pessolano, to Merck & Co., Inc. Acyl hydrazines. 2,953,598, 9-20-60, Cl. 260—558.
- Clark, Ronald, and D. J. Alexander, to Lever Bros. Co. Three phase dispenser. 2,950,846, 8-30-60, Cl. 222—399.
- Clark, Sidney F., J. H. Cowles, A. Marola, and R. H. White, to The Torrington Co. Combined cage and retainer for bearing rollers. 2,950,151, 8-23-60, Cl. 308—217.
- Clark, Stephen J., and L. E. Isele, to The International Silver Co. Refillable lipstick container. 2,921,675, 1-19-60, Cl. 208—56.
- Clark, Thomas E.: *See—*  
Callahan, Lester L., and Clark. 2,922,472.
- Clark, Thomas L.: *See—*  
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- Clark & Vicario Corp.: *See—*  
Clark, Carleton L. 2,931,503.
- Clark, Walter C., to Aluminum Products, Inc. Hoist. 2,927,771, 3-8-60, Cl. 254—167.
- Clark, Walter L., Jr. Adjustable barbecue grills. 2,965,097, 12-20-60, Cl. 126—30.
- Clark, Walter M., to Northrop Corp. Photographic reproduction of multiple wedge scanner. 2,931,723, 4-5-60, Cl. 96—41.
- Clark, Welmon D., Jr., to General Electric Co. Code controlled communication system. 2,929,921, 3-22-60, Cl. 250—2.
- Clark, William. Portable first aid kit. 2,935,186, 5-3-60, Cl. 206—38.
- Clark, William H., Jr., to Curtiss-Wright Corp. Speed control mechanism. 2,939,289, 6-7-60, Cl. 60—105.
- Clark, William J.: *See—*  
Kocay, Witold R., Clark, and Vescio. 2,936,211.
- Clark, William J., to Philco Corp. Door latches and the like. 2,926,945, 3-1-60, Cl. 292—332.
- Clark, William J., to Philco Corp. Latch means. 2,956,828, 10-18-60, Cl. 292—251.5.
- Clark, William J., and I. C. Courson, to Philco Corp. Shelf apparatus. 2,936,205, 5-10-60, Cl. 312—302.
- Clark, William L., to United States Steel Corp. Flying shear with means for adjusting blade setting. 2,937,555, 5-24-60, Cl. 83—345.
- Clark, William R., W. McAdam, and G. R. Moreland, to Leeds and Northrup Co. Electrical measuring and control servosystem. 2,957,115, 10-18-60, Cl. 318—28.
- Clarke, Alfred G., deceased; by L. I. Clarke, executrix, to Orenda Engines Ltd. Slip rings. 2,959,697, 11-8-60, Cl. 310—232.
- Clarke, Chapman & Co. Ltd.: *See—*  
Hemsley, Thomas B. 2,920,720.  
Hemsley, Thomas B. 2,936,063.
- Clarke, Charles M.: *See—*  
Axtell, Oliver H., Jr., and Clarke. 2,951,059.
- Clarke, Clifton A., Jr., A. M. McQuarrie, and J. F. Scamman, to General Electric Co. Network meter. 2,930,979, 3-29-60, Cl. 324—107.
- Clarke, Daniel J., to The Stalker Corp. Axial flow compressor construction and bladed rotors therefor. 2,937,806, 5-24-60, Cl. 230—134.
- Clarke, Daniel J., to Stalker Corp. Manufacture of blades. 2,948,197, 8-9-60, Cl. 90—59.
- Clarke, David E., to Texas Instruments Inc. Electrical device. 2,921,165, 1-12-60, Cl. 200—88.
- Clarke, Frank W., to Talon, Inc. Slide fastener. 2,948,040, 8-9-60, Cl. 24—205.13.
- Clarke, George F.: *See—*  
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- Clarke, Gerard J.: *See—*  
Salo, Martin, and Clarke. 2,956,895.
- Clarke, Graham M., to The M-O Valve Co. Ltd. Traveling wave velocity modulation devices. 2,920,229, 1-5-60, Cl. 315—5.16.
- Clarke, Henry R., D. R. Daykin, and G. T. Judson, to International Business Machines Corp. Commutator clock. 2,961,500, 11-22-60, Cl. 200—38.
- Clarke, James F., to Bendix Aviation Corp. Fuel control apparatus. 2,938,339, 5-31-60, Cl. 60—39.27.
- Clarke, James F., to The Bendix Corp. Apparatus for minimum fuel flow scheduling during deceleration of an engine. 2,950,597, 8-30-60, Cl. 60—39.28.
- Clarke, Jesse E. Lift device. 2,937,852, 5-24-60, Cl. 254—122.
- Clarke, John V., Jr.: *See—*  
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- Clarke, Lorna I.: *See—*  
Clarke, Alfred G. 2,959,697.
- Clarke, Loyal, to Air Products Inc. Process for purifying gases and synthesis of ammonia therefrom. 2,955,909, 10-11-60, Cl. 23—2.
- Clarke, Ralph E.: *See—*  
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- Clarke, Ward W.: *See—*  
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- Clarke, William W., to Boesch Mfg. Co., Inc. Control for toroidal coil winding machines. 2,941,734, 6-21-60, Cl. 242—4.
- Clarkson, William G., and C. F. Currey, to Canadian Westinghouse Co., Ltd. Mercury-vapor vacuum pump. 2,921,733, 1-19-60, Cl. 230—101.
- Clarostat Mfg. Co., Inc.: *See—*  
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- Clary Corp.: *See—*  
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- Clary, Frank A., Jr.: *See—*  
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- Clasen, Heinrich. Potato peeler and washer. 2,952,287, 9-13-60, Cl. 146—50.
- Clason, Bertil H., to General Motors Corp. Telemetric system for gauges and the like. 2,943,302, 6-23-60, Cl. 340—177.
- Class, August. Baling machines. 2,940,383, 6-14-60, Cl. 100—192.
- Class, Charles R., R. P. Spero, and G. E. McIntosh, to Beech Aircraft Corp. Process for the production of para liquid hydrogen. 2,937,076, 5-17-60, Cl. 23—210.
- Class, Jay B., to Hercules Powder Co. Production of diethylmethyamine. 2,944,082, 7-5-60, Cl. 260—583.
- Classen, Robert J.: *See—*  
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- Clatfelter, John J. Post hole boring devices. 2,964,115, 12-13-60, Cl. 175—40.
- Clatfelter, John J. Means for supporting posts in the ground. 2,964,145, 12-13-60, Cl. 189—30.5.
- Claude, George. Preservation of paint brushes. 2,936,878, 5-17-60, Cl. 206—15.1.
- Claud-Mantle, Arthur, deceased; G. Claud-Mantle, administratrix of said A. Claud-Mantle. Indexing mechanism. 2,933,954, 4-28-60, Cl. 74—820.
- Claud-Mantle, Arthur, to The Bassick Co. Box lid fastener. 2,939,734, 6-7-60, Cl. 292—64.
- Claud-Mantle, Arthur, to The Bassick Co. Box lid fastener. 2,955,861, 10-11-60, Cl. 292—113.
- Claud-Mantle, Arthur, to The Bassick Co. Box lid fastener. 2,955,862, 10-11-60, Cl. 292—246.
- Claud-Mantle, Gladys: *See—*  
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- Claudy, Harry N., to Phillips Petroleum Co. Analyzer and control apparatus. 2,953,440, 9-20-60, Cl. 23—253.
- Claus, Walter E. Variable speed friction disc transmission. 2,942,487, 6-28-60, Cl. 74—197.
- Claus, William A., to The Peters Stamping Co. Foot-operated parking brake operating mechanism. 2,937,540, 5-24-60, Cl. 74—512.
- Clausen, Sigurd, and V. G. Hanson, to International Cigar Machinery Co. Article stacking device. 2,929,383, 3-22-60, Cl. 131—25.
- Clauser, Herbert C., and R. S. Long, to Kilgore, Inc. Aircraft floatlight. 2,920,560, 1-12-60, Cl. 102—7.
- Clausi, Adolph S., and R. E. Mohlie, to General Foods Corp. Process for preparing puffed cereal product. 2,954,295, 9-27-60, Cl. 99—82.
- Clausi, Adolph S., and R. E. Mohlie, to General Foods Corp. Process for preparing puffed cereal product. 2,954,296, 9-27-60, Cl. 99—82.
- Clausi, Adolph S., J. L. Common, and H. M. Horti, to General Foods Corp. Process of preparing a chifon dessert product and the resulting product. 2,954,299, 9-27-60, Cl. 99—139.
- Clausing, Challiss I., and A. P. Romano, to I-T-E Circuit Breaker Co. Overrunning spring clutch. 2,928,514, 3-15-60, Cl. 192—41.
- Clausing, Challiss I., and F. J. Pokorny, to I-T-E Circuit Breaker Co. Motor closing mechanism for circuit breakers. 2,939,930, 6-7-60, Cl. 200—92.
- Clausing, Paul L. Shifting ink pad for self inking stampers. 2,939,390, 6-7-60, Cl. 101—334.
- Clausing, Robert W.: *See—*  
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- Clauson, Frank A., to Texaco Inc. Method and apparatus for the transportation of liquefied petroleum products. 2,929,221, 3-22-60, Cl. 62—54.
- Clauson, Frank A., to Texaco Inc. Internal insulation structure for use with liquefied petroleum products. 2,947,438, 8-2-60, Cl. 220—15.
- Clauson, Frank A., to Texaco Inc. Apparatus for the maintenance of liquefied petroleum products and method of manufacture thereof. 2,952,987, 9-20-60, Cl. 62—45.
- Clauson-Kaas, Niels K. F. W.: *See—*  
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- Clauss, James K., to Allied Chemical Corp. Sulfur dioxide determination. 2,949,345, 8-16-60, Cl. 23—232.
- Clauss, James K., to Allied Chemical Corp. Apparatus for sulfur dioxide determination. 2,953,441, 9-20-60, Cl. 23—255.



- Clauss, Karl, and C. Beermann, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Tetramethyl titanium and process of preparing same. 2,951,085, 8-30-60, Cl. 260—429.5.
- Clauss, Raymond E., to Sperry Rand Corp. Manufacture of coil conductors. 2,925,960, 2-23-60, Cl. 242—9.
- Claussen, Brian H., to International Standard Electric Corp. Manufacture of semi-conductor devices. 2,958,633, 11-1-60, Cl. 204—32.
- Claussen, Delmar W., to Minneapolis-Honeywell Regulator Co. Measuring apparatus. 2,945,181, 7-12-60, Cl. 324—154.
- Claussen, Gerard E.: *See—*  
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- Claussen, Gerard E., and D. Swan, to Union Carbide Corp. Electric metal-arc welding flux. 2,965,524, 12-20-60, Cl. 148—26.
- Clay, Alvin C. A., and J. Pouradier, to Eastman Kodak Co. Process for preparing amphoteric copolymers and the resulting products. 2,949,442, 8-16-60, Cl. 260—80.5.
- Clay-Adams, Inc.: *See—*  
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- Clay, Burton R., to Radio Corp. of America. Electron beam-controlling apparatus. 2,963,607, 12-6-60, Cl. 313—77.
- Clay, Burton R., and L. R. Kirkwood, to Radio Corp. of America. Electron beam controlling apparatus. 2,943,218, 6-28-60, Cl. 313—77.
- Clay Equipment Corp.: *See—*  
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- Claybourn, Carlton C., and R. L. Kobos, to Miehle-Goss-Dexter, Inc. Sheet transferring mechanism. 2,933,039, 4-19-60, Cl. 101—183.
- Claybourn, Glen L., and G. W. Champney, to Westinghouse Electric Corp. Circuit breaker trip circuits. 2,965,810, 12-20-60, Cl. 317—57.
- Claydon, John M., and E. Bettman, to Connecticut Bandage Mills, Inc. Surgical splint. 2,958,325, 11-1-60, Cl. 128—90.
- Claypool, Glenn F. Combination container and applicator for cosmetics and the like. 2,961,679, 11-29-60, Cl. 15—135.
- Claypool, Harry W., to Westinghouse Electric Corp. Cathode ray beam deflection circuits. 2,924,746, 2-9-60, Cl. 315—27.
- Claypoole, Stewart A.: *See—*  
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- Clayton, Benjamin: *See—*  
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- Clayton, Benjamin. Treatment of glyceride oils and product obtained thereby. 2,939,790, 6-7-60, Cl. 99—2.
- Clayton, Carl C., Jr.: *See—*  
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Sindlinger, Charles J., and Clayton. 2,962,347.
- Clayton, David P., and R. N. Falge, to General Motors Corp. Sealed beam headlamp mounting. 2,920,188, 1-5-60, Cl. 240—57.
- Clayton Dewandre Co. Ltd.: *See—*  
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- Clayton, John, Jr., and D. E. Trubey, to Waters Mfg., Inc. Potentiometer. 2,956,253, 10-11-60, Cl. 338—137.
- Clayton Mfg. Co.: *See—*  
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- Clayton, Marcus. Amalgam preparing and carrying means for dental purposes. 2,958,947, 11-8-60, Cl. 32—60.
- Clayton, Mark M. Combination hydraulic turbine and electric generator. 2,949,540, 8-16-60, Cl. 290—40.
- Clayton, Ralph S. Apparatus for applying radioactive therapy in the pelvic cavity of the body. 2,959,166, 11-8-60, Cl. 128—12.
- Clayton, Robert E., to Esso Research and Engineering Co. Process for reclaiming scrap rubber with polymer oil-sulfur mixture and composition thereof. 2,939,850, 6-7-60, Cl. 260—23.
- Clayton, Robert E., J. R. Briggs, and F. P. Baldwin, to Esso Research and Engineering Co. Vulcanizing chlorinated isooctene-polyolefin copolymers. 2,955,102, 10-4-60, Cl. 260—79.5.
- Clayton, Temple: *See—*  
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- Clayton, Temple, to Minnesota Mining and Mfg. Co. Pyrrolidone purification. 2,944,944, 7-12-60, Cl. 202—52.
- Clayton, William, to Clayton Mfg. Co. Steam cleaner with hydraulic shock compensator. 2,942,788, 6-28-60, Cl. 239—137.
- Clayton, William, to Barkelaw Mfg. Co. Method and apparatus for treating exhaust gases with an exhaust gas burner with catalytically induced flame. 2,947,600, 8-2-60, Cl. 23—2.
- Clayton, Willis S., Jr.: *See—*  
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- Cleanola Co., The: *See—*  
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- Cleary, Robert J. Water treating system. 2,959,541, 11-8-60, Cl. 210—30.
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- Cleaver, Charles S., to E. I. du Pont de Nemours and Co. Preparation of fluorinated hydrazines. 2,958,634, 11-1-60, Cl. 204—63.
- Cleaver, Charles S., to E. I. du Pont de Nemours and Co. Polymerization process using nitrogen fluorides. 2,963,468, 12-6-60, Cl. 260—87.5.
- Cleaver, Charles S., and B. C. McKusick, to E. I. du Pont de Nemours and Co. Process for synthesizing nitriles. 2,952,597, 9-13-60, Cl. 204—154.
- Cleeton, Claude E. Simultaneous display of multi-channel signals. 2,962,707, 11-29-60, Cl. 343—6.5.
- Clegg, Douglas. Method and apparatus for automatic and sanitary milking. 2,949,883, 8-23-60, Cl. 119—14.01.
- Clegg, John D., and J. H. Day, to Home-Ease Ltd. Folding clothes airer. 2,919,818, 1-5-60, Cl. 211—178.
- Clegg, John M.: *See—*  
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- Clegg, Wayne D.: *See—*  
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- Clejan, Deodat, to General American Transportation Corp. Railway cars for transporting road vehicles. 2,944,492, 7-12-60, Cl. 105—368.
- Clejan, Deodat, to General American Transportation Corp. Railway cars for transporting road vehicles. 2,960,043, 11-15-60, Cl. 105—368.
- Cleland, Donald E.: *See—*  
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- Clem, Glen H., and W. M. Ickes, to American Viscose Corp. Cake stripping mechanism. 2,947,491, 8-2-60, Cl. 242—53.
- Clemens, George S. Toothbrush. 2,934,776, 5-3-60, Cl. 15—167.
- Clemens, Ludwig. Machine for the manufacture of packages for cut materials. 2,946,167, 7-26-60, Cl. 53—137.
- Clemens, Ogden A., H. P. Bonheimer, and H. H. Trombly, to Swift & Co. Continuous manufacture of sausage. 2,965,491, 12-20-60, Cl. 99—109.
- Clement, Ernest C. Box making apparatus. 2,937,536, 5-24-60, Cl. 74—26.
- Clement, Finn, to The Procter & Gamble Co. Liquid applicators. 2,949,622, 8-23-60, Cl. 15—133.
- Clement, Finn, and J. M. Sharf, to The Procter & Gamble Co. Liquid applicator. 2,949,621, 8-23-60, Cl. 15—133.
- Clement, George H., to Pioneer Industries Inc. Belt rack. 2,940,647, 6-14-60, Cl. 223—85.
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- Clement, Milton A., to General Dynamics Corp. Readout amplifier circuit for toll ticketing. 2,942,067, 6-21-60, Cl. 179—7.
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- Clement, Warren F., and D. R. Treffeisen, to Sperry Rand Corp. Stall prevention system for aircraft. 2,953,327, 9-20-60, Cl. 244—77.
- Clemente, Agostino, to Consolidated Cigar Corp. Tear tab machine. 2,957,689, 10-25-60, Cl. 271—2.4.
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- Clements, Shannon K.,  $\frac{1}{2}$  to H. M. Rush. Portable boom support attachment for vehicles. Re. 24,895, 11-15-60, Cl. 280—34.
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- Clements, Thomas W., to Moore Products Co. Pneumatic-electric relay. 2,953,657, 9-20-60, Cl. 200—81.
- Clements, Warner W. Sound reproducing means. 2,948,778, 8-9-60, Cl. 179—1.
- Clements, Walter. Can exchange apparatus for use with textile machines. 2,935,826, 5-10-60, Cl. 53—59.
- Clementson, Lars. Lipstick assembly. 2,953,142, 9-20-60, Cl. 132—79.
- Clemetsen, Erling A., and J. A. Escalator. 2,940,578, 6-14-60, Cl. 198—16.
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- Clemons, Dale R., to Western Electric Co., Inc. Electrical condensers. 2,921,113, 1-12-60, Cl. 174—50.54.
- Clemons, Dale R., to Western Electric Co., Inc. Methods of making electrical capacitors. 2,963,771, 12-13-60, Cl. 29—25.42.
- Clemons, Maurice M.: *See—*  
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- Clemson Bros., Inc.: *See—*  
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- Clemson, Richard D., to Clemson Bros., Inc. Power mower having drive controlled by mower handle. 2,924,055, 2-9-60, Cl. 56—26.



- Clemson, Richard D., to Clemson Bros., Inc. Controllable drive apparatus for rotary mowers. 2,941,610, 6-21-60, Cl. 180-19.
- Clendenin, Wilbur H., to International Harvester Co. Roll cleaner for belt conveyors. 2,945,581, 7-19-60, Cl. 198-229.
- Clentimack, George E., to Draper Corp. Fabric take-up for textile machines. 2,924,084, 2-9-60, Cl. 66-149.
- Clerc, Eugene. Apparatus for distributing and mixing two fluids. 2,949,923, 8-23-60, Cl. 137-98.
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- Cleveland, Donald S., to General Electric Co. Gyro integrator. 2,964,954, 12-20-60, Cl. 74-522.
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- Clevenger, Carl L., to General Motors Corp. Method of forming a splined sleeve. 2,947,081, 8-2-60, Cl. 29-547.
- Clevenger, Kyle D., to International Minerals & Chemical Corp. Clarification of acidic phosphatic solutions. 2,929,777, 3-22-60, Cl. 210-53.
- Clevers, Johannes A. N., to North American Phillips Co., Inc. Method of forming a tubular projection. 2,927,196, 3-1-60, Cl. 219-137.
- Clevite Corp.: *See*—  
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Wahrenberger, Arthur G., Mattingly, and Weinkamer. 2,923,581.
- Clewes, Anthony B., to United-Carr Fastener Corp. Apparatus for bending the ends of terminal leads or the like. 2,926,354, 3-1-60, Cl. 1-210.
- Clewes, Anthony B., to United-Carr Fastener Corp. Connector for printed circuit panels. 2,953,766, 9-20-60, Cl. 339-17.
- Clews, Kenneth J., and G. B. Roberts, to Marston Excelsior, Ltd. Arc cutting of metals. 2,923,809, Cl. 219-69.
- Cleybergh, John, to Webcor, Inc. Automatic record changer speed control. 2,966,358, 12-27-60, Cl. 274-10.
- Cliborn, Robert, to Thompson Ramo Wooldridge Inc. Aerodynamic overspeed control for turbines. 2,951,678, 9-6-60, Cl. 253-59.
- Clickner, Forest H., to Soluble Nutrients, Inc. Stabilized liquid animal and poultry food supplement. 2,965,489, 12-20-60, Cl. 99-9.
- Clifford, Cecil F., to Horstmann Clifford Magnetics Ltd. Self-starting magnetic escapement mechanisms. 2,946,183, 7-26-60, Cl. 58-116.
- Clifford, Herbert B., and D. H. McNeil, to Massey-Ferguson Inc. Adjustable header device for hillside combine. 2,947,134, 8-2-60, Cl. 56-209.
- Clifford, Horstmann, Magnetics Ltd.: *See*—  
Clifford, Cecil F. 2,946,183.
- Clifford, Ivy B. Dough mixer and kneader. 2,946,299, 7-26-60, Cl. 107-38.
- Clifford, John E.: *See*—  
Faust, Charles L., and Clifford. 2,939,825.  
McCallum, John, Clifford, and Semones. 2,929,860.
- Clifford, John S., to Chicago Pottery Co. Method of making hollow-walled flush tanks. 2,948,902, 8-16-60, Cl. 4-68.
- Clifford, Robert A.: *See*—  
Agron, Albert, and Clifford. 2,939,103.  
Clift, Giles D. Liquid projectile propellant for military ammunition. 2,960,031, 11-15-60, Cl. 102-40.
- Clift, Paul E., to Thomas Hunter Ltd. Sealing containers. 2,963,835, 12-13-60, Cl. 53-42.
- Clifton Conduit Corp.: *See*—  
Pearson, William S. 2,934,981.
- Cline, Charles W., and S. G. Von Stocker, to Aluminum Co. of America. Ultrasonic test apparatus. 2,957,092, 10-18-60, Cl. 310-37.
- Cline, Delbert C., to The Firestone Tire & Rubber Co. Sealing closure. 2,923,305, 2-2-60, Cl. 135-15.
- Cline, Earl E.: *See*—  
Holmes, Ernest W., Jr., Cline, and Holmes. 2,921,697.
- Cline, Earl E., to Ernest Holmes Co. Wreckers. 2,928,557, 3-15-60, Cl. 212-145.
- Cline, Edwin L.: *See*—  
Sturrock, Murray G., Cline, and Robinson. 2,942,030.  
Sturrock, Murray G., Cline, Robinson, and Zerger. 2,964,529.
- Cline, Edward T., to E. I. du Pont de Nemours and Co. Process of forming graft polymers on a shaped polymeric organic substrate. 2,956,899, 10-18-60, Cl. 117-47.
- Cline, Kermit R. Combination washer and drier. 2,957,330, 10-25-60, Cl. 68-20.
- Cline, Paul G.: *See*—  
Cook, Raymond F., and Cline. 2,949,662.
- Cline, Robert A.: *See*—  
Tonjes, Burl D., and Cline. 2,959,285.
- Cline, Robert S., to V. E. Anderson Mfg. Co., Inc. Lever type reversible right or left jalousie operator. 2,930,251, 3-29-60, Cl. 74-491.
- Cline, Robert S., to V. E. Anderson Mfg. Co., Inc. Actuating means for an operating mechanism for pivoted closures of a jalousie window. 2,952,050, 9-13-60, Cl. 20-62.
- Cline, Truman H., to Sears, Roebuck and Co. Differential control valve for fluid operated vehicles. 2,949,971, 8-23-60, Cl. 180-63.
- Clinehens, Richard M., to The National Cash Register Co. Apparatus for making magnetic tape. 2,927,889, 3-8-60, Cl. 204-216.
- Clingenpeel, William R. Aircraft battery vent plug. 2,955,607, 10-11-60, Cl. 137-43.



- Clingman, Paul E., to General Motors Corp. Cabinet frame-work. 2,956,705, 10-18-60, Cl. 220-80.
- Clinkenbeard, Rex L. Valve. 2,926,884, 3-1-60, Cl. 251-210.
- Clinton Engines Corp.: See—  
Smith, Donald J. 2,924,254.  
Thomas, Donald D. 2,926,695.
- Clinton, Ernest, and J. G. Willard, to Ethyl Corp. Stabilized cyclopentadienyl manganese tricarbonyls. 2,953,587, 9-20-60, Cl. 260-429.
- Clinton, Otto M., to General Mills, Inc. Dough cutting and can filling machine. 2,941,341, 6-21-60, Cl. 53-123.
- Clinton, Otto M., to General Mills, Inc. Article orienting device. 2,941,650, 6-21-60, Cl. 198-30.
- Clipper Mfg. Co.: See—  
Janowitz, Robert. 2,927,572.
- Clocker, Edwin T.: See—  
Wahlroos, Arvi W., and Clocker. 2,931,499.
- Clogston, Albert M., to Bell Telephone Laboratories, Inc. Microwave mode suppressors. 2,948,870, 8-9-60, Cl. 333-98.
- Clonis, Plouton G., and J. A. McDorman. Screen printing apparatus. 2,949,847, 8-23-60, Cl. 101-122.
- Clore, Thomas H.: See—  
Carter, Willis M., Clore, and Lange. 2,929,589.
- Clore, William R.: See—  
Foster, George B., and Clore. 2,951,161.
- Close, Charles F., to Arlington Seating Co. Desk and method for the manufacture thereof. 2,961,282, 11-22-60, Cl. 312-255.
- Close, Donald K.: See—  
Barbeau, Raymond A., and Close. 2,954,435.  
Barbeau, Raymond A., Natvig, Norris, and Close. 2,958,727.
- Close, Warren J., and D. A. Dunnigan, to Abbott Laboratories. Urazoles. 2,944,060, 7-5-60, Cl. 260-308.
- Closs, George F., to Garlock, Inc. Rotary mechanical seal. 2,949,322, 8-16-60, Cl. 286-11.
- Closson, Rex D.: See—  
McDermott, John P., and Closson. 2,922,738.
- Closson, Rex D., and W. T. Smith, Jr., to Pittsburgh Coke and Chemical Co. Chloronitronaphthalenes as fungicides. 2,955,072, 10-4-60, Cl. 167-32.
- Clothier, Darrell S., and R. L. Trout, to Future Tool Co. Extensible torque bar. 2,963,930, 12-13-60, Cl. 81-177.
- Clothier, Fred H. Visual aircraft finder. 2,949,094, 8-16-60, Cl. 116-124.
- Cloud, Harold A., and W. J. McGoldrick, Jr., to Minneapolis-Honeywell Regulator Co. Humidity control means for controlling the flow of outside air through a crop storage building. 2,935,009, 5-3-60, Cl. 98-54.
- Cloud, Peter R.: See—  
Kowalsky, John, Saltzman, and Cloud. 2,953,784.
- Cloud, Raymond T., to Mandrel Industries, Inc. Terrain meter. 2,934,991, 5-3-60, Cl. 88-27.
- Cloud, Raymond T., to North American Geophysical Co. Ballast compensated pendulum. 2,952,920, 9-20-60, Cl. 33-215.
- Cloud, Robert W., and J. G. Trump, to High-Voltage Engineering Corp. High-vacuum pumps for high-voltage acceleration tubes. 2,925,504, 2-16-60, Cl. 313-7.
- Clough, Edward L.,  $\frac{1}{2}$  to P. L. Hewey. Safety fish hook. 2,949,690, 8-23-60, Cl. 43-36.
- Clough, George A.: See—  
Arridge, Robert G. C., Clough, and Pell. 2,947,136.
- Clough, Harry and L. E., to Gadget-Of-The-Month Club. Vacuum tin key guard. 2,942,755, 6-28-60, Cl. 220-52.
- Clough, Lora E.: See—  
Clough, Harry and L. E. 2,942,755.
- Clough, Robert C., H. A. Dvorak, and J. S. Gellatly, to Western Electric Co., Inc. Apparatus for testing the weld strength between parts welded together. 2,924,969, 2-16-60, Cl. 73-101.
- Cloupeau, Michel, to Centre National de la Recherche Scientifique. Method of and apparatus for increasing optical effects. 2,920,527, 1-12-60, Cl. 88-24.
- Clouse, Earl L.: See—  
Weber, Karl F., Clouse, and Norby. 2,934,181.
- Cloutier, Frederick J.: See—  
Yogus, William, and Cloutier. 2,946,245.
- Cloutier, Joseph V.: See—  
Hamel, Armand D., and Cloutier. 2,956,485.
- Clover, Henrietta. Support structure. 2,963,023, 12-6-60, Cl. 128-483.
- Club Razor Blade Mfg. Co.: See—  
Holohan, Bartholomew A. 2,919,795.
- Cluett, Peabody & Co., Inc.: See—  
Pfeffer, Edward C., Jr. 2,925,642.
- Cluff, Kenneth C. Feed mechanism for drilling apparatus. 2,964,296, 12-13-60, Cl. 255-47.
- Clupak, Inc.: See—  
Balough, Harold O. 2,950,224.
- Cluwen, Johannes M.: See—  
Jonker, Gerard H., and Cluwen. 2,920,276.
- Cluwen, Johannes M., to North American Philips Co., Inc. Transistor amplifier. 2,929,997, 3-22-60, Cl. 330-18.
- Clyde Iron Works, Inc.: See—  
Fox, Robert P. 2,933,197.
- Clymer, Joseph D.: See—  
Wright, George W., and Clymer. 2,935,025.  
Wright, George W., and Clymer. 2,947,259.
- Clyne, Clarence T. Illuminated writing board. 2,955,194, 10-4-60, Cl. 240-64.
- Clyne, Joseph, to Flexsleeve, Inc. Garment construction particularly dress shirts. 2,943,330, 7-5-60, Cl. 2-125.
- Coad, Brian C., to Morganite Inc. Process for producing a metal-lubricant bearing, electrical contact, and the like. 2,964,476, 12-13-60, Cl. 252-26.
- Coakley, James J., to Westinghouse Air Brake Co. Railway track switch controlling apparatus. 2,961,206, 11-22-60, Cl. 246-258.
- Coakley, Lige, to Bemis Bro. Bag Co. Bag machinery. 2,919,789, 1-5-60, Cl. 198-35.
- Coakley, Lige, to Bemis Bro. Bag Co. Bag manufacture. 2,956,801, 10-18-60, Cl. 271-5.
- Coakley, William R.: See—  
Shute, Charles F., Coakley, and Peck. 2,937,559.
- Coal Industry (Patents) Ltd.: See—  
Anderton, James. 2,962,271.  
Critchley, Octavius H., Bennett, and Sammons. 2,927,292.  
Davies, Maynard J. 2,935,310.  
Gregory, Harry R., and Kendal. 2,954,583.  
Phillips, James W., Thomas, and Walton. 2,948,469.
- Coal Tar Research Assn., The: See—  
Pinchbeck, Peter H., and Popper. 2,941,957.
- Coale, Edgar B., and L. F. Levy. Construction in electrically conducting transparent panel. 2,932,710, 4-12-60, Cl. 219-19.
- Coale, Franklin S., to Sperry Rand Corp. Microwave pulser. 2,930,004, 3-22-60, Cl. 333-24.
- Coan, Donald J.: See—  
Cavalier, Alphonse A., and Coan. 2,938,644.
- Coanda, Henri, to Sebac Nouvelle S.A. Apparatus for imparting rapid speed to a mass of fluid. 2,920,448, 1-12-60, Cl. 60-3949.
- Coanda, Henri, to Sebac Nouvelle S.A. Airplane wing with boundary layer control. 2,939,650, 6-7-60, Cl. 244-42.
- Coanda, Henri, to Sebac Nouvelle S.A. Device for the simultaneous control of lifting and directional elements. 2,939,654, 6-7-60, Cl. 244-79.
- Coanda, Henri, to Sebac Nouvelle S.A. Jet propelled aircraft. 2,946,540, 7-26-60, Cl. 244-15.
- Coanda, Henri, to Sebac Nouvelle S.A. Thermo-blower. 2,964,306, 12-13-60, Cl. 263-19.
- Coanet, Guy M., to Compagnie des Machines Bull (Societe Anonyme). Differential driving mechanism. 2,940,340, 6-14-60, Cl. 74-757.
- Coar, Richard J., to United Aircraft Corp. Fuel control for turboprop engine. 2,941,602, 6-21-60, Cl. 170-135.74.
- Coar, Richard J., and W. W. Jacobus, to United Aircraft Corp. Tangential bearing supports. 2,936,999, 5-17-60, Cl. 253-39.
- Coast Mfg. and Supply Co.: See—  
Merritt, James A. 2,930,634.
- Coast Metals, Inc.: See—  
Cape, Arthur T. 2,944,891.  
Lamb, Kenneth. 2,957,630.  
White, Harry G., and Zampieri. 2,946,430.
- Coast Pro-Seal & Mfg. Co.: See—  
Mineah, Lawrence E. 2,928,689.
- Coast Pro-Seal Mfg. Co.: See—  
Snow, Floyd E., and York. 2,963,736.
- Coastal Supply & Chemical Co.: See—  
Marron, Arthur W., Prawlucki, and Burns. 2,930,334.
- Coates, Donald B. H.: See—  
Smith, Donald R., and Coates. 2,944,357.
- Coates, Francis J.: See—  
Titus, Robert W., and Coates. 2,958,272.
- Coates, Harold, to Albright & Wilson (Mfg.) Ltd. Production of phosphorus-containing polyester resins. 2,963,451, 12-6-60, Cl. 260-2.
- Coates, Raiffe G.: See—  
Riley, Harry L., Norris, and Coates. 2,955,807.
- Coates, William H., to British Titan Products Co. Ltd. Separation of metallic halides. 2,953,218, 9-20-60, Cl. 183-120.
- Coates, William H., and J. Hayden, to British Titan Products Co. Ltd. Discharge of solids precipitated from chlorination gases. 2,943,704, 7-5-60, Cl. 183-119.
- Coates, William H., and J. Hayden, to British Titan Products Co. Ltd. Apparatus for the distribution of gases. 2,957,757, 10-25-60, Cl. 23-284.
- Coastguard Separators Ltd.: See—  
Thompson, Herbert A. 2,942,733.
- Coats & Clark Inc.: See—  
Morin, Louis H. 2,926,485.  
Morin, Louis H. 2,926,866.  
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Morin, Louis H. 2,922,596.  
Morin, Louis H. 2,942,407.  
Morin, Louis H. 2,944,757.  
Morin, Louis H. 2,958,904.  
Morin, Louis H. 2,958,972.  
Morin, Louis H. 2,961,708.  
Morin, Louis H. 2,961,715.  
Morin, Louis H. 2,961,717.  
Morin, Louis H. 2,961,826.  
Morin, Louis H. 2,966,026.
- Cobaugh, Robert F., to AMP Inc. Electrical connector. 2,951,228, 8-30-60, Cl. 339-115.
- Cobb, Carolus M.: See—  
Mason, Edward A., and Cobb. 2,928,721.  
Mason, Edward A., and Cobb. 2,928,724.



- Cobb, Clifton A.: *See*—  
Schell, Paul, Cobb, Brenner, and Krolzick. 2,931,200.
- Cobb, Clifton A., to Penn Controls, Inc. Ignition and control means for burners. 2,919,750, 1-5-60, Cl. 158—128.
- Cobb, Clifton A., to Whirlpool Corp. Clothes dampener for clothes driers. 2,941,309, 6-21-60, Cl. 34—60.
- Cobb, Clifton A., and H. H. Morris, to Whirlpool Corp. Automatic lint remover. 2,925,664, 2-23-60, Cl. 34—79.
- Cobb, Clifton A., and J. T. Williams, to Whirlpool Corp. Laundry drier heater element control. 2,941,308, 6-21-60, Cl. 34—48.
- Cobb, David A., to International Harvester Co. Windrowing arrangement for mowers. 2,952,112, 9-13-60, Cl. 56—192.
- Cobb, George R., and P. H. Schroeder, to Danley Gordon. Telephone sterilizer. 2,952,749, 9-13-60, Cl. 179—185.
- Cobb, Joseph R., Jr., to Phillips Petroleum Co. Dual absorption process with a reboiled absorption zone. 2,955,081, 10-4-60, Cl. 208—344.
- Cobb, Joseph R., Jr., to Phillips Petroleum Co. Production of butadiene. 2,963,522, 12-6-60, Cl. 260—680.
- Cobb, Joseph R., Jr., to Phillips Petroleum Co. Stripping hydrogen halide from hydrocarbons. 2,964,385, 12-13-60, Cl. 23—154.
- Cobb, Joseph R., Jr., J. W. Davison, and R. E. Sattler, to Phillips Petroleum Co. Method and apparatus for storage and transportation of acetylene. 2,938,359, 5-31-60, Cl. 62—47.
- Cobb, Leland D., to General Motors Corp. Demountable closure. 2,962,308, 11-29-60, Cl. 286—5.
- Cobb, Richard D. Anchor. 2,937,609, 5-24-60, Cl. 114—208.
- Cobbett, Leonard C., and E. D. Winkler, to Albert & J. M. Anderson Mfg. Co. Insulated electrical connector. 2,955,275, 10-4-60, Cl. 339—59.
- Cobble Brothers Machinery Co.: *See*—  
Card, Joseph L. 2,935,037.
- Cobel, George B., to The Dow Chemical Co. Separation of calcium metal from contaminants. 2,960,397, 11-15-60, Cl. 75—67.
- Cobel, George B., and J. A. Rogers, to The Dow Chemical Co. Agglomerating titaniferous materials by use of hydrochloric acid. 2,963,360, 12-6-60, Cl. 75—3.
- Coberly, Clarence J., to Kobe Inc. High pressure pumping system. 2,929,327, 3-22-60, Cl. 103—46.
- Coberly, Clarence J., to Kobe, Inc. Closed-system single-acting fluid-operated pump. 2,935,953, 5-10-60, Cl. 103—46.
- Coberly, Clarence J., to Wulff Process Co. Ceramic checker and assembly thereof. 2,936,162, 5-10-60, Cl. 263—51.
- Coberly, Clarence J., to Kobe, Inc. Fluid operated multiplex pump. 2,939,397, 6-7-60, Cl. 103—5.
- Coberly, Clarence J., to Kobe, Inc. Casingless, multiple-tubing well completing and producing system. 2,939,533, 6-7-60, Cl. 166—68.
- Coberly, Clarence J., to Wulff Process Co. Process of and apparatus for gas phase pyrolysis of liquid hydrocarbons. 2,945,905, 7-19-60, Cl. 260—679.
- Coberly, Clarence J., to Kobe, Inc. Fluid operated pump with separate engine valve. 2,949,857, 8-23-60, Cl. 103—46.
- Coberly, Clarence J., to Kobe, Inc. Fluid-operated pump with spaced motor and pump sections. 2,952,212, 9-13-60, Cl. 103—46.
- Coberly, Clarence J., to Kobe, Inc. Full opening standing valve installation for bottom hole pump. 2,952,220, 9-13-60, Cl. 103—219.
- Coberly, Clarence J., to Wulff Process Co. Furnace assemblies and combination of such furnaces. 2,956,864, 10-18-60, Cl. 23—277.
- Cobert, Arthur J., 50% to Beautiful Bryans, Inc. Fabric take-up for a flat knitting machine. 2,920,468, 1-12-60, Cl. 66—152.
- Cobham, Alan J., C. H. Latimer-Needham, C. H. Smith, and P. S. Macgregor, to Flight Refuelling Ltd. Apparatus for towing and refueling aircraft in flight. 2,953,332, 9-20-60, Cl. 244—135.
- Cobi, Walter H. Pile-driving mandrel. 2,933,899, 4-26-60, Cl. 61—79.
- Cobi, Walter H. Form jacks. 2,949,982, 8-23-60, Cl. 189—37.
- Cobi, Walter H. Ball-pile tubes. 2,963,869, 12-13-60, Cl. 61—53.6.
- Cobine, James D.: *See*—  
Collidge, Arthur W., Jr., and Cobine. 2,930,922.
- Coble, Lucian G. Swallowing coordinator. 2,946,124, 7-26-60, Cl. 32—32.
- Coble, Robert B., to Collins Radio Co. Frequency detecting system with gated output. 2,941,156, 6-14-60, Cl. 331—30.
- Coblentz, Robert C. Air cooling system. 2,939,296, 6-7-60, Cl. 62—180.
- Coblentz, William H., and D. W. Scott, to General Motors Corp. Method of making multiple passage heat exchanger. 2,927,369, 3-8-60, Cl. 29—157.3.
- Coburn, Richard, and J. M. Hedlun. Three-coordinate radar simulator. 2,944,346, 7-12-60, Cl. 35—10.4.
- Coca-Cola Bottling Works Co., The: *See*—  
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- Cocchiari, Michael: *See*—  
Berger, Uriah S., and Cocchiari. 2,929,048.
- Cocci, Alfred J., to E. I. du Pont de Nemours and Co. Polyamide molding compositions. 2,948,693, 8-9-60, Cl. 260—32.6.
- Cochran, Arthur M., Jr. Fluid proportioning device. 2,949,924, 8-23-60, Cl. 137—99.
- Cochran, Carl J., P. C. Lawson, and T. G. Wright, to Pittsburgh Plate Glass Co. Machine for preparing composite assemblies. 2,920,989, 1-12-60, Cl. 154—2.7.
- Cochran, Chappelle C.: *See*—  
Cole, John W., Julian, Cochran, Regan, and Printy. 2,956,052.
- Cochran, Chudleigh B.: *See*—  
Brown, Cicero C., and Cochran. 2,936,832.
- Cochran, Clarence W., to United-Carr Fastener Corp. Fastening device. 2,950,513, 8-30-60, Cl. 24—73.
- Cochran, James E., Jr., K. Gerzon, and J. Mills, to Eli Lilly and Co. Bis-epoxypropyldiamines. 2,963,482, 12-6-60, Cl. 260—268.
- Cochran, Raymond J. Cover for pressurized fluid container. 2,961,128, 11-22-60, Cl. 222—182.
- Cochrane, Chappelle C.: *See*—  
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Julian, Percy L., Magnani, and Cochrane. 2,497,765.
- Cochrane Corp.: *See*—  
Peterson, John W. 2,920,649.
- Cochrane, Donald P., and A. L. Stoeckel, to United States Steel Corp. Wire fabric reeling mandrel with rotatably retractable winding hooks. 2,941,743, 6-21-60, Cl. 242—72.
- Cochrane, John, and D. T. Mills. Inflatable life boat. 2,928,108, 3-15-60, Cl. 9—2.
- Cochrane, Lester E.: *See*—  
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- Cochrane, Peter W. F., P. M. Reilly, E. P. Lewis, and W. J. L. Kearns, to Polymer Corp. Ltd. Dehydrogenation apparatus. 2,927,846, 3-8-60, Cl. 23—288.
- Cochrane, Reuel A., ½ to The Gamble Co., Inc. Method of clearing deposited material from hard surfaced roadways. 2,929,749, 3-22-60, Cl. 134—6.
- Cock, William H., to Arkell Safety Bag Co. Machine for and method of corrugated paper. 2,938,568, 5-31-60, Cl. 154—30.
- Cocker, John, III, to Cocker Machine and Foundry Co. Yarn package support. 2,930,542, 3-29-60, Cl. 242—130.
- Cocker, John, III, to Cocker Machine and Foundry Co. Combined textile fiber laying and slashing apparatus. 2,932,076, 4-12-60, Cl. 28—28.
- Cocker, John, III, to Cocker Machine and Foundry Co. Textile treating apparatus. 2,964,825, 12-20-60, Cl. 28—28.
- Cocker Machine and Foundry Co.: *See*—  
Cocker, John, III. 2,930,542.  
Cocker, John, III. 2,932,076.  
Cocker, John, III. 2,964,825.  
Freeze, William L. 2,963,767.  
Sherrill, Price E., Jr. 2,930,346.  
Walker, Charles P. 2,940,288.
- Cockrill, Huston W., to Raytheon Co. Reflex klystron assemblies. 2,936,398, 5-10-60, Cl. 315—5.19.
- Coda, Nello, and K. Challstrom, to Erie Resistor Corp. Network assembly method. 2,960,754, 11-22-60, Cl. 29—155.5.
- Coda, Severina: *See*—  
Pasini, Claudio, and Coda. 2,956,061.
- Codell, Maurice, and G. Norwitz, to United States of America, Army. Purification of bromine. 2,929,686, 3-22-60, Cl. 23—216.
- Codman, F. L. & J. C., Co.: *See*—  
Hall, Elisha W., and Rock. 2,920,428.
- Cody, William P., to Reichhold Chemicals, Inc. Coating compositions and liquid vehicles containing esters of polymerized fat acids and driers. 2,922,769, 1-26-60, Cl. 260—22.
- Coe, Bernard: *See*—  
Hager, Onslow B., and Coe. 2,932,671.
- Coe, Bernard, to Alco Oil & Chemical Corp. Method of treating soil with latex compositions. 2,961,799, 11-29-60, Cl. 47—9.
- Coe, Herbert A., to Magna Enterprize, Inc. Door handle and locking assembly. 2,929,649, 3-22-60, Cl. 292—169.
- Coe Mfg. Co., The: *See*—  
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Parker, Clarence E. 2,931,403.
- Coe, Merrill J., to KVP Sutherland Paper Co. Cartons and covers therefor. 2,949,222, 8-16-60, Cl. 229—41.
- Coe, Robert B., to The Trane Co. Power roof ventilator. 2,926,837, 3-1-60, Cl. 230—117.
- Coe, Thompson J., to United States of America, Agriculture. Shrinkproofing textiles with polyepoxides, polyamides, and ammonia. 2,933,366, 4-19-60, Cl. 8—128.
- Coe, Thompson J., to United States of America, Agriculture. Shrinkproofing wool by mechanical treatment. 2,958,910, 11-8-60, Cl. 19—98.
- Coe, William D., and H. S. Murray; said Murray assor. to said Coe. Bulk storage system. 2,945,271, 7-19-60, Cl. 21—109.
- Coenen, Max, J. Gotze, U. Grisar, O. Riestler, W. Stracke, and K. Zietan, to Agfa Aktiengesellschaft. Optical sensitization of direct positive emulsions. 2,930,694, 3-29-60, Cl. 96—100.
- Coenen, Max, and O. Weissel, to Farbenfabriken Bayer Aktiengesellschaft.  $\omega$ -aldehydes of N-substituted  $\omega$ -cyanomethylene indoline derivatives. 2,957,005, 10-18-60, Cl. 260—319.
- Coes, Loring, Jr., to Norton Co. Grinding wheel and wheel diameter measuring apparatus. 2,947,121, 8-2-60, Cl. 51—134.5.



- Coes, Loring, Jr., and M. S. Champagne, to Norton Co. Grinding wheel structure. 2,947,616, 8-2-60, Cl. 51-296.
- Coester, Robert, to Maschinenfabrik Benninger A.-G. Turbo-machine. 2,965,284, 12-20-60, Cl. 230-45.
- Coetier, Frederik, to North American Philips Co., Inc. Device for converting Pn-cycles pulse code modulation into pulse position modulation. 2,931,982, 4-5-60, Cl. 328-109.
- Coevtaux, Georges E., M. J. Deramond, and E. A. Hughes. Optical instrument for aiming direct-firing firearms. 2,964,991, 12-20-60, Cl. 88-2-6.
- Coffee, Ralph E., to Olin Mathieson Chemical Corp. Treatment of plastics. 2,964,521, 12-13-60, Cl. 260-223.
- Coffee, Wendell: See—  
Megert, Karl A., Jr., and Line. 2,943,593.
- Taylor, Charles R. 2,923,523.
- Coffelt, Lester S. Guide fixture for flush tanks. 2,956,286, 10-18-60, Cl. 4-57.
- Coffey, Charles D., to Minneapolis-Honeywell Regulator Co. Snap-acting thermostatic valve. 2,965,352, 12-20-60, Cl. 251-58.
- Coffey, Daniel J. Flashlight umbrella or cane. 2,966,578, 12-27-60, Cl. 240-6-42.
- Coffey, Frank O., L. J. Hayhurst, and G. H. Kraft, to National Dairy Products Corp. Packaging cheese. 2,955,045, 10-4-60, Cl. 99-178.
- Coffey, George R. Shoe lace. 2,961,727, 11-29-60, Cl. 24-143.
- Coffey, Irven E., to ACF Industries, Inc. Electro-dynamic fuel pump. 2,926,615, 3-1-60, Cl. 103-152.
- Coffey, Irven E., to ACF Industries, Inc. Fuel pump air bleed. 2,965,088, 12-20-60, Cl. 123-179.
- Coffey, William D.: See—  
Tatalay, Anselm, Coffey, and Tatalay. 2,926,390.
- Coffey, William N., to United States of America. Air Force. Stabilized oscillator. 2,930,990, 3-29-60, Cl. 331-116.
- Coffield, Thomas H., to Ethyl Corp. 3,5-dialkyl-4-hydroxy benzylamines. 2,962,531, 11-29-60, Cl. 260-570-9.
- Coffield, Thomas H., and N. Hebert, to Ethyl Corp. Preparation of cyclopentadienyl manganese tricarbonyl compounds. 2,927,935, 3-8-60, Cl. 260-429.
- Coffield, Thomas H., and N. Hebert, to Ethyl Corp. Ammonia manganese carbonyl halide and process for producing. 2,942,936, 6-28-60, Cl. 23-14.
- Coffield, Thomas H., and A. H. Filbey, to Ethyl Corp. 1,1-bis(3,5-dialkyl-4-hydroxyphenyl) methanes. 2,944,086, 7-5-60, Cl. 260-619.
- Coffin, John E., to Boeing Airplane Co. Thermostatic damper. 2,952,337, 9-13-60, Cl. 188-100.
- Coffin, Louis F., Jr., to General Electric Co. High damping twisted wire. 2,930,918, 3-29-60, Cl. 313-83.
- Coffing, James R. Ground elevation indicator dial for aircraft altimeter. 2,943,597, 7-5-60, Cl. 116-131.
- Coffman, Myron T. Apparatus for loading coal. 2,925,899, 2-23-60, Cl. 198-7.
- Coffman, Robert S.: See—  
Hansen, Franklin A., and Coffman. 2,954,897.
- Coffman, Robert S., to Black, Sivalls & Bryson, Inc. Safety pressure relief device. 2,933,279, 9-20-60, Cl. 220-89.
- Cofield, Thomas R., to The Aluminum Fences, Inc. Picket type sheet metal fences. 2,962,263, 11-29-60, Cl. 256-22.
- Cofrancesco, Anthony J., and S. M. Roberts, to General Aniline & Film Corp. Production of dicyandiamideformaldehyde reaction products. 2,950,268, 8-23-60, Cl. 260-69.
- Cogan, Myles H. R., to Shell Oil Co. Connections between reinforced, pre-cast concrete structures and method of making same. 2,948,995, 8-16-60, Cl. 50-179.
- Cogan, Stanley W.: See—  
Boltinghouse, Joseph C., and Cogan. 2,925,590.
- Cogepa Etablissement Commercial: See—  
Vieli, Otto A., and Klenk. 2,933,767.
- Coggeshall, Norman D., to Gulf Research & Development Co. Multiple column chromatographic apparatus. Re. 24,876, 9-17-60, Cl. 73-23.
- Coggin, Julius T., to Thayer Coggin, Inc. Storable protective furniture cover. 2,937,695, 5-24-60, Cl. 155-182.
- Coggin, Thayer, Inc.: See—  
Coggin, Julius T. 2,937,695.
- Coghill, Henry D., to General Electric Co. Burn-resistant phosphors and the method of preparation thereof. 2,936,246, 5-10-60, Cl. 117-33.5.
- Cogley, James J., F. A. Little, and M. J. Starkey, to Datran Engineering Corp. Pressure transducer. 2,930,009, 3-22-60, Cl. 336-30.
- Cogniat, Marcel, M. De Fromont, and P. Jacquemier, to Societe d'Electro-Chimie, d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Differential flowmeter. 2,946,220, 7-26-60, Cl. 73-196.
- Cogsdill, Stuart A., to Cogsdill Tool Products, Inc. Deburring tool. 2,940,367, 6-14-60, Cl. 90-12.
- Cogsdill Tool Products, Inc.: See—  
Cogsdill, Stuart A. 2,940,367.
- Muldoon, John J. 2,929,278.
- Cohan, Henry, to Motorola, Inc. Pneumatic timer. 2,953,094, 9-20-60, Cl. 102-82.
- Cohea, James T. Control apparatus for refrigeration system. 2,943,458, 7-5-60, Cl. 62-204.
- Cohen, Abraham E., and M. H. Jachter, to United States of America, Army. Radiation detector and method for checking the calibration thereof. 2,931,907, 4-5-60, Cl. 250-83.6.
- Cohen, Alfred G.: See—  
Small, Samuel N. 2,951,492.
- Small, Samuel N. 2,960,094.
- Cohen, Charles A., to Esso Research and Engineering Co. Esters of cyclopentane-1,3-dicarboxylic acid. 2,957,022, 10-18-60, Cl. 260-468.
- Cohen, David, to United States of America, Army. Apparatus for locked oscillator frequency division. 2,920,285, 1-5-60, Cl. 331-42.
- Cohen de Lara, Georges, P. Chagnon, M. Delachanal, J. Hure, and R. Platzter, to Etablissement Public: Commissariat A L'Energie Atomique. Apparatus for controlling the rate of discharge of materials through an outlet. 2,946,667, 7-26-60, Cl. 23-270.
- Cohen, Erwin M., and L. L. Lerner, to The Gillette Co. Tyrosinase concentrate and extractant and method for making same. 2,956,929, 10-18-60, Cl. 195-68.
- Cohen, Gene, and F. H. Tobin, to Sylvania Electric Products Inc. Hermetically sealed semiconductor device and manufacture thereof. 2,960,641, 11-15-60, Cl. 317-235.
- Cohen, George, 600 Group Ltd., The: See—  
Hayward, Albert J. 2,931,234.
- Hayward, Albert J. 2,931,235.
- Cohen, Henry B. Wire guard and method of making the same. 2,955,192, 10-4-60, Cl. 219-58.
- Cohen, Herman, to Princeton Laboratories, Inc. Process for the isolation of relaxin using glacial acetic acid. 2,930,737, 3-29-60, Cl. 167-74.
- Cohen, Jerome: See—  
Veis, Arthur, and Cohen. 2,935,413.
- Cohen, Johann G. E., A. J. Haley, Jr., and H. A. Shields, to Engelhard Industries Inc. Catalyst for the selective hydrogenation of acetylene. 2,927,141, 3-1-60, Cl. 260-677.
- Cohen, Joseph: See—  
Henry, Ronald A., and Cohen. 2,946,820.
- Cohen, Karl: See—  
Skarstrom, Charles, Cohen, and Urey. 2,947,472.
- Cohen, Karl, to United States of America, Atomic Energy Commission. Method of centrifuge operation. 2,936,110, 5-10-60, Cl. 233-13.
- Cohen, Maurice. Garment hanger. 2,944,675, 7-12-60, Cl. 211-124.
- Cohen, Maurice. Garment display rack. 2,960,239, 11-15-60, Cl. 211-165.
- Cohen, Merrill: See—  
Cypher, George A., and Cohen. 2,959,564.
- Cohen, Morris U.: See—  
Michaels, Edwin B., and Cohen. 2,949,336.
- Cohen, Morton R. Chair construction. 2,952,300, 9-13-60, Cl. 155-2.
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- Cohen, Murray S., and J. Green, to Thiokol Chemical Corp. Preparation of chlorofluorosilanes by the selective fluorination of chloroalkoxysilanes with boron trifluoride. 2,927,938, 3-8-60, Cl. 260-448.8.
- Cohen, Nathaniel L., to United States of America, Navy. Phase control system. 2,935,692, 5-3-60, Cl. 328-34.
- Cohen, Nathaniel L., and E. W. Van Winkle, to United States of America, Navy. Two-phase variable frequency power supply for motor. 2,923,871, 2-2-60, Cl. 318-171.
- Cohen, Oscar P., J. F. Heaps, and E. H. Rossin, to Monsanto Chemical Co. Paper coating process and compositions thereof. 2,961,419, 11-22-60, Cl. 260-23.
- Cohen, Oscar P., and M. D. Lindstrom, to Monsanto Chemical Co. Interpolymer latices comprising acrylates and monovinylidene aromatic hydrocarbons, process of preparing same and cellulose coated therewith. 2,961,421, 11-22-60, Cl. 260-29.6.
- Cohen, Philip. Work table. 2,935,210, 5-3-60, Cl. 211-147.
- Cohen, Ralph: See—  
Erickson, Alfred C., Feenstra, and Cohen. 2,926,360.
- Cohen, Robert M., to Radio Corp. of America. Frequency measuring apparatus. 2,934,703, 4-26-60, Cl. 324-70.
- Cohen, Samuel G., to General Precision Laboratory Inc. Weighing encoder. 2,920,316, 1-5-60, Cl. 340-347.
- Cohen, Saul M., and E. Lavin, to Shawinigan Resins Corp. Thermoplastic, high melting polyspiroanes. 2,963,464, 12-6-60, Cl. 260-67.
- Cohen, Sidney B., R. Scheib, Jr., and V. Vacquier, to Sperry Rand Corp. Shipboard degaussing system. 2,936,059, 4-19-60, Cl. 114-240.
- Cohen, Stanley L.: See—  
Mazza, Harold, Cohen, and Schafer. 2,940,820.
- Cohen, Sylvan I., M. S. Frant, and F. J. Sowa; said Cohen and said Frant assors. to Gallowhur Chemical Corp. Method of producing antiseptic articles. 2,938,814, 5-31-60, Cl. 117-138.5.
- Cohen, Sylvan I., M. S. Frant, and F. J. Sowa; said Cohen and said Frant assors. to Gallowhur Chemical Corp. Antiseptic brushes and other articles. 2,965,912, 12-27-60, Cl. 15-159.
- Cohler, Edmund U., and J. E. Monahan, to Sylvania Electric Products Inc. Digital to analog converter. 2,956,272, 10-11-60, Cl. 340-347.
- Cohn, Charles C., to S. L. and C. C. Cohn, d.b.a. Colonial Alloys Co. Dyeing of aluminum oxide coatings. 2,927,872, 3-8-60, Cl. 148-6.1.
- Cohn, Charles C., to S. L. and C. C. Cohn, copartners, trading as Colonial Alloys Co. Slide fastener and treatment thereof. 2,963,760, 12-13-60, Cl. 24-205.16.



- Cohn, David, to Model Plastic Corp. Articulated foot construction and mounting for a doll or the like. 2,925,683, 2-23-60, Cl. 46-173.
- Cohn, David, to Model Plastics Corp. Knee joint structure for walking dolls. 2,931,139, 4-5-60, Cl. 46-173.
- Cohn, David, to Model Plastic Corp. Weeping and wetting dolls. 2,934,856, 5-3-60, Cl. 46-135.
- Cohn, Eugene: *See—*
- Cohn, Samuel, J., and E. 2,944,317.
- Cohn, George. Fuel induction system for internal combustion engines. 2,925,257, 2-16-60, Cl. 216-145.
- Cohn, Irwin E. Motor drive for wheeled toys. 2,936,386, 5-10-60, Cl. 310-50.
- Cohn, Joseph: *See—*
- Cohn, Samuel, J., and E. 2,944,317.
- Cohn, Louis A. Dental saliva ejector. Re. 24,898, 11-22-60, Cl. 32-33.
- Cohn, Maurice. Machine for applying fastening devices to fabric articles. 2,922,162, 1-26-60, Cl. 1-3.
- Cohn, Maurice. Hook and eye garment fastener. 2,961,728, 11-29-60, Cl. 24-227.
- Cohn, Max. Mandrel and actuator. 2,928,621, 3-15-60, Cl. 242-72.1.
- Cohn, Nathan, to Leeds and Northrup Co. Computation of generation requirements with compensation for power interchanges associated with stored energy changes. 2,923,832, 2-2-60, Cl. 307-57.
- Cohn, Samuel L.: *See—*
- Cohn, Charles C. 2,927,872.
- Cohn, Charles C. 2,963,760.
- Cohn, Samuel, J., and E., to Samcoe Holding Corp. Method and apparatus for treating tubular fabrics. 2,944,317, 7-12-60, Cl. 26-18.5.
- Cohn, Seymour B.: *See—*
- Honey, Richard C., Jones, and Cohn. 2,954,558.
- Cohn, Seymour B., to United States of America, Army. Directional filters for strip-line transmissions systems. 2,922,123, 1-19-60, Cl. 333-10.
- Cohn, Seymour B., to United States of America, Army. Lumped constant directional filters. 2,942,209, 6-21-60, Cl. 333-10.
- Cohrs, William E.: *See—*
- Rector, Marion R., and Cohrs. 2,964,508.
- Cohrt, Henry F. Refrigeration apparatus. 2,958,212, 11-1-60, Cl. 62-441.
- Cohrt, Henry F. Refrigeration apparatus. 2,961,853, 11-29-60, Cl. 62-518.
- Cohn Electronics, Inc.: *See—*
- Massa, Frank. 2,932,776.
- Cohz, Jacob J.: *See—*
- Kozlik, Milan S. 2,954,889.
- Coil Handling Engineering Co.: *See—*
- Callender, Arthur R. 2,959,444.
- Coile, Benjamin F., to Textile Machine Works. Sinker structure for circular knitting machines. 2,925,724, 2-23-60, Cl. 66-107.
- Coile, Benjamin F., R. M. Janda, and K. C. Williams, to Textile Machine Works. Method of making a hosiery heel pocket. 2,939,303, 6-7-60, Cl. 66-43.
- Coit, Robert A., and S. S. Sorem, to Shell Oil Co. Method of lubricating metal surfaces with a vaporous lubricant. 2,952,355, 9-13-60, Cl. 184-1.
- Coke, Hugh W. Mineral flotation apparatus and method. 2,966,266, 12-27-60, Cl. 209-168.
- Coker, Frank B., to United Geophysical Corp. Magnetometer circuit. 2,942,179, 6-21-60, Cl. 324-43.
- Coker, Frank B., to United Geophysical Corp. Magnetic field measuring system. 2,942,180, 6-21-60, Cl. 324-43.
- Coker, James N., M. Fields, and A. O. Rogers, to E. I. du Pont de Nemours and Co. Production of indolylmethylhydantoin. 2,921,941, 1-19-60, Cl. 260-309.5.
- Coker, James N., M. Fields, and A. O. Rogers, to E. I. du Pont de Nemours and Co. Preparation of hydantoins from hydrozones. 2,937,184, 5-17-60, Cl. 260-309.5.
- Coker, James N., and W. H. Todd, to E. I. du Pont de Nemours and Co. Production of 3-indoleacetonitrile from substituted indoles. 2,949,469, 8-16-60, Cl. 260-319.
- Coker, William P.: *See—*
- Leathers, Joel M. F., and Coker. 2,964,558.
- Colaiaco, August P.: *See—*
- Boyer, John L., and Colaiaco. 2,933,662.
- Colalillo, Edward P.: *See—*
- Hild, Henry F., Lawser, and Colalillo. 2,951,436.
- Colangelo, Gabriel. Gripping device. 2,920,365, 1-12-60, Cl. 24-137.
- Colangelo, Ralph D. Coffee maker. 2,939,382, 6-7-60, Cl. 99-299.
- Colaritt Korrosions-G.m.b.H.: *See—*
- Von Ruling, Felix R. 2,924,392.
- Colbath, Dan L. Long span deck member. 2,924,310, 2-9-60, Cl. 189-34.
- Colbert, Charles, to Westgate Laboratory, Inc. Noise compensation means in a magnetic recorder. 2,937,241, 5-17-60, Cl. 179-100.2.
- Colbert, William H., and W. L. Morgan, to Libbey-Owens-Ford Glass Co. Light transmissive electrically conducting article. 2,949,387, 8-16-60, Cl. 117-211.
- Colbry, Norman R.: *See—*
- Hershey, Gordon F., and Colbry. 2,934,787.
- Colburn, William A., to Petroleum Research Corp. Method and apparatus for separating materials. 2,954,122, 9-27-60, Cl. 209-8.
- Colby, George E., to Magnetic Seal Corp. Tool chuck with fluid transfer. 2,937,029, 5-17-60, Cl. 279-20.
- Colby, George E., to Magnetic Seal Corp. Spring loaded seal. 2,944,843, 7-12-60, Cl. 286-11.14.
- Colby, Gerald W., to General Motors Corp. Filter element sealing construction. 2,955,713, 10-11-60, Cl. 210-450.
- Colby, Richard H., to United States of America, Army. Firearm breech mechanism with a laterally operated breech block. 2,953,066, 9-20-60, Cl. 89-186.
- Coldren, Clarke L.: *See—*
- Dybert, Justin C., and Coldren. 2,941,621.
- Cole, Addison D., R. G. Heaton, and M. A. Meyer, to United States of America, Air Force. Pulse measuring system. 2,920,283, 1-5-60, Cl. 331-12.
- Cole, Addison D., G. E. James, G. M. Nonnemaker, and R. L. Sternberg, to Laboratory for Electronics, Inc. Microwave reflector. 2,921,305, 1-12-60, Cl. 343-18.
- Cole, Bartlett F.: *See—*
- Bergstrom, Carl N., and Cole. 2,960,975.
- Cole, Benjamin R., and E. J. Sheldon, Jr., to United States of America, Navy. Electronic timing circuit. 2,939,004, 5-31-60, Cl. 250-27.
- Cole, Benjamin R., and E. J. Sheldon, Jr., to United States of America, Navy. Emergence signal detector pulse-forming means. 2,966,586, 12-27-60, Cl. 250-27.
- Cole, Burrell C.: *See—*
- Williams, Charlton H., and Cole. 2,924,855.
- Cole, Burrell C., to Small Business Administration. Cradle unit for apron type fiber attenuating apparatus. 2,932,068, 4-12-60, Cl. 19-131.
- Cole, Donald C.: *See—*
- Henry, William V., Cole, and Smathers. 2,949,722.
- Cole, Donald W., and H. H. Powell, to General Dynamics Corp. Method and apparatus for holding a work-piece. 2,937,437, 5-24-60, Cl. 29-424.
- Cole, E. K., Ltd.: *See—*
- Cox, Victor J., and Reeves. 2,925,309.
- Cole, Eric L.,  $\frac{1}{2}$  to Graviner Mfg. Co. Ltd. and  $\frac{1}{2}$  to Wilkinson Sword Ltd. Electric switches. 2,939,925, 6-7-60, Cl. 200-61.44.
- Cole, Francis K.: *See—*
- Brown, Lloyd H., and Cole. 2,943,912.
- Cole, Francis K., to The Quaker Oats Co. Azo dyestuffs and production thereof. 2,945,848, 7-19-60, Cl. 260-172.
- Cole, Frank E., to United Shoe Machinery Corp. Wax thread sewing machine with a looper. 2,931,326, 4-5-60, Cl. 112-42.
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- Anderson, Roy E., Cole, Kenneday, and Lamberson. 2,963,092.
- Cole, Gerald E., to Kleen-Stik Products, Inc. Label dispensing machine. 2,933,216, 4-19-60, Cl. 221-73.
- Cole, Harry G. Bottle. 2,920,777, 1-12-60, Cl. 215-1.
- Cole, Harry G. Baby bed structure. 2,963,712, 12-13-60, Cl. 5-186.
- Cole, Henry B., to American Optical Co. Optical image transfer devices. 2,939,362, 6-7-60, Cl. 88-16.8.
- Cole, Herbert M.: *See—*
- Kipp, Calvin P., and M. B. and H. M. Cole. 2,920,783.
- Cole, Herbert, Trust: *See—*
- Britcher, Charles W. 2,963,994.
- Cole, John M., to J. I. Case Co. Holding device for non-pivotally securing a pivotal link to a tractor. 2,929,458, 3-22-60, Cl. 172-446.
- Cole, John W., P. L. Julian, C. C. Cochran, B. M. Regan, and H. C. Printy, to Chas. Pfizer & Co., Inc. 5a,6B-dichloro-16,17a-epoxyallopregnanes. 2,956,052, 10-11-60, Cl. 260-239.55.
- Cole, Joseph: *See—*
- Johnson, Marvin F. L., and Cole. 2,932,619.
- Cole, Judson C., and C. R. Joslyn, to Bendix Aviation Corp. Electrical wiring harness. 2,933,550, 4-19-60, Cl. 174-76.
- Cole, Knox D. Variable feed mill throat for admitting whole bales of hay. 2,954,176, 9-27-60, Cl. 241-186.
- Cole, Lyndon C., and E. H. Brauer, Jr., to The Osborn Mfg. Co. Machine for brushing flat surfaces. 2,951,254, 9-6-60, Cl. 15-21.
- Cole, Melvin B.: *See—*
- Kipp, Calvin P., and M. B. and H. M. Cole. 2,920,783.
- Cole, Norman, to York Modern Corp. Combination grading tool. 2,920,405, 1-12-60, Cl. 37-145.
- Cole, Norman W., and L. M. Forster. Process for use in hot working metals. 2,962,808, 12-6-60, Cl. 29-424.
- Cole, Quintin P., to General Electric Co. Molding of polyethylene irradiated with high energy electrons. 2,919,473, 1-5-60, Cl. 18-48.
- Cole, Quintin P., to General Electric Co. Moldable polyethylene. 2,919,474, 1-5-60, Cl. 18-59.
- Cole, Quintin P., to General Electric Co. Sealing irradiated polyethylene. 2,936,261, 5-10-60, Cl. 154-139.
- Cole, Quintin P., to General Electric Co. Electron radiation meter. 2,938,122, 5-24-60, Cl. 250-83.3.
- Cole, Rex, to Rex Cole, Inc. Portable lamp. 2,951,935, 9-6-60, Cl. 240-108.
- Cole, Rex, Inc.: *See—*
- Cole, Rex. 2,951,935.
- Cole, Richard C., and F. T. Focht, to Jersey Production Research Co. Aligning means for well equipment. 2,963,090, 12-6-60, Cl. 166-85.



- Cole, Thomas D., to Lockport Mills, Inc. Dust mop with replaceable dusting material. 2,919,457, 1-5-60, Cl. 15-231.
- Cole, Thomas D., to Lockport Mills, Inc. Pillows or cushions. 2,942,281, 6-28-60, Cl. 5-341.
- Cole, Thomas M., to Federal Pacific Electric Co. Panel mountings for plug-in circuit breakers and circuit breakers with plug-in terminals. 2,921,240, 1-12-60, Cl. 317-119.
- Cole, Thomas M., and H. S. Wingard, to Federal Pacific Electric Co. Circuit breakers. 2,944,129, 7-5-60, Cl. 200-116.
- Cole, Ward, to General Motors Corp. Method of manufacture. 2,937,409, 5-24-60, Cl. 18-59.
- Cole, William. Woven tubular fabric. 2,935,096, 5-3-60, Cl. 139-387.
- Cole, William G.: See—  
Moore, Lorenzo D., and Cole. 2,925,117.
- Collee, Donald D., to Preco Inc. Automatic control mechanism for grading apparatus. 2,965,990, 12-27-60, Cl. 37-156.
- Coleman, Bestor P., to Acme Steel Co. Method of forming flexible tubing. 2,944,337, 7-12-60, Cl. 29-417.
- Coleman, Charles G., Jr., and H. Weiner. Methods and means for solving problems by progressive analysis. 2,948,969, 8-16-60, Cl. 35-9.
- Coleman, Charles H., to United States of America, Army. Rapid removal of organic coatings from tin plate. 2,955,965, 10-11-60, Cl. 134-38.
- Coleman Co., Inc.: See—  
Dubitzky, Michael. 2,931,190.  
Herrick, Wallace D. 2,952,875.  
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Newton, Alwin B. 2,966,342.  
Newton, Alwin B., and Qualley. 2,938,358.
- Coleman, Denis D., Krasznar, and A. F. McKay, to Monsanto Canada Ltd. Process for preparing polyester amides containing preformed amide linkages. 2,954,364, 9-27-60, Cl. 260-75.
- Coleman, Edmund F.: See—  
Brash, Mark P., Coleman, and McMann. 2,951,768.
- Coleman, Edward J., to H. Fishlove & Co. Novelty or ornament. 2,964,872, 12-20-60, Cl. 46-22.
- Coleman, Henri P., to United States of America, Navy. Passive reflector. 2,936,453, 5-10-60, Cl. 343-915.
- Coleman, Ivan V., to General Telephone Laboratories, Inc. Automatic toll ticketing telephone systems. 2,938,957, 5-31-60, Cl. 179-18.
- Coleman, Jesse L. Parachute toy. 2,922,251, 1-26-60, Cl. 46-86.
- Coleman, John D. Refuse and garbage disposal apparatus. 2,961,977, 11-29-60, Cl. 110-8.
- Coleman, John H., to Radiation Research Corp. Nuclear switch construction and method. 2,939,961, 6-7-60, Cl. 250-106.
- Coleman, Joseph J.: See—  
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Warren, Robert A., Wilke, and Coleman. 2,934,584.
- Coleman, Joseph J., to Serval, Inc. Boat light. 2,938,109, 5-24-60, Cl. 240-75.
- Coleman, Kenneth G.: See—  
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Lomen, Carlton J., and Coleman. 2,949,197.
- Coleman, Lester L., R. T. Shane, and L. B. Spaulding, to The Upjohn Co. Process for preparing heparin. 2,954,321, 9-27-60, Cl. 167-74.
- Coleman, Ralph A.: See—  
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- Coleman, Robert P., and G. S. Stubbs, to The Franklin Institute. Gust sensing apparatus for aircraft. 2,962,243, 11-29-60, Cl. 244-77.
- Coleman, Russell E.: See—  
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- Coleman, Susan E. Household hand mop. 2,936,471, 5-17-60, Cl. 15-136.
- Coleman, Thomas D.: See—  
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- Coleman, William B., to Victor Chemical Works. Liquid detergent compositions. 2,936,288, 5-10-60, Cl. 252-137.
- Coleman, William B., to Victor Chemical Works. Pickling and rust-inhibiting bath for ferrous metals, and use of same. 2,964,434, 12-13-60, Cl. 148-617.
- Coleman, William E., and T. A. McLauchlan, to United States Steel Corp. Method and apparatus for classifying sheets according to length. 2,933,185, 4-19-60, Cl. 209-82.
- Coleman, William E., and T. F. Reed, to United States Steel Corp. Apparatus for sonic treatment of gases and fluidized beds. 2,949,166, 8-16-60, Cl. 183-1.
- Coleandro, Geraldo, and D. Gubitosa. Lawn sprinkler head. 2,935,266, 5-3-60, Cl. 239-456.
- Coler, Myron A.: See—  
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- Coler, Myron A. Conductive plastic structure. 2,945,825, 7-19-60, Cl. 252-500.
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- Coler, Myron A., and A. S. Louis. Composition of matter comprising polystyrene and carboxyalkylated polyamines. 2,922,771, 1-26-60, Cl. 260-312.
- Coler, Myron A., and A. S. Louis. Molding compositions of vinylidene resin polymers and quaternary ammonium destaticizing compounds. 2,922,772, 1-26-60, Cl. 260-326.
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- Colerain Metal Products Co.: See—  
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- Coles, Harold W.: See—  
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- Coles, Henry L.: See—  
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- Coles, Ralph V., to Robertshaw-Fulton Controls Co. Test probe. 2,955,466, 10-11-60, Cl. 73-290.
- Coles, Robert F., to General Aniline & Film Corp. Process of producing carbodiimides. 2,946,819, 7-26-60, Cl. 260-551.
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- Coley, Nelson B., to General Railway Signal Co. Code communication system. 2,953,772, 9-20-60, Cl. 340-147.
- Colgate, Harry R., to Philco Corp. Method of manufacture of cathode ray tubes. 2,944,322, 7-12-60, Cl. 29-25.14.
- Colgate-Palmolive Co.: See—  
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- Colgate, Stephen. Jib magazine. 2,925,798, 2-23-60, Cl. 114-102.
- Colgate, Stirling A. Internal combustion apparatus. 2,936,743, 5-17-60, Cl. 123-7.
- Colgate, Stirling A., J. P. Ferguson, H. P. Furth, and R. E. Wright, to United States of America, Atomic Energy Commission. Apparatus for producing and manipulating plasmas. 2,946,914, 7-26-60, Cl. 313-231.
- Colgate, William H., Jr.: See—  
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- Colgren, Carl L., and R. G. Haas, to KYP Sutherland Paper Co. Cellular carton. 2,933,231, 4-19-60, Cl. 229-28.
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- Colinet, Rene D.: See—  
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- Colinet, Rene D., to La Soudure Electrique Autogene, S.A. Variable speed transmission. 2,929,255, 3-22-60, Cl. 74-119.
- Colker, James, to Westinghouse Air Brake Co. Radar simulation systems. 2,951,297, 9-6-60, Cl. 35-10.4.
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- Collat, Lewis B., to E. I. du Pont de Nemours and Co. Melt spinning apparatus with pivotally mounted blowbox. 2,940,122, 6-14-60, Cl. 18-8.
- Collavoli, Guido. Brake fluid level indicator. 2,945,103, 7-12-60, Cl. 200-84.
- Collazzo, Alfred A., and E. N. Morse, to Sylvania Electric Products Inc. Apparatus for handling annular elements. 2,950,026, 8-23-60, Cl. 221-175.
- Colledge, Evan L., Jr., to United States Steel Corp. Driving head for a lathe. 2,923,328, 2-2-60, Cl. 142-53.
- Collett, James D., and J. A. Walston III, to Associated Engineering & Equipment Co., Inc. Recording apparatus. 2,938,964, 5-31-60, Cl. 179-100.2.
- Collette, Floyd E. Dispensing cart for clothing and the like. 2,934,349, 4-26-60, Cl. 280-34.
- Colley, Arthur R.: See—  
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- Colley, Rowan H., to Rolls-Royce Ltd. Fuel control. 2,945,347, 7-19-60, Cl. 60-35.54.
- Colley, Russell H. Self-service merchandise display rack for boxes. 2,943,742, 7-5-60, Cl. 211-49.



- Collidge, Arthur W., Jr., and J. D. Cobine, to General Electric Co. Electric discharge device structure. 2,930,922, 3-29-60, Cl. 313-179.
- Collie, Paxton S.: *See—*  
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- Collier, Alan, to The British Petroleum Co. Ltd. Production of hard and flexible microcrystalline waxes. 2,921,012, 1-12-60, Cl. 208-25.
- Collier, Alan, to The British Petroleum Co. Ltd. Production of hard and flexible microcrystalline waxes. 2,935,457, 5-3-60, Cl. 208-25.
- Collier, Arnold A. Runner assembly for agricultural implements. 2,948,543, 8-9-60, Cl. 280-8.
- Collier Carbon and Chemical Corp.: *See—*  
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- Collier, Dana M., L. A. Meeks, and J. P. Palmer, to United States of America, Atomic Energy Commission. Simultaneous differential equation computer. 2,936,119, 5-10-60, Cl. 235-180.
- Collier, George L., and M. A. Yarnell. Support for anaesthesia applicator. 2,963,247, 12-6-60, Cl. 248-81.
- Collier, John E.: *See—*  
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- Collier, William D. Adjustable mount. 2,922,609, 1-26-60, Cl. 248-179.
- Collin, Fredrik C.: *See—*  
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- Collings, David A., to The Clark Controller Co. Brake shoe connections. 2,933,163, 4-19-60, Cl. 188-220.1.
- Collingwood, Merle J., and A. C. Chagnot. Counting and displacing apparatus for printing press delivery mechanisms. 2,946,266, 7-26-60, Cl. 93-93.
- Collins and Aikman Corp.: *See—*  
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- Collins, Allen, to Shell Oil Co. Apparatus and method for contacting fluids and solids. 2,961,304, 11-22-60, Cl. 23-288.
- Collins, Arthur A., R. M. Mitchell, and V. R. Saari, to Collins Radio Co. Transmitter stabilizer. 2,921,271, 1-12-60, Cl. 332-7.
- Collins, Dalton T. Harrow hitch. 2,960,169, 11-15-60, Cl. 172-198.
- Collins, David A., and J. S. Nairn, to United Kingdom Atomic Energy Authority. Production of uranium tetrafluoride. 2,932,554, 4-12-60, Cl. 23-14.5.
- Collins, David R. Compensating means. 2,960,734, 11-22-60, Cl. 20-55.
- Collins, Donley S., to Baso Inc. Thermoelectrically powered automatic diaphragm valve. 2,935,087, 5-3-60, Cl. 137-612.1.
- Collins, Donley S., to Baso Inc. Control device. 2,962,036, 11-29-60, Cl. 137-66.
- Collins, Douglas M., and E. H. Boller, said Collins assor. to Industrial Mica Corp. Mica flat handling systems. 2,935,830, 5-10-60, Cl. 53-254.
- Collins, Edgar F., to Metal Edge Industries (Inc.). Boxes. 2,958,453, 11-1-60, Cl. 229-45.
- Collins, Edward J.: *See—*  
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- Collins, Ernest H.: *See—*  
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- Collins, Floyd K., to Sylvania Electric Products Inc. Assembly jig. 2,954,972, 10-4-60, Cl. 269-124.
- Collins, Floyd K., and O. A. Drake, to Sylvania Electric Products Inc. Image reproduction device. 2,922,072, 1-19-60, Cl. 315-16.
- Collins, Garry G., Jr., and R. A. Lee, to Bendix Aviation Corp. Gas discharge device. 2,941,108, 6-14-60, Cl. 313-216.
- Collins, George M., to The Birmingham Small Arms Co. Ltd. Filters. 2,940,596, 6-14-60, Cl. 210-347.
- Collins, James B.: *See—*  
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- Collins, James L. and E. J., to O. A. Turman. Coffee maker and dispenser. 2,955,527, 10-11-60, Cl. 99-283.
- Collins, Jay C., and S. P. Jenkins, to General Dynamics Corp. Thin metal welding method and apparatus. 2,922,870, 1-26-60, Cl. 219-125.
- Collins, Jerome H., MacInnes, Jr., and W. E. Parker, to The Garrett Corp. Thrust bearing construction. 2,953,416, 9-20-60, Cl. 308-161.
- Collins, John E., to International Basic Economy Corp. Fluid control valve. 2,949,131, 8-16-60, Cl. 137-623.
- Collins, John E., to International Basic Economy Corp. Valve. 2,952,246, 9-13-60, Cl. 121-46.5.
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- Collins, Lowell J. Automatic container locking and unlocking cradle for elevators, and container therefor. 2,926,803, 3-1-60, Cl. 214-313.
- Collins, Moseley C., Jr., and H. H. Baskin, Jr. Transom water guard. 2,926,362, 3-1-60, Cl. 9-1.
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- Collins, Robert H. Twine knitter mechanism. 2,945,716, 7-19-60, Cl. 289-14.
- Collins, Robert J., to E. I. du Pont de Nemours and Co. Process for treating shaped articles prepared from synthetic linear polyesters. 2,955,954, 10-11-60, Cl. 117-47.
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- Collins, Roy T., and E. K. Tazzia, to General Motors Corp. Freight car wall bracket. 2,965,346, 12-20-60, Cl. 248-223.
- Collins, Russell W., to Bell Telephone Laboratories, Inc. Combined direct dispatch telephone exchange mobile radio system. 2,957,048, 10-18-60, Cl. 179-84.
- Collins, Samuel C.: *See—*  
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- Collins, Samuel C., G. Y. Robinson, Jr., and J. T. Selldorff, to North American Philips Co., Inc. Liquid nitrogen generator. 2,951,346, 9-6-60, Cl. 62-13.
- Collins, Thurmon L., to Masonite Corp. Process for treating wire screen. 2,924,536, 2-9-60, Cl. 117-43.
- Collins, William A., to Rudy Mfg. Co. Evaporator. 2,934,917, 5-3-60, Cl. 62-516.
- Collins, William E.: *See—*  
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- Collinson, Eric S., to Lucas-Rotax Ltd. Water heating apparatus. 2,965,079, 12-20-60, Cl. 122-24.
- Collion, Joseph R., to A. Nothelfer & Sohne. Device for removing the sprue from objects produced by injection molding operations. 2,923,031, 2-2-60, Cl. 18-30.
- Collischan, Fritz. Toy figure. 2,953,869, 9-27-60, Cl. 46-118.
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- Jacke, Stanley E., Newsome, and Collison. 2,950,725.
- Colliva, Dante, to S.p.A. Alessandro Calzoni. Machine for the manufacture of pipes with a device for feeding cylindrical mandrels on which the pipes are formed. 2,961,729, 11-29-60, Cl. 25-30.
- Collman, John S., to General Motors Corp. Working medium control system for a closed circuit gas turbine power plant. 2,929,217, 3-22-60, Cl. 60-59.
- Collman, John S., to General Motors Corp. Regenerative heat exchanger. 2,938,713, 5-31-60, Cl. 257-260.
- Collman, John S., W. A. Turunen, and P. T. Vickers, to General Motors Corp. Regenerative heat exchanger. 2,937,010, 5-17-60, Cl. 257-270.
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- Collura, Peter C., to Container Corp. of America. Handle carton. 2,955,739, 10-11-60, Cl. 229-52.
- Collura, Peter C., and R. M. Hurley, to Container Corp. of America. Paperboard carrier with handle. 2,942,756, 6-28-60, Cl. 220-113.
- Colman, Philip A., to Lockheed Aircraft Corp. Wing structure incorporating boundary layer control. 2,945,644, 7-19-60, Cl. 244-42.
- Colman, William P., and L. A. Cullo, to American Cyanamid Co. Production of alkylenes and alkanol amine polyacetate salts. 2,945,881, 7-19-60, Cl. 260-534.
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- Colombini, John S. Method of making a knockdown garage door. 2,948,956, 8-16-60, Cl. 29-411.
- Colombo, Roberto, to S.A.S. Lavorazione Materie Plastiche (L.M.P.) di M.I. Colombo & C. Apparatus for manufacturing hollow articles. 2,954,581, 10-4-60, Cl. 18-5.
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- Colton, Frank B., to G. D. Searle & Co. 17a-methyl-17β-hydroxyestrane-3-one. 2,937,192, 5-17-60, Cl. 260-397.4.
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- Colton, John W.: See—
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- Fyler, Norman F. 2,961,560.
- Gingrande, Arthur. 2,934,670.
- Giuffrida, Joseph. 2,922,059.
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- Ullery, Lee R., Jr. 2,942,150.
- Columbia Cellulose Co. Ltd.: See—
- Wayman, Morris, and Harris. 2,939,813.
- Columbia Engineering Co., Ltd.: See—
- Vajda, Peter, Rooney, Kragh-Hansen, and Kay. 2,951,269.
- Columbia Malting Co., The: See—
- Graff, Alan R., Garis, Butts, and Juergens. 2,947,187.
- Graff, Alan R., Juergens, and Berkenblit. 2,947,669.
- Graff, Alan R., Wier, and Ruzevick. 2,933,435.
- Columbia McKinnon Chain Corp.: See—
- Robins, Erford E., Parker, and Lerch. 2,925,298.
- Columbia Products Co.: See—
- Scott, Arthur L. 2,934,345.
- Columbia Products, Inc.: See—
- Akers, David. 2,937,551.
- Columbia Ribbon and Carbon Mfg. Co., Inc.: See—
- Newman, Douglas A. 2,931,752.
- Newman, Douglas A. 2,953,088.
- Newman, Douglas A., and Schlotzhauer. 2,941,466.
- Newman, Douglas A., and Vaccaro. 2,919,785.
- Columbia-Southern Chemical Corp.: See—
- Allen, Edward M. 2,920,974.
- Allen, Edward M. 2,924,510.
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- Allen, Edward M. 2,943,970.
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- Boland, Mathias P. 2,949,379.
- Carlin, William W. 2,920,004.
- De Marco, Albert G., and Dilmore. 2,941,932.
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- Plant, Edwin K. 2,940,541.
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- Richardson, Edwin A. 2,924,274.
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- Sindlinger, Charles J., and Clayton. 2,962,346.
- Sindlinger, Charles J., and Clayton. 2,962,347.
- Strain, Franklin, and Bissinger. 2,942,035.
- Straub, William S., and Sindlinger. 2,960,448.
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- Lawrence, Harold J. 2,954,006.
- Columbian Carbon Co.: See—
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- Columbus Automatic Lubrication Co.: See—
- Stone, Franz T., III, and Finckel. 2,929,564.
- Columbus Auto Parts Co., The: See—
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- Columbus, John, H. Pesch, and I. L. Wilcox, to Sealright-Oswego Falls Corp. Container top printing mechanism. 2,936,702, 5-17-60, Cl. 101-44.
- Columbus McKinnon Chain Corp.: See—
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- Schreyer, Kenneth D. 2,960,940.
- Schreyer, Kenneth D., and Eldridge. 2,945,452.



- Colvin, James W., to Friden, Inc. Calculating machine. 2,956,742, 10-18-60, Cl. 235-63.
- Colvin, James W. Plant starting device. 2,957,274, 10-25-60, Cl. 47-37.
- Colvin, Ruel, and J. L. Ekstrom, to The Bendix Corp. Automatic direction finder. 2,958,867, 11-1-60, Cl. 343-117.
- Colyer, Edwin C., and E. A. Schultz, to Addressograph-Multigraph Corp. Embossing machines. 2,919,779, 1-5-60, Cl. 197-6.2.
- Colyer, Edwin C., and E. A. Schultz, to Addressograph-Multigraph Corp. Embossing machines. 2,951,571, 9-6-60, Cl. 197-6.7.
- Colyer, Edwin C., H. K. Moe, and E. A. Schultz, to Addressograph-Multigraph Corp. Printing machines. 2,958,463, 11-1-60, Cl. 235-61.9.
- Combest, John F., to ACF Industries, Inc. Filter magnet. 2,926,787, 3-1-60, Cl. 210-223.
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- Chapman, Edward C. 2,966,340.
- Deakins, Thomas A., Lasater, and Northington. 2,922,205.
- Deakins, Thomas A., Lasater, and Northington. 2,942,312.
- Deakins, Thomas A., Lasater, and Northington. 2,956,316.
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- Comenetz, George, to Westinghouse Electric Corp. Stabilizing of levitation melting. 2,957,064, 10-18-60, Cl. 219-10.43.
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- Comer, Richard L., to General Motors Corp. Composition for glass to metal seal. 2,949,376, 8-16-60, Cl. 106-53.
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- Comet Metal Products Co., Inc.: See—
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- Comfort, Hiram W. Well drilling machine slide tool guide. 2,954,210, 9-27-60, Cl. 255-2.
- Comfort, John N., Sr. Animated pull toy. 2,934,854, 5-3-60, Cl. 46-107.
- Comfort, Samuel T., to Allis-Chalmers Mfg. Co. Safety system for load elevating vehicles. 2,935,161, 5-3-60, Cl. 187-9.
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- Comins, Danforth W., Jr., to Cambridge Thermionic Corp. Electric mount. 2,922,138, 1-19-60, Cl. 339-147.
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- Commercial Solvents Corp.: See—
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- Bachman, Marvin C., Martin, and Pensack. 2,924,526.
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- Cutler, Albert E. 2,934,835.
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- Swift, James W. 2,924,892.
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- Communtzis, Marcus G., to United States of America, Army. Magnetic-contact accelerometer. 2,955,470, 10-11-60, Cl. 73-492.
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- Compton, Frank G., and H. J. Crump, to North American  
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- Compton, Henry P., to Simplex Corp. Traffic circulator.  
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- Concelman, Carl W., to Amphenol-Borg Electronics Corp.  
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- Condam, Louis M., to Eastman Kodak Co. Mordanted pho-  
 tographic imbibition dye printing blank. 2,952,566,  
 9-13-60, Cl. 117-83.
- Conde Milking Machine Co., Inc.: *See—*  
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- Condenser Machinery Corp., The: *See*—  
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Wellington, Cary L. 2,946,727.  
Wellington, Cary L. 2,947,272.
- Corder, Forest E., and B. W. Gibson. Plastic molding apparatus. 2,964,789, 12-20-60, Cl. 18—21.
- Condiff, Hays B., to Boeing Airplane Co. Pipe bending mandrel. 2,962,077, 11-29-60, Cl. 153—63.
- Condit, Paul C.: *See*—  
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- Condolios, Elie: *See*—  
Belugou, Pierre, and Condolios. 2,946,438.
- Condolios, Elie, to Etablissements Neyrpic. Process and apparatus for the sorting of solid products. 2,948,396, 8-9-60, Cl. 209—156.
- Condolios, Elie, and P. Belugou, to Etablissements Neyrpic, and Charbonnages de France. Process and apparatus for the separation of solid particulate materials of different densities and/or different particle size. 2,946,439, 7-26-60, Cl. 209—157.
- Condon, Jean M. Hydraulic device. 2,927,704, 3-8-60, Cl. 214—75.
- Condon, Robert S., to Adirondack Bowls, Inc. Saw machine for forming oval, bowl shaped articles. 2,939,498, 6-7-60, Cl. 144—33.
- Condon, Robert S. Indexing mechanism. 2,953,042, 9-20-60, Cl. 74—815.
- Cone Automatic Machine Co., Inc.: *See*—  
Brown, Roger W. 2,919,615.  
Miller, Carroll E. 2,937,030.
- Cone, Gilbert G. Velocity indicating toy. 2,919,577, 1-5-60, Cl. 73—181.
- Cone, William H., to Construction Machinery Co. Refrigeration system. 2,964,923, 12-20-60, Cl. 62—196.
- Conery, William J., W. J. Ekey, and F. M. Fellenbaum, to The F. E. Meyers & Bro. Co. Shallow well self-priming jet pump. 2,934,021, 4-26-60, Cl. 103—5.
- Confalone, John L., to United States of America, Air Force. Relay circuit. 2,960,635, 11-15-60, Cl. 317—137.
- Configured Tube Products Co.: *See*—  
Alger, Jerry T. 2,959,216.  
Alger, Jerry T. 2,965,166.  
Dolby, John W. 2,960,157.  
Dolby, John W., and Alger. 2,963,042.
- Congdon, George L., to Burgess Vibrocrafters, Inc. Automatic electric can opener. 2,952,073, 9-13-60, Cl. 30—4.
- Congdon, Kenneth P., and E. J. H. Bussard, to Avco Corp. Compound demodulator. 2,941,076, 6-14-60, Cl. 250—31.
- Conger, Channing C., to The Controllex Corp. Voltage responsive relay. 2,959,717, 11-8-60, Cl. 317—148.5.
- Conger, Gerald A., to C & S Products Co., Inc. Apparatus for forming shaped articles such as foundry molds and cores. 2,955,332, 10-11-60, Cl. 22—47.
- Congoleum-Nairn, Inc.: *See*—  
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Brown, Alan. 2,961,011.  
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Weaver, John B. 2,950,502.
- Weigle, William C., Benedict, and Dobry. 2,926,100.
- Conguist, Dominick R., and D. J. Mullane, to ACF Industries, Inc. Potting composition and process. 2,945,776, 7-19-60, Cl. 117—201.
- Conix, Andre J., to Gevaert Photo-Producten N.V. Fiber and film-forming polycondensates and their preparation. 2,958,678, 11-1-60, Cl. 260—78.4.
- Conix, Andre J., to Gevaert Photo-Producten N.V. Fiber and film-forming polycondensates. 2,960,493, 11-15-60, Cl. 260—47.
- Conkey, H. D. & Co.: *See*—  
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- Conklin, Carroll: *See*—  
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- Conklin, Charles E. Gauge apparatus and a transfer mechanism therefor. 2,938,272, 5-31-60, Cl. 33—147.
- Conklin, Charles S., to Lily-Tulip Cup Corp. Closure lids for paper containers. 2,947,463, 8-2-60, Cl. 229—43.
- Conklin, Robert M., A. M. Rockwood, J. W. Smelker, and E. Linsker, to Buckeye Tools Corp. Pneumatic tool. 2,925,089, 2-16-60, Cl. 137—33.
- Conlan, John P. Air mixing and distributing units. 2,948,210, 8-9-60, Cl. 98—38.
- Conlee, George D., to McGraw Edison Co. Cabinet hinge. 2,929,093, 3-22-60, Cl. 16—140.
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- Conley, Charles P.: *See*—  
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- Conley, George R., H. K. Rebne, and H. J. Wagner, to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,964,953, 12-20-60, Cl. 74—5.7.
- Conley, John, and G. W. Miller. Insulated piping. 2,930,407, 3-29-60, Cl. 138—64.
- Conley, John E.: *See*—  
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- Conley, Weld E., W. P. Kopp, A. M. Olson, and L. A. Behn, to Chain Belt Co. Continuous vacuum dehydrator. 2,924,271, 2-9-60, Cl. 159—7.
- Conley, Weld E., and F. Fixari, to Chain Belt Co. Method of and apparatus for dehydrating material. 2,924,272, 2-9-60, Cl. 159—12.
- Conley, Weld E., and W. P. Kopp, to Chain Belt Co. Dehydrating apparatus. 2,924,273, 2-9-60, Cl. 159—12.
- Conlon, Daniel R. Chemical reaction vessel with automatically controlled heating source. 2,955,023, 10-4-60, Cl. 23—259.
- Conmar Products Corp.: *See*—  
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- Conn, Arthur L., and R. J. Hengstebeck, to Standard Oil Co. Removing metal contaminants from feeds. 2,956,004, 10-11-60, Cl. 208—91.
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- Conn, Francis E., and J. R. Kessler, to General Motors Corp. Propeller mechanism. 2,948,343, 8-9-60, Cl. 170—135.24.
- Conn, Nathan A., to American-Marietta Co. Means for forming voids in precast concrete structural members. 2,949,658, 8-23-60, Cl. 25—128.
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- Connell, Emerson M., Jr.: *See*—  
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- Connell, Lawrence H. Magnetic recording. 2,941,045, 6-14-60, Cl. 179—100.2.
- Connell, Leslie J. C., to The General Electric Co. Ltd. Semiconductor devices. 2,933,663, 4-19-60, Cl. 317—234.
- Connell, Leslie J. C., to The General Electric Co. Ltd. Manufacture of semiconductor rectifier devices. 2,965,818, 12-20-60, Cl. 317—234.
- Connell, Maurice W., to Conax Corp. Single operation normally closed valve. 2,947,315, 8-2-60, Cl. 137—68.
- Connell, Philip T., to The A. C. Gilbert Co. Toy railway track and trestle. 2,919,515, 1-5-60, Cl. 46—17.
- Connolly, Daniel S., to The Ohio Crankshaft Co. Magnetic laminations for high frequency inductors. 2,929,906, 3-22-60, Cl. 219—10.79.
- Connolly, Gordon F., and A. B. Di Francesco, to Eastman Kodak Co. Peripheral brake and tensioning device. 2,960,280, 11-15-60, Cl. 242—156.1.
- Connolly, Joseph M.: *See*—  
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- Connolly, William P., to Provident Trust Co. of Philadelphia, trustee under the will of T. M. Chance, deceased. Flotation separating apparatus and method. 2,957,577, 10-25-60, Cl. 209—172.5.
- Conner, David S.: *See*—  
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- Conner, Guy F.: *See*—  
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- Conner, Guy O., to Republic Steel Corp. Form forging machine. 2,932,222, 4-12-60, Cl. 80—6.
- Conner, Guy O. Slip head drill bushing. 2,942,500, 6-28-60, Cl. 77—62.
- Conner, Guy O., to Republic Steel Corp. Work and tool holders for metal working machines. 2,946,583, 7-26-60, Cl. 269—155.
- Conner, Hazel L.: *See*—  
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- Conner, William C., to Copease Corp. Photocopying machine. 2,925,025, 2-16-60, Cl. 95—75.
- Connolly, Arthur H., Jr.: *See*—  
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- Connor, James E., Jr., and C. S. Shipley, to The Atlantic Refining Co. Use of colloidal silica in catalyst manufacture. 2,941,958, 6-21-60, Cl. 252—449.
- Connor, James F. Milk can holder. 2,950,843, 8-30-60, Cl. 222—88.
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- Connor, William G.: *See*—  
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- Connors, Robert L. T., to Van Raalte Co., Inc. Knitted fabric. 2,927,448, 3-8-60, Cl. 66-195.
- Conolly, James H.: See—
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- Conrad, Ivan W. High speed telegraph system. 2,951,121, 8-30-60, Cl. 178-23.
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- Conrad, Martin B., to Baker Oil Tools, Inc. Drill pipe float valve apparatus. 2,944,793, 7-12-60, Cl. 255-24.
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Royce, Mark B. 2,957,597.  
Shapero, Wallace H., and Walker. 2,955,643.  
Shaw, Fred B. 2,921,867.  
Shaw, Fred B., Schlueter, and Guenther. 2,955,364.  
Simpson, Justin. 2,954,585.  
Smith, James L. 2,932,378.  
Stone, Orison W. 2,950,041.  
Thacker, George A. 2,940,633.  
Vahle, Raymond. 2,933,227.  
Vaughan, Aubrey W., Jr. 2,932,825.  
Weisenburg, Andrew. 2,964,005.  
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White, Roger B., and Chaplin. 2,957,595.
- Continental Copper & Steel Industries, Inc.: *See*—  
Hickson, William F. 2,964,764.  
Hickson, William F. 2,964,765.
- Continental-Diamond Fibre Corp.: *See*—  
Haroldson, Arthur H., Mulrooney, and Hogan. 2,946,087.  
Haroldson, Arthur H., Taylor, and Cann. 2,964,065.  
Haroldson, Arthur H., and Watrous. 2,939,178.
- Continental Elastic Corp., The: *See*—  
O'Neill, Harry T., Jr. 2,952,417.
- Continental Electronics Mfg. Co.: *See*—  
Yeagley, Frank W. 2,937,224.  
Yeagley, Frank W. 2,963,664.
- Continental Engineering Corp.: *See*—  
Wasley, Arthur J. 2,960,372.
- Continental Gin Co.: *See*—  
Brooks, Eugene H. 2,959,120.  
Deems, Frank E., and Salmon. 2,949,644.  
Smith, Algernon L. 2,932,857.
- Continental Gummi-Werke Aktiengesellschaft: *See*—  
Beckadolph, Richard. 2,925,623.  
Niclas, Walter. 2,920,885.
- Continental Industries, Inc.: *See*—  
Kuharski, John. 2,957,214.
- Continental Machines, Inc.: *See*—  
Chapman, Harvey A., Whitmore, and Crane. 2,934,106.  
Crane, Robert L. 2,932,229.  
Hendrickson, Jack. 2,957,368.  
Stordal, Elgil J. 2,954,061.
- Continental Motors Corp.: *See*—  
Carufel, Louis D. 2,962,976.  
Engstrom, William A. 2,930,432.  
Haas, Herbert H. 2,919,767.  
Klinge, Earl R. 2,947,291.
- Continental Oil Co.: *See*—  
Anderson, Robert L., and McDonald. 2,924,618.  
Bauer, Robert F., and Stratton. 2,923,531.  
Boydston, Fred E. 2,966,119.  
Carlyle, Robert L. 2,937,991.  
Carlyle, Robert L., and Morris. 2,943,052.  
Carlyle, Robert L., and Morris. 2,956,018.  
Coyne, Donald M. 2,953,603.  
Dannehl, Melvin A., and Jordan. 2,957,581.  
Dew, John N., and Martin. 2,954,218.  
De Witte, Leendert. 2,943,197.  
Durr, Albert M., Jr., and Meador. 2,922,706.  
Flanagan, Pat W. K. 2,947,787.  
Hanggi, George J. 2,921,477.  
Harris, Benjamin R. 2,938,930.  
Kinzie, Ora A., and Watts. 2,964,340.  
Kirk, James C., and Miller. 2,928,867.  
Kirk, James C., and Miller. 2,932,677.  
Moxley, Steve D. 2,921,294.  
Popham, Jack L. 2,952,319.  
Scanlon, Earl J., and Jokl. 2,930,916.  
Sias, Roy C. 2,959,581.  
Sonnier, Bruce C., and Vertrees. 2,955,458.  
Stratton, Hal. 2,929,610.  
Thompson, Charles E., and Wright. 2,931,773.  
Tillman, Richard M. 2,937,950.  
Tillman, Richard M. 2,952,062.  
Tillman, Richard M. 2,963,765.  
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- Continental Steel Corp.: *See*—  
Loop, James P. 2,943,807.  
Thomas, Curtis J. 2,953,916.
- Continental Vending Machine Corp.: *See*—  
Dickinson, Donald L., and Friedman. 2,963,202.
- Contois, Leo L., Jr., to Monsanto Chemical Co. Alkali metal derivatives of di-N-substituted formamides. 2,961,465, 11-22-60, Cl. 260-561.
- Contois, Leo L., Jr., and H. W. Tatum, to Celanese Corp. of America. Oxidation of phthalide and mixtures thereof to phthalic anhydride. 2,925,425, 2-16-60, Cl. 260-346.4.
- Contois, Leo L., Jr., and J. B. Ott, to Monsanto Chemical Co. Method of coating steel with water base protective coating composition containing a volatile nitrogenous base salt of an interpolymers of a conjugated 1,3-diene and acrylic or methacrylic acid. 2,952,565, 9-13-60, Cl. 117-75.
- Contract Building Services, Inc.: *See*—  
Rogers, Lesley E. 2,940,108.
- Contraves A.G.: *See*—  
Binggeli, Jean L. 2,958,035.  
Dorizzi, Manfred P. 2,952,828.  
Guttinger, Paul, Guanella, Weber, and Gallo. 2,954,555.  
Haldemann, Heinz, and Stutz. 2,948,840.  
Heller, Rudolf. 2,930,637.  
Lattmann, Max E. 2,919,850.
- Control Corp.: *See*—  
Larson, Walter M. 2,942,244.
- Control Design and Fabricate Inc.: *See*—  
Benson, Alfred D., Schlottmann, and Hector. 2,924,324.
- Control Instrument Co.: *See*—  
Relis, Matthew J., and Marcus. 2,962,705.  
Wadsworth, Leslie H. 2,928,275.
- Controllix Corp., The: *See*—  
Conger, Channing C. 2,959,717.
- Controls Co. of America: *See*—  
Beller, Wilbert E., and Gebel. 2,934,618.  
Berg, Ralph L. 2,960,201.  
Breese, James L. 2,933,240.  
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Biermann, William A., and McCarty. 2,930,388.  
Constantine, Arthur R. 2,938,970.  
Grover, Philip D., and Kraft. 2,950,373.  
Kent, George C. 2,931,507.  
McCarty, Lourdes V. 2,933,256.  
Soreng, Edgar M., McIlvaine, and Beller. 2,938,384.  
Yamasaki, James N. 2,925,478.
- Contronics, Inc.: *See*—  
Cheney, Raymond H. 2,958,762.
- Conval Corp.: *See*—  
Smith, Paul E., Jr. 2,948,295.  
Smith, Paul E., Jr., and Dudler. 2,948,839.
- Conversano, Henry M., to General Motors Corp. Pop-up signal devices in instrument panels. 2,946,982, 7-26-60, Cl. 340-52.
- Converse, Frederick J., to United States of America, Navy. Soil compacting machine. 2,952,193, 9-13-60, Cl. 94-48.
- Conversy, Francois L., to Societe Technique pour l'Utilisation de la Precontrainte (S.T.U.P.) (Procédes Freyssinet). Anchorage device for pre-stress reinforcement members. 2,934,364, 4-26-60, Cl. 287-85.
- Convert, Guy, to Compagnie Generale de Telegraphie Sans Fil. Traveling wave tubes. 2,922,920, 1-26-60, Cl. 315-3.6.
- Converto Mfg. Co., Inc.: *See*—  
Chaney, Donal W. 2,945,721.  
Chaney, Donal W. 2,953,410.



- Convery, Rita : See—  
Convery, Sue J. and R. 2,946,138.
- Convery, Sue J. and R. Educational test folder for teaching arithmetic. 2,946,138, 7-26-60, Cl. 35-48.
- Conveyor Co., The : See—  
Saxe, Walter E. 2,925,079.
- Saxe, Walter E. 2,965,248.
- Conway, Edward E., and R. W. Puta, to Magnaflex Corp. Lubrication system for chain saws. 2,944,538, 7-12-60, Cl. 123-196.
- Conway, Joseph R. : See—  
Thornton, Francis J., and Conway. 2,958,953.
- Conway, Leon F. : See—  
Bloom, Frederick S., and Conway. 2,927,783.
- Conwell, Yeates, W. B. Happoldt, Jr., and E. E. Lewis, to E. I. du Pont de Nemours and Co. Process for the extrusion of polyethylene. 2,956,306, 10-18-60, Cl. 18-47.5.
- Conyers, John R., to North American Aviation, Inc. Flow controlling valve system. 2,939,281, 6-7-60, Cl. 60-39.48.
- Conyers, John R., D. E. Aldrich, and G. P. Sutton, to North American Aviation, Inc. Ullage compensation for pressurizing systems. 2,940,256, 6-14-60, Cl. 60-39.48.
- Conyne, Richard F. : See—  
Rowland, Stanley P., and Conyne. 2,963,455.
- Cook, Arthur H., and A. D. Davis, to Brewing Patents Ltd. Process and apparatus for the preparation of worts. 2,961,316, 11-22-60, Cl. 99-52.
- Cook, Charles C. : See—  
Adam, Howard W., and Cook. 2,926,428.
- May, Frank H., and Cook. 2,959,469.
- Cook, Charles J., to Clark Equipment Co. Dry muffler and mounting means therefor. 2,924,296, 2-9-60, Cl. 183-79.
- Cook, Clayton M., C. E. Moser, and W. H. Ashton, to Johnson & Johnson. Hemostatic product. 2,923,664, 2-2-60, Cl. 167-82.
- Cook, Daniel A., to Diamond Alkali Co. Liquid detergent compositions. 2,943,058, 6-28-60, Cl. 252-153.
- Cook, Delmer J. Screen wire stretching devices. 2,963,052, 12-6-60, Cl. 140-109.
- Cook, De Orr. Retrieving tool. 2,954,258, 9-27-60, Cl. 294-102.
- Cook, Donald J., and P. J. Schoemer, to Purolator Products, Inc. Air cleaner assembly. 2,947,381, 8-2-60, Cl. 183-15.
- Cook, Earl W. : See—  
Cook, Elmo L., and Beauchamp. 2,930,332.
- Cook, Edward G., to Curtiss-Wright Corp. Acoustic translating device. 2,921,465, 1-19-60, Cl. 73-67.7.
- Cook, Edward J., to General Electric Co. Electron gun for a cylindrical capacitor. 2,939,028, 5-31-60, Cl. 313-84.
- Cook, Edward J., to General Electric Co. Injected beam axiotron. 2,961,571, 11-22-60, Cl. 315-3.5.
- Cook Electric Co. : See—  
Baker, John S. 2,965,954.
- Bellamy, John C. 2,962,710.
- Billinski, Chester F. 2,945,439.
- Ferro, Joseph A., and Markowski. 2,929,268.
- Flubacker, Charles H., and Adrig. 2,947,835.
- Fredette, Raymond O., and Musil. 2,922,365.
- Hasselhorn, Walter C. 2,953,625.
- Hasselhorn, Walter C. 2,955,684.
- Hasselhorn, Walter C., and Baker. 2,930,021.
- Hasselhorn, Walter C., and Baker. 2,956,106.
- Miller, William H. 2,955,618.
- Woodworth, Richard E. 2,947,579.
- Cook, Ellsworth D., to General Electric Co. Ignition system. 2,940,013, 6-7-60, Cl. 315-172.
- Cook, Elmo L., deceased (by E. W. Cook, administrator), and W. A. Beauchamp, to The Youngstown Steel Door Co. Railway box cars and doors therefor. 2,930,332, 3-29-60, Cl. 105-378.
- Cook, Forrest W., and J. E. Eberhardt, to ACF Industries, Inc. Carburetor deicing system. 2,957,685, 10-25-60, Cl. 261-129.
- Cook, Francis W., to A. T. & E. (Bridgnorth) Ltd. Time base circuits. 2,938,140, 5-24-60, Cl. 315-9.
- Cook, Frank E. : See—  
Stark, Howard J., Alfors, and Cook. 2,929,754.
- Cook, Gordon H., to Taylor, Taylor & Hobson Ltd. Optical objectives. 2,959,102, 11-8-60, Cl. 88-57.
- Cook, Gordon H., to Taylor, Taylor & Hobson Ltd. Optical objectives. 2,959,103, 11-8-60, Cl. 88-57.
- Cook, Gordon H., to Taylor, Taylor & Hobson Ltd. Optical objectives. 2,959,104, 11-8-60, Cl. 88-57.
- Cook, Harvey A. : See—  
Compton, William A., and Cook. 2,941,790.
- Cook, Harvey A., to Thompson Ramo Wooldridge, Inc. Diffuser-regenerator gas turbine engine. 2,925,714, 2-23-60, Cl. 60-39.16.
- Cook, Henry : See—  
Metcalf, Eric, and Cook. 2,945,649.
- Cook, Henry E. Car top luggage carrier. 2,920,802, 1-12-60, Cl. 224-42.1.
- Cook, Henry R. : See—  
Zoeller, Richard J., Tucker, Putnam, Cook, and Brown. 2,929,341.
- Cook, Howard L., C. W. Canada, and B. L. Smith, to Curtiss-Wright Corp. Tram carrier. 2,920,581, 1-12-60, Cl. 104-93.
- Cook, Jackson. Magnetic pencil clip. 2,964,812, 12-20-60, Cl. 24-10.
- Cook, James A., Jr., and R. Stapelfeldt, to Westinghouse Air Brake Co. Voltage detector circuits. 2,965,889, 12-20-60, Cl. 340-248.
- Cook, James E., to The De Laval Separator Co. Centrifugal separation system with emergency control. 2,941,712, 6-21-60, Cl. 233-19.
- Cook, James F., to Union Oil Co. of California. Silicon hydraulic fluids containing boron esters. 2,962,446, 11-29-60, Cl. 252-78.
- Cook, Jay E. Ball throwing machine. 2,925,811, 2-23-60, Cl. 124-6.
- Cook, John, deceased, by J. R. and P. M. Cook, executors, to Cook Mfg. Co. Speed control device for reeling machines. 2,929,193, 3-22-60, Cl. 57-67.
- Cook, John, to The Standard Machinery Co. Apparatus for and method of marking continuous stock in motion. 2,953,085, 9-20-60, Cl. 101-6.
- Cook, John B., to The Whitney Blake Co. Coaxial conductor cable. 2,932,687, 4-12-60, Cl. 174-117.
- Cook, John H. Burial vault. 2,940,156, 6-14-60, Cl. 27-35.
- Cook, John R. : See—  
Cook, John. 2,929,193.
- Cook, John S. : See—  
Ashkin, Arthur, Cook, Louisell, and Quate. 2,958,001.
- Cook, John S., to Bell Telephone Laboratories, Inc. Coupling arrangements. 2,939,092, 5-31-60, Cl. 333-10.
- Cook, John S., to Bell Telephone Laboratories, Inc. Slalom focusing structures. 2,941,114, 6-14-60, Cl. 315-3.5.
- Cook, John S., and R. Kompfner, to Bell Telephone Laboratories, Inc. Coaxial couplers. 2,925,565, 2-16-60, Cl. 333-6.
- Cook, John S., R. Kompfner, and W. H. Yocom, to Bell Telephone Laboratories, Inc. Electron gun for slalom focusing systems. 2,939,034, 5-31-60, Cl. 315-3.5.
- Cook, John S., W. H. Louisell, and W. H. Yocom, to Bell Telephone Laboratories, Inc. Electron beam focusing system. 2,953,707, 9-20-60, Cl. 315-3.
- Cook, Joseph J. : See—  
Howe, John R., and Cook. 2,948,557.
- Cook, Kenneth G., to The M-O Valve Co. Ltd. Hydrogen filled thermionic valve. 2,953,705, 9-20-60, Cl. 313-186.
- Cook, Kenneth G., and G. G. Isaacs, to The M-O Valve Co. Ltd. Low pressure gas filled thermionic valve. 2,942,136, 6-21-60, Cl. 313-186.
- Cook, Leonard, and E. J. Fellows, to Smith, Kline & French Laboratories. 2-amino-1-(3,4-methylenedioxypheyl)-propane isomers, ataractic preparation containing 2-amino-1-(3,4-methylenedioxypheyl)-propane and method of producing ataraxia. 2,953,494, 9-20-60, Cl. 167-65.
- Cook, Leonard W., and E. R. Coutant, to General Electric Co. Mercury button switch with insulated terminal. 2,929,902, 3-22-60, Cl. 200-152.
- Cook, Leslie J. : See—  
Aiken, William R., Shanafelt, and Cook. 2,928,014.
- Cook Mfg. Co. : See—  
Cook, John. 2,929,193.
- Cook, Melvin A., and H. E. Farnam, Jr., to Iron Ore Co. of Canada. Explosive composition. 2,930,685, 3-29-60, Cl. 52-11.
- Cook, Newell C., and J. K. Wolfe, to General Electric Co. Process of treating fluorosilanes to form monosilane. 2,933,374, 4-19-60, Cl. 23-204.
- Cook, Owen L., to The Waltham Horological Corp. Telephone plug. 2,946,978, 7-26-60, Cl. 339-103.
- Cook, Paul A. C. : See—  
Wasp, Edward J., and Cook. 2,920,923.
- Cook, Paul M. : See—  
Cook, John. 2,929,193.
- Cook, Paul M., J. B. Meikle, and B. Graham, to W. R. Grace & Co. Process for treating plastics and products thereof. 2,960,453, 11-15-60, Cl. 204-154.
- Cook, Ralph L., and E. A. Andrew, to Olin Mathieson Chemical Corp. Nitrocellulose lacquers. 2,935,414, 5-3-60, Cl. 106-183.
- Cook, Ralph W. Liquid sprinkling device. 2,937,812, 5-24-60, Cl. 239-255.
- Cook, Raymond D., and W. A. Lang, to Steel City Electric Co. Hanger bars for electric outlet boxes. 2,925,236, 2-16-60, Cl. 248-276.
- Cook, Raymond F., and P. G. Cline; said Cline assor. to said Cook. Metal cutting tools. 2,949,662, 8-23-60, Cl. 29-96.
- Cook, Richard R. Air purifier. 2,936,851, 5-17-60, Cl. 183-7.
- Cook, Richard S., and W. E. Craig, to Rohm & Haas Co. Pesticidal and herbicidal compositions of matter. 2,934,420, 4-26-60, Cl. 71-2.6.
- Cook, Robert W., to Garringtons Ltd. New and useful improvements relating to railway buffing gear. 2,930,491, 3-29-60, Cl. 213-221.
- Cook, Robert W., to C. W. Fuelling. Material-metering mechanism. 2,939,608, 6-7-60, Cl. 222-41.
- Cook, Roger R. Method of and means for changing the relative angle of rotary members. 2,926,032, 2-23-60, Cl. 287-52.
- Cook, Roger R. Vehicle chassis, transmission and steering assembly means. 2,926,735, 3-1-60, Cl. 180-42.
- Cook, Roger R. Universal joint. 2,956,423, 10-18-60, Cl. 64-7.
- Cook, Ronald F., and R. West, to British Dielectric Research Ltd. Ceramic bodies based on barium titanate. 2,961,554, 11-22-60, Cl. 310-8.



- Cook, S. A., & Co.: *See*—  
Becher, Ernest F., and Howell, Jr. 2,949,156.
- Cook, Stephen O., and W. A. Miller, to Union Carbide Corp. Method and apparatus for collapsing thermoplastic tubing. 2,955,318, 10-11-60, Cl. 18-1.
- Cook, Vernice, to Dixie Chemical Co., Inc. Method of treating sea water. 2,934,419, 4-26-60, Cl. 71-1.
- Cook, William H. Jr., to Boeing Airplane Co. Noise suppressor and thrust reverser. 2,938,335, 5-31-60, Cl. 60-35.54.
- Cooke, Charles C., and J. M. McCormick, to Owens-Illinois Glass Co. Apparatus for controlling dimensions of linear drawn bodies. 2,958,160, 11-1-60, Cl. 49-17.1.
- Cooke, Conrad H.: *See*—  
Matheisel, Rudolph A., and Cooke. 2,922,602.
- Cooke, Edward G.: *See*—  
Harper, Aubrey E., Harrison, and Cooke. 2,923,610.  
Harrison, Kenneth, and Cooke. 2,923,612.
- Cooke, Finley L., to United States of America, Navy. Amplifier including hum elimination control means. 2,929,027, 3-15-60, Cl. 330-107.
- Cooke, Frank, to American Optical Co. Ultrasonic lens generators. 2,939,252, 6-7-60, Cl. 51-67.
- Cooke, George H.: *See*—  
Bayerl, Joseph J., Cooke, and Mooney. 2,926,971.  
Copelan, Aubrey I.: *See*—  
Diaz, Javier. 2,927,201.
- Cooke, George H. Anticreep and hill holder brake system. 2,938,611, 5-31-60, Cl. 192-3.
- Cooke, Giles B.: *See*—  
Wilckens, Eibe A., Rainer, and Cooke. 2,930,081.
- Cooke, Giles B., and W. C. Rainer, to Crown Cork & Seal Co., Inc. Closures. 2,961,110, 11-22-60, Cl. 215-39.
- Cooke, Harold G., Jr.: *See*—  
Belanger, William J., and Cooke. 2,928,794.  
Belanger, William J., and Cooke. 2,928,803.
- Cooke, Harold G., Jr., to Devco & Raynolds Co., Inc. Polyepoxides, etc. 2,947,725, 8-2-60, Cl. 260-47.
- Cooke, Harold G., Jr., and J. E. Masters, to Devco & Raynolds Co., Inc. Epoxide compositions containing maleic anhydride-unsaturated organic acid adducts and method of forming infusible products therefrom. 2,947,711, 8-2-60, Cl. 260-18.
- Cooke, Harry F.: *See*—  
Holaday, Charles E., Cooke, Marble, and Larrison. 2,934,700.
- Cooke, Harry L., to Radio Corp. of America. Transfluxor system. 2,921,136, 1-12-60, Cl. 179-15.
- Cooke, Leighton B., and C. R. Keith, to Bell Telephone Laboratories, Inc. Automatic telephone answering and message recording device. 2,936,336, 5-10-60, Cl. 179-6.
- Cooke, Maurice D., to Hercules Powder Co. Separation of mineral acid from mixture of phenol and aliphatic ketone. 2,951,870, 9-6-60, Cl. 260-593.
- Cooke, Theodore F., J. W. Eastes, and L. A. Fluck, to American Cyanamid Co. Crease resistant cyanoethyl cotton fabric of retained tensile strength produced by applying a methylol melamine resin. 2,923,597, 2-2-60, Cl. 8-129.
- Cooke, Victor F. G., and J. W. Fisher, to British Celanese Ltd. Composition comprising cellulose triacetate and a polyoxamide. 2,954,352, 9-27-60, Cl. 260-13.
- Cooke, William J. Putty removing means. 2,930,290, 3-29-60, Cl. 90-21.
- Cooke-Yarborough, Edmund H., to United States of America, Atomic Energy Commission. Multiple input binary adder employing magnetic drum digital computing apparatus. 2,963,223, 12-6-60, Cl. 235-176.
- Cookingham, Franklin C. Regenerative repeater. 2,931,860, 4-5-60, Cl. 178-70.
- Cookman, Helen. Trousers for a handicapped person. 2,923,009, 2-2-60, Cl. 2-227.
- Cookson Co., The: *See*—  
Cookson, Harold W., Jr., and Wardlaw. 2,940,520.  
Cookson, Harold W., Jr., and Wardlaw. 2,952,751.  
Wardlaw, Russell, and Winter. 2,934,139.
- Cookson, Eric. Sprocket chains. 2,945,391, 7-19-60, Cl. 74-250.
- Cookson, Eric. Hydraulic shock absorber. 2,948,357, 8-9-60, Cl. 188-87.
- Cookson, Harold W., Jr., and R. Wardlaw, to The Cookson Co. Grille. 2,940,520, 6-14-60, Cl. 160-229.
- Cookson, Harold W., Jr., and R. Wardlaw, to The Cookson Co. Astragal with pressure switch. 2,952,751, 9-13-60, Cl. 200-61.43.
- Cool, Kenneth A., E. Hoerner, and S. K. Taylor, said Cool and said Taylor assors, to The Service Recorder Co. Fluid meter. 2,924,097, 2-9-60, Cl. 73-251.
- Coolant Equipment Corp.: *See*—  
Carnes, Wilbur R., and Troller. 2,962,730.
- Cooley, Austin G., to Digital Control Systems, Inc. Telefacsimile drive and synchronizing system. 2,924,659, 2-9-60, Cl. 178-69.5.
- Cooley, Austin G., to Digital Control Systems, Inc. Navigation systems. 2,947,985, 8-2-60, Cl. 343-105.
- Cooley, Edwin B.: *See*—  
Gartner, John H., Bushfield, and Cooley. 2,953,080.
- Cooley, Edwin C., to Elk Falls Co. Ltd. Pulp sheet bundling apparatus. 2,925,772, 2-23-60, Cl. 100-77.
- Cooley, George E.: *See*—  
Barton, Suzanne P., Burn, Cooley, Ellis, Petrow, and Stuart-Webb. 2,939,819.  
Hix, Joseph N., Cunningham, and Cooley. 2,938,846.
- Cooley, Henry E.: *See*—  
MacSorley, Olin L., and Cooley. 2,928,049.
- Coon, Herbert G. Wheel-direction indicator for automobiles. 2,957,442, 10-25-60, Cl. 116-31.
- Coon, Ralph I.: *See*—  
Brown, Harvey A., and Coon. 2,950,317.
- Coon, William W. Orthodontic pliers. 2,954,607, 10-4-60, Cl. 32-66.
- Cooney, Charles E., Jr., to Borg-Warner Corp. Shield assembly. 2,924,953, 2-16-60, Cl. 64-4.
- Cooney, James J. Wheel bearing retaining means. 2,950,944, 8-30-60, Cl. 308-236.
- Coonradt, Harry L.: *See*—  
Ciapetta, Frank G., Coonradt, and Garwood. 2,945,800.  
Ciapetta, Frank G., Coonradt, and Garwood. 2,945,801.  
Ciapetta, Frank G., Coonradt, and Garwood. 2,945,802.  
Ciapetta, Frank G., Coonradt, and Garwood. 2,945,805.
- Coonrod, Noble S. Holding-bracket for an outboard motor. 2,948,253, 8-9-60, Cl. 115-17.
- Coop, Jesse J. Long line condenser hydrophone with gaseous pockets. 2,964,731, 12-13-60, Cl. 340-13.
- Coop, Norman D. Washing, mixing and like machinery. 2,957,332, 10-25-60, Cl. 68-190.
- Cooper Alloy Corp.: *See*—  
Mott, Norman S. 2,920,954.
- Cooper, Ben. Interlocking building sections and method of making buildings. 2,948,364, 8-9-60, Cl. 189-34.
- Cooper, Benjamin: *See*—  
Hohmann, Albert, and Keefe. 2,922,995.
- Cooper, Benjamin. Auxiliary bicycle seat. 2,944,590, 7-12-60, Cl. 155-5.12.
- Cooper, Benjamin, and A. Hohmann: said Hohmann assor. to said Cooper. Printing and perforating time recorder. 2,922,687, 1-28-60, Cl. 346-66.
- Cooper, Bernard E.: *See*—  
Orloff, George, Roy, Cooper, and Langdon. 2,943,819.
- Cooper-Bessener Corp., The: *See*—  
Crooks, William L., and Fullemann. 2,929,548.  
Gehres, Hewitt A. 2,954,830.  
Miller, Carl D. 2,944,844.
- Cooper, Cullen M., to McIntire Co. Filter element and machine for making same. 2,963,744, 12-13-60, Cl. 18-56.
- Cooper Development Corp.: *See*—  
Pittinger, Abraham L., and Thomas. 2,933,317.
- Cooper, Duluth G. Combustion control apparatus and proportioning device for fuel and air. 2,932,350, 4-12-60, Cl. 158-119.
- Cooper, Elmer D., and C. M. Jansky, to Sperry Rand Corp. Angle sensing indicator for rotating beam radar system. 2,946,051, 7-19-60, Cl. 343-16.
- Cooper, Francis H.: *See*—  
Monsees, Claude E., and Cooper. 2,940,408.
- Cooper, Franklin D., to Otto Construction Co. Treatment of waste pickle liquor. 2,939,763, 6-7-60, Cl. 23-61.
- Cooper, Howard G., Jr., to Bell Telephone Laboratories, Inc. Electron beam deflection system. 2,951,961, 9-6-60, Cl. 313-76.
- Cooper, Hugh S., to W. M. Weil. Copper-boron alloys. 2,964,397, 12-13-60, Cl. 75-153.
- Cooper, Irving H., to Heyden Newport Chemical Corp. Treatment of polyhydric alcohols. 2,951,263, 9-6-60, Cl. 18-47.5.
- Cooper, John J., and A. R. and D. Hawk,  $\frac{1}{4}$  to S. Calderone,  $\frac{1}{4}$  to R. Calderone, Jr.,  $\frac{1}{4}$  to J. W. Shivey,  $\frac{1}{4}$  to A. C. Tarquinio, and  $\frac{1}{4}$  to J. R. Rygiel. Tow guard for trucks or other vehicles. 2,958,543, 11-1-60, Cl. 280-491.
- Cooper, Joseph H., and M. M. Seeloff, to The Taylor-Winfield Corp. Strip welder. 2,957,071, 10-18-60, Cl. 219-82.
- Cooper, Julius L., W. R. Feingold, and J. A. Pirmerton. Optically motivated toy. 2,922,929, 1-26-60, Cl. 317-124.
- Cooper, Kenneth K., and D. W. Lynch, to General Electric Co. Reversing valve for reversible refrigerating system. 2,947,324, 8-2-60, Cl. 137-625.29.
- Cooper, Leslie E., and G. Gower, to The Distillers Co. Ltd. Production of a supported catalyst. 2,930,765, 3-29-60, Cl. 252-473.
- Cooper, Ralph F., to The B. F. Goodrich Co. Let-off apparatus. 2,920,840, 1-12-60, Cl. 242-156.2.
- Cooper, Ray E.: *See*—  
Adams, Charles J., and Cooper. 2,935,621.
- Cooper, Richard A. Gage protector. 2,920,646, 1-12-60, Cl. 137-505.13.
- Cooper, Robert J. Control of reduction pot lines. 2,930,746, 3-29-60, Cl. 204-225.
- Cooper, Ronald H., to The Dow Chemical Co. Organosiloxane-phenol-aldehyde resin cements. 2,927,910, 3-8-60, Cl. 260-43.
- Cooper, Ronald H., to The Dow Chemical Co. Carbon-free shell molds. 2,933,789, 4-26-60, Cl. 22-193.
- Cooper, Roy F.: *See*—  
Sargent, Edward J., and Cooper. 2,933,071.
- Cooper Tire & Rubber Co.: *See*—  
Laube, Alfred J., Southard, and Cornwell. 2,948,921.
- Cooper, Victor J., to Marconi's Wireless Telegraph Co. Ltd. Color television apparatus. 2,930,843, 3-29-60, Cl. 178-5.4.
- Cooper, Victor J., to Marconi's Wireless Telegraph Co. Ltd. Phase-amplitude characteristic correction circuit arrangements. 2,950,440, 8-23-60, Cl. 328-155.
- Cooper Weymouth, Inc.: *See*—  
Weymouth, George J. 2,929,626.



- Cooper, William J., to Barton Instrument Corp. Closure holder. 2,927,813, 3-8-60, Cl. 292-270.
- Cooper, William T., to Phillips Petroleum Co. Method of foaming blend of crystalline 1-olefin polymer and rubber and product obtained therefrom. 2,927,904, 3-8-60, Cl. 260-25.
- Cooper, Willis M., to Monsanto Chemical Co. Recovery of maleic anhydride. 2,951,555, 9-6-60, Cl. 183-119.
- Coöperatieve Condensfabrik "Friesland": See—  
Sjollema, Arjen. 2,953,458.
- Coöperatieve Vereniging tot Bereiding van Melk-producten: See—  
Sjollema, Arjen. 2,953,458.
- Coopersmith, Rudolph. Locking mechanism for foldable sofa bed. 2,939,155, 6-7-60, Cl. 5-13.
- Coopersmith, Rudolph, to G. W. Froemke and Greenblatt, trustees. Sofa bed. 2,947,006, 8-2-60, Cl. 5-13.
- Coopridge, Rex C., and D. F. Corsette, to The Drackett Co. Fluid dispensing pumps. 2,956,509, 10-18-60, Cl. 103-178.
- Coosa River News Print Co.: See—  
Wakeman, Arthur G. 2,943,656.
- Coote, Jack H., and A. P. Jenkins, to Ilford Ltd. Colour photography printing device. 2,960,911, 11-22-60, Cl. 88-24.
- Cooter, Irvin L.: See—  
Harris, William P., and Cooter. 2,960,652.
- Cootes, Harold E., E. E. Folkenroth, H. F. Fortna, G. A. Fuller, and E. Ullman, to AMP Inc. Lead making apparatus. 2,954,599, 10-4-60, Cl. 29-33.
- Coover, Harry W., Jr.: See—  
Guillet, James E., and Coover. 2,921,059.  
McCall, Marvin A., and Coover. 2,945,054.  
McCall, Marvin A., and Coover. 2,952,649.  
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McCall, Marvin A., and Coover. 2,957,007.  
McCall, Marvin A., and Coover. 2,960,529.  
McCall, Marvin A., Coover, and McConnell. 2,957,019.  
McConnell, Richard L., and Coover. 2,926,145.  
McConnell, Richard L., and Coover. 2,928,841.  
McConnell, Richard L., and Coover. 2,952,701.  
McConnell, Richard L., and Coover. 2,960,528.  
Shearer, Newton H., Jr., and Coover. 2,925,409.
- Coover, Harry W., Jr., to Eastman Kodak Co. Method of making modified interpolymers containing vinyl chloride or vinylidene chloride. 2,921,044, 1-12-60, Cl. 260-45.5.
- Coover, Harry W., Jr., to Eastman Kodak Co. Catalyst containing aluminum, titanium, tetrahalide and alkali metal fluoride and olefin polymerization therewith. 2,925,410, 2-16-60, Cl. 260-93.7.
- Coover, Harry W., Jr., to Eastman Kodak Co. Olefin polymerization catalyst containing a metal halide and hexaphenylethane. 2,933,433, 4-19-60, Cl. 260-93.7.
- Coover, Harry W., Jr., to Eastman Kodak Co. Olefin polymerization catalyst containing aluminum, titanium tetrahalide and titanium alcoholate. 2,948,712, 8-9-60, Cl. 260-93.7.
- Coover, Harry W., Jr., to Eastman Kodak Co. Three-component aluminum-titanium tetrahalide catalyst for olefin polymerization therewith. 2,962,487, 11-29-60, Cl. 260-93.7.
- Coover, Harry W., Jr., and M. A. McCall, to Eastman Kodak Co. Process for producing dialkyl phosphoric acids. 2,921,087, 1-12-60, Cl. 260-461.
- Coover, Harry W., Jr., and R. L. McConnell, to Eastman Kodak Co. Alkyl 1-acetoxyalkenylphosphonates and polymers thereof. 2,940,961, 6-14-60, Cl. 260-85.5.
- Coover, Harry W., Jr., and R. L. McConnell, to Eastman Kodak Co. O,O-dialkyl S-(2-acetoxy-2-cyanoethyl) phosphorothiolothionates. 2,947,775, 8-2-60, Cl. 260-461.
- Coover, Harry W., Jr., and N. H. Shearer, Jr., to Eastman Kodak Co. Three-component olefin polymerization catalyst containing an aluminum sesquihalide and a transition metal compound. 2,951,066, 8-30-60, Cl. 260-93.7.
- Coover, Harry W., Jr., and R. L. McConnell, to Eastman Kodak Co. Phosphoro-polyesters and polyesterurethanes derived from phosphorodichloridates and aliphatic glycols. 2,952,666, 9-13-60, Cl. 260-77.5.
- Coover, Harry W., Jr., and F. B. Joyner, to Eastman Kodak Co. Three-component alkyl aluminum halide catalysts for olefin polymerization and olefin polymerization process therewith. 2,956,991, 10-18-60, Cl. 260-93.7.
- Coover, Harry W., Jr., and F. B. Joyner, to Eastman Kodak Co. Three-component organometallic-transition metal halide catalysts and olefin polymerization therewith. 2,958,688, 11-1-60, Cl. 260-93.7.
- Copco Trailer Division, a division of Copco Steel & Engineering Co.: See—  
Tenenbaum, Paul. 2,962,295.
- Cope, A. C. Francis. Collapsible clothes drying rack. 2,950,822, 8-30-60, Cl. 211-104.
- Cope, Arthur C., and T.-Y. Shen. 2-6-diazabicyclo(3.3.0) octanes. 2,932,650, 4-12-60, Cl. 260-313.
- Cope, Arthur C., and C. T. Handy, to E. I. du Pont de Nemours and Co. Process of preparing O-divinylbenzene. 2,950,334, 8-23-60, Cl. 260-669.
- Cope, John E., and P. A. Segrave, to Pye Ltd. Television receivers. 2,934,602, 4-26-60, Cl. 178-7.3.
- Cope, William E.: See—  
Gould, Robert E., and Cope. 2,921,355.
- Copease Corp.: See—  
Conner, William C. 2,925,025.
- Copelan, Aubrey I.: See—  
Diaz, Javiel. 2,927,201.
- Copeland, Ralph A., to General Aniline & Film Corp. Process for preparing naphtho [1,2-d] thiazoles. 2,942,003, 6-21-60, Cl. 260-304.
- Copeland, Robert P., and G. P. Reintjes, said Copeland assor. to said Reintjes. Flexible furnace roof or arch. 2,963,997, 12-13-60, Cl. 110-99.
- Copeland, William M., to General Electric Co. Deflector for fans and the like. 2,936,109, 5-10-60, Cl. 230-274.
- Copeland, William M., to General Electric Co. Resilient motor support. 2,936,140, 5-10-60, Cl. 248-26.
- Copelin, Harry B., and F. R. Pence, to E. I. du Pont de Nemours and Co. Production of chloroethylenes. 2,957,923, 10-25-60, Cl. 260-654.
- Copen, Edward H. Card carriers and method of making same. 2,936,680, 5-17-60, Cl. 93-1.
- Copenhoefer, John B., to Brown-Forman Distillers Corp. Photographic film developing apparatus. 2,920,548, 1-12-60, Cl. 95-89.
- Copenhoefer, John B., to Brown-Forman Distillers Corp. Film drying apparatus. 2,932,902, 4-19-60, Cl. 34-159.
- Copes, Joseph P.: See—  
Lambert, Joseph M., Copes, and Wright. 2,964,467.
- Coplan, Myron J., R. J. Coskren, and T. T. Constantine, to Fabric Research Laboratories, Inc. Method of shrink proofing oriented, crystallized polyethylene terephthalate yarns at elevated temperatures by heat tensioning and heat relaxing said yarns. 2,926,065, 2-23-60, Cl. 8-130.1.
- Copland, George V., to Welex, Inc. Directional scintillation well logging apparatus. 2,937,278, 5-17-60, Cl. 250-71.
- Copland, George V., R. G. Love, and F. C. Pittman, to Halliburton Oil Well Cementing Co. Fluid density and viscosity meter system. 2,960,861, 11-22-60, Cl. 73-55.
- Copland, William O., D. S. Faulkner, H. B. Merriman, and R. D. Sansum, to Gerrard Industries Ltd., and Rylands Brothers Ltd. Wire tying machines. 2,957,406, 10-25-60, Cl. 100-4.
- Copley, Michael J., D. K. Mecham, N. E. Weinstein, and R. E. Ferrel, to United States of America, Agriculture. Process of canning wheat. 2,929,725, 3-22-60, Cl. 99-182.
- Copolymer Rubber and Chemical Corp.: See—  
Gerlicher, Robert A., and Denson. 2,927,065.
- Copperweld Steel Co.: See—  
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- Copping, Bruce G., to Aktron, Inc. Box opening and dumping apparatus. 2,948,425, 8-9-60, Cl. 214-311.
- Copping, Geoffrey P., D. J. Parker, and D. J. Barr, to Her Majesty's Postmaster General. Apparatus for mechanically handling thin flat articles. 2,950,675, 8-30-60, Cl. 101-236.
- Coppinger, Galvin M., to Shell Oil Co. Stable free radicals. 2,940,988, 6-14-60, Cl. 260-396.
- Coppinger, Thomas E.: See—  
Dickey, Fred E., and Coppinger. 2,954,522.
- Copthorne, Howard N. Protective coatings for iron and steel. 2,927,089, 3-1-60, Cl. 260-19.
- Copycat Ltd.: See—  
Amsel, Donald, and Wright. 2,948,207.  
Sanderson, Thomas E. F., and Amsel. 2,953,077.
- Coran, Aubert Y., and H. L. Merten, to Monsanto Chemical Co. Composition comprising solid polyolefin and a hydrogenated polyphenyl. 2,925,398, 2-18-60, Cl. 260-33.6.
- Corb, Lawrence: See—  
Zeider, John C., and Corb. 2,935,400.
- Corb, Robert E.: See—  
Bishop, Donald R., and Corb. 2,963,953.
- Corban, Wilbur H., and A. W. Davidson, to Ferro Corp., and Architectural Tiling Co., Inc. Tile setter. 2,944,315, 7-12-60, Cl. 25-153.
- Corbett, Carl C. Multi-year calendars. 2,932,104, 4-12-60, Cl. 40-113.
- Corbett, John M.: See—  
Gordon, David A., and Corbett. 2,942,023.  
Gordon, David A., and Corbett. 2,958,705.  
Gordon, David A., and Corbett. 2,960,532.
- Corbett, Luke W., to Esso Research and Engineering Co. Removal of nickel and vanadium from residual stocks. 2,966,454, 12-27-60, Cl. 208-251.
- Corbett, Marshall J., to Thompson Ramo Wooldridge Inc. Turbine cooling system. 2,942,413, 6-28-60, Cl. 60-35.6.
- Corbett, Marshall J., to Thompson Ramo Wooldridge Inc. Gas turbine engine fuel system and method. 2,946,190, 7-26-60, Cl. 60-39.28.
- Corbett, Marshall J., to Thompson Ramo Wooldridge Inc. Pneumatic displacement amplifier. 2,966,141, 12-27-60, Cl. 121-41.
- Corbett, Stanley M.: See—  
Shook, Ellsworth. 2,927,745.
- Corbett, Thomas H. Injector device. 2,934,081, 4-26-60, Cl. 137-111.
- Corbin, Deward L., to Dixco. Ladies' and men's socks. 2,932,829, 4-19-60, Cl. 2-239.
- Corbin, Robert B., to Motorola, Inc. Crystal oven. Re. 24,815, 4-26-60, Cl. 219-19.
- Corbino, Alfio L. Fountain brush. 2,930,064, 3-29-60, Cl. 13-135.
- Corbitt, Howard E., R. W. Cunningham, and R. M. Hill, Jr., to Aerojet-General Corp. Sealed polarized relay. 2,923,791, 2-2-60, Cl. 200-87.
- Corbo, Vincent B.: See—  
Clark, Burton P., and Corbo. 2,937,828.
- Corby, Neville S., to Imperial Chemical Industries Ltd. Colour couplers. 2,953,576, 9-20-60, Cl. 260-345.2.



Corco Inc.: *See*—

Anderson, Donald P. 2,937,644.  
 Corcoran, James P., to Packaging Corp. of America. Carton construction. 2,950,850, 8-30-60, Cl. 229-16.  
 Corcoran, John F., to United-Carr Fastener Corp. Lamp socket. 2,922,136, 1-19-60, Cl. 339-128.  
 Corcoran, Joseph F., Shoe Co., Inc.: *See*—  
   Ferreira, Joseph J. 2,921,389.  
   Ferreira, Joseph J. 2,934,838.  
 Corcoran, Lewis L., to Sarco Co., Inc. Indicating and controlling apparatus. 2,920,155, 1-5-60, Cl. 200-56.  
 Cordahi, Gamal E.: *See*—  
   Mino, Guido, and Cordahi. 2,929,743.  
 Cordell, Martin, to Studley Paper Co., Inc. Disposable filter bag. 2,945,558, 7-19-60, Cl. 183-51.  
 Cordell, Ralph, to Ken Standard Corp. Electronic load indicator. 2,933,302, 4-19-60, Cl. 265-40.  
 Cordeiro, Joseph M., Jr. Cigarette. 2,921,587, 1-19-60, Cl. 131-10.  
 Corderman, Sidney A., to McIntosh Laboratories, Inc. Audio amplifier. 2,929,028, 3-15-60, Cl. 330-122.  
 Cordes, David H.: *See*—  
   Mande, Irving, and Cordes. 2,962,691.  
 Cordes, William J. Retrievable earth anchor. 2,941,636, 6-21-60, Cl. 189-92.  
 Cordis, Nat. Poultry waterer with automatic cleaner. 2,960,965, 11-22-60, Cl. 119-78.  
 Cordis, Nat. Fluid treating apparatus. 2,963,035, 12-6-60, Cl. 137-111.  
 Cordivari, George C.: *See*—  
   Blain, Albert, Bartik, and Cordivari. 2,926,340.  
 Cordo Chemical Corp.: *See*—  
   Brown, Harlow G. G. 2,960,865.  
   Shaw, Kenneth D. 2,924,546.  
 Cordoba, Ruperto. Device for rotating an aircraft wheel prior to landing. 2,941,758, 6-21-60, Cl. 244-103.  
 Cordon, Theone C., C. W. Beebe, and F. P. Luvisi, to United States of America, Agriculture. Preservation of hides. 2,937,921, 5-24-60, Cl. 8-94.15.  
 Cordova, Jose J. Multiple mixing and distribution valves. 2,924,243, 2-9-60, Cl. 137-625.17.  
 Cords, Helmuth, to Olin Mathieson Chemical Corp. Selective hydrogenation of 3,6-endoxy-3,6-dihydrophthalic acid esters. 2,940,985, 6-14-60, Cl. 260-347.5.  
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   Wanner, Keith W. 2,962,312.  
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   Knight, Robert F. 2,957,346.  
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   Schneider, William S. 2,942,760.  
 Corey, Flournoy: *See*—  
   Corey, Frederick C. and F. 2,929,096.  
 Corey, Flournoy and F. C., and R. H. Farchmin, to Pickwick Co. Device for scalding poultry and the like. 2,919,461, 1-5-60, Cl. 17-11.2.  
 Corey, Flournoy and F. C., and R. H. Farchmin, to Pickwick Co. Device for scalding poultry and the like. 2,929,097, 3-22-60, Cl. 17-11.2.  
 Corey, Flournoy and F. C., and R. D. Pitts, to Pickwick Co. Poultry processing equipment. 2,939,171, 6-7-60, Cl. 17-11.1.  
 Corey, Flournoy, M. G. Swords, D. J. Erger, and R. D. Pitts, to Pickwick Co. Dolly for use with disabled vehicles. 2,943,863, 7-5-60, Cl. 280-79.1.  
 Corey, Frederick C.: *See*—  
   Corey, Flournoy and F. C., and Farchmin. 2,919,461.  
   Corey, Flournoy and F. C., and Farchmin. 2,929,097.  
   Corey, Flournoy and F. C., and Pitts. 2,939,171.  
 Corey, Frederick C. and F., to Pickwick Co. Poultry processing equipment. 2,929,096, 3-22-60, Cl. 17-11.1.  
 Corey, Frederick C., and R. D. Pitts, to Pickwick Co. Poultry processing equipment. 2,945,257, 7-19-60, Cl. 17-11.1.  
 Corey, Joseph T., to Scott Aviation Corp. Face mask lens attaching means. 2,952,852, 9-20-60, Cl. 2-14.  
 Cork, Edward C., to Electric & Musical Industries Ltd. Two band antenna with different time delay in each band. 2,937,374, 5-17-60, Cl. 343-814.  
 Cork, Gordon H.: *See*—  
   Walker, James R. 2,937,332.  
 Cork, Gordon H., to Process Gear and Machine Co. Method of making a universal joint. 2,941,287, 6-21-60, Cl. 29-404.  
 Corley, Charles B., Jr.: *See*—  
   Calvert, John G., and Corley. 2,951,445.  
 Corley, Charles B., Jr., to Jersey Production Research Co. Completion of tubeless wells. 2,963,088, 12-6-60, Cl. 166-35.  
 Corley, Foss E.: *See*—  
   Miller, Aaron, and Corley. 2,935,447.  
 Corman, Elliot B.: *See*—  
   Corman, Samuel M. and E. B. 2,939,501.  
 Corman, Samuel M. and E. B. Textile bags. 2,939,501, 6-7-60, Cl. 150-1.  
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   Morin, Gerard R. 2,954,686.  
 Cormier, Richard J. Material handling apparatus. 2,927,538, 3-8-60, Cl. 104-172.  
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   Geppert, Donovan V., and Corn. 2,946,936.

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Avera, Fitzhugh L. 2,948,621.  
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 Bond, Robert W., and Snyder. 2,954,306.  
 Gibbons, John F., and Morrow. 2,931,797.  
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 Myers, Raymond F. 2,935,611.  
 Paschall, Eugene F. 2,928,827.  
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 Paschall, Eugene F., and Minkema. 2,965,632.  
 Sniegowski, Mitchell S. 2,940,816.  
 Snyder, Edward C., and Kool. 2,965,520.  
 Cornell, Hampton G., and H. H. Meredith, Jr., to Humble Oil & Refining Co. Procedure for transporting sulphur. 2,947,578, 8-2-60, Cl. 302-66.  
 Cornejo, Ray G. Shank skiving shoe machinery. 2,924,835, 2-16-60, Cl. 12-17.  
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   Karnavas, Esidoros C., Cornelison, and Braun. 2,962,058.  
   Kitchens, Lee G., and Cornelison. 2,937,962.  
 Cornelison, Boyd, to Texas Instruments Inc. Apparatus for manufacturing semiconductor materials. 2,935,385, 5-3-60, Cl. 23-273.  
 Cornelison, Boyd, to Texas Instruments Inc. Automatic transistor bar etching. 2,952,528, 9-13-60, Cl. 41-42.  
 Cornelison, Boyd, and E. A. Wolff, Jr., to Texas Instruments Inc. Fabrication techniques for transistors. 2,952,896, 9-20-60, Cl. 29-25.3.  
 Cornelison, Boyd, and E. A. Wolff, Jr., to Texas Instruments Inc. Cooling arrangement for transistor. 2,958,021, 10-25-60, Cl. 317-234.  
 Cornelius Co., The: *See*—  
   Cornelius, Richard T. 2,938,647.  
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 Cornelius, Edward B., T. H. Milliken, Jr., and G. A. Mills, to Houdry Process Corp. Stabilized dehydrogenation catalyst. 2,945,823, 7-19-60, Cl. 252-450.  
 Cornelius, Edward B., and T. H. Milliken, Jr., to Houdry Process Corp. Dehydrogenation catalyst. 2,956,030, 10-11-60, Cl. 252-455.  
 Cornelius, George W., to Holley Carburetor Co. Afterburner apparatus. 2,953,898, 9-27-60, Cl. 60-30.  
 Cornelius, Kent D. Multiple cutter. 2,952,191, 9-13-60, Cl. 90-38.  
 Cornelius, Nelson F. Shaker-type dispensers. 2,937,793, 5-24-60, Cl. 222-189.  
 Cornelius, Richard T. Multiple cylinder pump. 2,921,536, 1-19-60, Cl. 103-162.  
 Cornelius, Richard T. Foam control device in liquid dispensing apparatus. 2,924,233, 2-9-60, Cl. 137-600.  
 Cornelius, Richard T., to The Cornelius Co. Closure for pressurized vessels. 2,938,647, 5-31-60, Cl. 220-55.3.  
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   Hertzberg, Abraham, and Logan. 2,930,196.  
   Hirtreiter, Walter J. 2,965,824.  
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 Cornell, Archie R., to Westinghouse Electric Corp. Starting and operating circuits for electrical discharge lamps. 2,963,623, 12-6-60, Cl. 315-100.  
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   Abeel, Theodore E., Greenberg, and McHugh. 2,935,669.  
   Beyer, Haim. 2,942,302.  
   Cotton, James H., and Weiss. 2,939,060.  
   Crawford, Thomas A. 2,927,955.  
   Habecker, Herman R. 2,955,238.  
 Cornell, Edward S., Jr., to Burndy Corp. Socket connector. 2,942,231, 6-21-60, Cl. 339-258.  
 Cornell, Edward S., Jr., to Burndy Corp. Multitap transformer terminal and insulator securing means. 2,951,227, 8-30-60, Cl. 339-32.  
 Cornell, Edward S., Jr., to Penn-Union Electric Corp. Transformer connector. 2,956,259, 10-11-60, Cl. 339-149.  
 Cornell, Fred S.: *See*—  
   Relph, James M., and Ashdiate. 2,963,807.  
 Cornell, George W., ½ to W. E. Cornell, Jr. Adjustable height sealing unit with reversible underseal strips. 2,933,781, 4-26-60, Cl. 20-64.  
 Cornell, George W., ½ to W. E. Cornell, Jr. Sealing strip. 2,933,782, 4-26-60, Cl. 20-64.  
 Cornell, John A., and J. L. Tucker, to H. D. Justi and Son, Inc. Mixtures of lower alkyl acrylate polymers and methacrylate polymers for dough composition. 2,947,716, 8-2-60, Cl. 260-41.  
 Cornell, Louis F.: *See*—  
   Arnold, Gordon D., and Cornell. 2,964,191.  
 Cornell, Mead, to Griffin, Cornell Co. Degasifying, blending, milling and homogenizing machinery. 2,952,448, 9-13-60, Cl. 259-9.



- Cornell Paperboard Products Co.: *See*—  
 Osterberg, Carl T. 2,931,492.  
 Schwabs, Robert K. 2,923,211.  
 Schwabs, Robert K. 2,951,624.  
 Wenzel, Frederick A. 2,951,627.
- Cornell, Richard H., to General Electric Co. Mass flowmeter  
 baffle. 2,948,150, 8-9-60, Cl. 73—194.
- Cornell Valve Corp.: *See*—  
 Goodspeed, Perry C., Jr. 2,963,265.
- Cornell, W. Elder, Jr.: *See*—  
 Cornell, George W. 2,933,781.  
 Cornell, George W. 2,933,782.
- Cornforth, Jack W.: *See*—  
 Buteux, Richard H. B., Cann, and Cornforth. 2,952,872.
- Cornhusker Mfg. Co., Inc.: *See*—  
 Straub, Carl. 2,949,686.
- Corning Glass Works: *See*—  
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 Blanding, Wendell S., and Claypoole. 2,937,616.  
 Blanding, Wendell S., Foster, and Spremull. 2,949,702.  
 Blanding, Wendell S., and Shaver. 2,936,924.  
 Dalton, Robert H., and Hares. 2,964,414.  
 Davis, James K. 2,934,736.  
 Given, Harold S. 2,952,098.  
 Given, Harold S., Schwab, and Wilson. 2,952,944.  
 King, Charles B., and Stookey. 2,960,801.  
 Landron, Rafael, Jr. 2,919,995.  
 Marafioti, James J., and Scheetz. 2,964,839.  
 Martin, Francis W. 2,925,189.  
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 Randels, Robert B. 2,952,064.  
 Sheldon, John L. 2,942,130.  
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 Stookey, Stanley D. 2,921,860.  
 Stookey, Stanley D. 2,933,857.  
 Voss, Raymond O. 2,960,802.  
 Wisner, William R. 2,946,641.
- Cornish, Eugene S., to George E. Failing Co. Level winding  
 mechanism and adjusting means therefor. 2,962,906,  
 12-6-60, Cl. 74—57.
- Cornish, John M., to Modern Engraving and Machine Co.  
 Process and composition for developing images and designs  
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- Corns, Joseph B.: *See*—  
 Moore, Thomas M., and Corns. 2,943,999.
- Cornuault, Pierre: *See*—  
 Legendre, Andre, and Cornuault. 2,941,866.
- Cornwell, Claude V. Toothpick dispenser. 2,950,841, 8-30-  
 60, Cl. 221—134.
- Cornwell, Ralph T. K., to American Viscose Corp. Com-  
 posite film wrapping. 2,956,671, 10-18-60, Cl. 206—46.
- Cornwell, Tony W.: *See*—  
 Laube, Alfred J., Southard, and Cornwell. 2,948,921.
- Coro Inc. of Rhode Island: *See*—  
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- Coronado-Arce, Manuel, to Electro-Snap Corp. Actuator  
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- Corpet, Louvet & Cie: *See*—  
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- Corrado, Albert D.: *See*—  
 Mathews, George J. 2,954,876.
- Corrado, Victor M., and R. K. Walker, to Mergenthaler Lino-  
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 Cl. 95—45.
- Corrado, Victor M., and D. H. Robbins, to Mergenthaler Lino-  
 type Co. Phototypographical machine. 2,923,215, 2-2-60,  
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- Corral, Gabriel: *See*—  
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- Correale, James V., Jr.: *See*—  
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- Corrigan, J. C., Co., Inc.: *See*—  
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- Corrigan, Joseph, to J. C. Corrigan Co., Inc. Method for  
 handling sugar. 2,948,424, 8-9-60, Cl. 214—152.
- Corrin, Myron L.: *See*—  
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- Corrin, Myron L., to General Electric Co. Method of impreg-  
 nating mica paper with an alkyl orthotitanate, and product  
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- Corrinet, Andrew L., and J. H. Fredette, to American Can  
 Co. Dispensing container. 2,954,148, 9-27-60, Cl.  
 222—541.
- Corry-Jamestown Mfg. Corp.: *See*—  
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- Corry, Thomas M.: *See*—  
 Putkovich, Rudy P., and Corry. 2,937,298.  
 Roedel, John F., Jr., and Corry. 2,965,804.
- Corry, William A., to The Landers Corp. Coated fabric.  
 2,942,327, 6-28-60, Cl. 28—80.
- Corsette, Douglas F.: *See*—  
 Cooperider, Rex C., and Corsette. 2,956,509.
- Corsi, George L., to Federal-Mogul-Bower Bearings, Inc.  
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 60, Cl. 18—59.
- Corsini, Neo, to Curtiss-Wright Corp. Weight transfer de-  
 vice. 2,964,861, 12-20-60, Cl. 37—126.
- Corso, Philip J. Outdoor motion picture projection appa-  
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- Corson, Almon J., to General Electric Co. Suppressed zero  
 frequency meter circuit. 2,944,215, 7-5-60, Cl. 324—81.
- Corson, Almon J., and E. C. Guptill, to General Electric Co.  
 Suppressed zero voltmeter. 2,947,941, 8-2-60, Cl. 324—  
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- Corson, Bayard R., to Westinghouse Electric Corp. Electron  
 discharge device. 2,965,792, 12-20-60, Cl. 313—269.
- Corson Bros., Inc.: *See*—  
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- Corson, G. and W. H., Inc.: *See*—  
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- Corson, William E. Vehicle wheel chock. 2,954,101,  
 9-27-60, Cl. 188—32.
- Cortelli, John A., and L. A. Koenig, to The Clark Controller  
 Co. Electric hoist control. 2,963,634, 12-6-60, Cl. 318—  
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- Cortese, Thomas M. Fluorescent lamp. 2,935,637, 5-3-60,  
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- Corwin, Merton D., to The Baldwin Piano Co. Playing key  
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- Corwin, Robert G., and R. G. Bennett. Insulating blanket  
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- Cory Corp.: *See*—  
 Yaffe, David W. 2,931,880.
- Coryell, Floyd. Portable escalator. 2,929,482, 3-22-60, Cl.  
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- Corzine, Luke H., to Raymond De-Icer & Engineering Co.  
 Vacuum bag molding method. 2,923,978, 2-9-60, Cl.  
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- Cosby, Clarence C., Jr., L. S. Harrow, and J. H. Phalen, to  
 Philip Morris, Inc. Cigarette package. 2,935,228, 5-3-60,  
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- Cosby, James R., and F. O. Watson, to Bendix Aviation Corp.  
 Barometric altitude rate control. 2,921,279, 1-12-60, Cl.  
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- Cosby, James R., and R. J. Cerny, to Bendix Aviation  
 Corp. Pressure-responsive electrical transducer incorporat-  
 ing means for cancelling effects of vibration, gravity and  
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- Cosby, James R., and W. K. Boettinger, to The Bendix Corp.  
 Case or box for radiosonde circuitry. 2,952,843, 9-13-60,  
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- Cosby, James R., and H. K. Janssen, to The Bendix Corp.  
 Telemetering circuit. 2,957,146, 10-18-60, Cl. 332—14.
- Cosby, John N.: *See*—  
 Chapman, Wilbur F., and Cosby. 2,928,816.
- Coscia, Anthony T.: *See*—  
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- Cosden Petroleum Corp.: *See*—  
 Jackson, William K. 2,957,930.  
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- Cosh, Francis R.: *See*—  
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- Coskie, Ronald, to The Procter & Gamble Co. Liquid deter-  
 gent compositions. 2,947,702, 8-2-60, Cl. 252—137.
- Coskren, Robert J.: *See*—  
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- Cosmocord Ltd.: *See*—  
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- Cosmos Dental Products, Inc.: *See*—  
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- Cosmos, William J. Contact wheel with interlocking sections.  
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- Cosner, Donald L., to The Martin Co. Tube bundle assembly.  
 2,948,517, 8-9-60, Cl. 257—248.
- Coss, George R., to Whirlpool Corp. Ironer. 2,924,898, 2-16-  
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- Coss, George R., to Whirlpool Corp. Food waste disposer.  
 2,939,639, 6-7-60, Cl. 241—100.5.
- Cossor, A. C., Ltd.: *See*—  
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 Le Boutillier, Arthur, and Stevens. 2,959,267.  
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- Cost, Joe L., to Air Products Inc. Method and apparatus  
 for fractionating gaseous mixtures. 2,955,434, 10-11-60,  
 Cl. 62—13.
- Costa, John A., to Ford Motor Co. Hydraulic power steering  
 mechanism with damping means. 2,955,667, 10-11-60,  
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- Costa, Joseph L., and R. A. Morse, to United States of  
 America, War. Filter medium. 2,925,879, 2-23-60, Cl.  
 183—4.
- Costa, Peter C. Gunsight. 2,932,895, 4-19-60, Cl. 33—51.
- Costa, Philip J., E. W. Wagner, D. E. Stafford, I. R. Lampert,  
 and E. F. Randolph, to Caterpillar Tractor Co. Elec-  
 trically controlled fluid actuated transmission. 2,952,346,  
 9-13-60, Cl. 192—092.
- Costabello, Dino: *See*—  
 Boffa, Gioacchino, Costabello, and Quilico. 2,956,075.
- Costanzo, Frank E. Pipe-end protectors. 2,942,625, 6-28-60,  
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- Costas, John P.: *See*—  
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- Costello, Edmund F. Speed control coupling. 2,927,482,  
 3-8-60, Cl. 74—781.
- Costello, James R.: *See*—  
 Rattenbury, Kenneth H., and Costello. 2,943,107.



- Costello, James R., Jr., to Victor Chemical Works. Flame-proofing reaction product and use of same. 2,964,377, 12-13-60, Cl. 8-116.
- Costello, Lou: *See*—  
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- Coster, Hans: *See*—  
Case, Bruce G., and Coster. 2,928,217.
- Costine, Raymond L., and R. W. Behrens, to Atlas Powder Co. Process for preparing surface active compositions. 2,945,818, 7-19-60, Cl. 252-353.
- Costley, Eugene J. Internal combustion engine. 2,949,858, 8-23-60, Cl. 103-54.
- Cota, Raymond H.: *See*—  
Manwaring, Joshat G. D., and Cota. 2,946,168.
- Cotadze, Leon: *See*—  
Beslier, Jacques P. J., Cotadze, and Chaffotte. 2,948,114.
- Cotchett, Louis M., to Machinecraft, Inc. Top rolls for spinning frames. 2,937,414, 5-24-60, Cl. 19-142.
- Cotchett, Louis M., to Machinecraft, Inc. Spinning frame apron guides. 2,943,361, 7-5-60, Cl. 19-131.
- Cote, Omer E., to United States Automatic Box Machinery Co., Inc. Method of and machine for forming packages. 2,946,165, 7-26-60, Cl. 53-26.
- Cote, Omer E., and O. W. Wikstrom, to United States Automatic Box Machinery Co., Inc. Box construction. 2,964,228, 12-13-60, Cl. 229-33.
- Cote, Raymond A., to Container Corp. of America. Can carton with chime engaging tabs. 2,963,148, 12-6-60, Cl. 206-65.
- Cote, Raymond E.: *See*—  
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- Cotellessa, Robert F., L. J. Saporta, and E. T. Schutzman, to United States of America, Army. Device for automatically measuring amplitude modulation index. 2,941,162, 6-14-60, Cl. 332-39.
- Cotellessa, Robert F., L. J. Saporta, and E. T. Schutzman, to United States of America, Army. Device for automatically measuring amplitude modulation factor. 2,957,147, 10-18-60, Cl. 332-39.
- Cotesworth, Harry A., and F. W. Dunning, to The Cleveland Crane & Engineering Co. Crane. 2,947,426, 8-2-60, Cl. 212-128.
- Cotey, Oliver J.: *See*—  
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- Cother, Robert H., to H. D. Wright. Resistance coil and method of manufacture. 2,953,761, 9-20-60, Cl. 338-143.
- Cotte, Henri, to J. Lory. Driving arrangement for record tape. 2,948,485, 8-9-60, Cl. 242-55.12.
- Cotter, Howard E. Spreader apparatus. 2,962,194, 11-29-60, Cl. 222-185.
- Cotter, Richard A., and P. Minicucci, Jr., to Speidel Corp. Automatic power release apparatus. 2,960,297, 11-15-60, Cl. 244-150.
- Cotterell, Maurice S. Bag opening and emptying machine. 2,930,501, 3-29-60, Cl. 214-305.
- Cotterman, Frank D., D. R. Sterba, W. J. Knorowski, and A. M. Olsen, to Crane Co. Alignment rod. 2,943,381, 7-5-60, Cl. 29-1.1.
- Cottet, Emile C., and A. C. Ducros, to Societe des Usines Chimiques Rhone-Poulenc. Process for the production of polyvinyl alcohol yarns and films from polyesters. 2,936,488, 5-17-60, Cl. 18-48.
- Cottet, Jean, and J. Redel, to Chimie et Atomistique. Process for lowering high blood cholesterol levels. 2,937,117, 5-17-60, Cl. 167-65.
- Cottingham, Dan S. Sink rim tool. 2,934,337, 4-26-60, Cl. 269-163.
- Cottle, Delmer L.: *See*—  
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Serniuk, George E., Cottle, and Lemiszka. 2,965,620.  
Serniuk, George E., Cottle, and Lemiszka. 2,965,621.
- Cottle, Delmer L., L. S. Minckler, Jr., and T. Lemiszka, to Esso Research and Engineering Co. Process for brominating copolymers. 2,962,482, 11-29-60, Cl. 260-85.3.
- Cottle, Francis M., Jr. Sound deadening device. 2,937,708, 5-24-60, Cl. 181-42.
- Cottle, Harry N., Jr.: *See*—  
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- Cottle, John E.: *See*—  
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- Cottle, John E., to Phillips Petroleum Co. Polymer purification and solvent recovery process. 2,943,082, 6-28-60, Cl. 260-93.7.
- Cottle, John E., to Phillips Petroleum Co. Recovery of olefin polymers from solution. 2,952,671, 9-13-60, Cl. 260-94.9.
- Cottle, John E., to Phillips Petroleum Co. Control of catalytic processes. 2,964,511, 12-13-60, Cl. 260-94.9.
- Cottle, John E., and J. I. Stevens, to Phillips Petroleum Co. Recovery of entrained solvent from vaporized solvent from flashing step. 2,930,786, 3-29-60, Cl. 260-94.9.
- Cotton, James F.: *See*—  
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- Cotton, James H., and F. S. Weiss, to Cornell-Dubilier Electric Corp. Electrical capacitors. 2,939,060, 5-31-60, Cl. 317-260.
- Cotton, Michael B.: *See*—  
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- Cotton, Michael B., to The Sperry Gyroscope Co. Ltd. Potentiometers. 2,934,731, 4-26-60, Cl. 338-128.
- Cotton, Raymond A.: *See*—  
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- Cotton, Richard A., to Millipore Filter Corp. Filter medium. 2,944,017, 7-5-60, Cl. 210-500.
- Cotton, Robert B., and D. B. Doolittle, to All American Engineering Co. Means for testing arresting gear and the like. 2,939,310, 6-7-60, Cl. 73-11.
- Cotton, William A., to Masonite Corp. Process for making laminated hardboard product. 2,924,548, 2-9-60, Cl. 162-132.
- Cottongim, Willard C., and G. H. Fullerton; said Fullerton assor. to said Cottongim. Barbecue stove. 2,940,381, 6-14-60, Cl. 99-445.
- Cottrell Co., The: *See*—  
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Luehrs, Hans J. 2,953,091.  
Mueller, Anthony J. 2,965,025.  
Ziebell, Theodore R. 2,965,024.
- Cottrell, Robert B., to American Steel Foundries. Snubbed suspension means for a railway car wheel and axle assembly. 2,963,987, 12-13-60, Cl. 105-224.
- Cottrill, Charles E., to Standard Packaging Corp. Double-walled container and method for making same. 2,930,518, 3-29-60, Cl. 222-51.
- Cottrill, Delbert E., and R. W. Klier. Device for detachably holding fish stringers. 2,950,888, 8-30-60, Cl. 248-41.
- Cotts, Louis C. Air distributor. 2,960,021, 11-15-60, Cl. 98-103.
- Cotumaccio, Arthur. Method of and apparatus for splitting of lace webs. 2,921,359, 1-19-60, Cl. 28-1.
- Coty, Inc.: *See*—  
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- Couch, Ace. Holder for plural thread chasing tools including tool clamping block with lubrication passageway. 2,954,570, 10-4-60, Cl. 10-106.
- Couch, Glenn F., to Symington Wayne Corp. Slack adjuster. 2,920,501, 1-12-60, Cl. 74-522.
- Couch, Glenn F., to Symington Wayne Corp. Journal box lid. 2,939,749, 6-7-60, Cl. 308-47.
- Couch, Glenn F., to Symington Wayne Corp. Package spring group. 2,966,352, 12-27-60, Cl. 967-9.
- Couch, Karl W., to The Jeffrey Mfg. Co. Reversible training idler. 2,920,750, 1-12-60, Cl. 198-209.
- Coudriet, Edward A., to The Inta-Roto Machine Co., Inc. Ink seal means for rotary intaglio printing mechanism. 2,931,297, 4-5-60, Cl. 101-157.
- Couffer, Robert W., Jr., and W. L. Taylor, to The Dole Valve Co. Pneumatic control valve. 2,965,132, 12-20-60, Cl. 137-622.
- Confueau, Maurice A., to Schlumberger Well Surveying Corp. Well logging systems. 2,948,846, 8-9-60, Cl. 324-6.
- Coulliette, James H., and S. W. Johnson, to Montgomery and Crawford Co., Inc. Apparatus for conveying granular material around an arcuate section of conduit. 2,956,667, 10-18-60, Cl. 198-56.
- Coulter, Allan. Talking mechanism for dolls, manikins and ventriloquist dummies. 2,942,350, 6-28-60, Cl. 46-232.
- Coulter, Claude B. Fuel injector for internal combustion engines. 2,946,576, 7-26-60, Cl. 261-23.
- Coulter, David J. B., and V. Kerrigan, to Imperial Chemical Industries Ltd. Vulcanizable rubber composition and process for vulcanizing same. 2,945,834, 7-19-60, Cl. 260-41.5.
- Coulter, Earl E., to The Babcock & Wilcox Co. Method and apparatus for separating vapor and liquids. 2,954,842, 10-4-60, Cl. 183-79.
- Coulter, James H., Jr., and L. E. Johnson, to The Babcock & Wilcox Co. Chemical and heat recovery apparatus. 2,946,669, 7-26-60, Cl. 23-277.
- Coulter, John B., Jr., to Chicago Pneumatic Tool Co. Rotary drill cutters. 2,927,778, 3-8-60, Cl. 255-349.
- Coulter & McKenzie Machine Co., Inc., The: *See*—  
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- Coulter & McKenzie Machine Co., The: *See*—  
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- Coulter, Thomas W. Fishing rod holder. 2,944,361, 7-12-60, Cl. 43-16.
- Coulson, Harry G. Spring latch. 2,931,675, 4-5-60, Cl. 292-77.
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- Counts, Thomas O., to Sinclair Refining Co. Corrosion inhibition and corrosion inhibited hydrocarbon. 2,966,458, 12-27-60, Cl. 252-8.55.
- Counts, William E., R. W. Smith, and K. Schwartzwalder, to General Motors Corp. Ceramic semi-conductor compositions. 2,962,452, 11-29-60, Cl. 252-520.
- Coupland, Frank H., Jr., E. H. Phelps, J. M. Cranford, and K. R. Daniel, to American Cast Iron Pipe Co. Apparatus for the manufacture of centrifugally cast tubular metal articles. 2,948,934, 8-16-60, Cl. 22-113.5.
- Coupland, John A., to Sharon Steel Corp. Strap stretching tool construction. 2,936,156, 5-10-60, Cl. 254-51.



- Courchene, Theodore P., to United Shoe Machinery Corp. Sole attaching machines. 2,923,953, 2-9-60, Cl. 12-33.4.
- Course, Kenneth W.: See—
- Minett, Herbert H. B., and Course. 2,961,971.
- Coursen, David L., to E. I. du Pont de Nemours and Co. Explosive device. 2,943,571, 7-5-60, Cl. 102-22.
- Courson, Iber C.: See—
- Clark, William J., and Courson. 2,936,205.
- Court, Andrew T. Air conditioning apparatus. 2,931,560, 4-8-60, Cl. 230-2.
- Court, Andrew T., to General Motors Corp. Rear vision means. 2,953,961, 9-27-60, Cl. 88-1.
- Court, Andrew T., to General Motors Corp. Rear vision means having prismatic window. 2,963,936, 12-13-60, Cl. 88-1.
- Court, Patrick R. J., to Sylvania Electric Products Inc. Color television receiver. 2,953,634, 9-20-60, Cl. 178-5.4.
- Courtaulds, Inc.: See—
- Daul, George C. 2,960,484.
- Courtaulds (Canada) Ltd.: See—
- Elliott, James M., and Gray. 2,942,403.
- Courtaulds, Ltd.: See—
- Ballard, Denis G. H., Bamford, Hanby, and Weymouth. 2,946,771.
- Bashford, Leslie A. 2,960,381.
- Bradshaw, Samuel N. 2,928,712.
- Bradshaw, Samuel N., and Mann. 2,930,670.
- Norman, Irwin, and Barter. 2,932,851.
- Schmidt, Wilhelm G. 2,923,694.
- Weymouth, Frederick J. 2,930,780.
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- Hugel, Georges, and Courtel. 2,951,040.
- Courter, Martin L., and J. W. Morney, to Shell Oil Co. Ethylene oxide production. 2,960,511, 11-15-60, Cl. 260-348.5.
- Courtin, Jacques. Compressed air massaging equipment. 2,962,022, 11-29-60, Cl. 128-38.
- Courtland Furniture Co., Inc.: See—
- Kujala, Onni. 2,951,708.
- Courtland Laboratories: See—
- Holt, Miles R. 2,923,297.
- Courtney, Arthur W., Jr., to Westinghouse Electric Corp. Unloaders for refrigerant compressors. 2,920,812, 1-12-60, Cl. 230-7.
- Courtney, Arthur W., Jr., to Westinghouse Electric Corp. Compressor cylinder unloaders. 2,961,148, 11-22-60, Cl. 230-31.
- Courtney, James T., to C. R. Metcalf. Device for converting linear to rotary motion. 2,966,064, 12-27-60, Cl. 74-89.
- Courtney-Pratt, Jeffry S., and W. P. Mason, to Bell Telephone Laboratories, Inc. Piezoresistive accelerometer. 2,963,911, 12-13-60, Cl. 73-517.
- Courtot, Louis B., and G. E. Tanker, to The Weatherhead Co. Method of making guard rings for gas cylinders. 2,945,294, 7-19-60, Cl. 29-475.
- Courtrot, René C., to Sté Ame Maglum. Latch for vehicle doors. 2,964,345, 12-13-60, Cl. 292-223.
- Courtright, A. Monroe: See—
- Kustusch, Paul. 2,921,375.
- Couse, Kibbey W., and R. M. Sutphen, to Couse Mfg., Inc. Expandable building structure. 2,920,920, 1-12-60, Cl. 296-26.
- Couse, Kibbey W., and R. M. Sutphen, to Couse Mfg., Inc. Structural panel member. 2,924,858, 2-16-60, Cl. 20-15.
- Couse, Kibbey W., and R. M. Sutphen, to Couse Mfg., Inc. Roof closure support for expandable building. 2,933,055, 4-19-60, Cl. 108-3.
- Couse Mfg. Inc.: See—
- Couse, Kibbey W., and Sutphen. 2,920,920.
- Couse, Kibbey W., and Sutphen. 2,924,858.
- Couse, Kibbey W., and Sutphen. 2,933,055.
- Cousen, Frank, and G. H. Oxley, to Pilkington Brothers Ltd. Apparatus for manufacturing ornamented flat glass. 2,951,315, 9-6-60, Cl. 49-3.
- Cousin, Charles: See—
- Sack, Henri, and Cousin. 2,960,724.
- Cousin, Fernand: See—
- Schiltknecht, Adolf, and Cousin. 2,942,307.
- Cousino, Bernard A. Endless tape reel. 2,921,787, 1-19-60, Cl. 271-2.18.
- Cousino, Bernard A. Tape cartridge. 2,922,642, 1-26-60, Cl. 271-2.18.
- Cousins, Edward, to The Goodyear Tire & Rubber Co. Anti-skid tire. 2,929,427, 3-22-60, Cl. 152-211.
- Cousins, Edward, to The Goodyear Tire & Rubber Co. Traction augmenting insert for tires. 2,964,082, 12-13-60, Cl. 152-211.
- Cousins, Fred M., and H. L. Brock, to Ford Motor Co. Pump. 2,940,323, 6-14-60, Cl. 74-60.
- Coussement, Fernand C.: See—
- Hellin, Michel C. F., and Coussement. 2,962,507.
- Coutant, André C., and J. Mathot. Motion picture camera with film feeding indication in the view finder. 2,926,560, 3-1-60, Cl. 88-16.
- Coutant, Edward R.: See—
- Cook, Leonard W., and Coutant. 2,929,902.
- Couth, Hyman: See—
- Goldstone, Herbert S. 2,965,342.
- Coutras, Alexander: See—
- Updegraff, Ivor H., and Coutras. 2,937,966.
- Couture, Emile W., and A. Lees, to Brown & Sharpe Mfg. Co. Interlocking device for a surface grinding machine. 2,923,102, 2-2-60, Cl. 51-92.
- Couturier, Robert A.: See—
- Brunns, William H., Couturier, and Gheris. 2,960,187.
- Coval, Arthur B.: See—
- Lee, Arthur L., and Coval. 2,954,864.
- Covalence, Paul: See—
- Hemion, John R., Covalence, and Riddle. 2,949,778.
- Covell, Gerald P.: See—
- Jacobsen, Kenneth L., Johnson, Covell, Kwierant, and John. 2,930,345.
- Covely, Frank D., 3rd, to Radio Corp. of America. Selective detection of radar targets in the presence of noise signals. 2,943,316, 6-28-60, Cl. 343-17.1.
- Covely, Frank D., 3rd, and L. E. Haining, to Radio Corp. of America. Radar system and display. 2,944,253, 7-5-60, Cl. 343-5.
- Covely, Frank D., 3rd, and A. C. Stocker, to Radio Corp. of America. Switching system. 2,951,236, 8-30-60, Cl. 340-174.1.
- Covely, Frank D., 3rd, to Radio Corp. of America. System for narrow-band transmission of pictorial information. 2,957,941, 10-25-60, Cl. 178-6.8.
- Covely, Robert D., 3rd, R. Ayres, and A. C. Stocker, to United States of America, Navy. Visual display system. 2,954,427, 9-27-60, Cl. 178-6.8.
- Coven, Warren B., and J. A. Funk, to The General Industries Co. Plural speed phonograph turntable drive mechanisms. 2,925,738, 2-23-60, Cl. 74-199.
- Coventry, Henry J., to Western Electric Co., Inc. Apparatus for cutting tacky material. 2,948,328, 8-9-60, Cl. 154-1.
- Cover, Chalmers F., and D. G. Tire loader. 2,921,423, 1-19-60, Cl. 53-124.
- Cover, David G.: See—
- Cover, Chalmers F. and D. G. 2,921,423.
- Cover, Paul F.: See—
- Cover, Ralph and P. F. 2,951,484.
- Cover, Paul F. Corn cutting head. 2,951,485, 9-6-60, Cl. 130-9.
- Cover, Ralph and P. F. Corn cutting machine. 2,951,484, 9-6-60, Cl. 130-9.
- Covert, Calvin C., and D. W. Miller, to General Motors Corp. Pump control system. 2,924,940, 2-16-60, Cl. 60-52.
- Covert, Calvin C., and C. B. Wright, to General Motors Corp. Locking means for pitch changing motor. 2,958,382, 11-1-60, Cl. 170-160.33.
- Covert, John N., to Union Special Machine Co. Sewing machine supporting and positioning means. 2,941,490, 6-21-60, Cl. 112-258.
- Covert, Kenneth B., R. W. Park, and U. M. Brist, to Pabcor, Inc. Plastering material. 2,931,733, 4-5-60, Cl. 106-91.
- Covington, Edward R., and J. W. Meier, to E. I. du Pont de Nemours and Co. Packaging film and process for preparation thereof. 2,950,218, 8-23-60, Cl. 117-145.
- Covy, Harry. Method and apparatus for straightening metallic arrows and the like. 2,954,814, 10-4-60, Cl. 153-39.
- Cowan, Arnold A., to Bobrick Mfg. Corp. Poppet valve construction. 2,930,401, 3-29-60, Cl. 137-540.
- Cowan, Charles A. Golf tee match book. 2,930,615, 3-29-60, Cl. 273-33.
- Cowan, Colin T.: See—
- Roberts, Arthur L., Cowan, and White. 2,965,687.
- Cowan, David M.: See—
- Rockwood, Albert M., and Cowan. 2,927,522.
- Cowan, Gerald De G., R. Laurensen, and P. R. Van Hemert, to Sperry Products, Inc. Rail flaw detector mechanism. 2,925,552, 2-16-60, Cl. 324-37.
- Cowan, Gerald de G., R. Laurensen, and P. R. Van Hemert, to Sperry Products, Inc. Rail flaw detector mechanism. 2,958,818, 11-1-60, Cl. 324-37.
- Cowan, Herbert M. Check valve with plural seating. 2,929,401, 3-22-60, Cl. 137-516.29.
- Cowan, Herbert M. Fusible valve. 2,956,574, 10-18-60, Cl. 137-77.
- Cowan, John C.: See—
- Gast, Lyle E., Cowan, and Teeter. 2,952,556.
- Cowan, John C., J. K. Weil, and A. J. Stirton, to United States of America, Agriculture. Sulfated chloroalkanol detergents. 2,938,872, 5-31-60, Cl. 252-161.
- Cowan, Kenneth D.: See—
- Braumiller, Jack, Jr., Cowan, and Krawzak. 2,955,473.
- Cowden, Herbert B.: See—
- Damschroder, Rudolph E., and Cowden. 2,944,899.
- Cowden, Lewis M.: See—
- Hawley, George P., and Cowden. 2,950,867.
- Cowden, Lewis M., and J. M. Hendry, to Union Carbide Corp. Method of and apparatus for powder elutriation. 2,940,592, 6-14-60, Cl. 209-139.
- Cowe, Francis H.: See—
- Mapelsden, George C., and Cowe. 2,947,968.
- Cowger, Charles E.: See—
- Holberg, Arnold J., and Cowger. 2,923,638.
- Cowherd, Robert D. Plug-in valve. 2,941,546, 6-21-60, Cl. 137-620.
- Cowles Chemical Co.: See—
- Cowles, Edwin, and Shaver. 2,950,570.
- Cowles, Edwin, and R. C. Shaver, to Cowles Chemical Co. Method and apparatus for producing alkaline silicates. 2,950,570, 8-30-60, Cl. 49-53.



- Cowles, John H.: *See*—  
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- Cowles, Warren H.: *See*—  
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- Cowley, Calvin C., to Don Baxter, Inc. Surgical tube. 2,930,377, 3-29-60, Cl. 128-344.
- Cowley, Charles H.: *See*—  
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- Cowlin, Donald G. Door mechanism for rotating drum. 2,960,778, 11-22-60, Cl. 34-130.
- Cowling, Jack E.: *See*—  
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- Cox, Anna P. M., A. H. Hoekstra, and H. A. Klasens, to North American Philips Co., Inc. Method of producing ultra-violet luminescing silicates. 2,965,579, 12-20-60, Cl. 252-301.4.
- Cox, Arthur: *See*—  
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- Cox, Bonnar: *See*—  
Goldberg, Jacob, Cox, Kautz, and Adams. 2,920,820.
- Cox, Charlton R.: *See*—  
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- Cox, David C., to Mandrel Industries, Inc. Sorting apparatus. 2,966,264, 12-27-60, Cl. 209-111.
- Cox, Delbert M.: *See*—  
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- Cox, Duncan B. Constant temperature apparatus. 2,955,185, 10-4-60, Cl. 219-19.
- Cox, Fred W., and C. G. Evans, to Deering Milliken Research Corp. Apparatus for producing elasticized thermoplastic yarns. 2,921,358, 1-19-60, Cl. 28-1.
- Cox, Herald R., to American Cyanamid Co. Trivalent poliomyelitis live virus vaccine. 2,966,443, 12-27-60, Cl. 167-78.
- Cox, Herbert F., Jr. Mass flow meter. 2,949,774, 8-23-60, Cl. 73-194.
- Cox, Irvin W., to Cutler-Hammer, Inc. Electromagnetic device. 2,925,540, 2-16-60, Cl. 317-156.
- Cox, Irvin W., to Cutler-Hammer, Inc. Electro-thermal device of the thrust actuator type. 2,961,827, 11-29-60, Cl. 60-25.
- Cox, Isaac E., to American Brake Shoe Co. Railway journal bearings. 2,946,631, 7-26-60, Cl. 308-83.
- Cox, Isaac E., to American Brake Shoe Co. Journal bearings. 2,948,571, 8-9-60, Cl. 308-79.
- Cox, James E., and A. P. Notthoff, Jr., to Textron Inc. Guidance system for aerial refueling. 2,941,761, 6-21-60, Cl. 244-135.
- Cox, John E. Electrical insulator links. 2,924,644, 2-9-60, Cl. 174-179.
- Cox, John E., to Electric Transmission Ltd. Seals. 2,953,665, 9-20-60, Cl. 200-132.
- Cox, L. M. Mfg. Co., Inc.: *See*—  
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- Cox, Lawrence A., and K. C. Smith, to The British Oxygen Co. Ltd. Means for supplying gases to the fuel systems of aircraft. 2,938,576, 5-31-60, Cl. 158-36.5.
- Cox, Linvell A., to Illinois Tool Works. Multiple spindle tapping machine with inclined rotary dual disc work carrier means. 2,956,294, 10-18-60, Cl. 10-130.
- Cox, Linvell A., to Illinois Tool Works. Screw and lock washer assembly. 2,965,146, 12-20-60, Cl. 151-37.
- Cox, Marcus L.: *See*—  
Scharla-Nielsen, Hans, and Cox. 2,961,578.
- Cox, Norman L., to E. I. du Pont de Nemours and Co. Viscose process. 2,937,070, 5-17-60, Cl. 18-54.
- Cox, Norman L., to E. I. du Pont de Nemours and Co. Viscose modification. 2,962,341, 11-29-60, Cl. 18-54.
- Cox, Richard M. Water ski. 2,926,364, 3-1-60, Cl. 9-310.
- Cox, Richard W., and R. H. Pollack, to Radio Corp. of America. Automatic rolling machine. 2,964,979, 12-20-60, Cl. 80-22.
- Cox, Robert E., and J. F. Sullivan, to Deere & Co. Reversible plow and gauge wheels. 2,943,688, 7-5-60, Cl. 172-212.
- Cox, Robert J., and R. G. D. Moore, to General Aniline & Film Corp. Diazotype materials sensitized with N-hetero-P-aminobenzenediazonium salts. 2,948,613, 8-9-60, Cl. 96-91.
- Cox, Robert M.: *See*—  
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- Cox, Robert P., to American Alcolac Corp. Beneficiation of ferruginous ores. 2,952,532, 9-13-60, Cl. 75-1.
- Cox, Robert P., L. L. Yaeger, and R. W. Buetow, to Pittsburgh Plate Glass Co. Surface treatment of halogenated fluoroethylenes and laminates thereof. 2,941,912, 6-21-60, Cl. 154-43.
- Cox, Roland O.: *See*—  
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- Cox, Rupert F.: *See*—  
Bolesky, John D., Them, and Cox. 2,954,447.
- Cox, Thomas A.: *See*—  
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- Cox, Thomas G.: *See*—  
Polk, Ralph, Jr., Belk, and Cox. 2,958,356.
- Cox, Victor J., and R. J. D. Reeves, to E. K. Cole, Ltd. Recording voltmeters. 2,925,309, 2-16-60, Cl. 346-32.
- Cox, William H., to Sun Oil Co. Method and apparatus for seismic surveying. 2,923,367, 2-2-60, Cl. 181-5.
- Cox, William H., to Sun Oil Co. Drive mechanism. 2,951,387, 9-6-60, Cl. 74-210.
- Cox, William J., and M. H. Dreher, to The Quadriga Mfg. Co. Apparatus for forming an oil seal inner shell. 2,948,322, 8-9-60, Cl. 153-2.
- Cox, William L.: *See*—  
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- Cox, William T. Fence structure. 2,954,212, 9-27-60, Cl. 256-11.
- Cox, Wylie N. Vehicle tire chain assembly. 2,925,843, 2-23-60, Cl. 152-213.
- Coyle, Charles A. High efficiency internal combustion engine. 2,937,631, 5-24-60, Cl. 123-75.
- Coyne, William J., to United-Carr Fastener Corp. Selenium rectifier. 2,935,665, 5-3-60, Cl. 317-234.
- Coyne, Donald M., to Continental Oil Co. Manufacture of alkyl substituted boranes. 2,953,603, 9-20-60, Cl. 260-606.5.
- Coyne, Gerard G., to General Electric Co. Refrigeration system for air conditioning units. 2,959,937, 11-15-60, Cl. 62-324.
- Coyne, William R.: *See*—  
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Brabender, Carl W., and Coyne. 2,943,479.  
Brabender, Carl W., and Coyne. 2,957,673.
- Cozad, David J.: *See*—  
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- Cozette, Bernard L.: *See*—  
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- Cozzette, Edward: *See*—  
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- Cozzette, Edward N.: *See*—  
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- Cozzoli, Joseph M. Vial arranging and feeding means. 2,935,173, 5-3-60, Cl. 198-30.
- Cozzoli, Michael, to Fairchild Engine and Airplane Corp. Cargo handling system. 2,949,863, 8-23-60, Cl. 104-135.
- Crabb, Merle W., and E. G. Schwarm, to General Precision Inc. Jet engine simulation system. 2,965,977, 12-27-60, Cl. 35-12.
- Crabill, Allen K., to E. J. Lavino and Co. Furnace for reducing metallic ores. 2,946,581, 7-26-60, Cl. 266-9.
- Crable, George F., to Gulf Research & Development Co. Micropipet. 2,922,306, 1-26-60, Cl. 73-425.4.
- Crabtree, J. A., & Co., Ltd.: *See*—  
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- Crabtree, R. W., & Sons Ltd.: *See*—  
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Willis, Claude E. F. 2,941,742.
- Craddock, Charles L. Circuit interrupter. 2,921,162, 1-12-60, Cl. 200-87.
- Craddock Furniture Corp.: *See*—  
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- Craddock, Melville V., to Craddock Furniture Corp. Concealed chest for table. 2,934,387, 4-26-60, Cl. 312-204.
- Craddock-Terry Shoe Corp.: *See*—  
Lockridge, Robert S. 2,946,140.
- Craft, John B. Automatic guidance system. 2,922,600, 1-26-60, Cl. 244-14.
- Craft, John B., and J. S. Youtcheff. Portable gold concentrating device. 2,926,786, 3-1-60, Cl. 209-458.
- Craft, Milfred H.: *See*—  
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- Craft, Milfred H., to Ritter Co., Inc. X-ray base construction. 2,938,694, 5-31-60, Cl. 248-158.
- Craft, William S., W. M. Smith, and C. E. Porter, to Esso Research and Engineering Co. Combination crude distillation and olefin production process. 2,950,241, 8-23-60, Cl. 208-78.
- Crafton, John M. Molding assemblies. 2,921,336, 1-19-60, Cl. 18-4.
- Crafts, Curtis S., to Miehle-Goss-Dexter, Inc. Plate locating mechanism for stereotype plate finishing machine. 2,945,284, 7-19-60, Cl. 29-21.
- Crafts, Curtis S., C. W. Chase, and G. N. Krueger, to Miehle-Goss-Dexter, Inc. Plate positioning arrangement for plate finishing machine. 2,954,598, 10-4-60, Cl. 29-21.
- Crafts, Walter: *See*—  
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- Craig, Alfred B., to The Chemstrand Corp. Method for dispersion of pigments in acrylonitrile polymer solutions. 2,941,970, 6-21-60, Cl. 260-29.6.
- Craig, Allen G., to General Electric Co. Spray metal process for making precision articles. 2,944,338, 7-12-60, Cl. 29-423.
- Craig, Andrew M., Jr.: *See*—  
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- Craig, Burnie J. Writing instrument. 2,946,311, 7-26-60, Cl. 120-42.03.
- Craig, Burnie J. Ball point pen. 2,946,312, 7-26-60, Cl. 120-42.16.
- Craig, Carroll C. Film holder. 2,946,271, 7-26-60, Cl. 95-66.
- Craig, Clarence D. Hypodermic syringe with hood for guarding and concealing the needle. 2,925,083, 2-16-60, Cl. 123-218.
- Craig, David N.: *See*—  
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- Craig, David N., and J. P. Schrodt, to United States of America, Navy. Low-temperature dry cell. 2,950,999, 8-30-60, Cl. 136-155.



- Craig, Dwin R., to Logetronics, Inc. Photographic printing. 2,921,512, 1-19-60, Cl. 95-73.
- Craig, Dwin R., to Logetronics, Inc. Photographic method and apparatus. 2,927,520, 3-8-60, Cl. 95-73.
- Craig, Dwin R., to Logetronics, Inc. Photographic printing. 2,960,019, 11-15-60, Cl. 95-73.
- Craig, Frank S.: See—
- Scheg, Marcian A., and Craig. 2,922,389.
- Craig, Frederick S., to The Sherwin-Williams Co. Nacreous lead pyrophosphate pigment and method of producing same. 2,959,464, 11-8-60, Cl. 23-105.
- Craig, George A., to Machinery Service Co. Path adjusting means for conveyors. 2,951,574, 9-6-60, Cl. 198-30.
- Craig, James C.: See—
- Pokorny, Frank J., Craig, and Tootelian. 2,922,009.
- Craig, James C., to Picker X-Ray Corp., Waite Mfg. Division, Inc. Shipping case for mobile X-ray unit. 2,923,400, 2-2-60, Cl. 206-1.
- Craig, James R., H. E. Rockefeller, F. T. Stanchus, and N. Davis, to Union Carbide Corp. Shielded metal arc welding process. 2,947,847, 8-2-60, Cl. 219-74.
- Craig, Kenneth M. Livestock feeder. 2,961,126, 11-22-60, Cl. 222-14.
- Craig, Palmer H. Magnetic amplifier. 2,937,351, 5-17-60, Cl. 336-200.
- Craig, Paul N., to Smith, Kline & French Laboratories. Substituted phenoxazine sedative agents. 2,947,745, 8-2-60, Cl. 260-244.
- Craig, Paul N., to Smith, Kline & French Laboratories. Tri-fluoromethyl substituted phenoxazines. 2,947,747, 8-2-60, Cl. 260-244.
- Craig, Paul N., to Smith Kline & French Laboratories. Alkylated phenothiazinecarboxamide derivatives. 2,956,996, 10-18-60, Cl. 260-243.
- Craig, Raymond A., to E. I. du Pont de Nemours and Co. Linear condensation polymer fiber. 2,959,839, 11-15-60, Cl. 28-82.
- Craig, Richard W., to General Motors Corp. Control mechanism. 2,964,964, 12-20-60, Cl. 74-473.
- Craig, Robert A.: See—
- Zublin, Kurt E., and Craig. 2,939,993.
- Zublin, Kurt E., and Craig. 2,939,996.
- Craig, Robert A., and K. E. Zublin, to General Electric Co. Electron discharge device. 2,952,795, 9-13-60, Cl. 315-35.
- Craig, Robert G., to Houdry Process Corp. Removal of isobutene from butadiene. 2,956,092, 10-11-60, Cl. 260-680.
- Craig Systems, Inc.: See—
- Hardigg, James S. 2,951,613.
- Craig, Thomas A., K. E. Richter, T. J. Wojciak, and E. Meincke, to Union Carbide Corp. Blowpipe type sigma torch. 2,952,766, 9-13-60, Cl. 219-130.
- Craig, W E.: See—
- Cook, Richard S., and Craig. 2,934,420.
- Craig, W E., and J. O. Van Hook, to Rohm & Haas Co. Methods for controlling nematodes employing aminoisobutyronitriles. 2,940,894, 6-14-60, Cl. 167-22.
- Craig, William A., to Richards Mfg. Co. Hip splint. 2,955,594, 10-11-60, Cl. 128-87.
- Craig, William L., to R. T. Vanderbilt Co., Inc. Paper and method of making same. 2,935,438, 5-3-60, Cl. 162-181.
- Craige, Theodore L., to United Transformer Corp. Miniature inductive devices. 2,948,871, 8-9-60, Cl. 336-83.
- Craige, Theodore L., to United Transformer Corp. Miniature inductive devices. 2,949,591, 8-16-60, Cl. 336-83.
- Crain, Albert H.: See—
- Crain, John P. and A. H. 2,946,625.
- Crain, Harry M., to United States of America, Navy. Self de-energizing relay. 2,928,917, 3-15-60, Cl. 200-106.
- Crain, Harry M. Golf practice device. 2,933,681, 4-19-60, Cl. 324-68.
- Crain, John P. and A. H. Wheel for marsh vehicle. 2,946,625, 7-26-60, Cl. 301-41.
- Crake, Wilfred S., to Shell Oil Co. Marine drilling rig foundations. 2,939,290, 6-7-60, Cl. 61-46.5.
- Cralle, Walter O.: See—
- Dodge, Ronald D., and Cralle. 2,930,463.
- Cramer, Charles H., E. J. Surratt, and J. P. Swed, to E. I. du Pont de Nemours and Co. Sampling of strip metal by use of die and an opposed shaped charge. 2,948,176, 8-9-60, Cl. 83-53.
- Cramer Controls Corp.: See—
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- Riggio, Frank L., and Stempel. 2,941,428.
- Cramer, Eugene M., F. H. Ellinger, and C. C. Land, to United States of America, Atomic Energy Commission. Delta phase plutonium alloys. 2,929,706, 3-22-60, Cl. 75-122.7.
- Cramer, Frank B., to North American Aviation, Inc. Propellant composition. 2,949,352, 8-16-60, Cl. 52-5.
- Cramer, Friedrich D., and K. G. Gartner. Preparation of acid anhydrides. 2,939,876, 6-7-60, Cl. 260-461.
- Cramer, Harold W. Combined step and stool. 2,955,645, 10-11-60, Cl. 155-42.
- Cramer, John W., and C. L. Osburn, Jr., to Phillips Petroleum Co. Dryer temperature control. 2,933,823, 4-26-60, Cl. 34-48.
- Crane Posture Chair Co., Inc.: See—
- Scherer, George J. 2,954,637.
- Scherer, George J. 2,956,619.
- Cramer, Richard D., and W. R. McClellan, to E. I. du Pont de Nemours and Co. Process for the preparation of homoserine and alkyl esters thereof. 2,933,522, 4-19-60, Cl. 260-482.
- Cramer, Robert H., and A. B. Schwartz, to Socony Mobil Oil Co., Inc. Process for the preparation of inorganic gels. 2,927,902, 3-8-60, Cl. 252-463.
- Cramer, Robert H., and A. F. Houser, to Socony Mobil Oil Co., Inc. Catalytic conversion with high density catalyst. 2,951,815, 9-6-60, Cl. 252-453.
- Cramer, Robert H., and A. B. Schwartz, to Socony Mobil Oil Co., Inc. Preparation of attrition-resistant siliceous gels. 2,964,481, 12-13-60, Cl. 252-455.
- Cramer, Thomas M.: See—
- Wilson, William P., and Cramer. 2,936,887.
- Cramer, Thomas M., to United States Borax & Chemical Corp. Production of boric acid and sodium nitrate. 2,965,446, 12-20-60, Cl. 23-102.
- Cramer, Walter E. Under-reaming tool. 2,924,999, 2-16-60, Cl. 77-2.
- Crampton, Peter, and E. Crowe, to Ford Motor Co. Ltd. Automatic trailer hitches. 2,926,931, 3-1-60, Cl. 280-479.
- Cran, William B. G., to Thomas Broadbent & Sons Ltd. Folding machines for laundry flatwork. 2,949,294, 8-16-60, Cl. 270-68.
- Crandall, Arthur B. Automobile window ventilator. 2,949,842, 8-23-60, Cl. 98-2.
- Crandall Dry Dock Engineers, Inc.: See—
- Crandall, Paul S. 2,932,271.
- Crandall, Fred M. Auxiliary flow control attachment for tank flushing systems. 2,922,168, 1-26-60, Cl. 4-53.
- Crandall, Loid. Plug inserting device for tubeless tires. 2,931,261, 4-5-60, Cl. 81-15.7.
- Crandall, Paul S., to Crandall Dry Dock Engineers, Inc. Floating dry docks. 2,932,271, 4-12-60, Cl. 114-46.
- Crandall, Willard A., to Consolidated Edison Co. of New York, Inc. Fluid sampling apparatus. 2,926,527, 3-1-60, Cl. 73-421.5.
- Crandon, Albert S., Jr., to American Window Glass Co. Manufacture of sheet glass. 2,928,213, 3-15-60, Cl. 49-17.
- Crandon, Lawrence H., and G. S. Ley, to United States of America, Navy. Frequency indicating device. 2,921,260, 1-12-60, Cl. 324-78.
- Crane Co.: See—
- Anderson, Andrew E., and Geipel. 2,925,827.
- Balje, Otto E. 2,936,714.
- Barbeau, Jean E. 2,934,299.
- Barbeau, Jean E. 2,934,320.
- Bredtschneider, Kurt B., Drewes, Laird, and Onak. 2,933,333.
- Bredtschneider, Kurt B., and Laird. 2,930,577.
- Bredtschneider, Kurt B., and Onak. 2,945,504.
- Bredtschneider, Kurt E. B. 2,963,725.
- Carrie, William D. 2,934,942.
- Carrie, William D. 2,934,943.
- Carrie, William D. 2,953,015.
- Cotterman, Frank D., Sterba, Knorowski, and Olsen. 2,943,381.
- Fierch, Otto E. 2,925,651.
- Hansen, George E., and Sanoica. 2,945,505.
- Hooper, Louis K. 2,961,868.
- Kanter, Jerome J., Sachs, and Larson. 2,962,727.
- Larson, Carl U., Newman, Novak, and Gaglio. 2,937,718.
- McInerney, John A. 2,923,317.
- Peterson, Edgar M. 2,930,866.
- Svabek, John E., Jr., Stone, and Schmidt. 2,949,613.
- Typaldos, Zissimos A. 2,961,939.
- Whitesell, John C. 2,960,735.
- Crane, Edward V., and F. P. Fehn, Sr., to E. W. Bliss Co. Torque transmitting mechanism. 2,939,973, 6-7-60, Cl. 310-95.
- Crane, Ernest E.: See—
- Stephens, Frederick J., Smith, and Crane. 2,957,780.
- Crane, George B.: See—
- Cutler, Burton, and Crane. 2,941,199.
- Crane, Harold S.: See—
- Lord, Henry A., and Crane. 2,924,367.
- Lord, Henry A., and Crane. 2,924,368.
- Crane, Harold S., to Diamond National Corp. Die for pulp molding. 2,927,635, 3-8-60, Cl. 162-411.
- Crane, Harold S., and A. E. Comstock, to Diamond National Corp. Molded pulp container. 2,941,708, 6-21-60, Cl. 229-2.5.
- Crane, Hewitt D., to AMP Inc. Electrical connector. 2,926,329, 2-23-60, Cl. 339-198.
- Crane, Hewitt D., to Burroughs Corp. Exclusive or function magnetic circuit. 2,927,220, 3-1-60, Cl. 307-88.
- Crane, Hewitt D., to Burroughs Corp. Magnetic core logic element. 2,935,622, 5-3-60, Cl. 307-88.
- Crane, Hewitt D., to Burroughs Corp. Multi-aperture core storage circuit. 2,935,739, 5-3-60, Cl. 340-174.
- Crane, Hewitt D., D. R. Bennion, and F. C. Heinzmann, to Burroughs Corp. Multi-aperture core element design for magnetic circuits. 2,958,854, 11-1-60, Cl. 340-174.
- Crane, Hewitt D., and A. W. Lo, to Radio Corp. of America. Magnetic control system. 2,962,601, 11-29-60, Cl. 307-88.
- Crane, Judson B. Apparatus for applying liquid to weeds or the like. 2,935,818, 5-10-60, Cl. 47-1.5.
- Crane Packing Co.: See—
- Haake, Paul T. 2,922,668.



- Crane Packing Ltd.: *See*—  
Wilkinson, Samuel C. W. 2,963,394.
- Crane, Robert A.: *See*—  
Chapman, Harvey A., Whitmore, and Crane. 2,934,106.  
Pye, David J., and Crane. 2,927,457.
- Crane, Robert L., to Continental Machines, Inc. Band type cutoff saw. 2,932,229, 4-12-60, Cl. 83-201.
- Crane, Samuel P., and S. D. Kent, to Alpha Research Corp. Ventilating spacer and making same. 2,954,076, 9-27-60, Cl. 155-182.
- Crane, Walton B., to Allied Plastics Co. Handle for berry basket and the like. 2,951,615, 9-6-60, Cl. 220-94.
- Crane, William A., to Indiana Commercial Filters Corp. Dual manifold filter and control system. 2,940,595, 6-14-60, Cl. 210-333.
- Crane, William A., to Indiana Commercial Filters Corp. Feeder for filtering materials. 2,940,644, 6-14-60, Cl. 222-345.
- Crane, William B., Jr. Box closure means. 2,959,337, 11-8-60, Cl. 229-26.
- Cranford, John M.: *See*—  
Coupland, Frank H., Jr., Phelps, Cranford, and Daniel. 2,948,934.
- Cranford, John M., R. L. Teague, and W. H. Wright, to American Cast Iron Pipe Co. Vents for centrifugal casting molds. 2,956,322, 10-18-60, Cl. 22-113.5.
- Cranham, John E.: *See*—  
Stevenson, Herbert A., Clark, Cranham, and Higsons. 2,938,829.  
Stevenson, Herbert A., Clark, Marshall, Greenwood, Cranham, and Higsons. 2,938,928.
- Cranker, Keith R.: *See*—  
Rosenthal, Norman A., Panek, and Cranker. 2,940,959.
- Crankshaw, John H., to American Flexible Coupling Co. Flexible coupling V-drive. 2,924,985, 2-16-60, Cl. 74-378.
- Cranmore, John J., to American Machine & Foundry Co. Self-leveling, storing and dispensing apparatus. 2,926,789, 3-1-60, Cl. 211-49.
- Cranmore, Robert, to Cutler-Hammer, Inc. Switch mechanism for hand-operated electric tools. 2,928,921, 3-15-60, Cl. 200-157.
- Cranston, Albert E., Jr. Method and apparatus for packaging cylindrical articles. 2,933,866, 4-26-60, Cl. 53-3.
- Cranston, Albert E., Jr. Reversible wire binding machine. 2,941,464, 6-21-60, Cl. 100-28.
- Cranston Print Works Co.: *See*—  
Smith, Graydon. 2,962,962.
- Crapuchettes, Paul W., to C. V. Litton. Multiple resonator tunable magnetron. 2,928,023, 3-8-60, Cl. 315-39.61.
- Crapuchettes, Paul W., to Litton Industries Inc. Magnetron output coupling circuit. 2,946,918, 7-26-60, Cl. 315-39.
- Crapuchettes, Paul W., to Litton Industries of California. Output structure for electron discharge devices employing cavity resonators. 2,947,908, 8-2-60, Cl. 315-5.46.
- Craven, David: *See*—  
Samuel, George A., and Bell. 2,921,877.  
Samuel, George A., Bell, and Jackson. 2,962,391.
- Craven, James J., Jr. Panel retaining structure. 2,932,771, 4-12-60, Cl. 317-99.
- Craven, Wilbur J., and H. Mueck, to Capewell Mfg. Co. Method and apparatus for producing saw blades. 2,954,710, 10-4-60, Cl. 76-112.
- Cravens, Benjamin B. Indexing and adjusting means for a radial saw. 2,930,415, 3-29-60, Cl. 143-6.
- Cravens, William W.: *See*—  
Kruse, Norman F., and Cravens. 2,924,525.
- Craver Industries, Inc.: *See*—  
Merting, Karl, Rowell, and Craver. 2,942,506.
- Craver, Weldon G.: *See*—  
McClain, Harry W. 2,939,776.
- Craver, William E., Jr.: *See*—  
Merting, Karl, Rowell, and Craver. 2,942,506.
- Cravotta Brothers, Inc.: *See*—  
Cravotta, Cosimo V. 2,939,159.  
Cravotta, Cosimo V. and J. J. 2,945,488.
- Cravotta, Cosimo V., to Cravotta Brothers, Inc. Binder for water ski or the like. 2,939,159, 6-7-60, Cl. 9-310.
- Cravotta, Cosimo V. and J. J., to Cravotta Brothers, Inc. Composite bow for archers. 2,945,488, 7-19-60, Cl. 124-23.
- Cravotta, James J.: *See*—  
Cravotta, Cosimo V. and J. J. 2,945,488.
- Craw, Leonard R.: *See*—  
Black, Roy D. 2,949,680.
- Crawford, Archibald M., K. M. Lockerby, and R. H. Brown. Coupling speed control device. 2,930,888, 3-29-60, Cl. 246-124.
- Crawford, Arthur B., to Bell Telephone Laboratories, Inc. Electromagnetic wave transmission. 2,956,277, 10-11-60, Cl. 343-100.
- Crawford, Caspar G., to Baldwin-Lima-Hamilton Corp. Hydraulic turbine controller. 2,954,206, 9-27-60, Cl. 253-24.
- Crawford, Charles P. Filter for cigarettes. 2,941,533, 6-21-60, Cl. 131-10.
- Crawford, Claud F., to The Scholl Mfg. Co., Inc. Applicator for polishes, powders, creams and other like materials. 2,964,772, 12-20-60, Cl. 15-244.
- Crawford Collets Ltd.: *See*—  
Linzell, Cecil J. 2,964,325.
- Crawford, Cyril A., D. W. McQuade, and F. Stern, to Atomic Energy of Canada Ltd. Tubular passage closure. 2,921,608, 1-19-60, Cl. 138-89.
- Crawford, David J.: *See*—  
Fox, Philip E., Bartelt, Crawford, and Rochester. 2,950,465.
- Crawford, David J., to International Business Machines Corp. Shifting register and storage device therefor. 2,922,985, 1-26-60, Cl. 340-173.
- Crawford, Donald D. Shield for a power take-off. 2,960,850, 11-22-60, Cl. 64-3.
- Crawford, Earl A., to Bird and Son, Inc. Machine for printing webs of paper base and similar fibrous web materials. 2,925,034, 2-16-60, Cl. 101-157.
- Crawford, Earl A., to Bird and Son, Inc. Register producing means for a roller printing machine. 2,925,035, 2-16-60, Cl. 101-181.
- Crawford, Earl A., to Bird & Son, Inc. Web feeding and printing mechanism for multiple unit roller type printing machine. 2,925,036, 2-16-60, Cl. 101-182.
- Crawford, Francis W., and C. E. Stoops, to Phillips Petroleum Co. Method of retarding water surface evaporation. 2,925,318, 2-16-60, Cl. 21-60.5.
- Crawford, George H., Jr.: *See*—  
Lo, Elizabeth S., and Crawford. 2,951,065.
- Crawford, H. E. Co., Inc.: *See*—  
Crawford, Herman E. 2,953,003.  
Crawford, Herman E. 2,953,004.  
Crawford, Herman E. 2,957,325.  
Crawford, Herman E. 2,959,949.
- Crawford, Herman E., to The H. E. Crawford Co., Inc. Circular multi-feed hosiery and method. 2,953,003, 9-20-60, Cl. 66-41.
- Crawford, Herman E., to The H. E. Crawford Co., Inc. Circular knitting machine. 2,953,004, 9-20-60, Cl. 66-48.
- Crawford, Herman E., to The H. E. Crawford Co., Inc. Needle selecting means for circular knitting machines. 2,957,325, 10-25-60, Cl. 66-48.
- Crawford, Herman E., to The H. E. Crawford Co., Inc. Yarn control means for knitting machines. 2,959,949, 11-15-60, Cl. 66-125.
- Crawford, Howard G., and C. J. Schluter, to James Lees and Sons Co. Industrial apparatus and method. 2,962,162, 11-29-60, Cl. 206-59.
- Crawford, James H.: *See*—  
Christian, Raymond A., Crawford, Ganger, and Stockler. 2,931,564.
- Crawford, James V., R. A. Fischer, and D. B. Le May, to The Garrett Corp. Air pressure regulator. 2,935,084, 5-3-60, Cl. 137-505.88.
- Crawford, Kenneth M.: *See*—  
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- Crawford, Louis O., S. R. Walsh, and R. L. Snyder, to R. H. Bouligny, Inc. Creel structure for spinning frames and the like. 2,958,479, 11-1-60, Cl. 242-131.
- Crawford Mfg. Co., Inc.: *See*—  
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Stanley, Henry R. 2,938,573.
- Crawford, Obbie M. Folding scissors. 2,952,912, 9-20-60, Cl. 30-255.
- Crawford, Paul B.: *See*—  
Kennedy, Harvey T., and Crawford. 2,957,338.
- Crawford, Ralph W., to Fisher-Price Toys, Inc. Action toy. 2,937,475, 5-24-60, Cl. 46-205.
- Crawford, Robert T., and J. B. Stevens, to Eastman Kodak Co. Filter tow made from fine filaments and low total denier. 2,953,837, 9-27-60, Cl. 28-80.
- Crawford, Robert T., and J. B. Stevens, to Eastman Kodak Co. Tow for use in the production of tobacco smoke filters. 2,953,838, 9-27-60, Cl. 28-81.
- Crawford, Thomas A., to Cornell-Dubilier Electric Corp. Insulating cover. 2,927,955, 3-8-60, Cl. 174-138.
- Crawford, Thomas J. Manufacture of metal sheathed cable and the like. 2,936,357, 5-10-60, Cl. 219-8.5.
- Crawford, Thomas G., and J. K. Allen, to Westinghouse Electric Corp. Composite laminated tube. 2,945,638, 7-19-60, Cl. 242-118.32.
- Crawford, Tracy: *See*—  
Fall, John F., and Crawford. 2,952,436.
- Crawford, Tracy J. Thermostat. 2,924,099, 2-9-60, Cl. 73-368.4.
- Crawford, Walker. Fish lure. 2,948,948, 8-16-60, Cl. 43-42.39.
- Crawford, Wayne P. Conveyor type storage cabinet. 2,935,367, 5-3-60, Cl. 312-268.
- Crawley, Arthur, T. E. Dugle, and R. W. Wagner, to Crawley Machinery Co., Inc. Multiple station book pressing and creasing machine. 2,921,322, 1-19-60, Cl. 11-1.
- Crawley, Carroll L.: *See*—  
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- Crawley Machinery Co., Inc.: *See*—  
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- Crawshaw, Allan: *See*—  
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- Crayton, Philip H.: *See*—  
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Pilloton, Roger L., and Crayton. 2,963,343.
- Creamer, Edgar M., Jr.: *See*—  
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- Creamer, William R., to International Vulcanizing Corp. Locating means for footwear molding equipment. 2,919,463, 1-5-60, Cl. 18-5.



- Creamery Package Mfg. Co., The: See—  
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- Creasey, Raymond F., B. O. Heath, and S. Walmsley, to The English Electric Co. Ltd. Aircraft wings incorporating power installation for propulsion. 2,956,759, 10-18-60, Cl. 244-15.
- Creelius, Carlyle A. Trawl cable meter. 2,940,173, 6-14-60, Cl. 33-134.
- Credit, Harold J. Surfacing tool. 2,949,661, 8-23-60, Cl. 29-79.
- Credner, Carl: See—  
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- Creed & Co. Ltd.: See—  
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Salmon, Reginald D., and Turner. 2,960,164.  
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- Creed, Sherman H.: See—  
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- Creek, John O., to Orenda Engines Ltd. Hollow gas turbine blade. 2,923,525, 2-2-60, Cl. 253-39.15.
- Creek, John O., to Orenda Engines Ltd. Method and apparatus of forming sheet metal blade sections. 2,958,362, 11-1-60, Cl. 153-48.
- Creek, John O., to Orenda Engines Ltd. Machine tools. 2,966,097, 12-27-60, Cl. 90-15.
- Creek, John O., to Orenda Engines Ltd. Hollow air cooled turbine blades. 2,966,331, 12-27-60, Cl. 253-39.15.
- Creelman, Edmund W., to The C. W. Zumbiel Co. Hinge type carton. 2,946,499, 7-26-60, Cl. 229-37.
- Crehan, William J.: See—  
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- Creighton, Mitchell H.: See—  
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- Crement, Anthony V. Sheet-metal worker's hammer. 2,919,613, 1-5-60, Cl. 81-15.
- Cremer, Gottfried, L. Bolkow, and A. Evers. Apparatus for pressing plastic masses, particularly ceramic masses. 2,952,059, 9-13-60, Cl. 25-82.
- Crenshaw, James H., to International Business Machines Corp. Variable damped servomotor system. 2,939,066, 5-31-60, Cl. 318-448.
- Crenshaw, Russell S., Jr. Constant tension device for boat falls. 2,948,512, 8-9-60, Cl. 254-172.
- Cresap, Charles N. Method for molding pulverulent material. 2,929,109, 3-22-60, Cl. 18-55.
- Crescent Co. Inc., The: See—  
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- Crespin, George T. F., and P. Peperzak, to Shell Oil Co. Washing subdivided solids. 2,965,522, 12-20-60, Cl. 134-25.
- Cressman, Homer W. J.: See—  
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- Cresswell, Robert A., to The British Oxygen Co. Ltd. Electric arc welding. 2,922,024, 1-19-60, Cl. 219-75.
- Cresswell, Robert A., to The British Oxygen Co. Ltd. Submerged arc welding. 2,965,743, 12-20-60, Cl. 219-73.
- Cresswell, Robert A., to The British Oxygen Co. Ltd. Electric arc welding. 2,965,746, 12-20-60, Cl. 219-137.
- Crest Foods Co., Inc.: See—  
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- Crest Marine Hardware Co., Inc.: See—  
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- Creswick, Frederick A., E. E. Flanagan, and C. E. Quinn, to General Motors Corp. Gas turbine starting system. 2,938,338, 5-31-60, Cl. 60-39.14.
- Creutz, Edward C.: See—  
Wigner, Eugene P., and Creutz. 2,928,781.
- Creutz, Edward C., to United States of America, Atomic Energy Commission. Method of jacketing a fissionable body. 2,924,877, 2-16-60, Cl. 29-473.3.
- Creveling, Catherine B., and E. V. Pennell. Skirt or pants hanger. 2,952,367, 9-13-60, Cl. 211-113.
- Creveling, Cyrus J. Permuting switch. 2,921,997, 1-19-60, Cl. 200-43.
- Creveling, Robert. Counting circuits. 2,932,737, 4-12-60, Cl. 250-27.
- Crew, Fred W. Latch mechanism. 2,919,570, 1-5-60, Cl. 70-211.
- Crews, Robert W., to A. B. Dick Co. Electrostatic printing tube and method for manufacture. 2,928,973, 3-15-60, Cl. 313-89.
- Crews, Robert W., and C. W. Barnes, Jr., to A. B. Dick Co. Electrostatic printing tube. 2,952,796, 9-13-60, Cl. 315-21.
- Crews, Robert W., and P. J. Rice, Jr., to A. B. Dick Co. Target for an electrostatic writing tube. 2,963,606, 12-6-60, Cl. 313-73.
- Cribben and Sexton Co.: See—  
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Kamin, George W. 2,939,453.
- Cribley, Kenneth C., to Champlin Oil & Refining Co. Pipe line cleaner. 2,959,798, 11-15-60, Cl. 15-104.06.
- Crider, Gordon A. Blind doweling drill. 2,943,653, 7-5-60, Cl. 144-92.
- Crigler, Ilene M., deceased; J. F. Crigler, administrator c.t.a. Adhesive earring construction. 2,936,600, 5-17-60, Cl. 63-14.
- Crigler, John F.: See—  
Crigler, Ilene M. 2,936,600.
- Crim, Hugh S., and W. W. Jacobus, to United States of America, Navy. Afterburner igniter. 2,949,738, 8-23-60, Cl. 60-39.82.
- Cripe, Alan R., to The Chesapeake and Ohio Railway Co. Wheel positioning device for single axle articulated trains. 2,935,031, 5-3-60, Cl. 105-4.
- Cripe, Alan R., to The Chesapeake and Ohio Railway Co. Radially guided, single axle, above center of gravity suspension for articulated trains. 2,954,746, 10-4-60, Cl. 105-4.
- Cripps, Alan, to Cable Belt Ltd. Conveyors. 2,924,326, 2-9-60, Cl. 193-191.
- Cripps, Harry N., to E. I. du Pont de Nemours and Co. Polynuclear quinones. 2,934,544, 4-26-60, Cl. 260-365.
- Criquillon, Christiane: See—  
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- Crisan, Cornel: See—  
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- Criscuolo, Edward L., D. Polansky, and D. P. Case. Protection of combination locks against entry by radiography. 2,938,374, 5-31-60, Cl. 70-333.
- Crise, Wilford P. Fluid controller and method. 2,920,584, 1-12-60, Cl. 110-72.
- Crise, Wilford P., and A. Jansons. Method of cutting irregular cams and gears. 2,962,937, 12-6-60, Cl. 90-9.
- Crissera, Joseph E. Hinge. 2,938,228, 5-31-60, Cl. 16-146.
- Crisset, Laverne W., and J. H. Lowell, to E. I. du Pont de Nemours and Co. Methyl methacrylate polymer coating composition. 2,934,509, 4-26-60, Cl. 260-30.6.
- Crisset, Laverne W., and J. H. Lowell, to E. I. du Pont de Nemours and Co. Coating compositions containing polymer of methyl methacrylate. 2,934,510, 4-26-60, Cl. 260-31.8.
- Crist, Charles L.: See—  
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- Critcher, Clem N. Hanging ornament. 2,951,673, 9-6-60, Cl. 248-318.
- Critchley, Octavius H., A. E. Bennett, and W. A. Sammons, to Coal Industry (Patents) Ltd. Electrical resistance strain gauge cells or capsules. 2,927,292, 3-1-60, Cl. 338-3.
- Critchley, Stuart W.: See—  
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- Critchley, William C.: See—  
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- Critchlow, Arthur J., to International Business Machines Corp. Electrostrictive positioning device. 2,924,981, 2-16-60, Cl. 74-125.
- Critchlow, George F., to Bell Telephone Laboratories, Inc. Calibration indicator. 2,951,200, 8-30-60, Cl. 324-57.
- Critelli, Anthony A. Infinite ratio torque converter and multiplier. 2,949,046, 8-16-60, Cl. 74-688.
- Crittendon, Bob C., to Socony Mobil Oil Co., Inc. Stabilization of water-in-oil emulsion. 2,930,755, 3-29-60, Cl. 252-8.5.
- Crittendon, Lexie R., E. W. Hailston, P. R. Haskell, R. P. Kelly, and W. E. Leek, to Remington Arms Co., Inc. Gas operating mechanism for an autoloading firearm. 2,941,450, 6-21-60, Cl. 89-191.
- Crocco, Edward M.: See—  
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Chichester, Kenneth J., and Crocco. 2,945,101.
- Crocco, Edward M., to The Reflectone Corp. Governor for small motors. 2,927,173, 3-1-60, Cl. 200-80.
- Crocchi, Piero. Drive system. 2,929,198, 3-22-60, Cl. 60-13.
- Crocker, George B., and E. J. De Leo. Loop guide for dial looper. 2,943,585, 7-5-60, Cl. 112-26.
- Crocker, Henry P.: See—  
Bellringer, Frederick J., and Crocker. 2,928,884.  
Capp, Clifford W., Crocker, and Salt. 2,948,760.
- Crocker, Weyman S.: See—  
Lemmerman, Harold H. P., and Crocker. 2,935,677.  
Lemmerman, Harold H. P., and Crocker. 2,945,173.
- Crocker, Weyman S., and H. H. P. Lemmerman, to General Electric Co. D.C. torque motor and the like. 2,932,751, 4-12-60, Cl. 310-154.
- Crockett, Clarence V., S. L. Wallwork, and I. K. Weiss, to General Motors Corp. Tilt cab for trucks. 2,951,548, 9-6-60, Cl. 180-89.
- Crockett, John M., and P. M. Hulme, to Air Reduction Co., Inc. Manufacture of cast iron. 2,963,364, 12-6-60, Cl. 75-130.
- Crockett, Sydney R., to United States of America, Navy. Peripheral nozzle spinner rocket. 2,946,261, 7-26-60, Cl. 89-1.7.
- Crockford, Jack A., F. A. Hayes, S. D. Feurt, J. H. Jenkins, and H. C. Palmer, to Palmer Chemical & Equipment Co., Inc. Projectile for liquid drug delivery to animals. 2,923,243, 2-2-60, Cl. 102-92.
- Crockford, Joseph R., 1/4 to H. Radzinsky. Padding for laundry rolls. 2,947,098, 8-2-60, Cl. 38-66.
- Crockwell, Douglass. Camera apparatus. 2,941,458, 6-21-60, Cl. 95-15.
- Croco, Charles P., to Westinghouse Electric Corp. Control system. 2,929,961, 3-22-60, Cl. 315-131.
- Croissant, George F., to Croissant Machine Works, Inc. Expanding screw anchor. 2,964,989, 12-20-60, Cl. 85-2.4.
- Croissant Machine Works, Inc.: See—  
Croissant, George F. 2,964,989.



- Croft, Charles T., to Dewrance & Co., Ltd. Valve lapping apparatus. 2,942,388, 6-28-60, Cl. 51-241.
- Croft, George M., to Majac, Inc. Jet pulverizer. 2,934,276, 4-26-60, Cl. 241-40.
- Croft, George M., A. J. Fisher, and W. Billos, to Majac, Inc. Impact mill. 2,932,458, 4-12-60, Cl. 241-39.
- Croft, William C., to The Pyle National Co. Combined lighting and ventilating unit. 2,962,582, 11-29-60, Cl. 240-9.
- Croley, Leo B.: *See*—  
Hanson, George E., and Croley. 2,930,784.
- Croley, Leo B., to Phillips Petroleum Co. Separation by crystallization. 2,940,272, 6-14-60, Cl. 62-58.
- Croll, John L. Hydraulic lift. 2,937,003, 5-17-60, Cl. 254-93.
- Croly, J. Wilford, and R. A. Herndon, to United States of America, Navy. Clamping circuit. 2,935,688, 5-3-60, Cl. 328-173.
- Cromberg, Otto, G. Pritzbuhr, W. Winterhoff, and H. Mayer, to Stahlwerk Kabel C. Pouplier Jr. G.m.b.H. Process for manufacturing multiple coil springs for slide fasteners and method of attachment. 2,929,135, 3-22-60, Cl. 29-410.
- Cromer, Charles F., and B. P. Baker, to Westinghouse Electric Corp. Circuit interrupters. 2,922,010, 1-19-60, Cl. 200-148.
- Cromleigh, Ralph G., to Burroughs Corp. Subtract counter. 2,956,745, 10-18-60, Cl. 235-92.
- Crompt, Theodore Q.: *See*—  
Anderson, Paul E., Crompt, Evans, and Ransom. 2,933,981.
- Crompton & Knowles Corp.: *See*—  
Cederlund, Albert. 2,965,138.  
Cederlund, Albert, Hall, and Darwin. 2,961,008.  
Garcelon, George F. 2,935,507.  
Hornung, Roderick H. 2,929,810.  
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Ouellette, Clarence P., and Nathan. 2,921,421.  
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Sepavich, Victor F. 2,933,108.  
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- Crompton & Knowles Loom Works, The: *See*—  
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- Crompton Parkinson Ltd.: *See*—  
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- Cromwell, Carroll W., Jr.: *See*—  
Allman, Grady W., Cromwell, and Prosser. 2,964,788.
- Cromwell, Thomas M.: *See*—  
Moe, George, Schultz, Shepherd, and Cromwell. 2,944,951.
- Cronan, Walter I. Grading machine. 2,960,224, 11-15-60, Cl. 209-107.
- Cronberger, Luther C., to The Dow Chemical Co. Motor control method and apparatus. 2,930,957, 3-29-60, Cl. 318-52.
- Cronce, William D.: *See*—  
Downie, Wilfred J., and Cronce. 2,937,268.
- Crone, Albert J. Roller skate with small turning radius. 2,920,899, 1-12-60, Cl. 280-1128.
- Crone, Robert M.: *See*—  
Titus, Paul V., and Crone. 2,924,399.
- Cronhage, Nils G.: *See*—  
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- Cronholm, Einar, to F. V. Hasselblad. Rotatable detachable photometer on camera. 2,943,544, 7-5-60, Cl. 95-10.
- Cronin, Edward F.: *See*—  
Johnston, Donald L., and Cronin. 2,930,841.
- Cronin, Edward F., and W. A. Wooldridge, to General Electric Co. Power factor tap for high voltage bushing. 2,937,359, 5-17-60, Cl. 339-36.
- Cronin, Eugene J. Apparatus for sterilizing and preserving eggs. 2,919,639, 1-5-60, Cl. 99-241.
- Croning & Co.: *See*—  
Lottermoser, Manfred. 2,927,032.
- Crook, Eric G. B., to Acrow (Engineers) Ltd. Clips for formwork. 2,953,836, 9-27-60, Cl. 25-131.
- Crook, Thomas W.: *See*—  
Gannon, Thomas P., Miller, and Crook. 2,954,200.
- Crooke, Raymond E., to Sperry Rand Corp. Gun-fire control system. 2,928,593, 3-15-60, Cl. 235-61.5.
- Crooks, Charles E., and W. R. Beckman, to Spotnails, Inc. Pneumatic stapling machine. 2,928,094, 3-15-60, Cl. 1-44.4.
- Crooks, William R., and J. Fullemann, to The Cooper-Bessemer Corp. Turbocompressor. 2,929,548, 3-22-60, Cl. 230-116.
- Crookshank, Paul R.: *See*—  
McFall, John C., and Crookshank. 2,933,390.
- Croonenberghs, Lucien J., to Mannix Co. Ltd. Track aligning method for use in connection with ballast handling devices used under railroad tracks. 2,921,538, 1-19-60, Cl. 104-8.
- Cropp, David, to Warren Components Division, El-Tronics, Inc. Grid cap. 2,935,721, 5-3-60, Cl. 339-103.
- Cropper, Wendell P., and F. E. De Boer, to Standard Oil Co. Micro open-cup flash tester. 2,939,313, 6-7-60, Cl. 73-36.
- Cros, Modesto. Container sealing system. 2,940,629, 6-14-60, Cl. 215-53.
- Crosby, Alton L., and K. M. Stoll, to Sylvania Electric Products Inc. Tube-orientator. 2,943,723, 7-5-60, Cl. 198-33.
- Crosby, Alton L., and K. M. Stoll, to Sylvania Electric Products Inc. Film casting apparatus. 2,965,927, 12-27-60, Cl. 18-15.
- Crosby, Charles H., W. T. Hicks, and R. R. Wahlberg, to Western Electric Co., Inc. Apparatus for making random unit lay cable. 2,924,930, 2-16-60, Cl. 57-51.
- Crosby, Charles H., W. T. Hicks, and R. R. Wahlberg, to Western Electric Co., Inc. Spring latch for takeup of a cabling machine. 2,939,642, 6-7-60, Cl. 242-54.
- Crosby, Charles H., F. Wahl, and R. R. Wahlberg, to Western Electric Co., Inc. Multi-unit binder. 2,944,378, 7-12-60, Cl. 57-12.
- Crosby, Charles H., F. Wahl, and R. R. Wahlberg, to Western Electric Co., Inc. Take-up for cable stranding apparatus. 2,956,390, 10-18-60, Cl. 57-54.
- Crosby, Charles H., W. T. Hicks, A. L. Pizzi, and R. R. Wahlberg, to Western Electric Co., Inc. Reel supporting units for stranding cabler. 2,958,178, 11-1-60, Cl. 57-127.5.
- Crosby, Charles H., W. T. Hicks, and R. R. Wahlberg, to Western Electric Co., Inc. Method of and apparatus for removing scrap wire from multiple supplies. 2,959,905, 11-15-60, Cl. 57-1.
- Crosby, Charles H., W. T. Hicks, and R. R. Wahlberg, to Western Electric Co., Inc. Wire guides for stranding cabler. 2,963,849, 12-13-60, Cl. 57-106.
- Crosby, Donald G.: *See*—  
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- Crosby, Gifford W.: *See*—  
Braunwarth, John B., and Crosby. 2,933,525.  
Braunwarth, John B., and Crosby. 2,936,856.
- Crosby, Gifford W., A. F. Millikan, and E. W. Brennan, to The Pure Oil Co. Formyl triesters of dithiophosphoric acid and lubricating oil compositions containing same. 2,948,682, 8-9-60, Cl. 252-46.6.
- Crosby, Hartzell L.: *See*—  
Gray, Kenneth R., Steinberg, and Crosby. 2,938,893.
- Crosby, Larry: *See*—  
Fisher, John V. 2,949,183.
- Crosby, Murray G. Volume-limiting amplifier. 2,922,116, 1-19-60, Cl. 330-124.
- Crosby, Spurgeon. Tool grinding machine. 2,958,988, 11-8-60, Cl. 51-122.
- Crosby, Stephen A., to The Anderson Co. Mounting for bearing elements. 2,947,535, 8-2-60, Cl. 268-124.
- Croser, M. J., Mfg. Co., Inc.: *See*—  
Handwerk, William E., and Sherrill. 2,931,146.
- Crosier, Walter J., and F. Burgi, to Standard Gage Co., Inc. Wire holding attachment for three-wire method of measuring threads. 2,939,220, 6-7-60, Cl. 33-167.
- Croskey, Frank A., and C. D. Tuttle, to General Motors Corp. Electrostatic charger apparatus. 2,959,353, 11-8-60, Cl. 239-15.
- Croskey, Frank A., and C. D. Tuttle, to General Motors Corp. Electrostatic spray painting apparatus. 2,960,273, 11-15-60, Cl. 239-15.
- Crosland, Percy F. Finishing of textile fabrics. 2,923,047, 2-2-60, Cl. 26-69.
- Crosland, Percy F. Processes of dyeing cellulosic materials with inorganic metallic compounds. 2,923,592, 2-2-60, Cl. 8-52.
- Crosley Broadcasting Corp.: *See*—  
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- Crosman Arms Co., Inc.: *See*—  
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- Crosman, Dorland L., to The Lionel Corp. Toy accessory and operating means therefor. 2,933,854, 4-26-60, Cl. 46-245.
- Crosman, Loring P., to Sperry Rand Corp. Magnetic data recording apparatus. 2,939,758, 6-7-60, Cl. 346-74.
- Crosman, Loring P., to Sperry Rand Corp. Electronic data processing system. 2,954,926, 10-4-60, Cl. 235-159.
- Crosnoe, Guy W.: *See*—  
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- Cross, Carrol D., A. S. Henderson, J. R. Riede, and R. R. Reisinger, to Reserve Mining Co. Dimensional indicator for inaccessible location. 2,941,732, 6-21-60, Cl. 241-37.
- Cross, Carroll N. Display device and method of making it. 2,926,441, 3-1-60, Cl. 40-120.
- Cross, Carroll N. Method for fabricating mounts having display material. 2,948,199, 8-9-60, Cl. 93-1.
- Cross Co., The: *See*—  
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- Cross, Edward D., to Alden Products Co. Recording device. 2,922,686, 1-26-60, Cl. 346-23.
- Cross, Edward D. Mask for facsimile scanner. 2,929,871, 3-22-60, Cl. 178-7.1.
- Cross, James M.: *See*—  
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- Cross, Lawrence P., to Kartridg-Pak Machine Co. Sausage linking machine. 2,930,077, 3-29-60, Cl. 17-34.
- Cross, Myrle V., Jr.: *See*—  
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- Cross Paper Products Corp.: *See*—  
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- Cross, Ralph E., and H. A. Martens, to The Cross Co. Machine control unit. 2,963,695, 12-6-60, Cl. 340-267.



- Cross, Richard N., to General Electric Co. Journal box arrangement. 2,948,236, 8-9-60, Cl. 105-220.
- Cross, William G.: *See*—  
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- Crossan, Jesse R.: *See*—  
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- Crosse, George W.: *See*—  
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- Crossland Licensing Corp. Ltd.: *See*—  
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- Crosswell, Flay D., to Overhead Door Corp. Hinge. 2,932,056, 4-12-60, Cl. 16-171.
- Crotser, Frank P., to Revco, Inc. Defrosting and head pressure releasing refrigerating apparatus. 2,962,871, 12-6-60, Cl. 62-155.
- Crotser, Frank P., and H. J. Tenniswood, to Revco, Inc. Refrigerator construction and controls. 2,962,872, 12-6-60, Cl. 62-155.
- Crotty, Francis N.: *See*—  
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- Crotty, Francis W., to Zenith Radio Corp. Phonograph. 2,926,019, 2-23-60, Cl. 274-10.
- Crotty, James W. Hydro-gravity concentrator. 2,965,234, 12-20-60, Cl. 209-440.
- Crotty, John V. Locking key coupled to lock nut by sliding sleeve. 2,956,604, 10-18-60, Cl. 151-8.
- Crouch, Alan E., and D. W. Pound, to Fisons Pest Control Ltd. Chemical process for making O,O-dialkyl-5-carbamoyl-methyl-phosphorodithioates. 2,959,608, 11-8-60, Cl. 260-461.
- Crouch, John M. Sound and gas-flow control unit. 2,928,491, 3-15-60, Cl. 181-35.
- Crouch, Willie W., and J. C. Hillyer, to Phillips Petroleum Co. Cyclohexane oxidation process. 2,931,834, 4-5-60, Cl. 280-586.
- Croucher, Anthony H. Automatic gear-changing systems. 2,957,558, 10-25-60, Cl. 192-35.
- Crounse, Nathan N., to Sterling Drug Inc. Detergent compositions comprising benzimidazolystilbene whitening and brightening agents. 2,937,148, 5-17-60, Cl. 252-117.
- Crounse, Nathan N., to Sterling Drug Inc. Detergent compositions containing carboxy-esters of hydroxybenzimidazolystilbenes. 2,937,997, 5-24-60, Cl. 252-117.
- Crouse-Hinds Co.: *See*—  
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Bush, Harold L. 2,953,938.  
Jeffers, Walter M. 2,925,583.  
Kuhn, Joseph A., Jr., and Upton. 2,924,761.  
Lester, Ray F. 2,925,458.  
Ryen, Earl S. 2,939,945.  
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- Crouse, John O., to Richland Auto Parts Co. Control device. 2,932,214, 4-12-60, Cl. 74-502.
- Crouse, John O., to Richland Auto Parts Co. Control device. 2,932,215, 4-12-60, Cl. 74-502.
- Croushore, James E.: *See*—  
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- Crouzet, Henri, to Moulinage et Retarderie de Chavanaz. Heating device for filaments. 2,944,319, 7-12-60, Cl. 28-62.
- Crow, Amos E. Tank bleeder. 2,934,087, 4-26-60, Cl. 137-590.
- Crow, Clinton A. Holder for a lawn hose. 2,942,822, 6-28-60, Cl. 248-88.
- Crow, Robert P.: *See*—  
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- Crow, Robert P., to Motorola, Inc. Subcarrier separation system. 2,932,794, 4-12-60, Cl. 328-156.
- Crowder, John H. Vibration dampeners for machine tools. 2,951,955, 9-6-60, Cl. 310-93.
- Crowdes, George J., Jr.: *See*—  
Saint-Amour, John D., and Crowdes. 2,947,919.
- Crowe, Bernard F., and R. Y. Heisler, to Texaco Inc. Synthesis of substituted succinyl compounds. 2,958,695, 11-1-60, Cl. 260-294.
- Crowe, Edgar: *See*—  
Crampton, Peter, and Crowe. 2,926,931.
- Crowe, James W., to International Business Machines Corp. Cryogenic converter. 2,949,602, 8-16-60, Cl. 340-347.
- Crowe, Talmadge L., to Baker Oil Tools, Inc. Well packer with ejectable plug. 2,928,469, 3-15-60, Cl. 166-126.
- Crowe, William J., to Bell Telephone Laboratories, Inc. Non-reciprocal wave transmission. 2,937,346, 5-17-60, Cl. 333-31.
- Crowe, William J., to Bell Telephone Laboratories, Inc. Nonreciprocal wave transmission. 2,946,966, 7-26-60, Cl. 333-24.
- Crowl, Leland S., and A. M. Markwell, to Reynolds Oil Well Pumps, Inc. Oil well pump. 2,933,050, 4-19-60, Cl. 103-179.
- Crowl, Paul S. Reciprocating well pump sand wiper. 2,966,121, 12-27-60, Cl. 103-202.
- Crowley, William G.: *See*—  
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Jones, Charles E., and Crowle. 2,927,798.  
Jones, Charles E., and Crowle. 2,929,636.
- Crowley, Clyde A., W. M. Langdon, and D. V. Louzos, to Graham, Savage and Associates, Inc. Battery cells. 2,921,110, 1-12-60, Cl. 136-86.
- Crowley, Clyde A., W. M. Langdon, D. V. Louzos, and J. H. Conolly, to Graham, Savage and Associates, Inc. Battery cells. 2,921,111, 1-12-60, Cl. 136-100.
- Crowley, Daniel J.: *See*—  
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- Crowley, Daniel N.: *See*—  
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- Crowley, George C., R. G. Holmes, and R. A. Wise, to General Electric Co. Thermosensitive protective system for electrically heated fabrics. 2,959,662, 11-8-60, Cl. 219-20.
- Crowley, Henry L., to A. O. Smith Corp. Antenna. 2,932,027, 4-5-60, Cl. 19-131.
- Crowley, Jerome J. Can bail construction. 2,935,223, 5-3-60, Cl. 220-91.
- Crowley, Thomas H., to Bell Telephone Laboratories, Inc. Switching system. 2,962,552, 11-29-60, Cl. 179-15.
- Crowley, Thomas H., and U. F. Gianola, to Bell Telephone Laboratories, Inc. Magnetic control circuits. 2,963,591, 12-6-60, Cl. 307-88.
- Crown Cork & Seal Co., Inc.: *See*—  
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Wilckens, Elbe, Rainer, Germak, Hamilton, and Redding. 2,937,404.
- Crown Machine and Tool Co.: *See*—  
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- Crown Zellerbach Corp.: *See*—  
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- Crowther, George A., to Sperry Rand Corp. Vector stabilizer. 2,923,466, 2-2-60, Cl. 235-61.5.
- Crowther, George A., to Sperry Rand Corp., Ford Instrument Co. Division. Deck tilt computation system. 2,923,467, 2-2-60, Cl. 235-61.5.
- Crowther, Gerald O., to North American Phillips Co., Inc. Cold-cathode stepping tube. 2,956,205, 10-11-60, Cl. 315-84.6.
- Crowther, Gerald O., and K. F. Gimson, to North American Phillips Co., Inc. Cold cathode gas discharge tube circuit-arrangement. 2,956,156, 10-11-60, Cl. 250-27.
- Croxall, Willard J., and J. H. Mellema, to Miles Laboratories, Inc. Certain 2-(1-alkenyl)-oxazolidines. 2,960,508, 11-15-60, Cl. 260-307.
- Crozat, Donald F.: *See*—  
De Simone, Benjamin J., and Crozat. 2,939,474.
- Crozier, Michael A. Belt for wearing apparel. 2,925,607, 2-23-60, Cl. 2-321.
- Crozier, William D., to United States of America, Navy Impact detonator. 2,919,649, 1-5-60, Cl. 102-79.
- Crozier, William D., to United States of America, Navy Detonator. 2,924,177, 2-9-60, Cl. 102-75.
- Crozier, William D., to United States of America, Navy. Ampule breaker mechanism. 2,925,777, 2-23-60, Cl. 102-70.2.
- Crucible Steel Co. of America: *See*—  
Bomberger, Howard B., and Vordahl. 2,965,521.  
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Vordahl, Milton B. 2,950,192.
- Cruckshank, David S. Anti-skid chain for vehicles. 2,966,188, 12-27-60, Cl. 152-236.
- Crum, Eben J. Uncoiler device. 2,930,541, 3-29-60, Cl. 242-128.
- Crum, Eben J., to Wirecrafters, Inc. Coiling strand material. 2,954,180, 9-27-60, Cl. 242-83.
- Crum, Eben J. Coiling strand material. 2,957,646, 10-25-60, Cl. 242-161.1.
- Crum, Harold W. Tire display apparatus. 2,931,511, 4-5-60, Cl. 211-23.



- Crum, Paul C. Toy train controller and telegraph system. 2,932,259, 4-12-60, Cl. 104-149.
- Crumb, Stephen F.: *See*—  
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- Crump, Elmo E.: *See*—  
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Foster, Harry R., and Crump. 2,929,024.  
Foster, Harry R., and Crump. 2,939,085.
- Crump, Herbert J.: *See*—  
Compton, Frank G., and Crump. 2,950,340.
- Crump, Jack G., to Industrial Nucleonics Corp. Indicating system. 2,920,208, 1-5-60, Cl. 250-83.6.
- Crump, Jack G., to Industrial Nucleonics Corp. Radiation measuring device. 2,965,760, 12-20-60, Cl. 250-83.6.
- Crump, Lloyd R.,  $\frac{1}{2}$  to G. T. Morris. Folded dipole having a direct current output. 2,943,189, 6-28-60, Cl. 250-17.
- Crump, Owen D. Ensilage loading apparatus. 2,941,843, 6-21-60, Cl. 302-56.
- Crump, Ralph E., to Electrofilm, Inc. Conductive surface coverage electrical heating elements. 2,922,867, 1-26-60, Cl. 219-46.
- Crump, Ralph E., to Electrofilm, Inc. Thermostat-carrying electrical heating materials for surface application. 2,938,103, 5-24-60, Cl. 219-46.
- Crump, Ralph E., to Electrofilm, Inc. Heaters using conductive woven tapes. 2,938,992, 5-31-60, Cl. 219-46.
- Crump, Stuart F., L. J. Giuffreda, and R. A. Rapp, to United States of America, Navy. Mixer nozzle. 2,954,750, 10-4-60, Cl. 114-5.
- Crump, William M., and F. F. Klockmann, said Crump assor. of 25%, to William D. Koon. Tackle box with spring-biased clamp. 2,923,516, 2-2-60, Cl. 248-361.
- Crumrine, Herbert E., to Haloid Xerox Inc. Xerographic developing apparatus. 2,942,573, 6-28-60, Cl. 118-637.
- Cruse, Albert F.: *See*—  
Barrett, Calvin J. 2,948,359.
- Cruse, Philip M.: *See*—  
King, Robert E., and Cruse. 2,921,261.
- Crystal Research Laboratories, Inc.: *See*—  
Ward, Samuel I., and McCormack. 2,922,525.
- Csapody, Gyula: *See*—  
Harmos, Ferenc, Forstner, Csapody, Deutsch, and Lukacs. 2,959,893.
- Csecs, Aladar. Carburetor attachment for motor vehicles. 2,943,849, 7-5-60, Cl. 261-51.
- Csendes, Ernest, to E. I. du Pont de Nemours and Co. Process for curing a sulfur-curable polyalkylene-ether polyurethane elastomer. 2,921,927, 1-19-60, Cl. 260-77.5.
- Csimma, Sandor, and S. H. Creed, to Food Machinery and Chemical Corp. Gauging mechanism for processing machine. 2,963,061, 12-6-60, Cl. 146-81.
- Csmereka, John. Universal cable clamp. 2,937,835, 5-24-60, Cl. 248-74.
- Csordás, István, B. Lányi, Z. Veress, and L. Vissy, to Kabel-es Muanyaggyar. Sintered alumina articles and a process for the production thereof. 2,947,056, 8-2-60, Cl. 25-157.
- Csulits, Mathias. Diaper garments. 2,936,758, 5-17-60, Cl. 128-284.
- Csutor, Frank. Tape core. 2,953,313, 9-20-60, Cl. 242-68.5.
- Cubberley, Mitchell H., to Wallace & Tiernan Inc. Apparatus for treating sodium silicate to produce a silica sol. 2,935,482, 5-3-60, Cl. 252-359.
- Cubberley, Mitchell H. Safety ski pole having releasable hand grip. 2,946,600, 7-26-60, Cl. 280-11.37.
- Cubberley, Richard H., and W. H. Driesen, to The Patent and Licensing Corp. Vibration deadening felts. 2,959,495, 11-8-60, Cl. 117-92.
- Cubberley, Walter A., to Walker Brothers. Junction box for floor duct systems. 2,919,827, 1-5-60, Cl. 220-3.7.
- Cuccia, Carmen L.: *See*—  
Larky, Norbert D., and Cuccia. 2,952,736.  
Sonnenfeldt, Richard W., Grundmann, and Cuccia. 2,955,153.
- Cuccia, Carmen L., to Radio Corp. of America. Magnetron-traveling wave tube amplifier. 2,940,006, 6-7-60, Cl. 315-39.3.
- Cucuzza, Joseph R., to General Dynamics Corp. Hydraulic flow regulator. 2,924,236, 2-9-60, Cl. 137-499.
- Cuddington, Kenneth S., and J. Mather, to The British Petroleum Co. Ltd. Catalytic reforming of petroleum hydrocarbons. 2,921,016, 1-12-60, Cl. 208-95.
- Cudini, Roger G., to Maynahan Bronze Co. Wall structure. 2,963,126, 12-6-60, Cl. 189-34.
- Cudnohufsky, Sylvester. Tracer control circuit for machine tools. 2,940,263, 6-14-60, Cl. 60-97.
- Cue Fastener, Inc.: *See*—  
Burbank, John E. 2,942,338.  
Casson, Wesley C. 2,919,482.
- Cuff, Kermit F., to United States of America, Navy. Phase sensitive amplifier. 2,941,085, 6-14-60, Cl. 250-214.
- Cugini, John A., and H. N. Thibault, to Draper Corp. Filling bunch extractor. 2,954,058, 9-27-60, Cl. 139-247.
- Cuillier, Robert G. Drum cleaning machine. 2,951,490, 9-6-60, Cl. 134-107.
- Culbertson, Harold M. Camp stove attached table. 2,922,529, 1-26-60, Cl. 211-93.
- Culbertson, Harry M., and B. L. Williams, Jr., to Monsanto Chemical Co. Aminoplast resins and coating compositions containing same. 2,957,835, 10-25-60, Cl. 260-21.
- Culbertson, Harry M., and B. L. Williams, Jr., to Monsanto Chemical Co. Modified melamine coating resins and coating compositions containing same. 2,957,836, 10-25-60, Cl. 260-21.
- Culbertson, Harry M., and F. J. Hahn, to Monsanto Chemical Co. Modified urea resins and coating compositions containing same. 2,959,558, 11-8-60, Cl. 260-21.
- Culbertson, James A., to The Goodyear Tire & Rubber Co. Metallurgical control during sintering. 2,947,388, 8-2-60, Cl. 188-218.
- Culbertson, John L., to International Telephone and Telegraph Corp. Toll-discriminating outgoing repeater system. 2,934,605, 4-26-60, Cl. 179-18.
- Culbertson, John L., to International Telephone and Telegraph Corp. Voltage multiplier. 2,956,183, 10-11-60, Cl. 307-109.
- Culbertson, Robert D., J. W. Kendall, Jr., C. W. Wesenberg, and P. D. Williams, to Eitel-McCullough, Inc. Electron tube. 2,939,988, 6-7-60, Cl. 313-250.
- Culhane, Leroy J.,  $\frac{1}{2}$  to S. A. Fuller. Rotatable fishing spreader. 2,930,159, 3-29-60, Cl. 43-42.74.
- Culkin, Myron L. Surgical splints. 2,947,306, 8-2-60, Cl. 128-87.
- Culkosky, Martin. Tool for compressing a biasing spring of an electric drum controller. 2,948,058, 8-9-60, Cl. 29-227.
- Cull, Neville L.: *See*—  
Aldridge, Clyde L., and Cull. 2,942,034.  
Aldridge, Clyde L., and Cull. 2,963,499.
- Cull, Neville L., D. Schwartz, and R. J. De Feo, to Esso Research and Engineering Co. Promoter for isomerization reaction. 2,956,097, 10-11-60, Cl. 260-683.76.
- Cullen-Friestedt Co.: *See*—  
Belser, Robert J. 2,945,608.  
Benes, William S., and Kaplan. 2,945,609.  
Kaplan, Louis G. 2,920,465.  
Kaplan, Louis G. 2,959,411.
- Cullen, Graeme E., to Kelvin & Hughes Ltd. Transmitting magnetic compass systems. 2,924,886, 2-16-60, Cl. 33-222.
- Cullen, Margaret C. Adjustable holder for recipe cards and the like. 2,924,032, 2-9-60, Cl. 40-16.
- Cullen, Orville E., and J. E. Conley, to Midland-Ross Corp. Method for carburizing in a continuous furnace. 2,955,062, 10-4-60, Cl. 148-16.5.
- Culleton, John T., to Pacific Pumping Co. Apparatus for separating entrained particles from liquids. 2,946,451, 7-26-60, Cl. 210-512.
- Culley, Lee B. Aeration detector. 2,957,060, 10-18-60, Cl. 200-84.
- Culligan, Inc.: *See*—  
Schulze, Robert E., and Heartstedt. 2,920,644.
- Cullin, Hugh J.: *See*—  
Dranetz, Abraham I., and Cullin. 2,939,970.
- Cullo, Leonard A.: *See*—  
Colman, William P., and Cullo. 2,945,881.
- Cullor, Glen D.: *See*—  
Arkoosh, George T., Miller, and Cullor. 2,936,893.
- Culp, Ernest E.: *See*—  
Paull, Ambrose D., Kelly, and Culp. 2,935,231.
- Culp, Eugene H.: *See*—  
Hulsmit, William H., Jr., Elliott, and Culp. 2,920,481.
- Culp, Neil J., to The Carpenter Steel Co. Wear resistant steel. 2,923,619, 2-2-60, Cl. 75-125.
- Culp, Neil J., to The Carpenter Steel Co. Deep-hardened alloy steel having improved impact strength. 2,950,968, 8-30-60, Cl. 75-125.
- Culp, Samuel K., to The Babcock & Wilcox Co. Condensible fluid swept pulverizer. 2,960,324, 11-15-60, Cl. 263-33.
- Culver, Eugene S., to United States of America, Navy. Missile handling apparatus. 2,964,894, 12-20-60, Cl. 53-257.
- Culver, Joseph S.: *See*—  
Winters, Charles E., Graham, Culver, and Wilson. 2,945,794.
- Cumings, Richard G. Unipulse gate. 2,960,656, 11-15-60, Cl. 328-102.
- Cummin, Alfred S., to Congoleum-Nairn Inc. Process for increasing the hardness of flexible resinous composition sheets by irradiating the same. 2,945,795, 7-19-60, Cl. 204-158.
- Cumming, Raymond C., to Research Corp. Method and apparatus for translating the frequency of a signal. 2,927,280, 3-1-60, Cl. 331-42.
- Cumming, Ronald W., to Commonwealth of Australia, Crown Solicitor's Office. Light for aircraft runways and the like. 2,934,633, 4-26-60, Cl. 240-1.2.
- Cummings, Benjamin H., to Shell Oil Co. Storage of styrene. 2,953,155, 9-20-60, Cl. 137-256.
- Cummings, Charles S.: *See*—  
Brown, Robert A., Cummings, and Hartman. 2,936,362.
- Cummings, Dwight A. Liquid measuring device. 2,964,390, 12-13-60, Cl. 23-259.
- Cummings, Ernest E.: *See*—  
Cummings, James D. and E. E. 2,947,096.
- Cummings, Howard B., to Shenango China, Inc. Dishware decorating machine. 2,946,278, 7-26-60, Cl. 101-44.
- Cummings, Howard D.: *See*—  
Sullivan, James D., Robinson, and Cummings. 2,955,136.
- Cummings, James D. and E. E. Dragline ditch padder attachment. 2,947,096, 8-2-60, Cl. 37-144.
- Cummings, James J., to United States of America, Army. Relay. 2,946,933, 7-26-60, Cl. 317-171.



- Cummings-Landau Laundry Machine Co., Inc.: *See*—  
Hutterer, Martin. 2,921,710.
- Cummings, Nicholas A.: *See*—  
Cummings, Thomas N., Peterson, and Shiu. 2,925,102.  
Cummings, Thomas N., Peterson, and Shiu. 2,925,347.  
Saidel, William R. 2,966,292.
- Cummings, Percival W., Jr., to American Cyanamid Co. Method of producing a synthetic fiber. 2,948,581, 8-9-60, Cl. 18—54.
- Cummings, Robert E.: *See*—  
Compton, William A., Cummings, and Paetz. 2,950,083.
- Cummings, Robert T. Game apparatus. 2,935,323, 5-3-60, Cl. 273—129.
- Cummings, Thomas N.: *See*—  
Saidel, William R. 2,966,292.
- Cummings, Thomas N., B. R. Peterson, Jr., and T. B. Shiu,  $\frac{1}{4}$  to N. A. Cummings. Filling apparatus including injection valve. 2,925,102, 2-16-60, Cl. 141—263.
- Cummings, Thomas N., B. R. Peterson, Jr., and T. B. Shiu,  $\frac{1}{4}$  to N. A. Cummings. Method of making a wrapped ice cream cone. 2,925,347, 2-16-60, Cl. 99—180.
- Cummings, Thomas N., B. R. Peterson, Jr., and T. B. Shiu, to CPS Mfg. Co. Mutator. 2,936,161, 5-10-60, Cl. 259—136.
- Cummings, Thomas N., B. R. Peterson, Jr., and T. B. Shiu, to CPS Mfg. Co. Packaging machine for flowable material. 2,936,798, 5-17-60, Cl. 141—88.
- Cummings, Vernon L. Minnow bucket water circulating system. 2,923,087, 2-2-60, Cl. 43—55.
- Cummings, William, to United States Rubber Co. Light resistant copolymer of poly (alkylenemaleate-hexahydro ortho-phthalate) and styrene. 2,939,858, 6-7-60, Cl. 260—45.4.
- Cummines, William P.: *See*—  
Armstrong, James E., and Cummins. 2,956,957.
- Cummins-Chicago Corp.: *See*—  
Zipf, Alfred R. 2,921,300.
- Cummins Engine Co., Inc.: *See*—  
Shaw, Kenneth S., Richards, and Lytle. 2,963,162.
- Cummins, Gilbert: *See*—  
Winchester, Albert G., Hortman, and Cummins. 2,935,822.
- Cummins, Orval J., to Union Carbide Corp. Method of increasing electrical resistance of gas plated nickel coatings and resulting article. 2,921,871, 1-19-60, Cl. 117—227.
- Cummins, Richard D., to Firewel Development Co. Emergency differential pressure gas supplying apparatus. 2,929,377, 3-22-60, Cl. 128—144.
- Cummins, Richard D., to Firewel Development Co. Aneroid valve for maintaining a minimum pressure. 2,963,034, 12-6-60, Cl. 137—64.
- Cummins, Richard E., to International Business Machines Corp. Automatic tabulating system. 2,936,871, 5-17-60, Cl. 197—179.
- Cummins, Robert K., to General Electric Co. Quartz working. 2,924,046, 2-9-60, Cl. 49—78.1.
- Cumpton, Edward H., Jr., to E. D. Jones Corp. Wood shaving machine with rotary cutter head and feeding means. 2,951,518, 9-6-60, Cl. 141—172.
- Cundiff, Lester B.: *See*—  
Fry, Horace P., Jr., and Cundiff. 2,929,153.
- Cundiff, Lester B., to American Viscose Corp. Dryer drum. 2,919,904, 1-5-60, Cl. 257—95.
- Cunnien, Arthur L., to The Gillette Co. Combination package. 2,939,577, 6-7-60, Cl. 206—47.
- Cunnien, James M., to Minneapolis-Honeywell Regulator Co. Pressure responsive device. 2,951,132, 8-30-60, Cl. 200—83.
- Cunniff, Leo C., and R. Rosenthal, to Industrial Instruments, Inc. Solution conductivity measuring and controlling apparatus. 2,928,406, 3-15-60, Cl. 137—5.
- Cunniff, Leo C., and R. Rosenthal, to Industrial Instruments, Inc. Pickling bath instrumentation. 2,933,094, 4-19-60, Cl. 137—4.
- Cunningham, Arthur R., to Cunningham & Sons. Pencil lead pointer. 2,926,632, 3-1-60, Cl. 120—91.
- Cunningham, Arthur R., to Cunningham & Sons. Side delivery hay rake. 2,952,963, 9-20-60, Cl. 56—376.
- Cunningham, Arthur R., to Cunningham & Sons. Crop conditioner. 2,963,841, 12-13-60, Cl. 56—1.
- Cunningham, Cecil R.: *See*—  
Brautigam, Richard H., and Cunningham. 2,935,179.
- Cunningham, Clairdon E., to General Dynamics Corp. Helmet communication system. 2,942,072, 6-21-60, Cl. 179—156.
- Cunningham, Edward F., to Eastern Industries, Inc. Air flow cooling apparatus and drive therefor. 2,937,803, 5-24-60, Cl. 230—117.
- Cunningham, Ernest R., Jr. Bucket loader. 2,946,564, 7-26-60, Cl. 254—166.
- Cunningham, Fay L., K. W. Riebe, and J. W. Greiner, to The Upjohn Co. Purification of sterols. 2,963,494, 12-6-60, Cl. 260—397.25.
- Cunningham, Fred A., J. O. Klatt, R. F. Brown, and W. W. Slovacek, to The Fes Mfg. Co., Inc. Fry vat. 2,934,001, 4-26-60, Cl. 99—406.
- Cunningham, George L. and F. Pretka, to Callery Chemical Co. Preparation of lithium tetramethoxyborate. 2,923,731, 2-2-60, Cl. 260—462.
- Cunningham, George L., and F. Pretka, to Callery Chemical Co. Salt conversion process. 2,926,990, 3-1-60, Cl. 23—14.
- Cunningham, George L., and F. Pretka, to Callery Chemical Co. Recovery of trialkyl borates from metal tetraalkoxyborates. 2,938,920, 5-31-60, Cl. 260—462.
- Cunningham, Harry L., and J. Koeckes. Tape reconditioning apparatus. 2,920,678, 1-12-60, Cl. 153—93.
- Cunningham, James: *See*—  
Jordan, Robert O., and Cunningham. 2,927,963.
- Cunningham, John E.: *See*—  
Hix, Joseph N., Cunningham, and Cooley. 2,938,846.
- Cunningham, John H. Spinning top and holder. 2,937,472, 5-24-60, Cl. 46—72.
- Cunningham, Joseph M., to Gulf Research & Development Co. Nozzles for the production of fine parallel jets. 2,925,224, 2-16-60, Cl. 239—548.
- Cunningham, Lewis L. Fuel gas control system. 2,959,352, 11-8-60, Cl. 236—80.
- Cunningham, Luddie C. Fishing pole. 2,921,398, 1-19-60, Cl. 43—15.
- Cunningham, Marcus M. Assembly for pumps and the like and holding means for retaining the parts thereof in assembled relationship. 2,933,356, 4-19-60, Cl. 309—2.
- Cunningham, Marion M., to United States Rubber Co. Tire casing package. 2,928,540, 3-15-60, Cl. 206—65.
- Cunningham, Marion M., to United States Rubber Co. Collapsible salvage device. 2,938,489, 5-31-60, Cl. 114—54.
- Cunningham, Marion M., and W. Prager, to United States Rubber Co. Collapsible container. 2,930,423, 3-29-60, Cl. 150—1.
- Cunningham, Omar L., to Toro Mfg. Corp. Instantly retardable preset throttle control mechanism. 2,960,886, 11-22-60, Cl. 74—488.
- Cunningham, Omar L., Jr., to Toro Mfg. Corp. of Minnesota. Power implement with controllable speed reducing drive mechanism. 2,925,134, 2-16-60, Cl. 180—6.66.
- Cunningham, Richard C., and A. W. Ogg, to United States of America, Atomic Energy Commission. Calutron receiver adjustment supports. 2,927,208, 3-1-60, Cl. 250—41.9.
- Cunningham, Richard G., and D. E. Dahlberg, to United States of America, Air Force. Device for de-aerating liquids. 2,952,329, 9-13-60, Cl. 183—2.5.
- Cunningham, Richard G., T. W. Havely, and J. R. Price, to Shell Oil Co. Lubricating compositions containing phosphorus compounds for lubrication of silver bearings. 2,961,405, 11-22-60, Cl. 252—33.4.
- Cunningham, Robert W.: *See*—  
Corbitt, Howard E., Cunningham, and Hill. 2,923,791.
- Cunningham & Sons: *See*—  
Cunningham, Arthur R. 2,926,632.  
Cunningham, Arthur R. 2,952,963.  
Cunningham, Arthur R. 2,963,841.
- Cunningham, William A., and L. E. Pucher, to The Electric Storage Battery Co. Electric battery plate. 2,931,846, 4-5-60, Cl. 136—30.
- Cunningham, William E. Automatic inertia-type switch mechanism. 2,966,564, 12-27-60, Cl. 200—61.46.
- Cunington, George R. Upholstery making. 2,921,403, 1-19-60, Cl. 45—138.
- Cuny, Richard P., W. Dietz, W. D. Antrim, Jr., and D. J. Bunker, to Bendix Aviation Corp. Dual baffled igniter for combustion chamber. 2,941,363, 6-21-60, Cl. 60—39.82.
- Cupella, Aldo,  $\frac{1}{2}$  to Soc. Metallotecnica. Pilot device for the frequency keying of signals transmitted by an operating teletypewriter. 2,929,874, 3-22-60, Cl. 178—66.
- Cupella, Aldo,  $\frac{1}{2}$  to Soc. Metallotecnica. Automatic frequency control device of very high stability and highly sensitive for radio receivers. 2,929,876, 3-22-60, Cl. 178—88.
- Cupp, Charles D., to Scott Aviation Corp. Spring-loaded check valve. 2,940,471, 6-14-60, Cl. 137—527.6.
- Cuq, Auguste P. J. B. Universal joints. 2,954,685, 10-4-60, Cl. 64—16.
- Curello, Charles: *See*—  
Baehr, Carl G., and Curello. 2,952,228.  
Burgess, Robert W., Curello, and Nickerson. 2,952,077.
- Curkin, Lloyd H.: *See*—  
Acker, Walter L., and Curkin. 2,940,837.
- Curl, Thomas L., M. J. F. Ambrose, and A. E. Burch, to Vickers-Armstrongs (Aircraft) Ltd. Hollow-charge warheads of projectiles. 2,960,036, 11-15-60, Cl. 102—56.
- Curland, Philip: *See*—  
Zenn, Kenneth M. 2,960,135.
- Curlet, Alexander S., to Texaco Trinidad Inc. Cementing composition. 2,939,798, 6-7-60, Cl. 106—99.
- Curlett, John: *See*—  
Gurries, Raymond A., and Curlett. 2,934,078.  
Presnell, Frank G., and Curlett. 2,964,113.
- Curlett, John, and R. A. Gurries, to Gurries Mfg. Co. Hydraulic power unit control system. 2,952,245, 9-13-60, Cl. 121—41.
- Curletti, Italo, to Montecatini Società Generale per l'Industria Mineraria e Chimica. Apparatus for continuous calendaring of resinous materials, particularly synthetic thermosetting resins. 2,958,094, 11-1-60, Cl. 18—2.
- Curletti, Italo, to Montecatini Società Generale per l'Industria Mineraria e Chimica. System for the continuous calendaring of plastics such as synthetic resins. 2,959,811, 11-15-60, Cl. 18—2.
- Curley's Cabinet Shop: *See*—  
Amundson, Moran, and Azadian. 2,938,097.



- Curnow, Leonard T., P. S. Randazzo, A. J. Skalak, and T. N. Bosiljevac, Jr., to American Smelting and Refining Co. Vacuum dezinco of lead. 2,956,871, 10-18-60, Cl. 75-78.
- Currah, Jack E. C., A. Rudin, and M. Morf, to Canadian Industries Ltd. Coating articles of magnesium or magnesium base alloys. 2,926,125, 2-23-60, Cl. 204-56.
- Curran, Bernard E., to H. H. Robertson Co. Building and air distributing structure. 2,944,478, 7-12-60, Cl. 98-38.
- Curran, Bernard E., to H. H. Robertson Co. Pressure and temperature control of air mixing outlet unit. 2,957,628, 10-25-60, Cl. 236-13.
- Curran, Bernard E., to H. H. Robertson Co. Pressure and temperature control of air mixing outlet unit. 2,957,629, 10-25-60, Cl. 236-13.
- Curran, Daniel R., W. J. Gerber, and A. Lungo, to United States of America, Army. Housing for ceramic ladder filter. 2,927,285, 3-1-60, Cl. 333-72.
- Curran, Frank J. Suspension-type article of vaporizable material. 2,962,219, 11-29-60, Cl. 239-60.
- Curran, George P.: *See*—  
 Batchelor, James D., Curran, and Gorin. 2,927,063.  
 Batchelor, James D., Curran, and Gorin. 2,950,229.  
 Batchelor, James D., Curran, and Gorin. 2,950,230.  
 Batchelor, James D., Curran, and Gorin. 2,950,231.
- Curran, Thomas R., to Mine Safety Appliances Co. Mask with internal supports for spectacles. 2,962,722, 12-6-60, Cl. 2-14.
- Curran, Willard F., to Danly Machine Specialties, Inc. Dual speed clutch assembly. 2,294,983, 2-16-60, Cl. 74-330.
- Currey, Charles F.: *See*—  
 Clarkson, William G., and Currey. 2,921,733.
- Currie, Courtland B., to Minneapolis-Honeywell Regulator Co. Combination valve. 2,925,221, 2-16-60, Cl. 236-48.
- Currie, Courtland B., and N. J. Sidaris, to Minneapolis-Honeywell Regulator Co. Combined thermostatic and safety reset gas valve. 2,929,557, 3-22-60, Cl. 236-21.
- Currie, Hugh A.: *See*—  
 Zievers, James F., and Currie. 2,946,444.
- Currie, Hugh W., to Currie Machinery Co. Automatic stacker and palletizer. 2,966,018, 12-27-60, Cl. 53-74.
- Currie Machinery Co.: *See*—  
 Currie, Hugh W. 2,966,018.
- Currie, Malcolm R., to Hughes Aircraft Co. Low noise electron gun. 2,936,396, 5-10-60, Cl. 315-3.5.
- Currie, Malcolm R., and D. C. Forster, to Hughes Aircraft Co. Low noise traveling-wave tube. 2,936,393, 5-10-60, Cl. 315-3.
- Currie, Malcolm R., and J. R. Whinnery, to The Regents of the University of California. Backward-wave amplifier. 2,955,226, 10-4-60, Cl. 315-3.6.
- Currie, William E.: *See*—  
 Schmohl, Leland H., and Currie. 2,965,395.
- Currier, Helen A.: *See*—  
 Rauhut, Michael M., and Currier. 2,953,595.  
 Rauhut, Michael M., Hechenbleikner, and Currier. 2,953,596.
- Curry, John F., to Carton Associates, Inc. Cartons. 2,922,561, 1-26-60, Cl. 229-40.
- Curry, Gerald T., and S. J. Gartner, to Sylvania Electric Products Inc. Frame grid. 2,936,391, 5-10-60, Cl. 313-348.
- Curry, Kenneth D. Tire tread cutting machine. 2,925,125, 2-16-60, Cl. 157-13.
- Curry, John J., and R. C. Watson, to Fayette R. Plumb, Inc. Fiber-glass reinforced percussive tool handle. 2,940,492, 6-14-60, Cl. 145-61.
- Curry, Malcolm, to The American Thread Co. Labeled plastic spool. 2,958,145, 11-1-60, Cl. 40-309.
- Curry, Robert S., Jr., to Sperry Rand Corp. Control systems for dirigible craft. 2,948,494, 8-9-60, Cl. 244-77.
- Curry, Virgil A. Measuring stress indicating bolt. 2,943,528, 7-5-60, Cl. 85-62.
- Curtenius, Frederick B., to Rice Barton Corp. Machine for stacking paper including oppositely withdrawable adjacent stack supports. 2,947,428, 8-2-60, Cl. 214-6.
- Curtenius, Frederick B., to Rice Barton Corp. Paper trimming and piling apparatus. 2,958,431, 11-1-60, Cl. 214-6.
- Curtin, David Y., and G. C. Murdoch, to Rohm & Haas Co. Preparation of ethinyl sulfides and 1,2-bis-(organothio)-ethylenes. 2,942,032, 6-21-60, Cl. 260-609.
- Curtis Automotive Devices, Inc.: *See*—  
 Frank, Paul A. 2,950,592.
- Curtis, Charles L. Automatic head dropper for poultry. 2,958,092, 11-1-60, Cl. 17-11.
- Curtis, Charles W., and R. L. Fogel, to Hughes Aircraft Co. Dual-mode bifurcated waveguide transducer. 2,923,895, 2-2-60, Cl. 333-9.
- Curtis Companies Inc.: *See*—  
 Wrightfield, Ralph C. 2,924,007.
- Curtis, Daniel L., to Hughes Aircraft Co. Block identifying marker system. 2,923,589, 2-2-60, Cl. 346-74.
- Curtis, Daniel L., to Hughes Aircraft Co. Arithmetic units for decimal coded binary computers. 2,928,601, 3-15-60, Cl. 235-169.
- Curtis, Daniel L., to Litton Industries of California. Frequency comparison rate servo. 2,932,778, 4-12-60, Cl. 318-314.
- Curtis, Daniel L., to Litton Industries Inc. Voltage corrected diode gates. 2,957,089, 10-18-60, Cl. 307-88.5.
- Curtis, Daniel L., to Litton Industries of California. Computer input-output system. 2,960,690, 1-15-60, Cl. 340-347.
- Curtis, Daniel L., and R. B. Larsen, to Litton Industries, Inc. Magnetic drum memory system. 2,931,691, 4-5-60, Cl. 346-74.
- Curtis, Edward J. Apparatus for treating drinking water for medicinal and/or nutritional purposes. 2,958,334, 11-1-60, Cl. 137-412.
- Curtis, Eugene W. Trailer coupling mechanism. 2,940,776, 6-14-60, Cl. 280-446.
- Curtis, Fay R. Circle protractor. 2,934,828, 5-3-60, Cl. 33-75.
- Curtis, Gerald R., to Bell & Howell Co. Electric transducer. 2,935,710, 5-3-60, Cl. 338-4.
- Curtis, Helene, Industries, Inc.: *See*—  
 Grant, Samuel. 2,956,927.
- Curtis, Horace L.: *See*—  
 Page, Albert E., and Curtis. 2,963,887.
- Curtis, Horace L., to Scott & Williams, Inc. Yarn furnisher for knitting machines. 2,949,756, 8-23-60, Cl. 66-132.
- Curtis, Horace L., to Scott & Williams, Inc. Knitting machine. 2,960,853, 11-22-60, Cl. 66-55.
- Curtis, John C., to Joy Mfg. Co. Percussive rock drill bit. 2,938,709, 5-31-60, Cl. 255-63.
- Curtis, John C., to Joy Mfg. Co. Mobile rock drill rig. 2,949,280, 8-16-60, Cl. 255-51.
- Curtis Laboratories, Inc.: *See*—  
 Bednarz, Felix L. 2,928,952.
- Curtis Mfg. Co.: *See*—  
 Hunter, Robert C. 2,965,150.  
 Kienning, William F. 2,935,049.
- Curtis & Marble Machine Co.: *See*—  
 Remington, Leland F. 2,962,791.
- Curtis, Marvin W., to United States of America, Army. Transistorized transmit-receive switching circuit. 2,939,949, 6-7-60, Cl. 250-13.
- Curtis, Myron S., and W. M. Shook, to The Warner & Swasey Co. Pressure fluid motor. 2,954,012, 9-27-60, Cl. 121-99.
- Curtis, Nicholas, to Trans-Lux Corp. Data reproducing apparatus. 2,946,849, 7-26-60, Cl. 178-7.1.
- Curtis 1000 Inc.: *See*—  
 Whitman, Harlan M. 2,936,945.  
 Whitman, Harlan M. 2,944,728.  
 Whitman, Harlan M. 2,961,136.  
 Whitman, Harlan M. 2,965,282.
- Curtis, Philip J.: *See*—  
 Calam, Christopher T., and Curtis. 2,950,288.
- Curtis, Richard A.: *See*—  
 Robbins, James D., and Curtis. 2,932,961.
- Curtis, Richard L.: *See*—  
 Witucki, Robert M., and Curtis. 2,966,537.
- Curtis, Robert W., to The Babcock & Wilcox Co. Apparatus for cleaning gas-swept heating surfaces. 2,924,435, 2-9-60, Cl. 257-1.
- Curtis, Robert W., to The Babcock & Wilcox Co. Apparatus for conveying particle-form material. 2,933,349, 4-19-60, Cl. 302-64.
- Curtis, Russell H., to Hawley Products Co. Apparatus and method for making fibrous tubular bodies. 2,932,604, 4-12-60, Cl. 162-228.
- Curtis, Thomas E.: *See*—  
 Bower, John L., and Curtis. 2,946,646.
- Curtis, Thomas E., to North American Aviation, Inc. Frequency regulating system. 2,920,263, 1-5-60, Cl. 322-32.
- Curtis, Wilfred A. Vise means. 2,958,252, 11-1-60, Cl. 87-33.
- Curtiss, Raymond H., and M. J. Ford, to Raybestos-Manhattan, Inc. Brake lining. 2,943,712, 7-5-60, Cl. 188-234.
- Curtiss-Wright Corp.: *See*—  
 Alsworth, Charles C., and Martin. 2,956,585.  
 Auerbach, Albert A., and Shaw. 2,944,248.  
 Bailey, Frank W. 2,920,445.  
 Bailey, Frank W. 2,941,362.  
 Berezin, Evelyn, and Hersh. 2,943,790.  
 Beveridge, Harold N. 2,955,778.  
 Bevis, George E., and Hungerford. 2,927,551.  
 Biehl, Richard E., and Gallo. 2,923,127.  
 Bilenker, Eugene N. 2,949,364.  
 Bollay, William. 2,936,710.  
 Bollay, William. 2,942,412.  
 Burns, William E. 2,939,345.  
 Burns, William E. 2,944,444.  
 Casnar, John, and Hoffman. 2,959,000.  
 Chillson, Charles W. 2,928,287.  
 Chillson, Charles W., and Hine. 2,957,687.  
 Clark, William H., Jr. 2,939,289.  
 Cook, Edward G. 2,921,465.  
 Cook, Howard L., Canada, and Smith. 2,920,581.  
 Corsini, Neo. 2,964,861.  
 D'Amico, Carmine J. 2,933,828.  
 Dawson, William H., Jr. 2,947,089.  
 Dickey, John W. 2,946,374.  
 Dickey, John W. 2,957,793.  
 Doerries, George H. 2,939,329.  
 Eberhardt, Herman W. 2,944,447.  
 Ederer, Norbert. 2,948,850.  
 Eisenstark, Milton. 2,948,580.  
 Fangman, Donald J. 2,956,691.  
 Ferri, Antonio. 2,920,843.  
 Ferri, Antonio. 2,956,400.  
 Fuller, John L., and Dangler. 2,935,051.  
 Gallo, Joseph E. 2,932,094.  
 Gams, Theodore C., and Klefer. 2,941,124.  
 Glaser, Jerry, Kumm, Roschak, and Stoner. 2,956,502.



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- Goodwin, Roscoe H. 2,951,298.  
 Graefe, Albert D., Hoffman, and Schaffer. 2,934,898.  
 Gregory, Russell W., and Hartill. 2,934,895.  
 Gregory, Russell W., and Kahil. 2,959,007.  
 Hall, John L., and Elliott. 2,960,826.  
 Hall, John L., Mergen, and Elliott. 2,944,387.  
 Heller, Robert B. 2,949,769.  
 Heller, Robert B. 2,966,056.  
 Heller, Robert B. 2,966,057.  
 Hine, Edward K. 2,920,505.  
 Holben, Martin M., Komorowski, and Ruby. 2,938,260.  
 Howald, Werner E. 2,951,340.  
 Howald, Werner E. 2,951,677.  
 Howald, Werner E., and Sohn. 2,958,933.  
 Huggins, William H. 2,942,248.  
 Hungerford, Philip C., Jr. 2,946,417.  
 Hungerford, Philip C., Jr., and Neff. 2,951,568.  
 Hungerford, Philip C., Jr., and Sacchini. 2,961,267.  
 Hurley, Roy T. 2,919,936.  
 Knapp, George F., Robbins, Meyer, and Zwack. 2,957,655.  
 Koch, Walter L. 2,955,782.  
 Kramer, Paul. 2,943,202.  
 Lahde, Reinhard N. 2,951,376.  
 Lahde, Reinhard N. 2,951,377.  
 Leese, Albert H. 2,954,016.  
 Lem, Robert F. A. 2,940,181.  
 Leonard, Eugene. 2,955,821.  
 Leuthold, Edgar J. 2,937,458.  
 Lubkin, Samuel. 2,928,907.  
 Lubkin, Samuel. 2,929,049.  
 Lubkin, Samuel. 2,934,262.  
 Lubkin, Samuel. 2,937,371.  
 Lubkin, Samuel. 2,941,718.  
 Lubkin, Samuel. 2,945,213.  
 Lubkin, Samuel. 2,949,226.  
 Magill, John J., and Hungerford. 2,947,278.  
 Marone, Joseph N. 2,943,840.  
 Mergen, Joseph M., and Tiedeman. 2,924,281.  
 Merz, Francesco. 2,925,845.  
 Meyer, Marvin. 2,944,488.  
 Moore, Vincent. 2,938,705.  
 Moulton, Lloyd J., and Dangler. 2,935,050.  
 Moulton, Lloyd J., Dangler, and Eichler. 2,935,045.  
 Muhlfelder, Ludwig. 2,956,398.  
 Perryman, John S. 2,924,282.  
 Sacchini, Columbus R. 2,922,274.  
 Sacchini, Columbus R. 2,961,217.  
 Sherman, Albert J. 2,926,431.  
 Speer, Cleaver C., and Frank. 2,944,327.  
 Stern, Robert G., and Sherman. 2,924,027.  
 Stern, Robert G., and Theobald. 2,926,430.  
 Theobald, Charles E., Jr. 2,955,362.  
 Tomko, Donald R. 2,927,466.  
 Turck, Joseph A. V., Jr. 2,953,195.  
 Vogt, Richard. 2,936,966.  
 Vogt, Richard. 2,954,614.  
 West, Charles P., and Feller. 2,941,918.  
 Williams, Harry A., and Alan. 2,940,305.  
 Wisner, Kenneth R. 2,943,384.  
 Witucki, Robert M., and Curtis. 2,966,537.  
 Witucki, Robert M., and Lewis. 2,936,505.  
 Woolf, Don R. 2,960,760.  
 Zahner, Charles F. 2,953,642.  
 Zahner, Charles F., and Samson. 2,947,088.
- Curtiss-Wright Corp., Margette Metal Products Division: See—  
 Sacchini, Columbus R. 2,922,220.  
 Curzon, Thomas, to C.A.V. Ltd. Liquid fuel torches. 2,965,164, 12-20-60, Cl. 158-28.  
 Cusano, Dominic A., to General Electric Co. Projection color television with photoelectro-luminescent screen. 2,957,940, 10-25-60, Cl. 178-54.  
 Cusano, Dominic A., and F. J. Studer, to General Electric Co. Production of colored images. 2,958,002, 10-25-60, Cl. 315-21.  
 Cusoleca, Otwin, N. Sjogren, and W. Pichler. Method of operating a furnace in which the material treated is reduced. 2,952,533, 9-13-60, Cl. 75-41.  
 Cushenberry, Edward B., to Thomas Associates. Cushioned conduit clamp. 2,936,982, 5-17-60, Cl. 248-74.  
 Cushman, Arthur G., 1/2 to J. F. Cushman. Rock crusher. 2,938,675, 5-31-60, Cl. 241-147.  
 Cushman, Clifford E.: See—  
 Wrighton, Robert J., and Cushman. 2,921,480.  
 Cushman, Clifford E., to Pacific Scientific Co. Quick release buckle. 2,921,353, 1-19-60, Cl. 24-205.17.  
 Cushman, Everett H.: See—  
 Lesnewich, Alexander, and Cushman. 2,932,722.  
 Cushman, John F.: See—  
 Cushman, Arthur G. 2,938,675.  
 Cushman, Lester A. Lightning arrester. 2,922,913, 1-26-60, Cl. 313-225.  
 Cushman, Norton, to Sprague Electric Co. Tape wound magnetic cores. 2,921,281, 1-12-60, Cl. 336-213.  
 Cushman, Robert W., to The Foxboro Co. Measuring and control apparatus. 2,956,167, 10-11-60, Cl. 250-83.6.  
 Cushman, Walton W. Drum handling attachment for fork type lift trucks. 2,928,563, 3-15-60, Cl. 214-620.  
 Cushman, Walton W. Drum handling attachment for fork lift trucks. 2,929,523, 3-22-60, Cl. 214-651.  
 Cushman, Walton W. Cable snubbing device. 2,952,336, 9-13-60, Cl. 188-65.1.  
 Cushman, Walton W. Pneumatic decelerator for in-flight aircraft unloading. 2,954,966, 10-4-60, Cl. 258-1.2.  
 Cushman, Walton W. Hammocks. 2,960,700, 11-22-60, Cl. 5-129.  
 Cusi, Dante S. Vibratory mechanism. 2,936,895, 5-17-60, Cl. 210-412.  
 Cusic, John W., and H. W. Sause, to G. D. Searle & Co. N-(chlorophenothiazinealkyl)-3 and 4-(hydroxy alkyl) piperidines. 2,926,164, 2-23-60, Cl. 260-243.  
 Cusic, John W., and H. W. Sause, to G. D. Searle & Co. Phenothiazinealkylpiperidinecarboxamides. 2,957,870, 10-25-60, Cl. 260-243.  
 Custer, Harry W. Paint applicator and guide. 2,936,474, 5-17-60, Cl. 15-230.  
 Custers, Jan F. H., H. B. Dyer, and P. T. Wedepohl, to De Beers Consolidated Mines Ltd. Polishing hard crystalline carbon. 2,931,351, 4-5-60, Cl. 125-30.  
 Custin, Thomas G., to General Electric Co. Wave transmission filter. 2,950,451, 8-23-60, Cl. 333-73.  
 Custin, Thomas G., and J. Smith, to General Electric Co. Automatic frequency control circuit. 2,949,584, 8-16-60, Cl. 332-19.  
 Custom Engineering and Development Co.: See—  
 Burlis, Norbert W., and Reinert. 2,943,207.  
 Cusumano, Giochino, to Swingline Industrial Corp. Corrugated fastener strip. 2,942,267, 6-28-60, Cl. 1-56.  
 Cutcrete Mfg. Corp.: See—  
 Lewis, William H. 2,934,327.  
 Cuthbertson, William F. J., and G. A. Childs, to Glaxo Laboratories Ltd. Human dietary preparations. 2,961,320, 11-22-60, Cl. 99-56.  
 Cutler, Albert E., to Communications Patents Ltd. Flight training apparatus. 2,924,893, 2-16-60, Cl. 35-12.  
 Cutler, Albert E., to Communications Patents Ltd. Radar simulation or the like. 2,934,835, 5-3-60, Cl. 35-10.4.  
 Cutler, Albert E., to Communications Patents Ltd. Radar simulation. 2,955,360, 10-11-60, Cl. 35-10.4.  
 Cutler, Burton, to Gilfillan Bros. Inc. Apparatus for drift compensation in aircraft guidance systems. 2,924,819, 2-9-60, Cl. 343-11.  
 Cutler, Burton, and G. B. Crane, to Gilfillan Bros. Inc. High accuracy expanded sector display and means and techniques for producing same. 2,941,199, 6-14-60, Cl. 343-11.  
 Cutler, Cassius C., to Bell Telephone Laboratories, Inc. High speed counting and switching tubes. 2,922,069, 1-19-60, Cl. 315-8.5.  
 Cutler, Cassius C., to Bell Telephone Laboratories, Inc. Traveling wave tube. 2,925,519, 2-16-60, Cl. 315-3.6.  
 Cutler, Cassius C., to Bell Telephone Laboratories, Inc. Non-linear transmission circuits. 2,925,529, 2-16-60, Cl. 315-39.3.  
 Cutler, Cassius C., to Bell Telephone Laboratories, Inc. Electron discharge device for signal translation. 2,927,243, 3-1-60, Cl. 315-30.  
 Cutler, Cassius C., to Bell Telephone Laboratories, Inc. Transmission systems employing quantization. 2,927,962, 3-8-60, Cl. 178-43.5.  
 Cutler, Cassius C., to Bell Telephone Laboratories, Inc. Magnetic structures for traveling wave tubes. 2,942,141, 6-21-60, Cl. 315-3.5.  
 Cutler, Cassius C., to Bell Telephone Laboratories, Inc. Heterodyne systems employing trains of pulses. 2,956,128, 10-11-60, Cl. 179-15.  
 Cutler, Cassius C., to Bell Telephone Laboratories, Inc. Electron discharge device. 2,959,706, 11-8-60, Cl. 315-3.  
 Cutler, Cassius C., and J. T. Mendel, to Bell Telephone Laboratories, Inc. Traveling wave tube. 2,925,520, 2-16-60, Cl. 215-3.6.  
 Cutler, Frank A., Jr., and J. F. Fisher, to Merck & Co., Inc. 1-substituted propyl piperidines and processes of preparing same. 2,962,501, 11-29-60, Cl. 260-294.3.  
 Cutler-Hammer, Inc.: See—  
 Bigelow, James H. 2,930,457.  
 Brown, Harry W. 2,927,983.  
 Cox, Irvin W. 2,925,540.  
 Cox, Irvin W. 2,961,827.  
 Cranmore, Robert. 2,928,921.  
 Davies, James E., and Otto. 2,951,133.  
 Dennison, William G. 2,928,027.  
 Dennison, William G., and Perk. 2,932,704.  
 Dries, Jerome F. 2,922,088.  
 Elliot, William H. 2,941,127.  
 Elliot, William H. 2,947,881.  
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 Fath, Douglas W. 2,943,161.  
 Fath, Douglas W. 2,943,250.  
 Fath, Douglas W., and Smith. 2,932,414.  
 Fath, Douglas W., and Smith. 2,936,911.  
 Fath, Douglas W., and Smith. 2,962,172.  
 Fath, Douglas W., and Smith. 2,962,173.  
 Fath, Douglas W., and Smith. 2,962,175.  
 Feldhausen, Cyril P. 2,947,930.  
 Feldhausen, Cyril P. 2,951,192.  
 Finnegan, William B., Huff, and Wilson. 2,949,676.  
 Fischer, Paul M. 2,925,545.  
 Fischer, Paul M. 2,929,979.  
 Fischer, Paul M. 2,958,816.  
 Fischer, Paul M., and Flattum. 2,925,493.



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- Fubini, Eugene G. 2,921,276.  
 Hansen, Kenneth H., Howdle, and Jochem. 2,939,578.  
 Hodgson, Howard E. 2,925,153.  
 Hyink, Roy. 2,952,801.  
 Larkin, Robert E. 2,936,347.  
 Meuer, George J. 2,942,087.  
 Miles, Raymond C., and Rubenson. 2,962,166.  
 Nolden, William F., and Robbins. 2,930,859.  
 Ohringer, Philip. 2,963,832.  
 Packard, Karl S. 2,964,718.  
 Park, Rodney F., and Thomas. 2,947,840.  
 Pell, Eric. 2,941,132.  
 Pell, Eric. 2,962,646.  
 Ranson, Richard R. 2,932,171.  
 Rasmusen, Reidar P. C. 2,925,538.  
 Rhine, William C. 2,943,254.  
 Richter, Walther. 2,935,700.  
 Robbins, Clyde F. 2,953,731.  
 Siebers, Robert W. 2,946,872.  
 Simon, Verne H. 2,959,263.  
 Torn, Lawrence J., and Philbin. 2,932,134.  
 Weichardt, Heinz H. 2,935,584.  
 White, Warren D. 2,948,892.  
 White, Warren D. 2,954,465.
- Cutler, Leonard S., and R. J. Rorden, to Gertsch Products, Inc. Precision selective-ratio transformer. Re. 24,896, 11-22-60, Cl. 323-47.  
 Cutler, Myron A., and C. B. Turton, to General Electric Co. Enclosures with externally controlled operating means for electric switches. 2,938,096, 5-24-60, Cl. 200-168.  
 Cutler, Raymond P., Jr.: *See*—  
   Lazott, Wesley E., and Cutler. 2,937,482.  
 Cutler, Stanley, and B. R. Hunt, to Pacific Mercury Television Mfg. Corp. Chord organ. 2,962,922, 12-6-60, Cl. 84-101.  
 Cutler, Stanley, and W. E. Sanders, to Pacific Mercury Television Mfg. Corp. Keyboard switch. 2,963,564, 12-6-60, Cl. 200-153.  
 Cutler, William R., to Bristol Aero-Engines, Ltd. Aerofoil-section bladed structures. 2,924,425, 2-9-60, Cl. 253-78.  
 Cutlip, Claude R., and R. D. Scheer, to E. I. du Pont de Nemours and Co. Antifreeze composition. 2,937,145, 5-17-60, Cl. 252-75.  
 Cutlip, Claude R., and R. D. Scheer, to E. I. du Pont de Nemours and Co. Antifreeze composition. 2,937,146, 5-17-60, Cl. 252-75.  
 Cutter Laboratories: *See*—  
   Beacham, Robert C., and Butler. 2,922,613.  
   Hink, John H., Jr. 2,955,074.  
   Hink, John H., Jr. 2,958,628.  
   McQuarrie, Ernest B., and Andersen. 2,931,818.  
 Cuttings, Albert J. Golf grip guide. 2,928,678, 3-15-60, Cl. 273-165.  
 Cutting Room Appliances Corp.: *See*—  
   Deichmann, Walter. 2,924,450.  
   Deichmann, Walter. 2,966,353.  
   Deichmann, Walter, and Becker. 2,921,786.  
 Cuttino, William H., to Westinghouse Electric Corp. Shunt capacitor bank. 2,933,652, 4-19-60, Cl. 317-12.  
 Cuttler, Leonard R. Garment belt foundation kit and belts made therefrom. 2,939,151, 6-7-60, Cl. 2-322.  
 Cutts, Richard M. Gas porting device for a shotgun. 2,963,943, 12-13-60, Cl. 89-14.  
 Cuykendall, Marie: *See*—  
   Hamlin, Jerry F., and Newman. 2,930,503.  
 Cuykendall, Ralph M.: *See*—  
   Hamlin, Jerry F., and Newman. 2,930,503.  
 Cuyahoga Spring Co., The: *See*—  
   Kraich, Anthony E. 2,958,914.  
 Cvikl, Ernst,  $\frac{1}{2}$  to M. Germani. Welded lattice girders. 2,936,862, 5-17-60, Cl. 189-37.  
 Cyba, Henryk A., to Universal Oil Products Co. Stabilization of organic substances. 2,926,093, 2-23-60, Cl. 99-163.  
 Cyba, Henryk A., to Universal Oil Products Co. Stabilizing mixture of 4,4'-diaminodiphenyl ether and 2,4'-diaminodiphenyl ether. 2,964,479, 12-13-60, Cl. 252-403.  
 Cyber Societe Anonyme: *See*—  
   Janoska, Georges. 2,956,445.  
 Cybriwsky, Alexander: *See*—  
   Mostovych, Nicholas, and Cybriwsky. 2,951,025.  
 Cycle Crutch Co.: *See*—  
   Vander Molen, Herman. Re. 24,874.  
 Cycle Equipment Co.: *See*—  
   Allen, Philip H. 2,952,419.  
 Cykler, John F., and R. T. Tribble, to Pineapple Research Institute of Hawaii. Stone harvester. 2,924,284, 2-9-60, Cl. 171-63.  
 Cyklus Ltd.: *See*—  
   Mohler, Hermann, and Menzi. 2,953,456.  
 Cymmer, Thomas. Device for making a record and displaying it. 2,937,912, 5-24-60, Cl. 346-8.  
 Cypher, George A., and M. Cohen, to General Electric Co. Unsaturated polyester-diallyl isophthalate compositions. 2,959,564, 11-8-60, Cl. 260-45.4.  
 Cypress Gardens Skis Inc.: *See*—  
   Bridges, Joseph P. 2,924,193.  
 Cypser, Gustav J.: *See*—  
   Dayton, Edward R., Cypser, and Mayer. 2,934,743.  
 Cyr, Howard M., and B. C. Hafford, to The New Jersey Zinc Co. Treatment of zinc oxide. 2,941,862, 6-21-60, Cl. 23-148.  
 Cyrus, Donal L. Toy oil well. 2,960,792, 11-22-60, Cl. 46-39.  
 Czacherski, Bruno T.: *See*—  
   Schirner, John E., Masters, and Czacherski. 2,948,633.  
 Czaika, Hugo J. Drum type washing machine. 2,937,516, 5-24-60, Cl. 68-58.  
 Czajkowski, Mathew. Sun visor for automobiles having wrap around windshields. 2,922,676, 1-26-60, Cl. 296-97.  
 Czajkowski, Norman, and O. Thalmann, to United States of America, Navy. Programming device for a projectile. 2,958,282, 11-1-60, Cl. 102-50.  
 Czapar, Frank. Cleaning device. 2,940,103, 6-14-60, Cl. 15-129.  
 Czaplinski, Frank H., and E. T. Field, to Standard Gage Co., Inc. Adjustable setting master for dial bore gages. 2,933,815, 4-26-60, Cl. 33-143.  
 Czarnecki, Eli D.,  $\frac{1}{2}$  to T. Czarnecki. Reed organ. 2,932,233, 4-12-60, Cl. 84-351.  
 Czarnecki, Theresa: *See*—  
   Czarnecki, Eli D. 2,932,233.  
 Czech, Clifford F., to McGraw-Edison Co. Laundry dryers. 2,940,179, 6-14-60, Cl. 34-77.  
 Czeukusch, Edward L., and L. V. Wilson, Jr., to Phillips Petroleum Co. Recovery of polymer. 2,954,368, 9-27-60, Cl. 260-93.7.  
 Czerenda, Michael J. Expandible collet arbor. 2,929,635, 3-22-60, Cl. 279-2.  
 Czerlinsky, Ernest B., and R. A. MacMillan, to United States of America, Air Force. Automatic hysteresis loop recorder. 2,922,949, 1-26-60, Cl. 324-40.  
 Czerniewicz, John. Mortising attachment for portable drill. 2,920,662, 1-12-60, Cl. 144-70.  
 Czerwinski, Wacław, to Avro Aircraft Ltd. Aircraft control surface actuating mechanism. 2,927,469, 3-8-60, Cl. 74-105.  
 Czina, Richard H., R. J. Keogh, and D. Richman, to Hazeltine Research, Inc. Phase detector. 2,943,263, 6-28-60, Cl. 328-134.  
 Czipott, Akos Z., to Dresser Industries, Inc. Ohm's law computer unit. 2,965,301, 12-20-60, Cl. 235-195.  
 Czuba, Walter T.: *See*—  
   Tyce, Roland, and Czuba. 2,960,356.  
 Czudak, Frank Jr. Spectacle hinge and pivot stud therefor. 2,947,024, 8-2-60, Cl. 16-163.  
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   Thayer, Louis C., and Czuba. 2,943,028.  
   Thayer, Louis C., Czuba, and Greene. 2,950,176.  
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   Reynolds, Donald C., and Czyzak. 2,947,613.  
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   Davies, Clarence J. 2,919,446.  
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   Brant, Victor L. 2,965,558.  
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   Klaassen, Hendrik, and Daane. 2,946,317.  
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   Kay, John G., and Dabich. 2,948,386.  
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   Holdeman, John W., and Dabich. 2,926,543.  
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   Bischoff, Waldemar O., and Daborowski. 2,949,904.  
 Dacam Corp.: *See*—  
   Potts, William M., Hartis, and Darholt. 2,946,164.  
   Potts, William M., Price, Darholt, and Dans. 2,941,340.  
 Dach, Bernhard, to Farbenfabriken Bayer Aktiengesellschaft. Mordant dyeing process. 2,956,853, 10-18-60, Cl. 8-29.  
 Dachs, Karl, R. Schubert, and H. Wilhelm, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process of finishing leather. 2,957,783, 10-25-60, Cl. 117-73.  
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   Bieger, Jacob J., and Hill. 2,950,635.  
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   Hromas, Miroslav, and Dadák. 2,922,401.  
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   Bergmann, Paul F., Sr., and Dadd. 2,942,595.  
 Dadd, Morris V., to General Motors Corp. Self-contained type hydraulic valve lifter. 2,925,074, 2-16-60, Cl. 123-90.  
 Dadd, Morris V., to Johnson Products Inc. Hydraulic tappets. 2,943,611, 7-5-60, Cl. 123-90.  
 Dadd, Morris V. Hydraulic tappets. 2,956,557, 10-18-60, Cl. 123-90.  
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 D'Addieco, Alfred A., and S. E. Stephanou, to E. I. du Pont de Nemours and Co. Production of monopersulfuric acid. 2,926,998, 3-1-60, Cl. 23-166.  
 Dadson, Lawrence M., to Imperial Chemical Industries Ltd. Surface treated rubber articles. 2,930,715, 3-29-60, Cl. 117-139.  
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   Druey, Jean, and Daeniker. 2,945,037.  
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   Maex, Nikolaus, and Daffern. 2,953,788.



- Daffin, Douglas E.: *See*—  
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- Daffin, Douglas E., to Camco, Inc. Dual completion well installation. 2,923,357, 2-2-60, Cl. 166—102.
- Daffin, Douglas E., to Camco, Inc. Collar stop for well tools. 2,941,599, 6-21-60, Cl. 166—219.
- Dagenais, Joseph E. Press for shock absorbing spring assemblies of crawler tractors. 2,948,057, 8-9-60, Cl. 29—227.
- Dager, Albert. Viscosimeter. 2,961,870, 11-29-60, Cl. 73—54.
- Daggett, Albert K., to Brunswick Automatic Pinsetter Corp. Automatic pinsetter trip device. 2,941,803, 6-21-60, Cl. 273—43.
- Daggett, Billy E., 50% to D. C. Weaver. Flexible connector for aeriols or the like. 2,945,084, 7-12-60, Cl. 174—86.
- Daggett, Donald L., to Letterhead and Check Corp. of America. Movable-type line stop clinching tool. 2,934,983, 5-3-60, Cl. 81—15.
- D'Agostino, Gabriel D.: *See*—  
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- Dahl, Einar S., and W. Newton, to Borg-Warner Corp. Fuel injection pump. 2,930,320, 3-29-60, Cl. 103—2.
- Dahl, Einar S., and R. M. McCreary, to Borg-Warner Corp. Fuel injection mechanism. 2,955,583, 10-11-60, Cl. 123—119.
- Dahl, Ernest A., Sr. Card file tray. 2,954,032, 9-27-60, Cl. 129—16.
- Dahl, George H. M. Adjustable trolling gear. 2,923,085, 2-2-60, Cl. 43—43.13.
- Dahl, Gilbert: *See*—  
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- Dahl, Norman C.: *See*—  
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- Dahl, Robert R., to The Dole Valve Co. Actuator valve. 2,944,565, 7-12-60, Cl. 137—620.
- Dahl, Robert R., and H. L. Erickson, to The Dole Valve Co. Flow control system. 2,936,788, 5-17-60, Cl. 138—45.
- Dahl, Robert R., and H. L. Erickson, to The Dole Valve Co. Noise reducing flow control device. 2,936,790, 5-17-60, Cl. 138—46.
- Dahlbeck, Sven W.: *See*—  
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- Dahlberg, Donald E.: *See*—  
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- Dahlbom, Carl A., and A. Weaver, to Bell Telephone Laboratories, Inc. Signaling system. 2,966,659, 12-27-60, Cl. 340—171.
- Dahlen, Paul A., to The Stevens Mfg. Co., Inc. Fuse. 2,921,167, 1-12-60, Cl. 200—117.
- Dahlgren, John A., and G. W. Andriot, to General Electric Co. Freezing tray and ice storage container arrangement for refrigerators. 2,955,441, 10-11-60, Cl. 62—344.
- Dahlgren, Leigh. Ice fishing device. 2,924,038, 2-9-60, Cl. 43—16.
- Dahlgren, Victor F., to Sanders Associates, Inc. Method of preparation of thermoplastic resin coated printed circuit. 2,932,599, 4-12-60, Cl. 154—129.
- Dahlgren, Victor F., to Sanders Associates, Inc. Printed circuit component. 2,951,112, 8-30-60, Cl. 174—135.
- Dahlgren, Victor F., to Sanders Associates, Inc. Method of splicing printed circuits. 2,963,392, 12-6-60, Cl. 154—22.
- Dahlgren, Victor F., to Sanders Associates, Inc. Flat cables. 2,963,538, 12-6-60, Cl. 174—117.
- Dahlhauser, Anthony H., and A. H. Yaeger, to Keystone Steel & Wire Co. Lathing construction. 2,929,239, 3-22-60, Cl. 72—119.
- Dahlhauser, Anthony H., and A. H. Yaeger, to Keystone Steel & Wire Co. Crate stacker. 2,944,722, 7-12-60, Cl. 229—34.
- Dahlin, Clarence W. Processing of dicalcium phosphate and composition thereof. 2,943,982, 7-5-60, Cl. 167—93.
- Dahlin, John G. Prepared spawning ground. 2,955,569, 10-11-60, Cl. 119—3.
- Dahlman, Erik G., to Broby Mek. Verkstads Aktiebolag. Building structures. 2,936,083, 5-10-60, Cl. 214—16.1.
- Dahlman, Per O.: *See*—  
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- Dahlquist, Carl A. Covered tape dispenser. 2,924,365, 2-9-60, Cl. 225—47.
- Dahlqvist, Georg A., and E. A. Karlsson. Needle actuating mechanism for knitting machines. 2,956,424, 10-18-60, Cl. 66—75.
- Dahlqvist, Nils A. V.: *See*—  
Broden, John G. M., and Dahlqvist. 2,959,010.
- Dahlstrom, Donald A., and R. C. Emmett, to The Einco Corp. Method of dewatering foundry sand slimes. 2,941,942, 6-21-60, Cl. 210—53.
- Dahlstrom, Robert K., and D. W. Ross, to United States of America, Navy. Photoelectric cell mounting. 2,931,847, 4-5-60, Cl. 136—89.
- Dahly, Harold W. Cigarette holder and ash receptacle with swivel joint. 2,921,588, 1-19-60, Cl. 131—175.
- Dahly, Harold W. Cigarette holder with ejector. 2,953,136, 9-20-60, Cl. 131—182.
- Dahmlos, Johannes, to WASAG-Chemie Aktiengesellschaft. Process for making fluorinated organic compounds. 2,935,531, 5-3-60, Cl. 260—544.
- Dahms, Francis A., to Embart Mfg. Co. Automatic weighing machine. 2,938,626, 5-31-60, Cl. 209—121.
- Daigle, George H., to Missile Valve Corp., Inc. Butterfly valve. 2,919,885, 1-5-60, Cl. 251—161.
- Daigle, Leo T., to Dearborn Fabricating & Engineering Co. Adjustable dip conveyor system. 2,931,315, 4-5-60, Cl. 104—111.
- Daignas, Pierre M. J. M. R. Portable power-driven coating machine. 2,965,306, 12-20-60, Cl. 239—215.
- Dailey Oil Tools, Inc.: *See*—  
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- Dailey, Vacell D., to Baldwin Rubber Co. Mold handling mechanism. 2,954,882, 10-4-60, Cl. 214—16.4.
- Dailey, William H., Jr.: *See*—  
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- Dailey, William H., Jr., to Midland-Ross Corp. Flue gas distribution in heating furnaces. 2,929,615, 3-22-60, Cl. 263—40.
- Dailey, William H., Jr., W. A. Phillips, and J. W. Carter, to Midland-Ross Corp. Furnace roller. 2,932,497, 4-12-60, Cl. 263—6.
- Daily, Amuel H. Folding raft or float. 2,929,080, 3-22-60, Cl. 9—2.
- Daily, Arthur M.: *See*—  
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- Daily, Arthur M., to C T S Corp. Variable resistor. 2,946,032, 7-19-60, Cl. 338—174.
- Daily Mirror Newspapers Ltd., The: *See*—  
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- Altmann, Werner E. 2,947,396.
- Bader, Wilhelm K. 2,936,201.
- Barenyi, Bela. 2,921,812.
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- Barényi, Béla, and Wilfert. 2,929,639.
- Barényi, Béla, and Wilfert. 2,965,403.
- Bartholomäus, Werner J. 2,941,853.
- Bartholomäus, Werner J. 2,956,647.
- Bartholomäus, Werner J., Wirsching, and Scheying. 2,953,992.
- Bensinger, Wolf-Dieter, and Kurz. 2,956,444.
- Burckhardt, Manfred H. 2,927,475.
- Burckhardt, Manfred H. 2,949,047.
- Eckert, Bruno, and Köhl. 2,938,662.
- Eckert, Bruno, and Köhl. 2,940,257.
- Eckert, Bruno J., and Köhl. 2,932,156.
- Eisenbeiser, Erich K. 2,922,182.
- Foerster, Hans-Joachim M. 2,956,449.
- Förster, Hans J. M. 2,935,951.
- Förster, Hans-Joachim M. 2,920,496.
- Förster, Hans-Joachim M. 2,920,728.
- Forster, Hans-Joachim M. 2,921,658.
- Förster, Hans-Joachim M. 2,937,543.
- Förster, Hans-Joachim M. 2,943,503.
- Förster, Hans-Joachim M. 2,961,886.
- Gassmann, Johannes, and Witt. 2,963,278.
- Gengenbach, Otto, and Schene. 2,930,300.
- Gengenbach, Otto, and Schene. 2,945,472.
- Grabow, Fritz G. 2,956,407.
- Groezinger, Hans R. 2,940,437.
- Groezinger, Hans R., and Gauss. 2,924,208.
- Hitzelberger, Erwin. 2,922,297.
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- Kraus, Ludwig. 2,942,871.
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- Mahler, Arthur. 2,932,356.
- Meyer, Hans. 2,953,930.
- Müller, Josef. 2,933,341.
- Müller, Josef. 2,941,815.
- Müller, Josef. 2,961,254.
- Müller, Josef, and Van Winsen. 2,952,454.
- Nallinger, Friedrich K. H. 2,928,499.
- Nallinger, Friedrich K. H. 2,933,072.
- Nallinger, Friedrich K. H. 2,935,149.
- Nallinger, Friedrich K. H. 2,935,899.
- Nallinger, Friedrich K. H. 2,942,893.
- Nallinger, Friedrich K. H. 2,948,547.
- Nallinger, Friedrich K. H., and Altmann. 2,938,407.
- Rothweiler, Alfred F., and Mischke. 2,929,461.
- Scherenberg, Hans O. 2,963,329.
- Scherenberg, Hans O., and Goeschel. 2,945,484.
- Schilling, Otto, and Rank. 2,939,753.
- Stump, Eugen. 2,941,641.
- Stump, Eugen. 2,947,200.
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- Stump, Eugen, and Striffler. 2,929,214.
- Uhlenhaut, Rudolf E., Müller, and Scherenberg. 2,942,678.
- Wilfert, Karl. 2,940,064.
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- Wirsching, Robert J. 2,935,878.
- Wirsching, Robert J. 2,948,159.
- Dain, John, and P. C. Ruggles, to English Electric Valve Co. Ltd. Microwave amplifiers. 2,960,658, 11-15-60, Cl. 330—44.



- Dain, John E., and R. W. Phelps, to The Black-Clawson Co. Paper machinery. 2,950,875, 8-30-60, Cl. 242-66.
- Dainippon Pharmaceutical Co., Ltd.: See—
- Ueda, Takeo, Kato, Toyoshima, and Wachi. 2,949,479.
- Dairy Foods Inc.: See—
- Sharp, Paul F., and Kempf. 2,921,857.
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- Leber, Henry, and Perini. 2,962,379.
- Dakesian, Sahag R.: See—
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- Dal-Biano, Bruno: See—
- Scata, Mario, and Dal-Biano. 2,921,161.
- Dale, Brian, to The General Electric Co. Ltd. Heat treatment of silicon. 2,953,438, 9-20-60, Cl. 23-223.5.
- Dale, Glenn H., to Phillips Petroleum Co. Polymer recovery process. 2,964,513, 12-13-60, Cl. 260-94.9.
- Dale, John R., to United States of America, Navy. Hot wire auditory device. 2,936,343, 5-10-60, Cl. 179-113.
- Dale, Kenneth H., to Olin Mathieson Chemical Corp. Preparation of zirconium for cold working. 2,938,841, 5-31-60, Cl. 204-32.
- Dale, Paul A., and O. F. Larsen, to The National Cash Register Co. Repeat mechanism for calculating machines. 2,924,171, 2-9-60, Cl. 101-90.
- Dale Products Inc.: See—
- Field, Thomas O. 2,958,805.
- Watley, Orlin D. 2,962,682.
- D'Alenio, Gaetano F., to W. R. Grace & Co. Polyethylene process. 2,928,820, 3-15-60, Cl. 260-94.9.
- D'Alenio, Gaetano F., to W. R. Grace & Co. Polyethylene process. 2,933,485, 4-19-60, Cl. 260-94.9.
- D'Alenio, Gaetano F., to W. R. Grace & Co. Polyethylene process. 2,938,890, 5-31-60, Cl. 260-94.9.
- D'Alenio, Gaetano F., to W. R. Grace & Co. Polyethylene process. 2,945,017, 7-12-60, Cl. 260-94.9.
- D'Alenio, Gaetano F., to Bardal Inc. Irradiated polymers. 2,951,024, 8-30-60, Cl. 204-158.
- D'Alenio, Gaetano F., to W. R. Grace & Co. Ethylene polymerization. 2,965,630, 12-20-60, Cl. 260-94.9.
- D'Alenio, Gaetano F., and M. Silberberg, to Foster Grant Co., Inc. Suspension polymerization in the presence of tricalcium phosphate and sodium betanaphthalene sulfonate. 2,948,710, 8-9-60, Cl. 260-85.5.
- Daley, Bernard J. Surface drainage receivers. 2,938,437, 5-31-60, Cl. 94-31.1.
- Daley, Earl W. Variable pitch propeller. 2,955,659, 10-11-60, Cl. 170-135.75.
- Dalglish, Herbert F. Test circuit cables. 2,924,974, 2-16-60, Cl. 73-341.
- Dalglish, James J., R. L. Holm, E. W. Lager, and W. A. Beer,  $\frac{1}{2}$  to said Dalglish, and  $\frac{1}{2}$  to said Holm. Link multiple hinged connector bars. 2,924,405, 2-9-60, Cl. 244-122.
- Dalin, Robert W., G. J. Floberg, and W. J. Reid, to Kaiser Aluminum and Chemical Corp. Contact stud inserting apparatus. 2,926,352, 3-1-60, Cl. 1-1.
- Dalline, Gordon. Perforated display panel with magnetic attachment means. 2,965,235, 12-20-60, Cl. 211-1.
- Dalix, Paul, to Chimiotex Societe Anonyme. Device for lubricating spindles in twisting frames. 2,953,895, 9-27-60, Cl. 57-133.
- Dall, Albert H.: See—
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- Dall, Gerald J. Spark plug. 2,934,668, 4-26-60, Cl. 313-135.
- Dallas, Wilbur G., and F. H. Weihs, to General Motors Corp. Vehicle roll control device with steering responsive override. 2,939,722, 6-7-60, Cl. 280-112.
- Dallemagne, Robert, to Lignes Telegraphiques & Telephoniques. Signalling device for double sideband carrier current telephone systems. 2,923,778, 2-2-60, Cl. 179-84.
- Dalle Mura, Pio H.: See—
- Hood, Ian A., and Dalle Mura. 2,922,117.
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- Buehler, William J., and Dalrymple. 2,960,401.
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- Dalrymple, William P., to American Brake Shoe Co. Internal combustion engine having crankshaft driven rotary means for removing entrained liquid from fluid supplied to the firing chamber. Re. 24,792, 3-8-60, Cl. 123-73.
- Dalton, Ernest T., to American Optical Co. Apparatus and method of forming ophthalmic lenses. 2,932,925, 4-19-60, Cl. 51-131.
- Dalton Foundries, Inc., The: See—
- Marmont, George H., and Melbourne. 2,929,623.
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- Dalton, Frank. Accelerator pedals for motor vehicles. 2,944,439, 7-12-60, Cl. 74-562.
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- Wolf, Murray, and Dalton. 2,951,441.
- Dalton, Harold R., to Timefax Corp. Modified titanium dioxide and method of preparation. 2,940,941, 6-14-60, Cl. 252-512.
- Dalton, Harold R. Method of making plated intaglio printing form. 2,951,019, 8-30-60, Cl. 204-17.
- Dalton, Robert H., and G. B. Hares, to Corning Glass Works. Glass composition and method of making it. 2,964,414, 12-13-60, Cl. 106-53.
- Dalton, Robert J., to Arthur H. Thomas Co. Pump. 2,941,477, 6-21-60, Cl. 103-87.
- Dalton, Robert L., to Grafex, Inc. Slide lock for photographic cameras. 2,931,281, 4-5-60, Cl. 95-11.
- Dalton, Robert L., to Grafex, Inc. Lock for focusing mechanism of camera. 2,933,996, 4-26-60, Cl. 95-46.
- Dalton, Robert L., to Grafex, Inc. Back assembly for photographic cameras. 2,959,112, 11-8-60, Cl. 95-48.
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- Sonnenfeldt, Richard W., and Daly. 2,957,982.
- Daly, Lawrence E., to United States Rubber Co. Thermoplastic mixture of buta-diene-acrylonitrile rubber, styrene-acrylonitrile resin and vinyl chloride resin. 2,924,543, 2-9-60, Cl. 154-43.
- Daly, Lawrence E., and C. M. McClure, to United States Rubber Co. Rubber-base floor material and method of making same. 2,940,887, 6-14-60, Cl. 154-106.
- Daly, Mary C.: See—
- Gall, Ralph J., Greenspan, and Daly. 2,935,517.
- Daly, Thomas A.: See—
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- Daly, Thomas A., and S. Kowalishyn, Jr., to United States of America, Navy. Steering system for a homing torpedo. 2,948,248, 8-9-60, Cl. 114-21.
- Daman, Arthur C.: See—
- Logue, Leland H., and Daman. 2,932,402.
- Daman, Arthur C., to Denver Equipment Co. Froth flotation and aeration apparatus. 2,944,802, 7-12-60, Cl. 261-87.
- Daman, Arthur C., to Denver Equipment Co. Methods and apparatus for comminuting ores or the like. 2,948,481, 8-9-60, Cl. 241-41.
- D'Amato, John: See—
- Bosco, Alfredo. 2,932,909.
- D'Amato, Vitangelo, to Lepetit S.p.A. Leucovorin purification. 2,927,113, 3-1-60, Cl. 260-251.5.
- Damgaard, Laurits G., to H. Struers Chemiske Laboratorium. Apparatus for the electro-mechanical polishing of surfaces. 2,965,556, 12-20-60, Cl. 204-213.
- Damiano, Frank. Dancing doll attachment for musical instruments. 2,952,940, 9-20-60, Cl. 46-118.
- D'Amico, Carmine J., to Curtiss-Wright Corp. System for simulating aircraft turbo-jet engine operation. 2,933,828, 4-26-60, Cl. 35-12.
- D'Amico, Carmine J., to General Precision, Inc. Servo systems and quadrature signal filter therefor. 2,934,689, 4-26-60, Cl. 318-328.
- D'Amico, John J.: See—
- Godfrey, Kenneth L., and D'Amico. 2,921,079.
- Harman, Marion W., and D'Amico. 2,961,446.
- D'Amico, John J., to Monsanto Chemical Co. Nitrosoaryl-aminomethylimides. 2,927,930, 3-8-60, Cl. 260-326.
- D'Amico, John J., to Monsanto Chemical Co. Method for defoliating with a thiolcarbamate. 2,941,880, 6-21-60, Cl. 71-2.7.
- D'Amico, John J., to Monsanto Chemical Co. Vulcanizing rubber with propynyl sulfenamides. 2,943,079, 6-28-60, Cl. 260-79.5.
- D'Amico, John J., to Monsanto Chemical Co. Thiobis-piperazines. 2,948,727, 8-9-60, Cl. 260-268.
- D'Amico, John J., to Monsanto Chemical Co. Accelerating vulcanization with ylidene thiazole-sulfenamides. 2,959,573, 11-8-60, Cl. 260-79.5.
- D'Amico, John J., H. M. Leeper, and C. C. Tung, to Monsanto Chemical Co. Modifying butyl rubber by heating with a C-nitroso secondary aromatic amine. 2,922,780, 1-26-60, Cl. 260-79.5.
- D'Amico, John J., and C. C. Tung, to Monsanto Chemical Co. Esters of nitrosoarylamino acids. 2,955,978, 10-11-60, Cl. 167-30.
- Damijonaitis, Alexandra, to Union Mfg. Co. Collet actuator. 2,938,500, 5-31-60, Cl. 121-38.
- Damijonaitis, Alexandra, to Union Mfg. Co. Chuck. 2,956,811, 10-18-60, Cl. 279-123.
- Damijonaitis, Kestutis: See—
- Godfrey, James H., and Damijonaitis. 2,927,378.
- Damm, Victor W.: See—
- Roehm, Jack M., and Damm. 2,958,089.
- Dammert, Earl D.: See—
- Bauer, Oliver F., and Dammert. 2,919,518.
- Dammig, Werner: See—
- Walther, Erhardt, and Dammig. 2,925,694.
- Dammond, Howard R., to Landam Products Corp. Instantaneous heater for liquids. 2,957,069, 10-18-60, Cl. 219-39.



- Damon, Abram D., to Deering Milliken Research Corp. Pillow case manufacturing apparatus. 2,940,404, 6-14-60, Cl. 112-10.
- Damon, Robert H. Visible cash changer. 2,936,769, 5-17-60, Cl. 133-5.
- D'Amore, Michael J.: *See*—
- Balcken, Hans A., Sill, Wagner, and D'Amore. 2,920,318.
- Damschroder, Rudolph E., and H. B. Cowden, to Eastman Kodak Co. Stabilization of photographic silver halide emulsions. 2,944,399, 7-12-60, Cl. 96-95.
- Damuis, Adolf, to The Sherwin-Williams Co. Treatment of acidic carbon blacks. 2,920,976, 1-12-60, Cl. 106-307.
- Dana, C. H., Co., Inc.: *See*—
- Hall, Baird. 2,956,361.
- Dana Corp.: *See*—
- O'Brien, Loren J. 2,966,076.
- Michell, William P. 2,945,367.
- Wagner, Robert W. 2,933,923.
- Wagner, Robert W. 2,958,225.
- Wagner, Robert W. 2,960,880.
- Dana, Homer J.: *See*—
- Barnett, Claude C., and Dana. 2,944,542.
- Dancilart, Ted, and H. C. Schluter, to Calpatio Co., Inc. Sup-  
porting and release catch for umbrella runners. 2,937,653,  
5-24-60, Cl. 135-37.
- Dancik, Paul J., to Vertol Aircraft Corp. Convertiplane. 2,936,967, 5-17-60, Cl. 244-7.
- Dancing Waters, Inc.: *See*—
- Przystawik, Otto. 2,922,582.
- Dancy, William B., to International Minerals & Chemical Corp. Method of producing vanthoffite. 2,952,515, 9-13-60, Cl. 23-121.
- Danders, Raymond A., and H. D. Newman. Timer for self developing camera. 2,930,300, 3-29-60, Cl. 95-13.
- D'Andrea, Alfred V.: *See*—
- Matzo, Charles, and D'Andrea. 2,955,374.
- D'Andrea, James B., to E. I. du Pont de Nemours and Co. Ceramic composition and article. 2,924,540, 2-9-60, Cl. 117-227.
- D'Andrea, Marino. Device to impart radial displacements to eccentrically rotating parts. 2,926,548, 3-1-60, Cl. 74-600.
- Dandrow, C. George, Jr.: *See*—
- Burke, Thomas J., Dandrow, and Schneible. 2,957,625.
- Danen, Robert W. Adjustable plaster ground. 2,931,105, 4-5-60, Cl. 33-85.
- Danes, Edward N., Jr.: *See*—
- Freund, Ernest H., and Danes. 2,957,770.
- Danesi, Paul P., to Royal Electric Corp. Socket for a bulb or the like. 2,965,875, 12-20-60, Cl. 339-180.
- Danforth, Clarence E., to General Electric Co. Structural dampener for turbo-blading. 2,937,849, 5-24-60, Cl. 253-77.
- Danforth, Clifton A.: *See*—
- Minnick, Leonard J., and Danforth. 2,920,922.
- Danfoss ved ingeniør Mads Clausen: *See*—
- Mungaard, Hans. 2,958,811.
- Dangler, Robert L.: *See*—
- Fuller, John L., and Dangler. 2,935,051.
- Moulton, Lloyd J., and Dangler. 2,935,050.
- Moulton, Lloyd J., Dangler, and Eichler. 2,935,045.
- Danhier, Francois G., to La Soudure Electrique Autogene, S.A. Automatic arc welding process, equipment and electrode. 2,951,931, 9-6-60, Cl. 219-73.
- Daniel, Arthur F., to United States of America, Army. Solar cell array. 2,962,539, 11-29-60, Cl. 136-89.
- Daniel, David W.: *See*—
- Mentley, Max B., Kokorzycki, and Daniel. 2,944,373.
- Daniel, Frederick K. Flooring composition and method of making the same. 2,943,953, 7-5-60, Cl. 117-43.
- Daniel, Hermann: *See*—
- Lutz, Friedrich, and Daniel. 2,932,266.
- Lutz, Friedrich, and Daniel. 2,960,946.
- Daniel, John H., Jr.: *See*—
- Segro, Nicholas R., and Daniel. 2,955,015.
- Daniel, John H., Jr., to American Cyanamid Co. Method of sizing paper and resulting product. 2,964,445, 12-13-60, Cl. 162-168.
- Daniel, John M. Insertible blade scissors. 2,939,213, 6-7-60, Cl. 30-260.
- Daniel, Kenneth R.: *See*—
- Coupland, Frank H., Jr., Phelps, Cranford, and Daniel. 2,948,934.
- Daniel, Kenneth R., C. P. Farlow, Jr., J. C. Lowery, and J. O. Patton, Jr., to American Cast Iron Pipe Co. Electrically operated pneumatic apparatus for automatically assembling nuts and bolts. 2,943,335, 7-5-60, Cl. 10-155.
- Daniel, Stewart W.: *See*—
- Weston, David, and Daniel. 2,922,587.
- Daniel, Stewart W., to Milltronics Ltd. Electric power responsive system. 2,925,549, 2-16-60, Cl. 323-66.
- Daniel, Stewart W., to Milltronics Ltd. Control signal generator. 2,929,878, 3-22-60, Cl. 179-1.
- Daniel, William A., to The Bendix Corp. Method of centrifugally slip-casting ceramic materials. 2,962,790, 12-6-60, Cl. 25-156.
- Daniel, William A., and B. B. Gauld, to Bendix Aviation Corp. Activation of ferroelectric materials. 2,928,032, 3-8-60, Cl. 317-262.
- Daniels, Albert G., to James R. Kearney Corp. High-leverage tool. 2,939,211, 6-7-60, Cl. 30-187.
- Daniels, Arthur R.: *See*—
- Hanson, Eugene E., and Daniels. 2,925,804.
- Daniels, Charles J.: *See*—
- Ballard, Raymond M., Daniels, and Doolittle. 2,957,554.
- Ballard, Raymond M., Daniels, Doolittle, and Haber. 2,936,977.
- Daniels, Franc P., Jr. Tree balling machines. 2,964,860, 12-20-60, Cl. 37-2.
- Daniels, Kenneth M. Pressure actuated switches. 2,922,001, 1-19-60, Cl. 200-83.
- Daniels, Kenneth P., to Tennessee Fabricating Co. Adjustable column foot. 2,949,984, 8-23-60, Cl. 189-42.
- Daniels, Ludlow S., to Hydrocarbon Research, Inc. Solids cooling means and riser conduit. 2,943,922, 7-5-60, Cl. 23-288.
- Daniels, Paul J. Pumps for liquid dispensers. 2,955,543, 10-11-60, Cl. 103-149.
- Daniels, Phillip D., and D. H. Hug. Combination screen and storm window. 2,963,084, 12-6-60, Cl. 160-90.
- Daniels, Rupert S., and A. J. Mostello, to Union Carbide Corp. Abrasive bond. 2,959,474, 11-8-60, Cl. 51-298.
- Daniels, Wilbert P., to Green Bay Box Co. Carton closing machine. 2,931,153, 4-5-60, Cl. 53-374.
- Danielson, Frank C., deceased: *See*—
- M. J. Danielson, executrix. Cultivator attachment. 2,958,383, 11-1-60, Cl. 172-456.
- Danielson, Martin W.: *See*—
- Munck at Rosenschold, John R., and Danielson. 2,956,738.
- Danielson Mfg. Co., The: *See*—
- Chadbourne, William H. 2,924,431.
- Holt, John E. 2,934,788.
- Danielson, Maudie J.: *See*—
- Danielson, Frank C. 2,958,383.
- Danielson, Vernon S., to W. H. Miner, Inc. Shock absorbing mechanisms. 2,946,462, 7-26-60, Cl. 213-7.
- Danielson, Vernon S., to W. H. Miner, Inc. Friction shock absorbing mechanisms. 2,953,260, 9-20-60, Cl. 213-32.
- Danielson, Vernon S., to W. H. Miner, Inc. Shock absorbing mechanisms. 2,958,429, 11-1-60, Cl. 213-45.
- Danielson, Warren E., to Bell Telephone Laboratories, Inc. Traveling wave tube. 2,939,995, 6-7-60, Cl. 315-3.5.
- Danielson, Warren E., and R. W. Sears, to Bell Telephone Laboratories, Inc. Precision measuring device. 2,954,266, 9-27-60, Cl. 346-33.
- Danielson, Warren R.: *See*—
- Lopp, Charles R., and Danielson. 2,928,253.
- Danielson, Warren R., and C. R. Lopp, to Whirlpool Corp. Constant temperature apparatus. 2,922,284, 1-26-60, Cl. 62-3.
- Danielsson, Paul, to Arenco Aktiebolag. Fish dressing machine. 2,955,316, 10-11-60, Cl. 17-4.
- Danielsson, Torsten, to Aktiebolaget Overums Bruk. Beet harvester having vibrating separating means. 2,921,637, 1-19-60, Cl. 171-101.
- Daniotti, Mario: *See*—
- Schlumpf, Albert, and Daniotti. 2,965,214.
- Dank, Alfred P.: *See*—
- Begun, Semi J., Chan, and Dank. 2,938,195.
- Dankesreither, Georg: *See*—
- Strenz, Karl, and Dankesreither. 2,921,683.
- Danklefs, Ronald W., to Burroughs Corp. Reel brake. 2,940,680, 6-14-60, Cl. 242-55.12.
- Danley-Gordon: *See*—
- Cobb, George R., and Schroeder. 2,952,749.
- Danly, James C., to Danly Machine Specialties, Inc. Overload relief assembly for power presses. 2,937,733, 5-24-60, Cl. 192-150.
- Danly Machine Specialties, Inc.: *See*—
- Curran, Willard F. 2,924,983.
- Danly, James C. 2,937,733.
- Danly, Philo H., and Georgeff. 2,923,263.
- Danly, Philo H., and V. Georgeff, to Danly Machine Specialties, Inc. Reciprocating bed metal drawing press. 2,923,263, 2-2-60, Cl. 113-38.
- Dann, Norman P., and W. J. Hood, to The Cleveland Form-grader Co. Stake puller machine. 2,928,654, 3-15-60, Cl. 254-18.
- Dannback, Toivo M.: *See*—
- Rogers, Stanley, and Dannback. 2,944,207.
- Dannehl, Melvin A., and C. K. Jordan, to Continental Oil Co. Portable slush pit assembly. 2,957,581, 10-25-60, Cl. 210-526.
- Dannelly, Clarence C.: *See*—
- Caldwell, John R., and Dannelly. 2,945,009.
- Dannenmann, Paul, to G. Baucknecht G.m.b.H. Elektrotechnische Fabriken. Food treating device having safety device. 2,934,116, 4-26-60, Cl. 146-68.
- Dannheim, Eberhard. Button fastenings. 2,952,887, 9-20-60, Cl. 24-104.
- Dan River Mills, Inc.: *See*—
- Norton, Charlie L. 2,929,145.
- Poon, George S. Y. 2,929,799.
- Wayland, Rosser L., Jr., Underwood, and Poon. 2,929,798.
- Dans, Bernard D.: *See*—
- Potts, William M., Price, Darholt, and Dans. 2,941,340.
- Dansk Røntgen-Teknik A/S.: *See*—
- Kühl, Johan B. 2,946,549.
- Dant, John E. Paint brush. 2,943,341, 7-5-60, Cl. 15-202.
- Dantes, Edna M. Home shampoo chair. 2,951,531, 9-6-60, Cl. 155-188.



- Dantzler, Jack W., and V. W. Eller, to F. K. Stevens. Circular knitting machine attachment. 2,920,467, 1-12-60, Cl. 66-138.
- Danulat, Friedrich: *See—*  
Henze, Rudolf, Rudolph, and Danulat. 2,925,334.
- Danulat, Gertrud: *See—*  
Henze, Rudolf, Rudolph, and Danulat. 2,925,334.
- Danulat, Ilse: *See—*  
Henze, Rudolf, Rudolph, and Danulat. 2,925,334.
- Danuser Machine Works, Inc.: *See—*  
Danuser, Walter W. 2,928,223.
- Danuser, Walter W., to Danuser Machine Works, Inc. Tractor mounted rotary mower attachment. 2,928,223, 3-15-60, Cl. 56-25.4.
- Danyluke, Ostop, to Bath Iron Works Corp. Peripheral feed breaker. 2,950,870, 8-30-60, Cl. 241-91.
- Dapp, Robert J., to Kimble Glass Co. Apparatus and method for article conveying and distributing. 2,963,142, 12-6-60, Cl. 198-30.
- Dapper, James C.: *See—*  
Scott, Victor J., and Dapper. 2,945,090.
- D'Aquila, Carl, and R. E. Bohne, Jr., to Chrysler Corp. Electrolytic cleaning of metal and composition therefor. 2,920,023, 1-5-60, Cl. 204-145.
- Dara, Nestor, and A. Ryckaert, to Solvay & Cie. Process for the stabilization of chlorinated hydrocarbons. 2,966,524, 12-27-60, Cl. 260-652.5.
- Daras, Nestor, to Solvay & Cie. Process for the stabilisation of chlorinated hydrocarbons. 2,935,537, 5-3-60, Cl. 260-652.5.
- Darbee, Leonard R., and P. G. Conroy, to Food Machinery and Chemical Corp. Manufacture of hydrogen peroxide. 2,935,881, 5-3-60, Cl. 23-207.
- Darbee, Leonard R., and J. R. Koczynski, to Food Machinery and Chemical Corp. Method of preparing monopersulfates. 2,955,020, 10-4-60, Cl. 23-114.
- Darbee, Leonard R., and D. F. Kreuz, to Food Machinery and Chemical Corp. Production of hydrogen peroxide. 2,966,397, 12-27-60, Cl. 23-207.
- Darbo, Howard H. Combination drawer and table top. 2,947,589, 8-2-60, Cl. 312-301.
- Darbuhan, Jiri, to Vyzkumny a zkusebni letecky ustav. Speed indicator for airplanes. 2,927,460, 3-8-60, Cl. 73-182.
- Darby, Joseph R., to Monsanto Chemical Co. Light stabilizer mixture. 2,951,052, 8-30-60, Cl. 260-23.
- Darby, Joseph R., to Monsanto Chemical Co. Plasticized cellulose ethers. 2,959,491, 11-8-60, Cl. 106-191.
- Darby, Paul F., to Crucible Steel Co. of America. Skull type furnace. 2,925,636, 2-23-60, Cl. 22-79.
- Darbyshire, Charles F., to Rohr Aircraft Corp. Laminated Guerin box. 2,927,549, 3-8-60, Cl. 113-44.
- D'Arca, Nicholas A., to Clark Equipment Co. Collapsible pallet. 2,956,763, 10-18-60, Cl. 248-120.
- D'Arcangelo, Amelio M., to Jersey Production Research Co. Releaseable locking mechanism. 2,931,184, 4-5-60, Cl. 61-46.5.
- D'Arcey, Gerard W., and J. J. Ryan, 1/4 to P. B. Fihe. Waffle iron. 2,922,357, 1-26-60, Cl. 99-379.
- Darche, Albert A., to Activa Ibera. Colloidal powder and method of producing same. 2,934,418, 4-26-60, Cl. 52-5.
- D'Arcy, Ellis W. Adjustable head mount. 2,943,860, 7-5-60, Cl. 274-4.
- Dardarian, Harry B., J. H. Gilson, and G. R. Swanson, to General Motors Corp. Foldable vehicle top. 2,939,742, 6-7-60, Cl. 296-107.
- Dardig, Ben V. Detachable heel. 2,932,099, 4-12-60, Cl. 36-36.
- Dardy, Gabriel R.: *See—*  
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- Da Re, Paolo, to Recordati-Laboratorio Farmacologico S.p.A. Basic esters of 3-methylflavone-8-carboxylic acid. 2,921,070, 1-12-60, Cl. 210-247.2.
- Dare Products, Inc.: *See—*  
Wilson, Robert M. 2,931,853.  
Wilson, Robert M. 2,955,150.  
Wilson, Robert M. 2,964,728.
- Dargene, Carl J., to Amerock Corp. Drawer guide. 2,941,847, 6-21-60, Cl. 308-3.8.
- Darholt, Jerome O.: *See—*  
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Potts, William M., Price, Darholt, and Dans. 2,941,340.
- Darkenwald, George A. Carrying case for fish landing net. 2,923,450, 2-2-60, Cl. 224-5.
- Darland, William G., Jr.: *See—*  
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- Darling, Alan S., to Johnson, Matthey & Co. Ltd. Ductile electrical resistance alloy. 2,946,679, 7-26-60, Cl. 75-134.
- Darling, Alan S., to Johnson, Matthey & Co. Ltd. Treatment of hydrogen or gaseous mixtures containing hydrogen. 2,962,123, 11-29-60, Cl. 183-115.
- Darling, Horace E., to The Foxboro Co. Magnetic current-control devices. 2,963,639, 12-6-60, Cl. 323-89.
- Darling, James P., and C. O. Slemmons, to The General Tire & Rubber Co. Emergency tire. 2,951,524, 9-6-60, Cl. 152-330.
- Darling, Woodrow, to Radio Corp. of America. Reduction of reflection in a transmitting system. 2,934,640, 4-26-60, Cl. 250-17.
- Darlington, Henry S., Jr., to A. H. Wirz, Inc. Spinning tool. 2,960,051, 11-15-60, Cl. 113-52.
- Darlington, Walter A., to Monsanto Chemical Co. Inhibiting the growth of plant viruses. 2,941,921, 6-21-60, Cl. 167-30.
- Darlington, Walter A., to Monsanto Chemical Co. Inhibiting the growth of plant viruses. 2,965,534, 12-20-60, Cl. 167-22.
- Darlington, Walter A., to Monsanto Chemical Co. Inhibiting the growth of plant viruses. 2,965,540, 12-20-60, Cl. 167-33.
- Darlington, Walter A., and H. I. Weingarten, to Monsanto Chemical Co. Heteropolypeptide. 2,953,553, 9-20-60, Cl. 260-112.
- Darlington, Walter A., and H. I. Weingarten, to Monsanto Chemical Co. Heteropolypeptides. 2,953,559, 9-20-60, Cl. 260-112.
- Darman, Joseph: *See—*  
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Zizzi, Joseph L. 2,944,860.
- Darmstadt, Louis J., to The American Thermos Products Co. Closure for vacuum insulated vessels. 2,944,690, 7-12-60, Cl. 215-48.
- Darnell, Clarence E. Subsoiler farm tool. 2,925,872, 2-23-60, Cl. 172-448.
- Darnell, Fred P., and W. J. Skipworth, to Swartwout Fabricators, Inc. Ventilator. 2,940,377, 6-14-60, Cl. 98-86.
- Da Roza, Robert A., to Texaco Inc. Fracturing formations in wells. 2,965,172, 12-20-60, Cl. 166-42.
- Darnell, Ronald R. Log pre-loading apparatus. 2,919,822, 1-5-60, Cl. 214-41.
- Darou, William T., Jr., W. J. Gorman, and J. F. Metcalf, to Laboratory for Electronics, Inc. Magnetic head assemblies. 2,961,494, 11-22-60, Cl. 179-100.2.
- Darr, Harold W., to H. B. Shapira. Liquid soap dispenser. 2,965,267, 12-20-60, Cl. 222-38.
- Darr, Harold W., to H. B. Shapira. Appliance mounting bracket and locking means therefor. 2,966,323, 12-27-60, Cl. 248-203.
- Darr, Wayne B. Tire processing apparatus. 2,965,152, 12-20-60, Cl. 154-9.
- Darrel, Bernard, and S. J. Szpak, to General Electric Co. Method of and apparatus for making printed circuits. 2,966,429, 12-27-60, Cl. 117-212.
- Darrell, George H., and C. E. Channing. Level indicating putter. 2,919,491, 1-5-60, Cl. 33-207.
- Darrow, Kenneth A., and R. H. Johnson, to General Electric Co. Compressor. 2,933,237, 4-19-60, Cl. 230-114.
- Darsie, Burns: *See—*  
Dixon, Paul H., and Darsie. 2,933,180.
- Darsie, Burns, to Dixon Automatic Tool, Inc. Fluid operated escapement device. 2,937,788, 5-24-60, Cl. 221-298.
- Darsie, Burns, to United States of America, Army. Charging devices for a firearm. 2,942,523, 6-28-60, Cl. 89-1.
- Darsie, Burns, and R. H. Casler, to United States of America, Army. Linkless feed system for guns. 2,935,914, 5-10-60, Cl. 89-33.
- Dart, Jack C., and F. R. Walser, to Houdry Process Corp. Removing contaminants from catalyst particles. 2,958,650, 11-1-60, Cl. 208-174.
- Dart, John L., to General Motors Corp. Spark plug and method for forming same. 2,924,642, 2-9-60, Cl. 174-152.
- Dart Mfg. Co.: *See—*  
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- Dart, William F., to Dart Mfg. Co. Wall mountable shelf unit. 2,930,487, 3-9-60, Cl. 211-90.
- Darvie, Samuel, to Metal Fabrications Inc. Spray device. 2,966,283, 12-27-60, Cl. 222-183.
- Darwin, Clifford: *See—*  
Cederlund, Albert, Hall, and Darwin. 2,961,008.
- Darwin, Daniel P.: *See—*  
Panissidi, Hugo A., and Darwin. 2,922,399.
- Darzens, Egon. Edible castor cake product and method of producing the same. 2,920,963, 1-12-60, Cl. 99-9.
- Dasch, Robert E., to Draper Corp. Shuttle threading block. 2,944,572, 7-12-60, Cl. 139-217.
- Daschke, Arthur W., and N. L. Hooper, to J-B-T Instruments, Inc. Electrical frequency responsive device. 2,958,040, 10-25-60, Cl. 324-80.
- D'Ascoli, Ralph G., to Anaconda Wier and Cable Co. Method of making high frequency cable. 2,948,020, 8-9-60, Cl. 18-59.
- Dascotte, Jean, to International Standard Electric Corp. Transmission system for radioelectric waves. 2,921,274, 1-12-60, Cl. 333-27.
- Dash, Edward. Stud welding means and method. 2,950,379, 8-23-60, Cl. 219-99.
- Dash, William C., to General Electric Co. Method of growing semiconductor crystals. 2,961,305, 11-22-60, Cl. 23-301.
- Dasher, George F., Jr.: *See—*  
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- Dasher, Norman: *See—*  
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- Dasher, Paul J., to Dasher Rubber & Chemical Co. Process of milling synthetic rubber latex coagulum containing water. Re. 24,904, 12-6-60, Cl. 260-41.5.
- Dasher, Paul J., to Dasher Rubber and Mfg. Co. Apparatus for reclaiming unvulcanized rubber scrap, or the like, containing fiber. 2,927,342, 3-8-60, Cl. 18-2.



- Dasher, Paul J., to Dasher Rubber & Chemical Co. Process of reclaiming scrap vulcanized rubber. 2,966,468, 12-27-60, Cl. 260-23.
- Dasher Rubber & Chemical Co.: See—  
Dasher, Paul J. Re. 24,904.  
Dasher, Paul J. 2,966,468.
- Dasher Rubber and Mfg. Co.: See—  
Dasher, Paul J. 2,927,342.
- Dasney, Charles A.: See—  
Tracy, Ward D., and Dasney. 2,921,803.
- Daspit, John I., to Gilfillan Bros., Inc. Biased diode function generator. 2,923,876, 2-2-60, Cl. 323-16.
- Daspit, John I., to Gilfillan Bros., Inc. Air traffic control system using ideal approach tracks. 2,927,751, 3-8-60, Cl. 244-77.
- Dassler, Adolf, to Accumulatoren-Fabrik Aktiengesellschaft. Electrodes for alkaline accumulators. 2,934,581, 4-26-60, Cl. 136-9.
- Date, Kazuo H., and A. Van Ryan, to McGraw-Edison Co. Automatic circuit interrupter. 2,926,228, 2-23-60, Cl. 200-89.
- Datran Engineering Corp.: See—  
Cogley, James J., Little, and Starkey. 2,930,009.
- D'Atre, Victor M.: See—  
Becker, Eugene C. H., and D'Atre. 2,932,474.
- Datwyler, Gottfried. Accessory fan for textile machines. 2,924,063, 2-9-60, Cl. 57-56.
- Daub, Rudolph. Piston head structure. 2,956,847, 10-18-60, Cl. 309-14.
- Dauben, William G., R. A. Micheli, and J. F. Eastham. Preparation of  $\Delta^6$ -3-hydroxy-steroids. 2,926,163, 2-23-60, Cl. 260-239.55.
- Daubersy, Jean, and A. Schlemmer. Method for the centrifugal continuous casting of metals. 2,940,143, 6-14-60, Cl. 22-200.1.
- D'Audiffret, Adolphe A., R. E. Reimund, and W. C. Lavelly, to Ranney Method Water Supplies, Inc. Plastic well screen and wells utilizing the screens and method of operation. 2,933,137, 4-19-60, Cl. 166-42.
- Daudt, William H., to Dow Corning Corp. Organosiloxane fluids. 2,920,044, 1-5-60, Cl. 252-78.
- Dauenbauer, Florian F. Helicopter lift rotor controls. 2,934,152, 4-26-60, Cl. 170-160.25.
- Daugherty, Charles R. Toy bombsight. 2,932,123, 4-12-60, Cl. 46-1.
- Daugherty, Dallas J. Clamp-on cable hanger. 2,923,508, 2-2-60, Cl. 248-58.
- Daugherty, Daniel J.: See—  
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Donan, John F., Daugherty, and Dobbins. 2,935,734.
- Daugherty, Jesse, to Giddings & Lewis Machine Tool Co. Power operated pendant control station. 2,940,366, 6-14-60, Cl. 90-11.
- Daugherty, Ralph K.: See—  
Smith, Traver J., and Daugherty. 2,950,424.
- Dauguet, Alexandre, to Laboratoires d'Electronique et de Physique Appliquees L.E.P. Tracking system. 2,929,061, 3-15-60, Cl. 343-117.
- Dauguet, Alexandre, to Laboratoires d'Electronique et de Physique Appliquees L.E.P. Infra-red optical sweep system. 2,960,001, 11-15-60, Cl. 88-1.
- Daul, George C., to Courtaulds, Inc. Methylol-amino-epihalohydrin resinous products and method for making same. 2,960,484, 11-15-60, Cl. 260-21.
- Dausch, Erwin. Drawing mechanisms for spinning machines. 2,943,363, 7-5-60, Cl. 19-135.
- Daven Co., The: See—  
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Smith, John P., Jr. 2,938,156.
- Davenport, Arthur B., to Bendix Aviation Corp. Transistorized monostable multivibrator. 2,945,966, 7-19-60, Cl. 307-88.5.
- Davenport, John E., to Tennessee Valley Authority. Settling finely divided solids from gelled suspensions. 2,922,761, 1-26-60, Cl. 210-49.
- Davenport, Mark E., Jr., I. M. Bunding, and M. A. Schooley, to Armour and Co. Preparation of an anti-hog cholera product. 2,926,120, 2-23-60, Cl. 167-80.
- Davenport, William S., to Westinghouse Electric Corp. Fluid impingement nozzle mounting arrangement for starting an aviation gas turbine engine. 2,929,206, 3-22-60, Cl. 60-39.14.
- Davey, Charles B., and S. A. Wilde, to Wisconsin Alumni Research Foundation. Sawdust composites and method of preparing the same. 2,946,675, 7-26-60, Cl. 71-8.
- Davey, Clarence P., to Eugene Dietzgen Co. Slide rule. 2,956,743, 10-18-60, Cl. 235-70.
- Davey, David G., N. Greenhalgh, and R. F. Homer, to Imperial Chemical Industries Ltd. New molluscicidal compositions. 2,938,830, 5-31-60, Cl. 167-30.
- Davey, James R., to Bell Telephone Laboratories, Inc. Angle difference translator. 2,954,928, 10-4-60, Cl. 235-177.
- Davey, Peter. Apparatus for transmitting and translating movement. 2,947,593, 8-2-60, Cl. 346-117.
- Davey, Peter E., to General Electric Co. Hermetically-sealed, motor compressor unit including noise reducing means. 2,928,589, 3-15-60, Cl. 230-232.
- Davey, Samuel H. Pumps. 2,949,214, 8-16-60, Cl. 222-381.
- Davey, Vivian F.: See—  
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- David, Booker T.: See—  
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- David, Constant V., to Ryan Aeronautical Co. Servo powered jet deflecting nozzle. 2,919,546, 1-5-60, Cl. 60-35.55.
- David, Constant V., to Ryan Aeronautical Co. Vertical take-off power plant system. 2,940,691, 6-14-60, Cl. 244-12.
- David, Constant V., and J. W. Baxter, to Ryan Aeronautical Co. Combination augmentor, sound suppressor and thrust reverser for jet engines. 2,955,418, 10-11-60, Cl. 60-35.54.
- David, Eric, and P. M. Aiello, to L. A. D. Industries, Inc. Retaining device for removable panel. 2,944,643, 7-12-60, Cl. 189-88.
- David, Roger H. Adjustable connections. 2,921,808, 1-19-60, Cl. 287-12.
- Davidson, Albert W.: See—  
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- Davidson, Charles R., Jr., R. L. Malobicky, and H. E. McKelvey, to Pittsburgh Plate Glass Co. Treating glass sheets. 2,940,222, 6-14-60, Cl. 49-84.
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- Davidson, Evan J., to General Controls Co. Effective temperature thermostat. 2,949,513, 8-16-60, Cl. 200-61.06.
- Davidson, Frank H. Earwire having a curved ear surface engaging means. 2,956,422, 10-18-60, Cl. 63-13.
- Davidson, Gareth M., to American Bosch Arma Corp. Trigonometric converter. 2,922,578, 1-26-60, Cl. 235-189.
- Davidson, Gareth M., to American Bosch Arma Corp. Lead network servosystem. 2,960,645, 11-15-60, Cl. 318-448.
- Davidson, Gareth M., and R. F. Brady, to American Bosch Arma Corp. Unique unity gain amplifier. 2,950,443, 8-23-60, Cl. 330-70.
- Davidson, Isaac F.  $\frac{1}{2}$  to E. L. Davidson. Adjustable double track tractor. 2,954,833, 10-4-60, Cl. 180-9.2.
- Davidson, Ivor M., to Power Jets (Research and Development) Ltd. Jet deflector for a jet propelled aircraft comprising a flexible canopy. 2,936,582, 5-17-60, Cl. 60-35.54.
- Davidson, Ivor M., to Power Jets Research and Development Ltd. Aircraft engine fuel systems. 2,964,267, 12-13-60, Cl. 244-15.
- Davidson, Ivor M., and B. S. Stratford, to Power Jets (Research & Development) Ltd. Jet propelled aircraft. 2,961,192, 11-22-60, Cl. 244-15.
- Davidson, James J., and J. M. Link, to Radio Corp. of America. Alert radio signal receiver. 2,958,770, 11-1-60, Cl. 250-20.
- Davidson, Joe: See—  
Watson, James P. 2,933,580.  
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- Davidson, John K., W. L. Robb, and O. N. Salmon, to United States of America, Atomic Energy Commission. Method of preparing uranium, thorium, or plutonium oxides in liquid bismuth. 2,961,390, 11-22-60, Cl. 204-154.2.
- Davidson, John R., 50% to B. F. Haerich. Toilet seat. 2,961,664, 11-29-60, Cl. 4-229.
- Davidson, John T., to The Standard Register Co. Ribbon inker in bed and cylinder printing device. 2,945,435, 7-19-60, Cl. 101-274.
- Davidson, John T., and C. F. Howard, to The Standard Register Co. Strip feeding device. 2,919,915, 1-5-60, Cl. 271-2.3.
- Davidson, John T., and R. W. Staneck, to The Standard Register Co. Strip feeding device. 2,919,916, 1-5-60, Cl. 271-2.3.
- Davidson, John T., and C. F. Howard, to The Standard Register Co. Dual strip feeding mechanism. 2,919,934, 1-5-60, Cl. 282-16.
- Davidson, Louis. Folding industrial pallet. 2,951,669, 9-6-60, Cl. 248-120.
- Davidson, Mats I. Device for turning collars, cuffs of shirts and similar articles. 2,919,838, 1-5-60, Cl. 223-2.
- Davidson, Maxwell W.,  $\frac{1}{2}$  to Sanderson & Murray Ltd. Method of and means for extracting liquid from materials which in bulk present foramina. 2,931,290, 4-5-60, Cl. 100-211.
- Davidson, Norman R., and J. J. Katz, to United States of America, Atomic Energy Commission. Method for the preparation of plutonium halides and oxyhalides. 2,926,068, 2-23-60, Cl. 23-14.5.
- Davidson, Philip H., to United States of America, Atomic Energy Commission. Method of operating a calutron. 2,921,199, 1-12-60, Cl. 250-41.9.
- Davidson, Thomas E.: See—  
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- Davidson, William E., to General Electric Co. Vacuum cleaner wand connector and detach. 2,923,960, 2-9-60, Cl. 15-410.
- Davidson, William W., deceased, by W. E. Murray, and W. W. Davidson, Jr., executors. Collator. 2,936,167, 5-10-60, Cl. 270-58.
- Davidson, William W., Jr.: See—  
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- Davie, Robert P.: See—  
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- Davies, Alan L.: *See*—  
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- Davies, Ben, to Harbison-Walker Refractories Co. Chemically bonded basic refractory. 2,947,649, 8-2-60, Cl. 117-118.
- Davies, Clarence J., to L. N. McGrath and J. G. Tomlan, d.b.a. D. & S. Stamping Co. Guide structure for flushing valve mechanism. 2,919,446, 1-5-60, Cl. 4-57.
- Davies, Clarence J. Separable splice for endless flexible bands. 2,931,674, 4-5-60, Cl. 287-64.
- Davies, David H. Log rolling or birling machines. 2,931,468, 4-5-60, Cl. 272-1.
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- Davies, David O., to Rolls-Royce Ltd. Compound gas turbine engine with control for low-pressure rotor. 2,933,887, 4-26-60, Cl. 60-35.6.
- Davies, David O., to Rolls-Royce Ltd. Engine acceleration fuel control responsive to speed scheduled compressor pressure ratio. 2,943,447, 7-5-60, Cl. 60-39.28.
- Davies, David O., to Rolls-Royce Ltd. Gas turbine with re-heat combustion equipment and fuel control thereto. 2,964,904, 12-20-60, Cl. 60-35.6.
- Davies, Edith M., and P. J. Franklin, to United States of America, Army. Method of molding capacitors in printed circuits. 2,937,410, 5-24-60, Cl. 18-59.
- Davies, Gail F., to Clevite Corp. Alloy clad titanium and method of producing same. 2,940,163, 6-14-60, Cl. 29-182.2.
- Davies, Gilbert E., and G. L. Gasparini, to Superior Ball Joint Corp. Ball joint. 2,922,670, 1-26-60, Cl. 287-90.
- Davies, Harry L.: *See*—  
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- Davies, Ian F., and J. C. Vickery, to The General Electric Co. Ltd. Circuit arrangements for operating low pressure electric discharge lamps. 2,964,676, 12-13-60, Cl. 315-98.
- Davies, James E., and C. W. Otto, to Cutler-Hammer, Inc. Hermetically sealed electromagnetic contactors and the like. 2,951,133, 8-30-60, Cl. 200-87.
- Davies, John B., to Pilkington Brothers Ltd. Ring moulds for casting glass discs. 2,937,476, 5-24-60, Cl. 49-65.
- Davies, John M.: *See*—  
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- Davies, Richard E.: *See*—  
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- Davies, Robert H., to Parker-Hannifin Corp. Vented chamber, fluid pressure actuated valve. 2,931,378, 4-5-60, Cl. 137-220.
- Davies, Robert H., to Parker-Hannifin Corp. Fluid system with vented chamber, fluid pressure actuated valve. 2,931-381, 4-5-60, Cl. 137-266.
- Davies, Ronald M., to Orenda Engines Ltd. Device for inspecting a body surrounded by, or composed of, hot gases. 2,959,090, 11-8-60, Cl. 88-14.
- Davies, Thomas D., G. C. Hampson, F. R. M. McDonnell, and G. Schmerlaib, to Lever Brothers Co. Peroxide-ester bleaching process and compositions. 2,955,905, 10-11-60, Cl. 8-111.
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- Davin, Joseph F., Jr. Down corn lifter. 2,933,876, 4-26-60, Cl. 56-119.
- Davis, Albert F., and C. H. Palmer, to General Motors Corp. Valve lifter. 2,963,011, 12-6-60, Cl. 123-90.
- Davis, Alden B., to Sylvania Electric Products Inc. Electroluminescent phosphor. 2,952,642, 9-13-60, Cl. 252-301.6.
- Davis, Allen V. C. Resilient takeup means for use with screw threaded fasteners. 2,943,870, 7-5-60, Cl. 285-200.
- Davis, Allen V. C. Flow proportioning device. 2,953,150, 9-20-60, Cl. 137-99.
- Davis, Allen V. C. Pressure switch. 2,953,658, 9-20-60, Cl. 200-81.
- Davis, Ariel R. Peaking ballast. 2,956,249, 10-11-60, Cl. 336-165.
- Davis, Arthur, to Autometric Corp. Target detection system. 2,952,075, 9-13-60, Cl. 33-1.
- Davis, Arthur C., to Electrodyne Corp. Alarm fuse. 2,923,796, 2-2-60, Cl. 200-118.
- Davis, Arthur D.: *See*—  
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- Davis, Arthur M.: *See*—  
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- Davis, Arthur M., to General Motors Corp. Lubricating system. 2,925,146, 2-16-60, Cl. 184-6.
- Davis, Arthur P., to American Bosch Arma Corp. Gyro compass. 2,922,228, 1-26-60, Cl. 33-226.
- Davis, Arthur P., and A. Waly, to Electronized Chemicals Corp. Electron accelerator. 2,924,714, 2-9-60, Cl. 250-49.5.
- Davis, Augustine, Jr., and J. A. Nichols, to Davisbilt Steel Joist Inc. Metal structural units. 2,950,789, 8-30-60, Cl. 189-34.
- Davis, Benjamin H., and D. O. Laplant, to Franklin Research Corp. Stock anchor of the wind-on type. 2,930,537, 3-29-60, Cl. 242-25.
- Davis, Billy E., to United States of America, Navy. Four quadrant computer. 2,920,828, 1-12-60, Cl. 235-194.
- Davis, Billy E. Magnetic amplifier servo circuit. 2,953,302, 9-20-60, Cl. 235-178.
- Davis, Carl M. Flocking machine. 2,941,841, 6-21-60, Cl. 302-36.
- Davis, Charles J., to Massey-Ferguson Inc. Mounting apparatus for tractor attachments. 2,931,525, 4-5-60, Cl. 214-132.
- Davis, Charles M., Jr., and E. T. Hopper, Jr., to United States of America, Navy. Alternating current limiter. 2,959,730, 11-8-60, Cl. 323-89.
- Davis, Charles W. Background supports. 2,954,823, 10-4-60, Cl. 160-120.
- Davis, Charles W., to Texaco Inc. Fuel injection system. 2,960,973, 11-22-60, Cl. 123-32.
- Davis, Charles W. V., and W. C. C. Westwood, to North American Phillips Co., Inc. Magnetic separator. 2,959,287, 11-8-60, Cl. 210-222.
- Davis, Chester. Non-staining triarylmethane color base and method of printing therewith. 2,927,040, 3-1-60, Cl. 117-36.
- Davis, Chester. Non-staining transfer sheet. 2,927,041, 3-1-60, Cl. 117-36.
- Davis, Claude E. Packaged impregnated charcoal fuel product. 2,963,352, 12-6-60, Cl. 44-40.
- Davis, Claude M.: *See*—  
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- Davis, Clifford A., to General Dynamics Corp. (Convair Division). Fastening device having a rotatable latch. 2,919,569, 1-5-60, Cl. 70-97.
- Davis, Clyde W., J. F. Voeks, and F. A. Ehlers, to The Dow Chemical Co. Method for the preparation of acrylonitrile graft copolymer fiber-forming systems. 2,949,435, 8-16-60, Cl. 260-45.5.
- Davis, Crary, to Permanent Mold & Die Co., Inc. Apparatus for casting pistons and the like. 2,965,938, 12-27-60, Cl. 22-93.
- Davis, Curtis W., and D. E. Carney, to Libbey-Owens-Ford Glass Co. Method and apparatus for producing sheet glass. 2,957,275, 10-25-60, Cl. 49-3.
- Davis, David A., F. L. Smith, and J. H. Snodgrass, to Link-Belt Co. High capacity bucket elevator. 2,944,657, 7-12-60, Cl. 198-152.
- Davis, Dean W., to International Telephone and Telegraph Corp. Image reproducing device. 2,925,525, 2-16-60, Cl. 315-10.
- Davis, Dean W., to International Telephone and Telegraph Corp. Storage tube construction. 2,932,764, 4-12-60, Cl. 315-12.
- Davis, Donald W.: *See*—  
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- Tillson, Edwin D., Janness, and Davis. 2,951,611.
- Davis, Donovan C., to Gilfillan Bros., Inc. Radiant energy receiver. 2,952,849, 9-13-60, Cl. 343-119.
- Davis, Donovan C., and P. M. Brown, to Gilfillan Bros., Inc. Radiant energy receiver system. 2,938,206, 5-24-60, Cl. 343-113.
- Davis, Edward M., Jr., to Westinghouse Electric Corp. Electrical inverter circuit. 2,946,022, 7-19-60, Cl. 331-113.
- Davis, Edward P.: *See*—  
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- Davis, Edwin A., to The Dow Chemical Co. Method and composition for the treatment of soil. 2,957,761, 10-25-60, Cl. 71-2.7.
- Davis, Elwood A., to Friden, Inc. Calculating machine. 2,946,505, 7-26-60, Cl. 235-63.
- Davis, Elwood A., and N. F. Hawthorne, to Friden, Inc. Calculating machine. 2,926,845, 3-1-60, Cl. 235-63.
- Davis Emergency Equipment Co., Inc.: *See*—  
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- Davis Engineering Inc.: *See*—  
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- Davis, Ernest, to The Prosperity Co. Safety door interlock. 2,953,012, 9-20-60, Cl. 70-100.
- Davis, Ernest, to Ward Industries Corp. Block-off plate for back wash operation. 2,954,873, 10-4-60, Cl. 210-333.
- Davis Filtration Equipment Co., Inc.: *See*—  
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- Davis, Floyd E., to United States Steel Corp. Method and apparatus for cooling mill rolls. 2,921,488, 1-19-60, Cl. 80-41.
- Davis, Floyd E., and B. F. Krane. Apparatus for feeding sintering machine. 2,933,306, 4-19-60, Cl. 266-21.
- Davis, Floyd L.: *See*—  
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- Davis, Floyd L., to L. D. Stewart. Apparatus for cooling air. 2,959,032, 11-8-60, Cl. 62-314.
- Davis, Frederick L., to London Rubber Co. Ltd. Method of producing rubber gloves. 2,941,257, 6-21-60, Cl. 18-58.5.
- Davis, Frederick L., to Welox, Inc. Automobile generator drive. 2,955,478, 10-11-60, Cl. 74-336.



- Davis, Frederick L., to Welex, Inc. Variable torque transmissions. 2,960,890, 11-22-60, Cl. 74-786.
- Davis & Furber Machine Co.: See—  
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- Davis, Geoffrey G. J., to The Associated Portland Cement Manufacturers Ltd. Apparatus for the manufacture of Portland cement, lime and the like. 2,945,687, 7-19-60, Cl. 263-32.
- Davis, George, to Davis Engineering Inc. Carriage and driving mechanism for a mobile boom machine. 2,949,162, 8-16-60, Cl. 180-85.
- Davis, George, to Davis Engineering Inc. Hydraulically operated mobile digging machine. 2,961,106, 11-22-60, Cl. 214-138.
- Davis, Gerald M., to American Cyanamid Co. Metallic salts of commercial stearic acid. 2,945,051, 7-12-60, Cl. 260-414.
- Davis, Gervase P. Shaving compound applicator. 2,963,724, 12-13-60, Cl. 15-104.
- Davis, Gilbert H. Rotating taillight reflector. 2,945,210, 7-12-60, Cl. 340-72.
- Davis, Gordon H., to Davis Filtration Equipment Co., Inc. Filter. 2,936,075, 5-10-60, Cl. 210-236.
- Davis, Harold, to Gulf Oil Corp. Process and apparatus for dehydrating hydrocarbon oils. 2,930,749, 3-29-60, Cl. 208-187.
- Davis, Harold G. Adjustable shower attachment. 2,966,311, 12-27-60, Cl. 239-273.
- Davis, Harry E. Drawing and twisting apparatus. 2,944,379, 7-12-60, Cl. 57-31.
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- Davis, Henry B. O., to United States of America, Navy. Peak indicating voltmeter. 2,925,557, 2-16-60, Cl. 324-103.
- Davis, Henry B. O., and R. A. Meyers. Electronic multiplier. 2,952,408, 9-13-60, Cl. 235-194.
- Davis, Herbert M., and J. E. Seaborn, to National Research Development Corp. Electrical testing apparatus. 2,932,790, 4-12-60, Cl. 324-61.
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- Davis, Howard C.: See—  
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- Davis, Howard F., Jr.: See—  
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- Davis, Jacob M., and G. H. Hochmuth, to Kearney & Trecker Corp. Die set for forming cutter blades. 2,958,753, 11-1-60, Cl. 219-75.
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- Davis, Joe W. Adjustable jig welding table for assembling pipe fittings. 2,928,364, 3-15-60, Cl. 113-99.
- Davis, John, to Equitable Paper Bag Co., Inc. Paper bag with integral locking tabs. 2,925,951, 2-23-60, Cl. 229-77.
- Davis, John T., 1/2 each to Texas Coffin Co., and to Davis Iron Works, Inc. Casket display racks or supports. 2,937,768, 5-24-60, Cl. 211-175.
- Davis, John V., to The Udylite Corp. Anode shifting device. 2,960,456, 11-15-60, Cl. 204-198.
- Davis, John V., to The Udylite Corp. Plating apparatus. 2,962,125, 11-29-60, Cl. 187-1.
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- Davis, Joseph A., to Radio Corp. of America. Coated phosphor particles. 2,920,003, 1-5-60, Cl. 117-33.5.
- Davis, Joseph A., to Radio Corp. of America. Methods for preparing luminescent materials. 2,956,028, 10-11-60, Cl. 252-301.6.
- Davis, Joseph E., to Sylvania Electric Products Inc. Burst separator controlled, chroma killer. 2,947,806, 8-2-60, Cl. 178-5.4.
- Davis, Joseph E., and J. K. Allen, to Sylvania Electric Products Inc. Television receiver with built-in color bar test pattern. 2,931,856, 4-5-60, Cl. 178-5.4.
- Davis, Joseph, Plastics Co.: See—  
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- Davis, Julius J., to Western Gear Corp. Anti-reversing rotary coupling. 2,925,157, 2-16-60, Cl. 192-8.
- Davis, Kenneth F.: See—  
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- Davis, Kenneth J.: See—  
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- Davis, Latta O. Vehicle spring suspension. 2,934,334, 4-26-60, Cl. 267-19.
- Davis, Leo J.: See—  
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- Davis, Leonard. Signature feeding devices. 2,931,646, 4-5-60, Cl. 271-10.
- Davis, Louis D., Jr.: See—  
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- Davis, Louis D., Jr., E. J. Simanek, and C. E. Tack, to American Steel Foundries. Rotor brake. 2,958,396, 11-1-60, Cl. 188-33.
- Davis, Manfred, to General Precision Inc. Instrument for calibrating manometers. 2,947,162, 8-2-60, Cl. 73-4.
- Davis, Marion H. Automatic clutch and transmission. 2,928,286, 3-15-60, Cl. 74-230.17.
- Davis, Martin A.: See—  
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- Davis, Norman W., and E. L. Kerr, to Eastman Kodak Co. Photographic print drier. 2,964,297, 12-13-60, Cl. 257-95.
- Davis, Otis L.: See—  
Enterkin, Charles R. 2,936,545.
- Davis, Paul: See—  
Bailey, Vincent R., Davis, and Decker. 2,934,821.
- Davis, Paul B., C. F. O'Neill, S. L. Slomski, and D. M. Speros, to General Electric Co. Electrode for electric discharge device. 2,957,231, 10-25-60, Cl. 29-182.5.
- Davis, Paul L.: See—  
Davis, Melvin B., Sr., and P. L. 2,947,109.
- Davis, Ralph A.: See—  
Ruh, Robert P., and Davis. 2,939,878.
- Davis, Ralph C., to The Firestone Tire & Rubber Co. Apparatus for manufacturing rubberized fabric articles. 2,929,101, 3-22-60, Cl. 18-18.
- Davis, Ralph C., to The Firestone Tire & Rubber Co. Control device for vehicle suspension. 2,947,530, 8-2-60, Cl. 267-65.
- Davis, Ralph C., to The Firestone Tire & Rubber Co. Method and apparatus for manufacturing rubberized fabric articles. 2,955,325, 10-11-60, Cl. 18-53.
- Davis, Raymond A. Outrigger mount. 2,927,754, 3-8-60, Cl. 248-40.
- Davis, Raymond C., A. L. Everitt, and J. E. Frederick, to General Motors Corp. Flexible joint. 2,930,640, 3-29-60, Cl. 287-85.
- Davis, Robert F., to Wise Potato Chip Co. Lost container switch mechanism for automatic packaging equipment. 2,949,714, 8-23-60, Cl. 53-63.
- Davis, Robert P.: See—  
Korpi, Edwin O., and Davis. 2,941,950.
- Davis, Robert P., to The Procter & Gamble Co. Deaeration and purification of anionic detergent compositions. 2,952,638, 9-13-60, Cl. 252-138.
- Davis, Roger A.: See—  
Ash, Denis J., and Davis. 2,928,339.
- Davis, Roger A., and A. R. Hewitt, to International Computers and Tabulators Ltd. Paper feeding devices. 2,934,339, 4-26-60, Cl. 271-2.4.
- Davis, Roscoe, to Thermo Auto-Matic Starter, Inc. Automatic starting mechanism for engines. 2,949,104, 8-16-60, Cl. 123-179.
- Davis, Roscoe, to Thermo Auto-Matic Starter, Inc. Automatic starting mechanism for automotive vehicles. 2,949,105, 8-16-60, Cl. 123-179.
- Davis, Ross A. Antenna systems. 2,923,813, 2-2-60, Cl. 250-20.
- Davis, Ross A. Electronic sequential antenna switch or the like. 2,927,996, 3-8-60, Cl. 250-20.
- Davis, Roy C., R. O. Cox, and J. J. Lane, to The Guiberson Corp. Drillable packer. 2,942,665, 6-28-60, Cl. 166-124.
- Davis, Roy C., and J. J. Lane, to The Guiberson Corp. Pressure responsive device. 2,963,043, 12-6-60, Cl. 137-786.
- Davis, Roy F.: See—  
Anderson, Noel M., and Davis. 2,956,584.
- Davis, Russell S.: See—  
Herrmann, John A., Davis, and Farnsworth. 2,929,044.
- Davis, Russell S., to I-T-E Circuit Breaker Co. Mounting arrangement for plug-in type panelboard. 2,942,157, 6-21-60, Cl. 317-119.
- Davis, Sadie P.: See—  
Edwards, Charles F. 2,963,892.
- Davis, Sanford, H. P. Marshall, and R. E. Davies, to Celanese Corp. of America. Unsaturated polyester preparation under reduced pressure. 2,961,430, 11-22-60, Cl. 260-75.
- Davis, Sherman G.: See—  
Berkowitz, Leonard I., and Davis. 2,957,772.
- Davis, Shirley A. Infant chair having a reclining back. 2,947,350, 8-2-60, Cl. 155-152.
- Davis, Sidney: See—  
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- Davis, Sidney A., to Eastern Air Devices, Inc. Induction generator tachometer. 2,947,933, 8-2-60, Cl. 322-47.
- Davis, Stanley L. Packages. 2,933,182, 4-19-60, Cl. 206-42.



- Davis, Stephen S., to United States of America, Navy. Flexible walled wind tunnel nozzle. 2,933,922, 4-26-60, Cl. 73-147.
- Davis, Trevor C. M. Purification of sugar esters. 2,948,716, 8-9-60, Cl. 260-234.
- Davis, Vern E.: *See*—  
Sells, Harry G. 2,924,683.
- Davis, Virgel A. Ice making machine. 2,943,461, 7-5-60, Cl. 62-354.
- Davis, Walter M.: *See*—  
Sargent, Neil A., and Davis. 2,925,127.
- Davis, Walter T., to Wheeler Stamping Co. Machine for inserting plastic nozzles in collapsible tubes. 2,940,164, 6-14-60, Cl. 29-208.
- Davis, Wilbur M. Pocket quiz game. 2,943,399, 7-5-60, Cl. 35-9.
- Davis, Wilbur M. Toy device. 2,961,796, 11-29-60, Cl. 46-236.
- Davis, Wilbur M. Toy electric railway current collector means. 2,962,563, 11-29-60, Cl. 191-45.
- Davis, Willard J., to International Business Machines Corp. Wire stripper. 2,929,083, 3-22-60, Cl. 15-4.
- Davis, William E. Tobacco harvester with automatic looping mechanism. 2,954,132, 9-27-60, Cl. 214-5.5.
- Davis, William J., to The Polymer Corp. Method of making filled polytetrafluoroethylene articles. 2,961,712, 11-29-60, Cl. 18-55.
- Davis, William T. Target device. 2,949,305, 8-16-60, Cl. 273-102.1.
- Davis, Willie T.: *See*—  
Rager, Edgar A., Davis, and Day. 2,963,119.
- Davis, Willoughby N.: *See*—  
Allan, Charles R. 2,938,567.
- Davisbilt Steel Joist Inc.: *See*—  
Davis, Augustine, Jr., and Nichols. 2,950,789.
- Davison, Joseph W.: *See*—  
Cobb, Joseph R., Jr., Davison, and Sattler. 2,938,359.
- Davison, Joseph W., to Phillips Petroleum Co. Separation of fluid mixtures. 2,933,901, 4-26-60, Cl. 62-37.
- Davison, Lester W., and F. J. Surenda, to Allis-Chalmers Mfg. Co. Clamping device for an electrical conductor. 2,944,103, 7-5-60, Cl. 174-167.
- Davison, Robert T. B., to American Machine and Metals, Inc. Transfer mechanism. 2,956,747, 10-18-60, Cl. 235-140.
- Davissom, Jacob W., F. W. Tanner, Jr., A. C. Finlay, and J. H. Kane, to Chas. Pfizer & Co., Inc. Rimocidin and methods for its recovery. 2,963,401, 12-6-60, Cl. 167-65.
- Davol Rubber Co.: *See*—  
Buyers, Robert A. 2,930,378.  
Gants, William A. 2,936,760.
- Davoll, John, and D. H. Laney, to Parke, Davis & Co. Chlorobenzimidazolone compounds. 2,927,116, 3-1-60, Cl. 260-309.2.
- Davy, John C., and V. E. Bateman, to International Computers and Tabulators Ltd. Apparatus for sensing records. 2,944,156, 7-5-60, Cl. 250-219.
- Davy, Robert E. Merchandising mart. 2,957,548, 10-25-60, Cl. 186-1.
- Davy and United Engineering Co. Ltd.: *See*—  
Norton, Stephen L. 2,960,064.  
Russell, Robert G., and Bloomfield. 2,941,744.  
Shimeld, Tom A. G. 2,940,612.
- Dawe, Garfield A., E. F. Ewen, and P. H. Sherrick, to E. H. Sargent & Co. Measuring and recording instrument servo-system. 2,931,964, 4-5-60, Cl. 318-28.
- Dawes, Chester L.: *See*—  
Povey, Edmund H., and Dawes. 2,922,952.
- Dawes Laboratories, Inc.: *See*—  
Goldsmith, Louis, Murtaugh, Wenck, and Ward. 2,926,122.  
Murtaugh, Justin J., and Mahieu. 2,949,389.
- Dawes, Stanley G.: *See*—  
Goulet, Jules H., Dawes, and Smith. 2,943,422.
- Dawkins, Colin C., II: *See*—  
Dawkins, Mildred C., and C. C. 2,962,299.
- Dawkins, John E., to Collins Radio Co. Multiturn cable connection. 2,955,271, 10-4-60, Cl. 339-2.
- Dawkins, Joseph D.: *See*—  
Hunt, James A. 2,941,746.
- Dawkins, Kenneth, to Franklin Mfg. Co. Battery testing. 2,951,199, 8-30-60, Cl. 324-29.5.
- Dawkins, Kenneth, and W. C. James, to Franklin Mfg. Co., Inc. Automatic safety-belt sign. 2,924,817, 2-9-60, Cl. 340-377.
- Dawkins, Mildred C., and C. C. Dawkins, II. Luggage carriage. 2,962,299, 11-29-60, Cl. 280-179.
- Dawley, Clarence E., to Westinghouse Electric Corp. Combination light source with integral voltage converting means. 2,928,024, 3-8-60, Cl. 315-51.
- Daws, Charles R. Direction signal circuit. 2,957,161, 10-18-60, Cl. 340-73.
- Dawson, Benjamin F., Jr. Pipe mold and ejector. 2,948,044, 8-9-60, Cl. 25-120.
- Dawson, Horace. Method of securing a button to a fabric by means of a thermoplastic pin. 2,935,434, 5-3-60, Cl. 154-118.
- Dawson, John W.: *See*—  
Westheimer, Frank H., and Dawson. 2,942,965.
- Dawson, Lester K., to Lukens Steel Co. Process of circumferentially welding steel pipe. 2,943,387, 7-5-60, Cl. 29-471.1.
- Dawson, Norman D.: *See*—  
Slager, James E., and Dawson. 2,960,452.
- Dawson, Sylvan L., to Collins Radio Co. R.F. amplifier. 2,934,711, 4-26-60, Cl. 330-87.
- Dawson, Timothy L., to Imperial Chemical Industries Ltd. New colouring process. 2,955,900, 10-11-60, Cl. 8-31.
- Dawson, Thomas P., and J. Chernack, to United States of America, Army. Process for the manufacture of methyl dichloro phosphine oxide. 2,929,843, 3-22-60, Cl. 260-543.
- Dawson, Thomas P., and W. E. Catlin, to United States of America, Army. Preparation of methyl ester of methyl phosphonic acid and its condensation to pyromethyl phosphonic acid. 2,951,863, 9-6-60, Cl. 260-461.
- Dawson-Vogel Engineering Co.: *See*—  
Vogel, Arthur E. 2,934,354.  
Vogel, Arthur E. 2,960,349.
- Dawson, William H., Jr., to Curtiss-Wright Corp. Simulated carburetor air temperature system for aircraft training apparatus. 2,947,089, 8-2-60, Cl. 35-12.
- Day, Albert V. T. Ellipsographs. 2,933,813, 4-26-60, Cl. 33-23.
- Day-Brite Lighting, Inc.: *See*—  
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Stahlhut, Leo G., and Garnett. 2,961,530.
- Day, Charles A. Instant tire chain assembly. 2,923,341, 2-2-60, Cl. 152-233.
- Day, Dewey D., to The Murray Co. of Texas, Inc. Cotton cleaning apparatus. 2,948,022, 8-9-60, Cl. 19-72.
- Day, Dewey D., to The Murray Co. of Texas, Inc. Automatic control for gin fronts. 2,962,769, 12-6-60, Cl. 19-55.
- Day, Franklin F.: *See*—  
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- Day, George D. Heated shell drum dryers. 2,932,091, 4-12-60, Cl. 34-124.
- Day, Harry E., to Delta Welder Corp. Door clinching device. 2,959,205, 11-8-60, Cl. 153-15.
- Day, Harry E., to Delta Welder Corp. Die section swing out mechanism. 2,966,194, 12-27-60, Cl. 153-15.
- Day, Harold R., Jr., to General Electric Co. Method for recording television pictures on motion picture film. 2,928,895, 3-15-60, Cl. 178-7.4.
- Day, Harold R., Jr., to General Electric Co. Information storage method and apparatus. 2,951,899, 9-6-60, Cl. 178-6.8.
- Day, Harold R., Jr., and P. Wargo, to General Electric Co. Target electrode assembly. 2,922,906, 1-26-60, Cl. 313-65.
- Day, James M.: *See*—  
Stoops, Charles E., and Day. 2,954,334.
- Day, James R. Frequency modulation receiver. 2,927,997, 3-8-60, Cl. 250-20.
- Day, John C., to American Steel Foundries. Excavating tooth point retaining device. 2,927,386, 3-8-60, Cl. 37-142.
- Day, John H.: *See*—  
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- Day, John T., to Merck & Co., Inc. Production of  $\Delta^4$ -3,20-diketopregnadienes from the corresponding semicarbazones. 2,932,656, 4-12-60, Cl. 260-397.45.
- Day, Kelly B., Jr.: *See*—  
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- Day, Maurice J., to Crucible Steel Co. of America. Production of infiltrated composites. 2,946,700, 7-26-60, Cl. 117-66.
- Day, Nancy E.: *See*—  
Buckler, Sheldon A., and Day. 2,927,945.  
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Groszos, Stephen J., and Day. 2,957,840.
- Day-Ray Products, Inc.: *See*—  
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Roney, Raymond B., and Massie. 2,961,579.
- Day, Richard A., to Hughes Aircraft Co. Pulse width shaping circuit. 2,946,899, 7-26-60, Cl. 307-88.5.
- Day, Richard A., to Hughes Aircraft Co. Voltage comparing circuit. 2,956,177, 10-11-60, Cl. 307-88.5.
- Day, Richard A., Jr., and R. E. White, to British Telecommunications Research Ltd. Teleprinter apparatus. 2,961,490, 11-22-60, Cl. 178-69.
- Day, Robert G. Computing device. 2,965,980, 12-27-60, Cl. 35-31.
- Day, Winton U.: *See*—  
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- Dayco Corp.: *See*—  
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- Daykin, Donald R.: *See*—  
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- Daykin, Theodore W., F. R. Reitz, and A. J. Thibodeau, to Ford Motor Co. Bearing. 2,964,363, 12-13-60, Cl. 308-121.
- Dayonnet, Francois J. D., and P. F. M. Gloess. Apparatus for simultaneous reading of a plurality of curves. 2,932,016, 4-5-60, Cl. 340-345.



- Daystrom Inc.: See—  
 Beeh, Roland C. 2,963,585.  
 Bing, Charles W. 2,948,162.  
 Bianco, Elias. 2,954,539.  
 Blosser, Dwight W. 2,930,527.  
 Dunn, John F. 2,930,281.  
 Erbguth, Paul F. K. 2,921,595.  
 Erbguth, Paul F. K. 2,947,553.  
 Erbguth, Paul F. K., and Van Pelt. 2,921,596.  
 Erbguth, Paul F. K., and Van Pelt. 2,929,392.  
 Estoppey, Royden F. 2,962,660.  
 Fassack, John, Jr., and Roy. 2,957,956.  
 Gilbert, Roswell W. 2,930,973.  
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 Gilbert, Roswell W. 2,950,438.  
 Gilbert, Roswell W. 2,953,747.  
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 Gilbert, Roswell W. 2,959,689.  
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 Kwast, Victor B. 2,958,038.  
 Lamb, Francis X. 2,957,599.  
 Langford, Robert C. 2,962,685.  
 Langford, Robert C., and Van Pelt. 2,953,148.  
 Lovegrove, Henry J. 2,950,423.  
 Miller, John H. 2,922,110.  
 Morelock, Oliver J. 2,926,302.  
 Nagy, John, Jr. 2,940,043.  
 Nygaard, Herman. 2,940,753.  
 Pignone, Joseph. 2,934,735.  
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 Schake, Richard P. 2,958,041.  
 Stegner, Charles B. 2,926,306.  
 Trexler, Robert C. 2,962,658.  
 Zimmer, Charles B. 2,936,374.  
 Dayton, Benjamin B., to Consolidated Vacuum Corp. Liquid seals. 2,942,615, 6-28-60, Cl. 137-248.  
 Dayton Bright Copper Co.: See—  
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 Dayton, Edward R., to Sperry Rand Corp. Pictorial deviation indicator. 2,946,053, 7-19-60, Cl. 343-108.  
 Dayton, Edward R., G. J. Cypher, and A. E. Mayer, to Sperry Rand Corp. Navigation instrument. 2,934,743, 4-26-60, Cl. 340-27.  
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 Dayton, Theodore S. and G. V. 2,926,020.  
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 Dayton, Theodore S. and G. V., to Pacific Tool and Mfg. Co. Honing attachment for drill press. 2,925,690, 2-23-60, Cl. 51-34.  
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 Dazzi, Joachim, to Monsanto Chemical Co. Olefinically unsaturated adduct and method of preparing same. 2,938,044, 5-24-60, Cl. 260-404.8.  
 Dazzi, Joachim, to Monsanto Chemical Co. Polyvinyl chloride plastisol containing an alkylbiphenyl and alkyl ester of dicarboxylic acid. 2,945,832, 7-19-60, Cl. 260-31.8.  
 Dazzi, Joachim, to Monsanto Chemical Co. Electrical devices. 2,945,994, 7-19-60, Cl. 317-258.  
 Dazzi, Joachim, to Monsanto Chemical Co. Resinous composition comprising polyvinyl chloride plasticized with adducts of tetrahydrophthalate and endomethylenetetrahydrophthalate esters with fumarate esters. 2,949,433, 8-16-60, Cl. 260-31.8.  
 Dazzi, Joachim, to Monsanto Chemical Co. Dihydropyran compounds. 2,949,473, 8-16-60, Cl. 260-345.8.  
 Dazzi, Joachim, to Monsanto Chemical Co. Resinous composition comprising polyvinyl chloride plasticized with a polycarboxylate. 2,957,841, 10-25-60, Cl. 260-31.8.  
 Dazzi, Joachim, to Monsanto Chemical Co. Composition comprising a vinyl chloride polymer plasticized with a mixture of chlorinated N,N-dialkylstearamides. 2,957,842, 10-25-60, Cl. 260-32.6.  
 Dazzi, Joachim, to Monsanto Chemical Co. Vinyl chloride resins plasticized with amides. 2,965,591, 12-20-60, Cl. 260-23.  
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 Deacon, Frederick S., and R. W. Wheeler, Jr., to Congoleum-Nairn Inc. Method of producing printed surface covering and printing enamel therefor. 2,950,988, 8-30-60, Cl. 117-38.  
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 Deakin, Stanley T., to Siemens Edison Swan Ltd. Manufacture of synthetic plastic material. 2,928,134, 3-15-60, Cl. 18-55.  
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 Deakins, Thomas A.: See—  
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 Deakins, Thomas A., J. A. Lasater, and S. C. Northington, Jr., to Combustion Engineering, Inc. Automatic weighing and pouring of molten metal into pairs of foundry molds. 2,922,205, 1-26-60, Cl. 22-82.  
 Deakins, Thomas A., J. A. Lasater, and S. C. Northington, Jr., to Combustion Engineering, Inc. Cope-to-drag clamping facilities for mold assembling installation. 2,942,312, 6-28-60, Cl. 22-31.  
 Deakins, Thomas A., J. A. Lasater, and S. C. Northington, Jr., to Combustion Engineering, Inc. Mechanized facilities for producing and assembling foundry molds of alternately differing types. 2,956,316, 10-18-60, Cl. 22-20.  
 Deakins, Thomas A., J. A. Lasater, and S. C. Northington, Jr., to Combustion Engineering, Inc. Mold elevating and cope stripping and drag turnover facilities for mold assembling installation. 2,956,319, 10-18-60, Cl. 22-34.  
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 Dean, Frank A., R. T. Ellis, and T. W. Sheppard, to United States of America, Navy. Alternator frequency control. 2,955,210, 10-4-60, Cl. 290-40.  
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 Dean, Lloyd G., and C. W. McCutchen, to The Dow Chemical Co. Electrolytic production of magnesium metal. 2,950,236, 8-23-60, Cl. 204-70.  
 Dean, Lura C. Automobile hat holder. 2,923,412, 2-2-60, Cl. 211-30.  
 Dean, Reginald I. R. Mounting means for hard and soft components to prevent relative rotary movement. 2,955,856, 10-11-60, Cl. 287-119.  
 Dean, Reginald S., to Chicago Development Corp. Electrical circuits for metal refining cells. 2,920,027, 1-5-60, Cl. 204-218.  
 Dean, Reginald S., to Chicago Development Corp. Compounds of zirconium and methods of preparing same. 2,941,931, 6-21-60, Cl. 204-61.  
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- Dean, Reginald S., and F. X. McCawley, to Chicago Development Corp. Pure chromium. 2,951,794, 9-6-60, Cl. 204-35.
- Dean, Robert B.: See—  
Halpern, Benjamin D., and Dean. 2,958,594.
- Dean, Robert C., Jr., to Ingersoll-Rand Co. Percussively operated tool. 2,951,706, 9-6-60, Cl. 279-19.5.
- Dean, Stanley, to Commissariat à l'Energie Atomique. Remote control device. 2,966,273, 12-27-60, Cl. 214-1.
- Dean, Thomas L.,  $\frac{1}{2}$  to Gadget-Of-The-Month Club, Inc. Can tear strip removers. 2,954,142, 9-27-60, Cl. 220-52.
- Dean, Walter B., and H. P. Bauer, to The Budd Co. Under-frame structure for railway cars. 2,946,297, 7-26-60, Cl. 105-397.
- Dean, William C., to Gulf Research & Development Co. Electrical filter circuits. 2,942,195, 6-21-60, Cl. 328-138.
- Dean, William C., to Gulf Research & Development Co. Electrical transient analyzer. 2,963,647, 12-6-60, Cl. 324-77.
- Dean, William C., and M. E. Taylor, to Gulf Research & Development Co. Automatically tuned notch filter. 2,964,712, 12-13-60, Cl. 330-124.
- Dean, William M., and V. B. Easley. Fuel injection pump. 2,960,936, 11-22-60, Cl. 103-38.
- Deane, Earl C. Locking fixture for cabinet doors. 2,924,476, 2-9-60, Cl. 292-209.
- De Angelis, Angelo C., and H. E. Butterfield, Jr., to Dynamics Corp. of America. Beater release means for electric mixers. 2,931,632, 4-5-60, Cl. 259-1.
- De Angelis, Angelo C., and H. E. Butterfield, Jr., to Dynamics Corp. of America. Electric motor mounting means. 2,931,926, 4-5-60, Cl. 310-50.
- De Angelis, Angelo C., and H. E. Butterfield, Jr., to Dynamics Corp. of America. Knife sharpener attachment. 2,949,709, 8-23-60, Cl. 51-128.
- De Angelis, Armand, to American Optical Co. Ophthalmic mountings. 2,926,381, 3-1-60, Cl. 16-140.
- De Angelis, Michael J. Automobile litter device. 2,966,290, 12-27-60, Cl. 224-29.
- De Angelo, Michael. System of producing and reproducing sound motion pictures. 2,961,919, 11-29-60, Cl. 88-16.2.
- De Angelus, Millet R.: See—  
Dersch, Fritz, and De Angelus. 2,919,985.  
Dersch, Fritz, and De Angelus. 2,939,789.  
Dersch, Fritz, and De Angelus. 2,948,615.  
Dersch, Fritz, and De Angelus. 2,952,539.  
Dersch, Fritz, and De Angelus. 2,955,036.
- De Angelus, Millet R., and F. Dersch, to General Aniline & Film Corp. Photographic materials and method of producing the same. 2,948,612, 8-9-60, Cl. 96-66.
- Deanin, Rudolph D., and R. G. Dell, to Allied Chemical Corp. Process for polymerizing vinyl chloride. 2,951,062, 8-30-60, Cl. 260-87.1.
- Deans, William, to I-T-E Circuit Breaker Co. Separate housing for coordinated circuit breaker current limiting device. 2,939,936, 6-7-60, Cl. 200-133.
- Dear, Alexander T. C., and K. L. Merther, to Lewin Road Sweepers Ltd. Road sweeping machines. 2,960,708, 11-22-60, Cl. 15-87.
- Dear, John C., R. G. Owens, and R. A. Gulley, to Olin Mathieson Chemical Corp. Ammunition. 2,919,647, 1-5-60, Cl. 102-42.
- Dearborn Co., The: See—  
Margolic, Arthur L. 2,942,639.
- Dearborn Chemical Co.: See—  
Denman, Wayne L. 2,956,889.
- Dearborn Electronic Laboratories of Delaware, Inc.: See—  
Simpson, Raymond J., and Naven. 2,958,720.
- Dearborn Fabricating & Engineering Co.: See—  
Daigle, Leo T. 2,931,315.
- Dearborn, Howard K. Camera stabilizer. 2,945,428, 7-19-60, Cl. 95-86.
- Dearden, Jack, to Welwyn Electrical Laboratories Ltd. Electrical resistors. 2,920,005, 1-5-60, Cl. 117-229.
- Dearden, Ziba T., to International Business Machines Corp. Inverter circuit. 2,951,953, 9-6-60, Cl. 307-88.5.
- Dearing, Clarence W., and H. A. Stone, to American Flange & Mfg. Co., Inc. Container and closures therefor. 2,960,954, 11-22-60, Cl. 113-121.
- De Armond, Harry. Musical instrument. 2,920,522, 1-12-60, Cl. 84-1.16.
- Dearsley, George, to American Machine & Foundry Co. Casein paster gate improvements. 2,929,352, 3-22-60, Cl. 118-261.
- Dearsley, George, to American Machine & Foundry Co. Cigarette machine. 2,932,300, 4-12-60, Cl. 131-110.
- Dearsley, George, to American Machine & Foundry Co. Cigarette turning device. 2,953,235, 9-20-60, Cl. 198-33.
- Dearsley, George, and T. I. Erstad, to American Machine & Foundry Co. Roller belt conveyor for mouthpiece cigarette assemblies. 2,944,659, 7-12-60, Cl. 198-183.
- Deau, William J.: See—  
Stevens, Donald E., and Deau. 2,936,597.
- Deaver, George L. Method and apparatus for separating particles in a fluid dispersion. 2,928,591, 3-15-60, Cl. 233-2.
- De Back, William, and S. Puccinelli, to Food Machinery and Chemical Corp. Fruit preparation machine. 2,940,493, 6-14-60, Cl. 146-43.
- De Backer, Lucien P. A., to Radio Corp. of America. Ruggedized electron tube. 2,937,305, 5-17-60, Cl. 313-247.
- De Bardeleben, William C., Jr. Interlocking box partition. 2,961,114, 11-22-60, Cl. 217-22.
- De Bardeleben Coal Corp.: See—  
Newell, Alfred T., Jr., and Epps. 2,938,449.
- De Baun, John E. Fountain pens. 2,922,395, 1-26-60, Cl. 120-42.01.
- De Beek, Gerd W. Ellipsograph. 2,925,655, 2-23-60, Cl. 33-31.
- De Beer, Edwin J., to Burroughs Wellcome & Co. (U.S.A.) Inc. Method of treating febrile convulsions. 2,955,073, 10-4-60, Cl. 167-65.
- De Beers Consolidated Mines Ltd.: See—  
Custers, Jan F. H., Dyer, and Wedepohl. 2,931,351.
- De Beers, Franklin M., Jr., to Enterprise Paint Mfg. Co. Protective coating. 2,923,431, 2-2-60, Cl. 220-64.
- De Bell, George W., to The Sandy Hill Iron and Brass Works. Reel apparatus. 2,920,836, 1-12-60, Cl. 242-65.
- De Bell, John M., Jr., to Allen B. Du Mont Laboratories, Inc. Ultra-high frequency heating apparatus. 2,937,259, 5-17-60, Cl. 219-10.55.
- De Benedictis, Aldo, to Shell Oil Co. Process for preparing allyl esters of carboxylic acids. 2,939,879, 6-7-60, Cl. 260-475.
- De Bennetot, Michel, to Compagnie Generale de Telegraphie Sans Fil. Permanent magnets. 2,936,408, 5-10-60, Cl. 317-201.
- De Benneville, Peter L., and C. S. Hollander, to Rohm & Haas Co. Aminoacetamidoximes. 2,947,782, 8-2-60, Cl. 260-551.
- De Blaere, William H., to Bloomer Bros. Co. Collapsible carton. 2,936,104, 5-10-60, Cl. 229-51.
- De Blasio, Conrad G. Direct current power source. Re. 24,800, 3-22-60, Cl. 323-22.
- De Blasio, Conrad G. Dual-tube modulator and associated frequency-modulated crystal oscillator circuit therefor. 2,962,672, 11-29-60, Cl. 332-28.
- De Blasio, James J., H. Podsiadlo, and A. Sansone. Safety oil tank. 2,944,563, 7-12-60, Cl. 137-312.
- Debner, Sandy A., and W. R. Francis, to General Electric Co. Double-ended cord holder. 2,942,314, 6-28-60, Cl. 24-129.
- Debo, Arno, to Joh. A. Benckiser, G.m.b.H. Chemische Fabrik. Citric acid esters and process of producing same. 2,931,827, 4-5-60, Cl. 260-461.
- Debo, Arno, to Joh. A. Benckiser G.m.b.H. Chemische Fabrik. N-substituted di-imido triphosphoric acid esters, and a process of making same. 2,942,020, 6-21-60, Cl. 260-461.
- Debo, Arno, to Joh. A. Benckiser, G.m.b.H. Chemische Fabrik. Method of producing phosphoric acid and thiophosphoric acid derivatives. 2,944,075, 7-5-60, Cl. 260-461.
- Debo, Arno, to Firma Joh. A. Benckiser G.m.b.H. Chemische Fabrik. Diamino-N,N,N',N'-tetrakis-phosphoric acid derivatives. 2,951,088, 8-30-60, Cl. 260-461.
- Debo, Arno, to Firma Benckisen, Joh. A., G.m.b.H. Chemische Fabrik. Method of producing N-substituted derivatives of imidodi-phosphoric and thiophosphoric acids. 2,965,666, 12-20-60, Cl. 260-461.
- De Boer, Clarence, A. Dietz, and H. Hoeksema, to The Upjohn Co. Celesticetin, its salts and method of preparation. 2,928,844, 3-15-60, Cl. 260-326.3.
- De Boer, Frank E.: See—  
Cropper, Wendell P., and De Boer. 2,939,313.
- De Boer, Petrus A. Automatic phonograph tripping mechanism. 2,965,377, 12-20-60, Cl. 274-15.
- De Boice, William F.: See—  
Pentecost, Eugene E., and De Boice. 2,954,532.
- De Bona, Paul, to Biro Filis. Fire extinguishing composition. 2,964,468, 12-13-60, Cl. 252-7.
- De Boo, Jerome L., to Teletype Corp. Printing telegraph tape perforator. 2,938,583, 5-31-60, Cl. 164-111.
- De Bourdeau, Paul. Blades of saws. 2,946,359, 7-26-60, Cl. 143-133.
- Debrey, Michael. Preset-voltage contact-making relay. 2,922,006, 1-19-60, Cl. 200-94.
- Debrie, André V. L. C. Arrangement for printing color films. 2,938,447, 5-31-60, Cl. 95-75.
- De Brock, George, to Color Carousel Corp. Automatic paint pigment proportioning and dispensing machine. 2,951,617, 9-6-60, Cl. 222-70.
- De Brosse, Kenneth L., and W. J. Williams, to International Telephone and Telegraph Corp. Display centering apparatus. 2,931,940, 4-5-60, Cl. 315-22.
- De Bruyn, August W., to North American Philips Co., Inc. Apparatus for adjusting the striking pin of a maltose cross mechanism. 2,919,595, 1-5-60, Cl. 74-395.
- De Bruyn, Johannes W., to North American Philips Co., Inc. Magnetic device for sound reproducing means. 2,951,913, 9-6-60, Cl. 179-100.2.
- Debs, Jerome H., to Chicago Metallic Mfg. Co. Baking pan assembly. 2,938,649, 5-31-60, Cl. 220-72.
- Debs, Victor, to American Machine & Foundry Co. Band saw guide and cleaner. 2,964,076, 12-13-60, Cl. 143-158.
- De Buigne, Frank, to La Salle Tool, Inc. Indexing table. 2,922,505, 1-26-60, Cl. 192-139.
- De Buigne, Frank, to La Salle Tool, Inc. Apparatus for controlling the machining of parts to predetermined weights. 2,962,938, 12-6-60, Cl. 90-11.
- Debus, Allen G., to Abbott Laboratories. Esterification of organic acids. 2,935,525, 5-3-60, Cl. 260-472.
- Debus, Karl. Type casting machines. 2,939,573, 6-7-60, Cl. 199-60.
- Debus, Karl, to Linotype G.m.b.H. Knife block for stereo- and linotype casting machines. 2,961,089, 11-22-60, Cl. 199-59.
- De Capite, Richard J. Portable stereophonic sound system. 2,923,370, 2-2-60, Cl. 181-31.



- De Caro, Charles J.: *See—*  
Kopf, Rowland J., and De Caro. 2,925,602.
- De Caro, Charles J., to Olin Mathieson Chemical Corp. Explosively actuated driving. 2,920,563, 1-12-60, Cl. 102-38.
- De Caro, Charles J., to Olin Mathieson Chemical Corp. Explosively actuated fastener. 2,960,902, 11-22-60, Cl. 85-36.
- De Carvalho, Fabio T. Electric devices for luminous advertising. 2,921,237, 1-12-60, Cl. 315-316.
- De Cat, Arthur H., and R. K. Van Poucke, to Gevaert Photo-Producten N.V. Color couplers for color photography. 2,950,314, 8-23-60, Cl. 260-507.
- Decca Record Co. Ltd., The: *See—*  
Barnett, Arthur A. C., Warner, and Knowles. 2,944,238.  
Bohm, Otto M., and Barrett. 2,965,899.  
Easby, Maurice H. 2,945,223.  
Easby, Maurice H. 2,952,017.  
Holden, Alfred T. 2,945,226.  
Howell, Ronald T. A., and Young. 2,944,231.  
Leake, Bernard W. 2,923,896.  
Matthews, Robert, and Kirk. 2,965,849.  
Parker, Eric. 2,929,059.  
Parker, Eric. 2,944,255.
- De Cenzo, Herbert A., to On Mark Couplings, Inc. Flexible pipe coupling for beaded conduits having a plurality of pivotal back-up elements. 2,956,820, 10-18-60, Cl. 285-105.
- De Changy, Gilbert, to Electricite de France-Service National-Direction des Etudes et Recherches. Shifting device of rotatably driven output members in a calculating machine. 2,929,257, 3-22-60, Cl. 74-337.5.
- De Changy, Gilbert, to Electricite de France-Service National-Direction des Etudes et Recherches. Transfer system for calculating machine. 2,953,301, 9-20-60, Cl. 235-138.
- De Chellis, Italo V.: *See—*  
Carl, Paul R., and De Chellis. 2,940,922.
- De Chellis, Italo V., to Socony Mobil Oil Co., Inc. Liquid heat transfer of naphtha feed to a reforming zone. 2,937,131, 5-17-60, Cl. 208-48.
- De Chellis, Italo V., to Socony Mobil Oil Co., Inc. Method of increasing the on-stream time of heat transfer units. 2,941,937, 6-21-60, Cl. 208-85.
- De Cicco, Michael A., and E. W. Jerger. Air conditioner for automobiles. 2,953,907, 9-27-60, Cl. 62-148.
- Deckel, Friedrich W.: *See—*  
Muller, Hanns. 2,932,090.  
Zwick, Kurt. 2,929,300.  
Zwick, Kurt. 2,931,464.  
Zwick, Kurt, and Rossberger. 2,933,985.  
Zwick, Kurt, and Wolfbauer. 2,957,392.
- Deckel, Friedrich W., Dipl.-Ing.: *See—*  
Müller, Johann. 2,930,166.
- Deckel, Hans: *See—*  
Muller, Hanns. 2,932,090.  
Zwick, Kurt. 2,929,300.  
Zwick, Kurt. 2,931,464.  
Zwick, Kurt, and Rossberger. 2,933,985.  
Zwick, Kurt, and Wolfbauer. 2,957,392.
- Deckel, Hans, Dr.-Ing.: *See—*  
Müller, Johann. 2,930,166.
- Decker, Edmond L., to R. W. Keiser. Means for transferring shipping containers. 2,926,797, 3-1-60, Cl. 214-38.
- Decker, Edward W., W. J. Keller, A. J. Killaren, and A. J. Mueller, to Keller Mfg. Co., Inc. Display stand. 2,921,694, 1-19-60, Cl. 211-148.
- Decker, Elmer L.: *See—*  
Willis, Robert S. 2,927,603.
- Decker, Herbert M., L. M. Buchanan, and R. Porter, to United States of America, Army. Incubating slit sampler. 2,959,523, 11-8-60, Cl. 195-139.
- Decker, James L., and C. J. Koch, to The Martin Co. Aircraft configuration. 2,920,842, 1-12-60, Cl. 244-13.
- Decker, Johannes B., to Klöckner-Humboldt-Deutz Aktiengesellschaft. Briquetting roller press. 2,958,903, 11-8-60, Cl. 18-21.
- Decker, Johannes B., H. Meder, and K. Müller, to Klöckner-Humboldt-Deutz Aktiengesellschaft. Roller briquetting press for the briquetting of ore, coal or similar materials. 2,945,259, 7-19-60, Cl. 18-21.
- Decker, Johannes B., H. Meder, and M. W. Jakobs, to Klöckner-Humboldt-Deutz Aktiengesellschaft. Roller press for the briquetting of ore, coal or similar materials. 2,958,902, 11-8-60, Cl. 18-21.
- Decker, Maurice S., Jr.: *See—*  
Hill, Joseph F., Schuman, Denise, and Decker. 2,937,893.
- Decker, Norman H.: *See—*  
Gerbitz, Clarence G., and Decker. 2,950,439.
- Decker, Raphael: *See—*  
Bailey, Vincent R., Davis, and Decker. 2,934,821.
- Decker, Richard O., to Westinghouse Electric Corp. Magnetic amplifier system. 2,962,653, 11-29-60, Cl. 323-89.
- Decker, Richard O., and W. Leonhard, to Westinghouse Electric Corp. Current limiting in the windings of electromagnetic devices. 2,937,321, 5-17-60, Cl. 317-156.
- Decker, Richard O., and W. G. Hall, to Westinghouse Electric Corp. Pulse width modulator and amplifier. 2,962,602, 11-29-60, Cl. 307-88.
- Decker, Robert H., and W. R. Harter, to Avco Mfg. Corp. Tuner assembly. 2,922,043, 1-19-60, Cl. 250-40.
- Decker, William H., to Sinclair Refining Co. Catalytic reforming of straight-run or cracked naphtha fractions in the presence of added hydrogen in a multiple reactor fixed-bed system. 2,943,998, 7-5-60, Cl. 208-65.
- Decker, William H., to Sinclair Refining Co. Combustion calculator. 2,959,346, 11-8-60, Cl. 235-61.
- Decker, William H., R. J. Rieck, and L. H. Bennett, to Maxant Button and Supply Co. Fabric-covered garment-button assembling device. 2,943,520, 7-5-60, Cl. 79-5.
- Deckers, Joseph. Apparatus for the simultaneous manufacture and filling of packages. 2,958,171, 11-1-60, Cl. 53-140.
- De Claire, Alton G., Jr.: *See—*  
Cameron, Donald J., and De Claire. 2,957,682.  
Smith, John E., Fleming, De Claire, and Stroh. 2,953,167.
- De Claire, Alton G., Jr., to Holley Carburetor Co. Fuel metering and pumping device. 2,954,147, 9-27-60, Cl. 222-250.
- De Claire, Alton G., Jr., to Holley Carburetor Co. Liquid fuel metering device. 2,965,090, 12-20-60, Cl. 123-179.
- De Claire, Alton G., Jr., to Holley Carburetor Co. Fuel metering and pumping system for fuel injection. 2,965,092, 12-20-60, Cl. 123-179.
- De Claire, Alton G., Jr., and D. J. Cameron, to Holley Carburetor Co. Fuel control for an internal combustion engine. 2,940,436, 6-14-60, Cl. 123-179.
- De Clerk, Joseph L., and F. V. De Raffe. Illuminated level. 2,922,874, 1-26-60, Cl. 240-644.
- De Cola, Rinaldo E., and A. F. Augustine, to Admiral Corp. Cathode ray tubes. 2,966,603, 12-27-60, Cl. 313-92.
- De Cola, Thomas F.: *See—*  
Dumaine, Wildon D. 2,939,586.
- Decorated Metal Mfg. Co., Inc.: *See—*  
Atwood, Rawson, and L'Allemand. 2,953,317.
- Decroly, Claude, D. Tytgat, and J. Gerard, to Centre d'Etudes pour les Applications de l'Energie Nucleaire. Apparatus for treating fluorides by sublimation. 2,929,691, 3-22-60, Cl. 23-273.
- De Csaby, Laszlo, to Norma Pencil Corp. Magazine pencils. 2,926,630, 3-1-60, Cl. 120-1.
- Dede, Giuseppe. Tractor propelled power driven rotary cultivating device. 2,935,139, 5-3-60, Cl. 172-60.
- Dedert, William G.: *See—*  
Bennett, Richard C., and Dedert. 2,929,690.
- De Domenico, Giovan-Battista R.: *See—*  
De Domenico, Michelangelo and G. R. 2,965,436.
- De Domenico, Michelangelo and G. R., to Toulmin and Toulmin. Process for improving the wet strength of products obtained from cellulosic pulp. 2,965,436, 12-20-60, Cl. 8-116.3.
- De Dube, Bert P. Thumb index for books and similar articles. 2,951,712, 9-6-60, Cl. 283-42.
- Dee, Alfred G., to Dynamics Corp. of America. Portable telephone-control unit. 2,924,670, 2-9-60, Cl. 179-146.
- Deebel, George F., to Monsanto Chemical Co. Propylamine fungicides. 2,953,490, 9-20-60, Cl. 167-30.
- Deeco Inc.: *See—*  
Werner, Siegmund. 2,922,169.
- Deeken, Carl L., to Electric Eye Equipment Co. Steering roll construction. 2,940,752, 6-14-60, Cl. 271-2.6.
- Deems, Frank E., and J. E. Salmon, to Continental Gin Co. Triple moting gin. 2,949,644, 8-23-60, Cl. 19-58.
- Deer, Leon L., to United States of America, Navy. Process for masking printed circuits before plating. 2,934,479, 4-26-60, Cl. 204-15.
- Deere & Co.: *See—*  
Anderson, Sidney E. 2,946,170.  
Berk, Martin A. 2,927,740.  
Browning, Edgar P. 2,935,883.  
Cantral, John I. 2,960,170.  
Cox, Robert E., and Sullivan. 2,943,688.  
Doerfer, Richard E., and Rugen. 2,959,073.  
Du Shane, Wallace H. 2,920,705.  
Du Shane, Wallace H. 2,961,638.  
Du Shane, Wallace H. 2,940,530.  
Du Shane, Wallace H., and Kienzie. 2,924,285.  
Du Shane, Wallace H., and Kienzie. 2,935,145.  
Edman, John H. 2,920,500.  
Edman, John H., Artus, and Johnson. 2,935,147.  
Ethington, Lloyd D., and Kao. 2,930,633.  
Forth, Murray W. 2,962,818.  
French, John L. 2,950,550.  
Gustafson, Blaine W. Re. 24,825.  
Gustafson, Blaine W., and Breed. 2,957,299.  
Hadley, Howard C. 2,961,818.  
Hadley, Howard C. 2,961,820.  
Hall, Daniel L. 2,935,890.  
Hansen, Harold V. 2,946,490.  
Hansen, Harold V. 2,962,103.  
Harrington, Roy E., and Silverberg. 2,927,652.  
Harrington, Roy E., and Silverberg. 2,936,818.  
Harris, Kenneth J. 2,939,344.  
Hendrix, John W. 2,950,737.  
Hess, Christian H. 2,920,912.  
Hippen, Herman A. 2,926,553.  
Hubbard, Arthur L. 2,930,177.  
Hubbard, Arthur L. 2,955,881.  
Hunter, George D. 2,960,346.  
Hyland, William A., and Schnell. 2,953,999.  
Hyland, William A., and Welck. 2,943,692.  
Hyland, William A., and Welck. 2,955,833.  
Hyland, William A., and Welck. 2,955,848.



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- Immesoete, Arthur J. 2,935,036.  
 Immesoete, Arthur J. 2,950,845.  
 Immesoete, Arthur J. 2,956,629.  
 Johnson, Ellsworth T. 2,924,466.  
 Johnson, Ellsworth T., and Dotson. 2,930,246.  
 Jones, Frank D. 2,927,414.  
 Jones, Frank D. 2,934,879.  
 Jones, Frank D. 2,959,272.  
 Jones, Frank D. 2,960,813.  
 Lindeman, Jesse G. 2,938,285.  
 Mack, Michael J., Fletcher, and Harvey. 2,953,935.  
 Martens, Maurice J. 2,957,698.  
 McCause, James E., and Van Auwelaer. 2,946,373.  
 McClellan, Marcus E. 2,926,599.  
 McLeod, Paul W. 2,924,189.  
 Mihal, Gust J., and McCaw. 2,962,107.  
 Morrison, Charles S., and Silverberg. 2,932,341.  
 Morrison, Charles S., and Silverberg. 2,954,071.  
 Myers, Glenn L. 2,924,054.  
 Nelson, Roger J. 2,946,392.  
 Oehler, William P., and Youngberg. 2,930,437.  
 Oehler, William P., and Youngberg. 2,955,664.  
 Oehler, William P., and Youngberg. 2,963,095.  
 Oehler, William P., Youngberg, and Johnson. 2,960,171.  
 Olsen, Sydney A., Townsend, and Sharpsteen. 2,960,974.  
 Parker, Charles T. 2,954,235.  
 Polzin, Donald H. 2,935,897.  
 Polzin, Donald H. 2,938,652.  
 Roscoe, Merrill W., and Beldin. 2,957,293.  
 Schnell, Ernst E. 2,930,336.  
 Schnell, Ernst E. 2,930,629.  
 Shindelar, Joseph J. 2,932,355.  
 Shriver, George H. 2,920,587.  
 Silver, Walter H. 2,938,589.  
 Silver, Walter H., and Beckstrom. 2,935,141.  
 Silver, Walter H., and Lohrman. 2,938,587.  
 Silver, Walter H., and Lohrman. 2,963,097.  
 Silverberg, Bernard M., and Jones. 2,950,938.  
 Skromme, Arnold B. 2,952,465.  
 Skromme, Arnold B., and Kellums. 2,927,388.  
 Slavens, Wayne E., and Adolphson. 2,958,993.  
 Sorensen, Knud B., and Kent. 2,960,193.  
 Sorensen, Knud B., and Ohlendorf. 2,930,438.  
 Soteropoulos, Gust. 2,946,169.  
 Van Gerpen, Harlan W. 2,936,588.  
 Van Gerpen, Harlan W. 2,936,712.  
 Wittren, Richard A. 2,920,712.  
 Wittren, Richard A. 2,936,649.  
 Wittren, Richard A. 2,943,500.
- Deere, John, Plow Co. (Ltd.): See—  
 Northcote, John A., and Dixon. 2,926,479.
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- Deering, Esther E. Closing and opening device for separable slide fasteners. 2,928,157, 3-15-60, Cl. 24-205.15.
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- Dornfeld, Eberhard. 2,942,590.
- Haage, Konrad. 2,953,615.
- Lang, Anton. 2,931,346.
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- Delman Co.: *See—*
- Webb, Edmond F. 2,961,168.
- Del Mar, Bruce E.: *See—*
- Hopper, Robert J., and Del Mar. 2,923,549.
- Del Mar, Bruce E., to Del Mar Engineering Laboratories, Inc. Smoke signal device. 2,923,930, 2-2-60, Cl. 340—366.
- Del Mar, Bruce E., to Del Mar Engineering Laboratories. Tow target and signal producing accessory. 2,927,793, 3-8-60, Cl. 273—105.3.
- Del Mar, Bruce E., to Del Mar Engineering Laboratories, Inc. Multiple smoke-signal unit. 2,945,222, 7-12-60, Cl. 340—366.
- Del Mar Engineering Laboratories: *See—*
- Brust, Charles K. 2,953,377.
- Del Mar, Bruce E. 2,927,793.
- Del Mar, Bruce E. 2,945,222.
- Hopper, Robert J., and Elder. 2,919,869.
- Hopper, Robert J., and Elder. 2,953,442.
- Thornton, William E. 2,938,201.
- Del Mar Engineering Laboratories, Inc.: *See—*
- Del Mar, Bruce E. 2,923,930.
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- De Lollis, Nicholas J.: *See—*
- Burke, John F., and De Lollis. 2,941,830.
- De Long, Allen R.: *See—*
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- De Long, Allen R., to Bellico Glass, Inc. Laboratory vessel. 2,947,612, 8-2-60, Cl. 23—292.
- De Long Corp.: *See—*
- De Long, Leon B., and Suderow. 2,942,425.
- Suderow, George E. 2,920,870.
- Suderow, George E. 2,932,486.
- Suderow, George E. 2,934,804.
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- De Long, Leon B., and G. E. Suderow, to De Long Corp. Mobile dry dock method and apparatus. 2,942,425, 6-28-60, Cl. 61—46.5.
- De Long, Ruth N. Nesting furniture structure. 2,924,830, 2-16-60, Cl. 5—8.
- De Long, Vincent R., to Collins Radio Co. Unbalanced to balanced network means. 2,934,721, 4-26-60, Cl. 333—26.
- Deloraine, Edmond M., and H. G. Busignies, to International Telephone and Telegraph Corp. Radio repeating system. 2,931,031, 3-29-60, Cl. 343—18.
- Deloraine, Edmond M., and H. G. Busignies, to International Telephone and Telegraph Corp. Pulse radar counter-measure. 2,943,318, 6-28-60, Cl. 343—18.
- Deloraine, Edmond M., H. G. Busignies, and P. G. Chevigny, to International Telephone and Telegraph Corp. Protective circuit for radio repeater. 2,950,400, 8-23-60, Cl. 307—149.
- De Lorean, John Z.: *See—*
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- De Lorean, John Z., to General Motors Corp. Transmission. 2,919,604, 1-5-60, Cl. 74—677.
- De Lorean, John Z., to General Motors Corp. Vehicle suspension. 2,922,635, 1-26-60, Cl. 267—15.
- De Lorean, John Z., to General Motors Corp. Universal joint. 2,926,510, 3-1-60, Cl. 64—8.
- De Lorean, John Z., to General Motors Corp. Engine exhaust system. 2,960,178, 11-15-60, Cl. 181—36.
- De Lorean, John Z., to General Motors Corp. Transmission. 2,961,896, 11-29-60, Cl. 74—677.
- De Lorean, John Z., to General Motors Corp. Transmission. 2,964,975, 12-20-60, Cl. 74—677.
- De Lorenzo, John, to J and L Inc. Apparatus for making shoes. 2,962,734, 12-6-60, Cl. 12—1.
- Delos, Jacques, to Societe Anonyme dite: Etablissements Delos & Fils. Washing machine. 2,955,451, 10-11-60, Cl. 68—28.
- Del Rico, Herencia R. Rotary pump, motor or the like. 2,934,043, 4-26-60, Cl. 121—60.
- Del Sole, Dominick A. Hydraulic brake. 2,928,509, 3-15-60, Cl. 188—152.
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- Spann, Delroy O. 2,925,878.
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- Deltour, Guy H., and J.-M. J. N. H. Ghuyssen, to Societe des Laboratoires Labaz. Process for the depilation and bating of pelts and hides. 2,927,885, 3-8-60, Cl. 195-6.
- De Luca, Frank C.: *See*—  
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- Jacobson, Moses G., and De Luca. 2,939,827.
- De Lucia, Frank. Gear puller. 2,921,368, 1-19-60, Cl. 29-244.
- De Lucia, Santo. Impression device. 2,958,960, 11-8-60, Cl. 35-66.
- De Lugt, Jan M., and J. P. Voskuilen. Device for digging up tubers and the like. 2,936,837, 5-17-60, Cl. 171-70.
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- Del Valle, Alberto J. Bottle cap for gasified drinks. 2,954,890, 10-4-60, Cl. 215-52.
- Del Valle, Guillermo A., to Radio Corp. of America. Apparatus for processing motion picture film. 2,927,553, 3-8-60, Cl. 118-102.
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- Del Vecchio, Deno. Apparatus for controlling backwater in sewer lines. 2,928,410, 3-15-60, Cl. 137-115.
- Delzer, Reinhold. Silage loader. 2,930,657, 3-29-60, Cl. 302-56.
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- Sernitz, Paul, and Hodapp. 2,944,099.
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- De Maio, Gus H., and G. P. Peteler. Non-acid electrolyte. 2,925,358, 2-16-60, Cl. 136-154.
- De Malvilain, Gilbert C. Embossing press. 2,944,481, 7-12-60, Cl. 101-27.
- De Man, Heiko T., to The Porter-Cable Machine Co. Power operated cutting tool. 2,960,126, 11-15-60, Cl. 144-134.
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- De Marco, Albert G., and C. R. Dilmore, Jr., to Columbia Southern Chemical Corp. Electrical prevention of deposition of solids. 2,941,932, 6-21-60, Cl. 204-153.
- DeMarco, Salvatore E. Stripping attachment for sweet potato digger. 2,953,209, 9-20-60, Cl. 171-28.
- Demarest, Daniel D. Transmission. 2,938,398, 5-31-60, Cl. 74-354.
- Demarest, Daniel D., W. Karius, and C. Berendt, to Linker Machines, Inc. Frankfurt casing sizing device. 2,929,100, 3-22-60, Cl. 17-35.
- Demarest, Le Roy E., F. S. and J. M. Lapeyre, to The Peelers Co. Grading and separating device. 2,964,181, 12-13-60, Cl. 209-91.
- Demarest, Russell G., Jr. Loose leaf binder. 2,951,483, 9-6-60, Cl. 129-23.
- Demarest, William C., and E. Malmstrom, to G. & D. Surgical & Drug Co., Inc. Traction device. 2,940,441, 6-14-60, Cl. 128-75.
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- De Martin, Roger R. Two cycle gas engine. 2,923,281, 2-2-60, Cl. 123-71.
- De Martin, Roger R. Two cycle gas engine. 2,954,762, 10-4-60, Cl. 123-71.
- De Mattia, Andrew D., to Rolock, Inc. Corner lock construction for racks. 2,933,193, 4-19-60, Cl. 211-134.
- De Mauro, Peter: *See*—  
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- Dembinski, Nicholas S. Cake supporting structure. 2,921,691, 1-19-60, Cl. 211-134.
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- Demer, Frederick M., to International Business Machines Corp. Printed data storage interpreter. 2,943,564, 7-5-60, Cl. 101-93.
- Demer, Frederick M., and R. G. Mork, to International Business Machines Corp. Electronic record reader. 2,924,380, 2-9-60, Cl. 235-61.11.
- Demer, Frederick M., and R. G. Mork, to International Business Machines Corp. Record reader. 2,939,632, 6-7-60, Cl. 235-61.11.
- Demer, Frederick M., W. W. Dodge, and N. S. Stockdale, to International Business Machines Corp. Magnetic recording and reproducing system. 2,952,010, 9-6-60, Cl. 340-174.1.
- Demer, Frederick M., J. F. Gaffney, and W. S. Rohland, to International Business Machines Corp. Character sensing system. 2,963,683, 12-6-60, Cl. 340-149.
- De Mers, Francis F., to Solar Aircraft Co. Machine for forming ring reinforced convolutions in a tube. 2,954,064, 9-27-60, Cl. 153-2.
- Demers, Francois X., Jr., and T. R. Fink, to Allied Chemical Corp. Process for purification of 4,4'-methylenedianiline. 2,938,054, 5-24-60, Cl. 260-570.
- De Mestral, George, to Sines Sociedad Para Inversiones Extranjeras S.A. Cutting device for pile fabrics. 2,933,797, 4-26-60, Cl. 26-9.
- De Millar, Floyd O., to Radian Corp. Starting mechanism for an internal combustion engine. 2,950,780, 8-30-60, Cl. 185-41.
- De Mille, Noel J., to The Prestige Group Ltd. Fruit or vegetable peeling or cleaning machine. 2,938,556, 5-31-60, Cl. 146-50.
- De Miller, Malcolm E., to Lubbers & Bell Mfg. Co. Fly swatter. 2,963,816, 12-13-60, Cl. 43-137.
- De Million-Czarnecki, Gabryel, to Container Corp. of America. Tuck-in type can carrier and package and blank therefor. 2,929,497, 3-22-60, Cl. 206-65.
- De Million-Czarnecki, Gabryel, to Container Corp. of America. Dispensing package. 2,935,192, 5-3-60, Cl. 206-58.
- Deming, Andrew E., and A. J. Carli, to Alliance Mfg. Co., Division of Consolidated Electronics Industries Corp. Axial shift drive mechanism. 2,951,385, 9-6-60, Cl. 74-199.
- Deming, Horace G. Method and cell for altering the concentration of dissolved ionic substances. 2,923,676, 2-2-60, Cl. 204-301.
- De Minjer, Clara H., and A. Brenner, to United States of America, Commerce. Electroless deposition of nickel. 2,929,742, 3-22-60, Cl. 117-130.
- De Miranda, Heine A. R., to North American Philips Co., Inc. Coupling circuit arrangement. 2,941,095, 6-14-60, Cl. 307-88.5.
- De Miranda, Heine A. R., to North American Philips Co., Inc. Bistable trigger circuit. 2,944,166, 7-5-60, Cl. 307-88.5.
- De Miranda, Heine A. R.: *See*—  
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- De Mong, Maurice D., to United States of America, Navy. Time delay monostable electronic control unit. 2,926,248, 2-23-60, Cl. 250-27.
- De Monte, Robert W., to Bell Telephone Laboratories, Inc. Impedance-matching network. 2,957,944, 10-25-60, Cl. 178-45.
- De Monte, Robert W., to Bell Telephone Laboratories, Inc. Simulation network. 2,965,859, 12-20-60, Cl. 333-23.
- De Montebello, Roger L. Stereoscopes. 2,953,980, 9-27-60, Cl. 95-18.
- De Montremy, Jean. Binocular telescopes. 2,963,942, 12-13-60, Cl. 88-34.
- Demorest, Howard L., R. W. Frykman, G. C. Kelly, and G. R. Rose, to General Mills, Inc. Apparatus for performing work motions automatically. 2,926,627, 3-1-60, Cl. 118-11.
- De Mott, Alfred E.: *See*—  
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- De Mott, John A., 1/2 to J. J. Mandulay. Swimming pool lighting device. 2,943,185, 6-28-60, Cl. 240-10.1.
- De Moude, Adrian J. Self-sealing pipe coupling. 2,933,334, 4-19-60, Cl. 285-110.
- Dempsey, Charles A. Illuminated panel. 2,935,598, 5-3-60, Cl. 240-4.
- Dempsey, Jack L., and R. K. McAlpine, to Bell Telephone Laboratories, Inc. Diode gate translator. 2,957,168, 10-18-60, Cl. 340-347.
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- Dempster, George R., and Herpich. 2,934,226.
- Dempster, George R., and Herpich. 2,934,227.
- Dempster, George R., and Herpich. 2,936,916.
- Dempster, George R., and Herpich. 2,938,641.
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- Dempster, George R., and W. A. Herpich; said Herpich assor. to Dempster Brothers, Inc. Compaction bodies. 2,934,226, 4-26-60, Cl. 214-82.
- Dempster, George R., and W. A. Herpich; said Herpich, assor. to Dempster Brothers, Inc. Chassis mounted hoisting and dumping equipment. 2,934,227, 4-26-60, Cl. 214-317.
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- Dempster, George R., and W. A. Herpich, to Dempster Brothers, Inc. Containers. 2,938,641, 5-31-60, Cl. 214-317.
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- Demurjian, Ashod C. Multiple circuit connector. 2,923,911, 2-2-60, Cl. 339-176.
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- De Mytt, Louis E., to The Gillette Co. Bicyclic anhydride of meso-alpha, alpha'-dithioadipic acid and method of making the same. 2,930,799, 3-29-60, Cl. 260-327.
- Denaux, Louis M., Sr. Automatic choke attachment for shotguns. 2,937,465, 5-24-60, Cl. 42-79.
- Dench, Edward C., to United States of America, Army. Output coupling. 2,922,127, 1-19-60, Cl. 333-34.
- Dench, Edward C., to Raytheon Co. Traveling wave oscillator systems. 2,922,956, 1-26-60, Cl. 331-82.
- Dench, Edward C., to Raytheon Co. Electron discharge de- 2,924,740, 2-9-60, Cl. 315-3.5.
- Dench, Edward C., to Raytheon Co. Traveling wave tubes. 2,925,521, 2-16-60, Cl. 315-3.6.
- Dench, Edward C., to Raytheon Co. Electronic systems. vices. 2,933,638, 4-19-60, Cl. 315-3.5.
- Dench, Edward C., to Raytheon Co. Microwave tube output coupling. 2,938,182, 5-24-60, Cl. 333-97.
- Dench, Edward C., to Raytheon Co. Traveling wave oscillator tubes. 2,942,142, 6-21-60, Cl. 315-3.5.
- Dench, Edward C., to Raytheon Co. Magnetron amplifiers. 2,963,621, 12-6-60, Cl. 315-39.3.
- Denes, Peter, to "Licencia" Talalmanyokart Ertekesito Vallalat. Electro-chemical sources of current of long shelf life and making the same. 2,942,050, 6-21-60, Cl. 136-3.
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Zaugg, Harold E., and De Net. 2,946,804.
- Dengel, Ferdinand, to Knoll A.G. Chemische Fabriken. Antispasmodic compounds and compositions comprising basically substituted derivatives of 1-benzyl tetrahydroisoquinoline. 2,951,013, 8-30-60, Cl. 167-65.
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- De Nicolò, William V., to Industrial Development Corp. Machine for the assembly of eye members in textile materials. 2,932,029, 4-12-60, Cl. 1-4.
- De Nicolò, William V. Method for cutting sleeves and rings. 2,932,083, 4-12-60, Cl. 29-417.
- Denig, Donald G., and H. V. Krautwurst, to General Motors Corp. Cigar lighter and mounting therefor. 2,939,940, 6-7-60, Cl. 219-32.
- D'Enis, Frederick B. Levelling instruments. 2,933,821, 4-26-60, Cl. 33-220.
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- Denison, F. Evelyn: See—  
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- Denison, Henry W., deceased (F. E. Denison, special administrator), and L. E. Johnson. Drag for spinning reel. 2,959,370, 11-8-60, Cl. 242-84.5.
- Denison, Ruth C., to Mrs. J. W. Bradley. Aluminum salt antacid compositions and method of using same. 2,940,898, 6-14-60, Cl. 167-85.
- Deniston, William L., to Fairchild Camera and Instrument Corp. Precision potentiometer. 2,953,762, 9-20-60, Cl. 338-148.
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- Denkowski, George S., to Monsanto Chemical Co. Quenching of catalyst with alcoholic mixture. 2,940,963, 6-14-60, Cl. 260-94.9.
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- Dennis, George P., to Lockers (Engineers) Ltd. Feeding of granular materials capable of flowing. 2,932,430, 4-12-60, Cl. 222-55.
- Dennis, George T., to E. W. Edmund. Underwater camera housing with operating means. 2,944,474, 7-12-60, Cl. 95-11.
- Dennis, James T. Record changer. 2,939,714, 6-7-60, Cl. 274-10.
- Dennis, James T. Record changer. 2,956,830, 10-18-60, Cl. 274-10.
- Dennis, Jane H., to Philco Corp. Information storage system. 2,939,081, 5-31-60, Cl. 328-122.
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- Dennis, Reginald M. Loss computer. 2,954,929, 10-4-60, Cl. 235-179.
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- Dennison, Frederick R., E. Olson, and G. W. Wentis, to General Motors Corp. Choke lock-out. 2,946,577, 7-26-60, Cl. 261-39.
- Dennison, Robert C., to Radio Corp. of America. Composite signal transmitting systems. 2,929,867, 3-22-60, Cl. 178-54.
- Dennison, William G., to Cutler-Hammer, Inc. Electric circuit for direct current electromagnetic contactors. 2,928,027, 3-8-60, Cl. 317-13.
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- De Nora, Vittorio, to Oronzio Impianti Elettrochimici de Nora. Electrolysis apparatus. 2,952,604, 9-13-60, Cl. 204-220.
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- Densen, Paul, and L. H. Roberts, to Eastern Corrugated Container Corp. Edge aligning means for travelling combining webs. 2,941,572, 6-21-60, Cl. 154-31.
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- Denss, Rolf, and F. Häfner, to Geigy Chemical Corp. Certain 4-acyl, 1-(p-hydroxy-phenyl)-2-phenyl, 3,5-dioxo-pyrazolidines. 2,927,927, 3-8-60, Cl. 260-310.
- Denss, Rolf, and F. Häfner, to Geigy Chemical Corp. 1,2-diphenyl-4(alpha-acetoxyacetyl)-3,5-dioxopyrazolidine. 2,927,929, 3-8-60, Cl. 260-310.
- Dent, Kenneth H., and H. C. Knights, to United Kingdom Atomic Energy Authority. Fluid operated pick-up mechanism for lifting and transporting articles under water. 2,934,033, 4-26-60, Cl. 114-51.
- Denti, Franco: See—  
Maragliano, Domenico, and Denti. 2,947,598.
- Dentists' Supply Co. of New York, The: See—  
Saffir, Jacob A. 2,920,390.
- Denton, Arthur S.: See—  
Kopp, Sigmund, and Denton. 2,922,404.
- Denton, Frank C., 50% to Eaton, Bell, Hunt & Seltzer. Bulb planter. 2,935,957, 5-10-60, Cl. 111-3.
- Denton, Harvey R. Picture hanger. 2,965,339, 12-20-60, Cl. 248-28.
- Denton, Robert F., to Jamieson Laboratories, Inc. Electrical switching mechanism. 2,953,653, 9-20-60, Cl. 200-33.
- Denton, Robert F., to Jamieson Laboratories, Inc. Single-action electrical switch utilizing shear-resistant temperature-sensitive pellet. 2,955,180, 10-4-60, Cl. 200-142.
- Denton, Robert F., and J. R. White, to Jamieson Laboratories, Inc. Escapement mechanism. 2,946,227, 7-26-60, Cl. 74-1.5.
- Denton, William H., to The United Kingdom Atomic Energy Authority. Hydrogen distillation plant. 2,960,838, 11-22-60, Cl. 62-28.



- Denton, William I., to Olin Mathieson Chemical Corp. Pyridine from tetrahydrofurfuryl alcohol. 2,963,484, 12-6-60, Cl. 260-290.
- Dentzer, Carl J., A. E. Laughlin, and A. L. Stoeckel, to United States Steel Corp. Apparatus for packaging annular articles. 2,926,598, 3-1-60, Cl. 100-1.
- Denver Equipment Co.: *See*—
- Daman, Arthur C. 2,944,802.
- Daman, Arthur C. 2,948,481.
- Logue, Leland H. 2,928,543.
- Logue, Leland H., and Daman. 2,932,402.
- Denver National Bank: *See*—
- Sterkel, Jake. 2,933,935.
- Denver Post, Inc. The: *See*—
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- Denyer, Ronald L., and H. R. Hadfield, to Imperial Chemical Industries Ltd. New colouration process. 2,928,711, 3-15-60, Cl. 8-29.
- Denyer, Ronald L., and H. R. Hadfield, to Imperial Chemical Industries Ltd. New textile treatment process. 2,940,812, 6-14-60, Cl. 8-29.
- Denysiuk, Walter W., to Security Controls, Inc. Capacity operated apparatus. 2,929,969, 3-22-60, Cl. 317-146.
- Denz, Arthur R.: *See*—
- Radcliffe, Arthur J., Jr., and Denz. 2,926,267.
- Radcliffe, Arthur J., Jr., and Denz. 2,964,650.
- Denz, Arthur R., and E. B. Du Bois, to International Telephone and Telegraph Corp. Adjustable equalizer. 2,926,314, 2-23-60, Cl. 333-18.
- Denzer, Richard E.: *See*—
- Bowser, Phillip C., and Denzer. 2,950,104.
- Denzer, Romeo S., to La Crosse Cooler Co. Bottle vending machine. 2,922,545, 1-26-60, Cl. 221-125.
- De Paolis, Paul F., to Eastman Kodak Co. Fluoborate glass. 2,933,404, 4-19-60, Cl. 106-54.
- Department of Mines: *See*—
- Archambault, Maurice, MacEwan, and Olivier. 2,923,600.
- De Paravicini, Thomas P., to Normalair Ltd. Resonance combustion apparatus with a thermodynamically controlled gas circuit. 2,924,071, 2-9-60, Cl. 60-39-77.
- De Paravicini, Thomas P., to Normalair Ltd. Cooling of cabins or other habitable parts of aircraft. 2,963,879, 12-13-60, Cl. 62-239.
- De Paravicini, Thomas P., to Normalair Ltd. Cooling of cabins and other compartments. 2,966,047, 12-27-60, Cl. 62-335.
- De Pauw, Alfons J., and R. C. Gerbaux, to Gevaert Photo-Produkten, N.V. Preparation of photographic silver halide emulsions. 2,956,883, 10-18-60, Cl. 96-113.
- De Pauw, Francis: *See*—
- Limido, Jean, and De Pauw. 2,948,667.
- Dependable Pattern Works, Inc.: *See*—
- Ronne, Ronald M. 2,929,119.
- Depew, Harlan A. Process for preparing stable mixed dispersions of elastomers with volatile water-immiscible organic liquids containing destabilizing components and products therefrom. 2,933,469, 4-19-60, Cl. 260-297.
- De Pew, Thomas N., to Arrowhead Products, Inc. Pallet tiering frames. 2,940,706, 6-14-60, Cl. 248-120.
- De Pew, Thomas N., and R. H. Heise; said Heise assor. to said De Pew. Pallet stack supporting frames. 2,925,921, 2-23-60, Cl. 211-148.
- De Pew, Thomas N., and R. H. Heise, to Arrowhead Products, Inc. Pallet tiering frames. 2,942,826, 6-28-60, Cl. 248-120.
- De Pierri, William G., Jr.: *See*—
- Earhart, Harold W., and De Pierri. 2,945,894.
- De Pierri, William G., Jr., and H. W. Earhart, to Esso Research and Engineering Co. Dichloromethylation of xylenes. 2,964,573, 12-13-60, Cl. 260-651.
- De Pierri, William G., Jr., and H. W. Earhart, to Esso Research and Engineering Co. Method for recovering solid chloromethylation products. 2,966,523, 12-27-60, Cl. 260-651.
- De Place, Henry. Ski binder cable safety tightener. 2,947,545, 8-2-60, Cl. 280-1135.
- Depman, Joseph B., to General Motors Corp. Air suspension control apparatus. 2,938,542, 5-31-60, Cl. 137-599.1.
- Depman, Joseph B., to General Motors Corp. Surge muffler for air storage tank. 2,962,110, 11-29-60, Cl. 181-36.
- Depold, George J.: *See*—
- Carlson, Bertil V., Depold, and Stark. 2,921,995.
- De Pree, David O., and W. R. Eller, to Ethyl Corp. Process for the preparation of thioglycolic acid and salts thereof. 2,945,880, 7-19-60, Cl. 260-526.
- De Prisco, Carmine F.: *See*—
- Jones, James B., Elmore, and De Prisco. 2,946,119.
- Jones, James B., Elmore, and De Prisco. 2,946,120.
- De Raffele, Florenz V.: *See*—
- De Clerk, Joseph L., and De Raffele. 2,922,874.
- Deramond, Marcel J.: *See*—
- Coeytaux, Georges E., Deramond, and Hugues. 2,964,991.
- Derby, Marshall T., to C.I.P. Co., d.b.a. California Industrial Products. Clip fastener. 2,954,602, 10-4-60, Cl. 29-193.5.
- Derby S.A.: *See*—
- Vogt, Paul. 2,921,476.
- Vogt, Paul. 2,930,272.
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- Krueger, Alfred P. 2,955,500.
- Derden, Edna N., and L. W. Huber. Presser for garment tucks and the like. 2,939,939, 6-7-60, Cl. 219-25.
- Dereich, John E., to Diamond Alkali Co. Method of preparing laminated paperboard by treating paper with aqueous solution of a silicate and a sucrose modified urea-formaldehyde resin. 2,922,729, 1-26-60, Cl. 117-155.
- Dereich, John E., to Diamond Alkali Co. Resinous flame-proofing composition. 2,924,532, 2-9-60, Cl. 106-15.
- Dereich, John E., to Diamond Alkali Co. Coated polyethylene structure. 2,961,346, 11-22-60, Cl. 117-158.8.
- Dereich, John E., to Diamond Alkali Co. Method of mounting samples. 2,964,443, 12-13-60, Cl. 154-125.
- Deremer, Floyd E., to Oldberg Mfg. Co. Silencer or muffler. 2,950,777, 8-30-60, Cl. 181-54.
- Deremer, Floyd E., to Oldberg Mfg. Co. Silencer or muffler. 2,958,389, 11-1-60, Cl. 181-54.
- De Remer, J. G., Research Corp.: *See*—
- De Remer, Jay G. 2,935,168.
- De Remer, Jay G., to J. G. De Remer Research Corp. Washing and drying machine and drive therefor. 2,935,168, 5-3-60, Cl. 192-48.
- Derenk, Gunter: *See*—
- Dorn, Rolf-Karl, Wisfeld, Herrmann, and Derenk. 2,963,431.
- Derenski, Francis W. Easel book structure. 2,947,552, 8-2-60, Cl. 281-33.
- De Renzo, Edward C.: *See*—
- Stokstad, Evan L. R., and De Renzo. 2,929,711.
- Dereux, Jean A. Electrical musical instruments. 2,959,083, 11-8-60, Cl. 84-128.
- Derfler, Heinrich: *See*—
- Meili, Ernst, Lampart, and Derfler. 2,963,600.
- Derganc, William: *See*—
- Howell, Sabert N., and Derganc. 2,927,464.
- Derganc, William, to Servo Corp. of America. Pyrometer. 2,920,485, 1-12-60, Cl. 73-355.
- Deriaz, Paul, to The English Electric Co. Ltd. Hydraulic reaction turbines. 2,949,277, 8-16-60, Cl. 253-22.
- De Ridder, Ernst J., and K. F. Glaser, to Reynolds Metals Co. Apparatus for straightening metallic extrusions. 2,936,018, 5-10-60, Cl. 153-32.
- Deringer, Wayne A., to A. O. Smith Corp. Method of welding glasslined vessels. 2,959,850, 11-15-60, Cl. 29-458.
- Deringer, Wayne A., to A. O. Smith Corp. Method of welding vessels. 2,959,851, 11-15-60, Cl. 29-458.
- Derman, Sam. Knockdown tables. 2,965,241, 12-20-60, Cl. 211-137.
- Dermond, Lawrence C., to General Motors Corp. Fuel injection metering control mechanism. 2,942,862, 6-28-60, Cl. 261-69.
- Dermond, Lawrence C., to General Motors Corp. Cold start enrichment system. 2,954,018, 9-27-60, Cl. 123-119.
- Dermond, Lawrence C., to General Motors Corp. Pump. 2,959,135, 11-8-60, Cl. 103-150.
- De Ronde, Frans C., to North American Philips Co., Inc. Adjustable impedance for use in waveguides. 2,944,234, 7-5-60, Cl. 333-98.
- De Ronde, Frans C., to North American Philips Co., Inc. Waveguide variable impedance apparatus. 2,951,998, 9-6-60, Cl. 333-81.
- De Rosa, John A.: *See*—
- Lieb, Harry C., and De Rosa. 2,930,830.
- De Rosa, Louis A., to United States of America, Air Force. Radar-beacon alarm system. 2,962,708, 11-29-60, Cl. 343-6.5.
- De Rose, John P. Power adjustable seat mount. 2,930,428, 3-29-60, Cl. 155-14.
- De Rosset, Armand J., to Universal Oil Products Co. Catalyst composite. 2,938,001, 5-24-60, Cl. 252-432.
- De Rosset, Armand J., to Universal Oil Products Co. Purification of hydrogen utilizing hydrogen-permeable membranes. 2,958,391, 11-1-60, Cl. 183-2.
- Derr, Kenneth W., and R. W. Haus, to Hamilton Watch Co. Watch bearing mounting. 2,938,328, 5-31-60, Cl. 58-140.
- Derr, Paul F., to Food Machinery and Chemical Corp. Process for the chemical reduction of nitrosamines. 2,961,467, 11-22-60, Cl. 260-583.
- Derr, Willard A., to Westinghouse Electric Corp. Telemetering apparatus. 2,949,601, 8-16-60, Cl. 340-185.
- Derr, Willard A., and W. L. Metz, to Westinghouse Electric Corp. Remote metering. 2,962,702, 11-29-60, Cl. 340-180.
- Derr, Willard A., and W. L. Metz, to Westinghouse Electric Corp. Supervisory control systems. 2,965,881, 12-20-60, Cl. 340-163.
- Derrick, Ralph W. Lathe layout degree device. 2,930,343, 3-29-60, Cl. 116-115.5.
- Derrick, Robert P., and S. J. Campbell, to Westinghouse Electric Corp. Paper mill winder drives. 2,945,637, 7-19-60, Cl. 242-75.51.
- Derringe, Bloddie L.: *See*—
- Peterson, C. Lynn, and Derringe. 2,946,448.
- Derry Damask Mills, Inc.: *See*—
- Wright, Henry T. 2,966,174.
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- Dersch, Fritz: *See*—
- De Angelus, Millet R., and Dersch. 2,948,612.
- Dersch, Fritz, and M. R. De Angelus, to General Aniline & Film Corp. Antifogants and stabilizers for photographic silver halide emulsions. 2,919,985, 1-5-60, Cl. 96-66.
- Dersch, Fritz, and M. R. De Angelus, to General Aniline & Film Corp. Fog reduction in photographic silver halide emulsions. 2,939,789, 6-7-60, Cl. 96-66.



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- Dersch, Fritz, and M. R. De Angelus, to General Aniline & Film Corp. Fog reduction in photographic silver halide emulsions. 2,955,036, 10-4-60, Cl. 96-66.
- Dersch, Fritz, and W. A. Wurth, Jr., to General Aniline & Film Corp. Peptizing silver-halides with modified casein. 2,960,405, 11-15-60, Cl. 96-94.
- Dersch, Fritz H., to General Aniline & Film Corp. Fog reduction in photographic silver halide emulsions. 2,935,404, 5-3-60, Cl. 96-66.
- Dersch, William C., to International Business Machines Corp. Automatic optical tabulating system. 2,953,231, 9-20-60, Cl. 197-176.
- Dersch, William C., to International Business Machines Corp. Electronic counter. 2,956,155, 10-11-60, Cl. 250-27.
- Derschmidt, Hans, to Bolkow Entwicklungen KG. Drive means for helicopter rotary blade systems. 2,957,526, 10-25-60, Cl. 170-160.13.
- Derse, Arthur F. Sr., to Wilder Mfg. Co., Inc. Hand trucks. 2,933,322, 4-19-60, Cl. 280-5.2.
- De Rudnay, Andre, to Quartz & Silice S.A. Dielectric films and capacitors employing the same. 2,960,642, 11-15-60, Cl. 317-258.
- De Ruggieri, Pietro, and G. A. de Ferrari, to Ormonoterapia Richter S.P.A. Process for the preparation of 17 $\alpha$ -hydroxyprogesterone, esters thereof, and intermediates therefor. 2,924,597, 2-9-60, Cl. 260-239.55.
- De Ruggieri, Pietro, and G. A. de Ferrari, to Ormonoterapia Richter S.P.A. Method for the preparation of testosterone, dihydrotestosterone and their esters, and intermediates therefor. 2,959,585, 11-8-60, Cl. 260-239.55.
- De Sander, Emiel, and G. D. Pringle. Sportman's accessory. 2,959,796, 11-15-60, Cl. 9-312.
- Desanges, Richard, to Societe Zodiac. Collapsible boats. 2,949,616, 8-23-60, Cl. 9-2.
- De Santa Luce, Vincent J. Food preservative and method of preparing same. 2,937,948, 5-24-60, Cl. 99-150.
- De Santis, Vincent J., R. E. Manfredi, and H. J. Nolte, to General Electric Co. Methods of manufacturing evacuated and gas-filled devices. 2,934,392, 4-26-60, Cl. 316-25.
- De Santis, Vincent J., and J. H. Affleck III, to General Electric Co. Thermionic cathodes and methods of making. 2,945,150, 7-12-60, Cl. 313-346.
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- Miller, Edith J. B. 2,938,281.
- De Sario, Peter N.: See—
- Jonas, Robert P., and De Sario. 2,955,811.
- De Sautels, Albert N., to Minneapolis-Honeywell Regulator Co. Temperature compensated feedback transistor circuits. 2,925,559, 2-16-60, Cl. 330-23.
- Desbois, Theodore J. Folding pallet. 2,952,433, 9-13-60, Cl. 248-120.
- Desbrandes, Robert, to Schlumberger Well Surveying Corp. Sampling apparatus. 2,951,537, 9-6-60, Cl. 166-162.
- Descaries, Raymond, to Aktiebolaget Electrolux. Vacuum cleaner. 2,921,153, 1-12-60, Cl. 200-50.
- Descaries, Raymond, to Aktiebolaget Electrolux. Coin holder. 2,961,153, 11-22-60, Cl. 232-4.
- Descaries, Raymond, to Aktiebolaget Electrolux. Horizontal tank-type suction cleaner. 2,961,688, 11-29-60, Cl. 15-323.
- Deschamps, Desire J., to Hydro-Aire, Inc. Pumping cavity for rotary vane pump. 2,949,081, 8-16-60, Cl. 103-120.
- Deschamps, Desire J., to Hydro-Aire, Inc. Variable delivery high speed and pressure vane pump. 2,952,215, 9-13-60, Cl. 103-120.
- Deschamps, Georges A., to International Telephone and Telegraph Corp. Rotation sensing device. 2,954,700, 10-4-60, Cl. 74-5.34.
- Deschere, Paul R. Filter system. 2,937,752, 5-24-60, Cl. 210-75.
- Deschuytere, Leon C.: See—
- Hinton, Raymond C. P., and Deschuytere. 2,938,956.
- De Seguin des hons, Luc D. Agitator devices. 2,935,383, 5-3-60, Cl. 23-253.
- De Senigon de Roumefort, Francois. Improvements in mechanized garages. 2,923,421, 2-2-60, Cl. 214-16.1.
- De Sérerville, René: See—
- Thibord, Maurice, and de Sérerville. 2,936,601.
- De Seversky, Alexander P., to Electronatom Corp. Gas conditioner. 2,937,709, 5-24-60, Cl. 183-7.
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- Pocidalo, Adolphe. 2,937,428.
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- Design Center, Inc.: See—
- Pfohl, Louis H. 2,931,493.
- Pfohl, Louis H. 2,931,494.
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- Hartnett, Maurice P. 2,937,362.
- Robertson, William A. 2,960,981.
- Design, Inc.: See—
- Mack, Julian E., and Streander. 2,938,385.
- De Simone, Benjamin J., and D. F. Crozat. Portable diverter valve. 2,939,474, 6-7-60, Cl. 137-119.
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- Prussack, Benjamin J. 2,956,722.
- De Smaele, Albert. Excavator apparatus having stepper type advancing means. 2,946,578, 7-26-60, Cl. 262-7.
- De Smet, George W., and T. W. Berridge. Tape dispensing machine. 2,964,225, 12-13-60, Cl. 226-136.
- De Smidt, Woodrow A., and C. E. Zarwell, to Allen-Bradley Co. Multiposition switch. 2,946,871, 7-26-60, Cl. 200-65.
- De Socio, George, to United States of America, Air Force. Band pass distributed amplifier. 2,942,201, 6-21-60, Cl. 330-54.
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- De Sollano, Carlos S. F., and J. M. Berriozabal, to Process Millers, Inc. Method of milling certain cereal grains. 2,930,699, 3-29-60, Cl. 99-93.
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- De Spa & Fils, Societe en Commandite par Actions: See—
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- Dessauer, John H., to Haloid Xerox Inc. Color xerography. 2,962,374, 11-29-60, Cl. 96-1.
- Dessauer, John H., R. W. Gundlach, and G. R. Mott, to Haloid Xerox Inc. Method for fixing xerographic images. 2,965,482, 12-20-60, Cl. 96-1.
- Dessauer, Ralph, and A. Groudin, to Sperry Rand Corp., Ford Instrument Co. Division. Light quantizing computer. 2,923,827, 2-2-60, Cl. 250-208.
- Dessert, Edward P., W. F. Kussy, and T. J. Rys, to Square D Co. Magnetic trip device. 2,920,161, 1-5-60, Cl. 200-95.
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- Eggink, Anton, Wentink, and Stambuis. 2,959,197.
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- Snijders, Antonie. 2,963,548.
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- De Sternberg, Jaime. Method for compressing and compacting a solid body of metal. 2,936,520, 5-17-60, Cl. 29-421.
- De Stevens, George, to Ciba Pharmaceutical Products, Inc. 4-aminoalkyl-thiazoline-2-ones. 2,921,936, 1-19-60, Cl. 260-247.1.
- De Stevens, George, to Sperry Rand Corp. 2-alkyl spiro (4.4) nonano (1,2d) thiazole, quaternaries and process. 2,928,838, 3-15-60, Cl. 260-302.
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- De Stevens, George, and R. H. Sprague, to Sperry Rand Corp. New indenothiazole. 2,937,181, 5-17-60, Cl. 260-302.
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- Fowler, Kirk, Brown, and Deters. 2,952,389.
- Fowler, Kirk, Brown, and Deters. 2,952,390.
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- Deters, Elmer M., to Red Jacket Mfg. Co. Leak detector. 2,952,388, 9-13-60, Cl. 222-52.
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- Detert, Ernst-Rolf, and W. Buchholz, to Eduard Gerlach, G.m.b.H. Method of producing tobacco foils. 2,927,588, 3-8-60, Cl. 131-15.
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- De Tore, John A., R. L. Lichten, and A. C. Robertson, to Bell Helicopter Corp. Rotor hub. 2,949,965, 8-23-60, Cl. 170-160.25.
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- Pallenberg, Joseph C., and Petering. 2,952,713.
- Detrick, Judson N., C. R. Hoffman, and L. W. Malzahn, to Western Electric Co., Inc. Continuous wire winding apparatus. 2,929,569, 3-22-60, Cl. 242-25.
- Detrick, Judson N., and J. F. Stoltz, to Western Electric Co., Inc. Snagger for continuous wire take-up. 2,961,175, 11-22-60, Cl. 242-25.
- Detrick, M. H., Co.: See—
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- Greig, Walter A. 2,938,165.
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- Bradley, Stephen D., and Hendrie. 2,958,909.
- Detroit Mold Engineering Co.: See—
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- McIlwain, Samuel D. 2,937,677.
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- Beeson, Harry E. 2,920,881.
- Dettelbach, Louis L., Jr., to Orkin Exterminating Co., Inc. Insecticide compositions. 2,939,815, 6-7-60, Cl. 167-30.
- Detter, Clyde V., to Phillips Petroleum Co. Catalyst and process for producing olefin polymers. 2,945,015, 7-12-60, Cl. 260-88.2.
- Detter, Clyde V., to Phillips Petroleum Co. Polymerization of epoxy compounds. 2,956,959, 10-18-60, Cl. 260-2.
- Dettman, Fred C. Bowling pin. 2,950,112, 8-23-60, Cl. 273-82.
- Dettwiler, Georges. Fluid pressure operated tilting device for automobiles. 2,965,388, 12-20-60, Cl. 280-112.
- De Tunec, Harold R. Vessel filling apparatus. 2,925,162, 2-16-60, Cl. 193-7.
- De Turk, Calvin E., to Philco Corp. Refrigeration system. 2,966,042, 12-27-60, Cl. 62-156.
- Detwiler, Charles G., Jr.: See—
- Fitzgerald, Joseph J., and Detwiler. 2,938,121.
- Detwiler, Harry S.: See—
- Biemiller, Philip E., Reese, and Detwiler. 2,954,663.
- Reese, James H., and Detwiler. 2,952,117.
- Detwiler, Harry S., to Hamilton Watch Co. Indexing mechanism. 2,954,662, 10-4-60, Cl. 58-28.
- Detwiler, Wayne H., to C. V. Hill & Co., Inc. Evaporator-blower unit for refrigerated equipment. 2,929,229, 3-22-60, Cl. 62-426.
- Deubel, Justin A., to General Controls Co. Temperature control system and compensated thermostat therefor. 2,932,456, 4-12-60, Cl. 236-68.
- Deubel, Reinhold: See—
- Fuchs, Otto, and Deubel. 2,961,438.
- Deubener, Walter H. Rupture guards. 2,927,580, 3-8-60, Cl. 128-119.
- Deucher, Adolf, to Maschinenfabrik Ruti A.G. vormalis Caspar Honegger. Bobbin replenishing means for looms. 2,931,397, 4-5-60, Cl. 139-245.
- Deucher, Adolf H. Automatic bobbin-changing mechanism for looms. 2,955,724, 10-11-60, Cl. 221-11.
- Deutchman, Bernard, and I. B. Soltes. Hinges. 2,930,075, 3-29-60, Cl. 16-191.
- Deuter, Charles W. Combination coat and hat hanger with checks for check rooms. 2,937,762, 5-24-60, Cl. 211-87.
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- Deutsch, Edward J., to Fairchild Engine and Airplane Co. Automatic bleed device for pneumatic system. 2,959,185, 11-8-60, Cl. 137-204.
- Deutsch, Ernst G.: See—
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- Deutsch, Fritz A., to Monroe Calculating Machine Co. Combination card feed and sensing means. 2,938,667, 5-31-60, Cl. 235-61.11.
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- De Valle Arizpe, Harmodio. Target projection apparatus. 2,957,695, 10-25-60, Cl. 273-105.1.
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- De Vaney, Fred D., to Pickands Mather & Co. Beneficiation of low-grade hematitic ore materials. 2,931,720, 4-5-60, Cl. 75-35.
- De Vaney, Fred D., to Erie Mining Co. Treating ore concentrates. 2,947,026, 8-2-60, Cl. 18-1.
- De Vaney, Fred D., to P-M Associates. Pelletization of iron ore concentrates. 2,960,396, 11-15-60, Cl. 75-3.
- De Vaney, Fred D., and D. Beggs, to Erie Mining Co. Heat-treating fluent solids. 2,946,469, 7-26-60, Cl. 214-18.2.
- Devaney, John L., to American Brake Shoe Co. Car retarder. 2,947,385, 8-2-60, Cl. 188-62.
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- De Varda, Giuseppe, to Montecatini, Societa Generale per l'Industria Mineraria e Chimica. Process for the production of aluminum by fused bath alumina electrolysis and three-layer anode for carrying out said process. 2,938,843, 5-31-60, Cl. 204-67.
- De Varda, Giuseppe, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Multicell closed circuit furnace and fused salt electrolysis process for aluminum production from aluminum oxide. 2,952,592, 9-13-60, Cl. 204-67.
- De Varda, Giuseppe, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Refractories resistant to aggressive melts and treatment for obtaining them. 2,952,605, 9-13-60, Cl. 204-243.
- De Varda, Giuseppe, to Montecatini, Societa Generale per l'Industria Mineraria e Chimica. Self-restoring anode in multi-cell furnaces particularly for the electrolytic production of aluminum. 2,959,527, 11-8-60, Cl. 204-67.
- De Varda, Giuseppe, to Montecatini, Societa Generale per l'Industria Mineraria e Chimica. Method of rapidly starting closed multicell electrolytic furnaces. 2,959,528, 11-8-60, Cl. 204-67.
- De Varda, Giuseppe, to Montecatini, Societa Generale per l'Industria Mineraria e Chimica. Production of aluminum by fused salt electrolysis with vertical or inclined cathodes of carbon and aluminum. 2,959,533, 11-8-60, Cl. 204-244.
- Devaud, Albert J., to Minneapolis-Honeywell Regulator Co. Electrostatic tape and methods of construction. Re. 24,850, 7-26-60, Cl. 154-121.
- Devaud, Albert J., and A. Eng, to Minneapolis-Honeywell Regulator Co. Apparatus for analyzing the motion of a movable machine element. 2,954,265, 9-27-60, Cl. 346-33.
- De Vault, Albert N., to Phillips Petroleum Co. Chlorinated hydrocarbon ashless detergent and lubricating oil compositions containing same. 2,926,140, 2-23-60, Cl. 252-58.
- De Vault, Albert N., to Phillips Petroleum Co. Fractional crystallization process. 2,931,841, 4-5-60, Cl. 260-666.
- De Vault, Albert N., to Phillips Petroleum Co. Deactivation of poisons on contaminated cracking catalysts. 2,946,740, 7-26-60, Cl. 208-120.
- De Vault, Jess E. Hold-down molding. 2,919,459, 1-5-60, Cl. 16-7.



- Devaux, Pierre, to Lampe Norma-Societe Auto-Lampe (Societe Anonyme). Method of manufacturing electric filament lamps, more particularly for motor-car lighting. 2,951,734, 9-6-60, Cl. 316-17.
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- Dever, John A., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,931,763, 4-5-60, Cl. 204-193.2.
- Dever, Lewis A., to The Cincinnati Milling Machine Co. Indexing mechanism. 2,956,452, 10-18-60, Cl. 74-822.
- Dever, Robert W. Leg sheath. 2,937,487, 5-24-60, Cl. 54-82.
- Devereaux, Richard C., and J. Pickles, to Ferro Stamping Co. Body reinforcing lock combination. 2,929,657, 3-22-60, Cl. 296-106.
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- De Vienne, Robert A. and J. P., and P. Grenier. Tight gripping attachment for electric cables and the like. 2,958,548, 11-1-60, Cl. 285-158.
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- De Villers, Edmund J., and W. J. Long, to Paperlynen Co. Disposable type paper head dress. 2,947,992, 8-9-60, Cl. 2-198.
- Devillers, Rene. Suspension systems for motor vehicles. 2,956,796, 10-18-60, Cl. 267-65.
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- De Villiers, Willem J., and D. Bruckmann. Propulsion of bodies such as projectiles, reciprocating members and the like. 2,958,025, 10-25-60, Cl. 318-135.
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- De Vito, Michael F. Voice activated intercommunication system. 2,951,123, 8-30-60, Cl. 179-1.4.
- De Vlieg, Charles B., to De Vlieg Machine Co. Tool grinder. 2,932,131, 4-12-60, Cl. 51-56.
- De Vlieg, Howard R. Milling machine. 2,953,973, 9-27-60, Cl. 90-13.4.
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- Devol, George C. Sensing device for magnetic record. 2,926,844, 3-1-60, Cl. 235-61.11.
- Devon, Harry J., to Jas. H. Matthews & Co. Type holder. 2,940,389, 6-14-60, Cl. 101-381.
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- De Vore, Raymond E., to Griffin Mfg. Co. Hinge. 2,937,399, 5-24-60, Cl. 16-169.
- Devos, Gaston L. A. Homokinetic universal joint. 2,928,263, 3-15-60, Cl. 64-21.
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- De Vost, Valmore F., to United States of America, Navy. Shock direction indicator. 2,935,960, 5-10-60, Cl. 116-114.
- De Vost, Valmore F., to United States of America, Navy. Discriminating copper-ball decelerometer. 2,950,622, 8-30-60, Cl. 73-492.
- De Vost, Valmore F., to United States of America, Navy. Mechanical shock recorder. 2,959,460, 11-8-60, Cl. 346-7.
- De Voto, Earl W., A. M. Garton, and J. E. Horner, to Philip Morris Inc. Control system for tobacco hoppers. 2,948,281, 8-9-60, Cl. 131-21.
- De Vries, Arthur D., and F. J. Buchmann, to Esso Research and Engineering Co. Improving the color of petroleum resins. 2,946,775, 7-26-60, Cl. 260-82.
- De Vries, Gerard, to American Enka Corp. Process for mixing coloring material with viscose. 2,929,731, 3-22-60, Cl. 106-165.
- De Vries, Gerrit, to North American Philips Co., Inc. Non-reciprocal electric coupling device. 2,944,229, 7-5-60, Cl. 333-24.
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- De Vrijer, Frederik W., to North American Philips Co., Inc. Multiplex transmission system. 2,951,903, 9-6-60, Cl. 179-15.
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- Dewan, John T., to Schlumberger Well Surveying Corp. Well logging. 2,953,685, 9-20-60, Cl. 250-83.
- Dewan, John T., to Schlumberger Well Surveying Corp. Methods and apparatus for investigating earth formations. 2,958,780, 11-1-60, Cl. 250-83.3.
- Dewan, John T., and C. W. Johnstone, to Schlumberger Well Surveying Corp. Pulse height analyzer apparatus. 2,961,641, 11-22-60, Cl. 340-172.
- Dewar, Douglas, to Dunlop Rubber Co. Ltd. Braking system for aircraft. 2,926,873, 3-1-60, Cl. 244-111.
- Dewas, Raymond. Weft feeders for weaving looms. 2,923,325, 2-2-60, Cl. 139-123.
- Dewas, Raymond. Weft holding means for weaving looms with continuous weft feed. 2,938,547, 5-31-60, Cl. 139-35.
- De Weese, Charles R., J. W. Lacy, and R. R. Webster, to Texas Instruments Inc. Discriminator circuit. 2,925,501, 2-16-60, Cl. 307-88.5.
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- Dewey, Davis R., II, and J. C. Nygard, to High Voltage Engineering Corp. Apparatus for the efficient use of ionizing radiation produced by microwave linear accelerators. 2,931,941, 4-5-60, Cl. 315-39.
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- Dewey, Rex W., and A. Norwich, to Industrial Nucleonics Corp. Signal distribution system. 2,964,707, 12-13-60, Cl. 325-106.
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- Dewhurst, Frank, and K. Farrer, to Baker Perkins Ltd. Manufacture of biscuits. 2,956,524, 10-18-60, Cl. 107-69.
- Dewick, Edmund S., to Elliott Bros. (London) Ltd. Variable network control. 2,960,667, 11-15-60, Cl. 331-136.



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- De Wilde, Andries C., to General Motors Corp. Modulating valve control system. 2,949,237, 8-16-60, Cl. 236-78.
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- De Witt, Elmer J., and S. J. Averill, to The B. F. Goodrich Co. Composition comprising a thermoplastic resin and keto-acid ester plasticizer. 2,953,540, 9-20-60, Cl. 260-32.2.
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- De Witt, Hobson D., to The Chemstrand Corp. Polymers from dihydrazides. 2,941,984, 6-21-60, Cl. 260-77.5.
- De Witt, Hobson D., to The Chemstrand Corp. Linear polyurethane-semicarbazide. 2,956,986, 10-18-60, Cl. 260-77.5.
- De Witt, Hobson D., and P. H. Hobson, to The Chemstrand Corp. Stabilized acrylonitrile polymer composition and method of making same. 2,946,760, 7-26-60, Cl. 260-29.6.
- De Witt, Hobson D., and A. B. Beindorff, to The Chemstrand Corp. Solutions of polyesters and process for making same. 2,956,974, 10-18-60, Cl. 260-30.2.
- De Witt, John H., Jr., to United States of America. War. Emplacement site locating radio system. 2,939,133, 5-31-60, Cl. 343-11.
- De Witt, John H., Jr. and A. C. Shelton. Television cameras. 2,953,710, 9-20-60, Cl. 315-10.
- De Witt, Richard N., to Haloid Xerox Inc. Charging apparatus. 2,934,650, 4-26-60, Cl. 250-49.5.
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- Dexter, Albert M., Jr., and J. W. Wincze, to Pratt & Whitney Co., Inc. Continuous electric dimension gage. 2,932,089, 4-12-60, Cl. 33-147.
- Dexter, C. H., & Sons, Inc.: *See*—  
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- Dexter & Co. (High Wycombe) Ltd.: *See*—  
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- Dexter, Fred F. Diaper. 2,931,360, 4-5-60, Cl. 128-284.
- Dexter, Fred F. Fabric fastener. 2,931,747, 4-5-60, Cl. 154-43.
- Dexter, Richard D., to United Shoe Machinery Corp. Eyeletting machines for wire terminal forming. 2,946,368, 7-26-60, Cl. 153-1.
- Dexter, Robert G., to Easy Day Research & Engineering Corp. Mop with built-in shaking device. 2,944,431, 7-12-60, Cl. 74-89.
- Dey, George A., to Chicago Pneumatic Tool Co. Retainer for percussive tool. 2,932,523, 4-12-60, Cl. 279-19.5.
- De Yakimac, Alexis A. Scintilloscope. 2,933,603, 4-19-60, Cl. 250-78.
- De Yo, Arthur C. Rudder attachment for outboard motors. 2,956,533, 10-18-60, Cl. 115-18.
- De Young, Jack: *See*—  
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- De Young, John A., M. N. Fairbank, R. C. Jones, C. H. Matz, and O. E. Wolff, to United States of America, Navy. Homing device. 2,935,942, 5-10-60, Cl. 102-3.
- Deyrup, Alden J., to E. I. du Pont de Nemours and Co. Aluminothermal process for preparing calcium-aluminum alloy. 2,955,936, 10-11-60, Cl. 75-135.
- De Zeeuw, John R., G. A. Donovan, and W. C. Sherman, to Chas. Pfizer & Co., Inc. Gibberellin in animal feeds. 2,943,938, 7-5-60, Cl. 99-2.
- De Zeeuw, John R., and F. Sauer, to Chas. Pfizer & Co., Inc. Animal growth stimulant. 2,951,759, 9-6-60, Cl. 99-2.
- De Zelar, Louis P. Camera back assembly. 2,930,304, 3-29-60, Cl. 95-49.
- Deziel, Fred T., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,924,270, 2-9-60, Cl. 158-125.
- Deziel, Fred T., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,955,650, 10-11-60, Cl. 158-128.
- Dgetluck, John, to Pioneer Folding Box Inc. Punch board displays for paint brushes and the like. 2,956,676, 10-18-60, Cl. 206-79.
- Dgetluck, John, to Pioneer Folding Box Inc. Display package particularly for paint brushes and the like. 2,963,150, 12-6-60, Cl. 206-78.
- D'Haem, Marcel P.: *See*—  
Fischer, Howard R., and D'Haem. 2,923,491.  
Fischer, Howard R., and D'Haem. 2,942,507.
- Dhondt, Roland O., C. J. Welsh, and K. Ghahremani, to Union Oil Co. of California. Education apparatus. 2,954,329, 9-27-60, Cl. 202-93.
- Diagraph-Bradley Industries, Inc.: *See*—  
Rabelow, Harold H. 2,932,045.
- Dial-A-Style, Inc.: *See*—  
Reeves, Frank S. 2,921,387.
- Diambra, Henry M.: *See*—  
Bluestone, Henry. 2,920,996.  
Dereich, John E. 2,922,729.  
Huggin, Forrest E., Diambra, and Didra. 2,929,062.
- Diamond Alkali Co.: *See*—  
Annis, Roger L. 2,941,860.  
Annis, Roger L. 2,946,572.  
Baldrige, Joseph R. 2,931,754.  
Berkey, Reynold A., and Bluestone. 2,957,887.  
Bimber, Russell M. 2,958,624.  
Bluestone, Henry. 2,953,573.  
Bluestone, Henry. 2,963,399.  
Bluestone, Henry, and Pyne. 2,937,972.  
Burkholder, Ward J. 2,925,359.  
Cook, Daniel A. 2,943,058.  
Dereich, John E. 2,924,532.  
Dereich, John E. 2,961,846.  
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Eden, Jamal S. 2,927,053.  
Eden, Jamal S. 2,936,323.  
Eden, Jamal S. 2,960,433.  
Eden, Jamal S. 2,961,372.  
Goens, Duane N., Le Duc, and Silsby. 2,965,445.  
Horvath, Roland J. 2,965,682.  
Hovson, Frank P., and Everson. 2,931,778.  
Henda, Frank P., and Foster. 2,926,098.  
Henda, Frank P., and Peeler. 2,952,553.  
Jenney, John W., and Rahn. 2,941,013.  
King, Burnham, W., and Tripp. 2,933,458.  
Lander, James G. 2,965,507.  
Lindemann, Robert F. 2,923,634.  
McBrien, William K. 2,953,537.  
Miller, George A., and Lasco. 2,932,672.  
Miller, George A., and Neros. 2,964,572.  
Moore, Marvin L. 2,961,228.  
Myers, Clyde B. 2,946,653.  
Myers, Clyde B. 2,948,967.  
Neros, Clifford A., and Miller. 2,951,101.  
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Perrin, Tom S., Banner, and Smith. 2,926,069.  
Pyne, William J., Rosen, and Bluestone. 2,939,871.  
Rosen, Irving. 2,928,766.  
Rosen, Irving. 2,965,537.  
Rosen, Irving, and Slezak. 2,943,016.  
Skeeters, Maxwell J. 2,947,792.  
Skeeters, Maxwell J. 2,958,711.  
Weiner, Harry S. 2,957,922.  
Wotiz, John H. 2,958,709.
- Diamond, Allen M., J. Kanbergs, and N. A. Zellmer, to United States of America, Army. Relay switching circuit. 2,933,658, 4-19-60, Cl. 317-148.5.
- Diamond Chain Co., Inc.: *See*—  
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- Diamond Crystal Salt Co.: *See*—  
Buell, Warren M., and Hamachek. 2,964,071.
- Diamond, Harry L.: *See*—  
Zandberg, Paul I., and Diamond. 2,941,890.
- Diamond, Harry L. Pocket secretary. 2,953,397, 9-20-60, Cl. 281-15.
- Diamond, Horace W., to Morton Salt Co. Noncaking rock salt composition. 2,965,444, 12-20-60, Cl. 23-89.
- Diamond, Hyman, to Shell Oil Co. High-temperature lubricants. 2,940,929, 6-14-60, Cl. 252-33.6.
- Diamond, Leslie: *See*—  
Fryar, Ken, and Diamond. 2,946,083.
- Diamond, Martin J., to California Spray-Chemical Corp. Dialkyl iminyl thionophosphates. 2,957,016, 10-18-60, Cl. 260-461.
- Diamond National Corp.: *See*—  
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Carkhuff, Le Roy F. 2,947,228.  
Carkhuff, Le Roy F. 2,948,564.  
Carkhuff, Le Roy F. 2,954,996.  
Chaplin, Merle P. 2,925,863.  
Chaplin, Merle P. 2,938,582.  
Comstock, Alfred E. 2,923,654.  
Crane, Harold S. 2,927,635.  
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Doyle, William V. 2,948,594.  
Fisher, Harry C., and Mather. 2,920,991.  
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Hicks, Justin W. 2,961,043.  
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 Lyons, Herbert R. 2,961,368.  
 Matteson, Russell E. 2,941,693.  
 Nauman, Joseph G. 2,963,213.  
 Penn, John J. 2,948,381.  
 Reifers, Richard F. 2,920,805.  
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 Wells, Roger. 2,920,700.  
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 Wells, Roger. 2,923,068.  
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 Wells, Roger. 2,941,655.  
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 Witt, Edgar C. 2,948,217.  
 Wolter, Harry A. 2,948,337.  
 Wolter, Harry A. 2,948,434.  
 Wolter, Harry A. 2,961,042.  
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 Bruni, John G., and Miller. 2,949,031.  
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 Giss, Kurt. 2,938,513.  
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 Diaz, Javiel,  $\frac{1}{2}$  to A. I. Copelan and  $\frac{1}{2}$  to G. Corral. Sales-promoting apparatus. 2,927,201, 3-1-60, Cl. 235-7.  
 Diaz, Ramon B., to Colgate-Palmolive Co. Abrasive detergent compositions. 2,945,815, 7-19-60, Cl. 252-138.  
 Dibb, George R. Mechanism for converting rotary movement into reciprocatory movement. 2,942,484, 6-28-60, Cl. 74-40.  
 Dibert, Fred. Hot air heating system. 2,962,218, 11-29-60, Cl. 237-55.  
 Dibner, Bern, to Burndy Corp. Method of manufacturing terminal lugs. 2,957,226, 10-25-60, Cl. 29-155.55.  
 Dibner, David, to Burndy Corp. Deep crimping tool. 2,966,192, 12-27-60, Cl. 153-1.  
 Di Cara, Alphonse J., to Simon Adler. Apparatus for opening closed containers and extracting contents thereof. 2,935,929, 5-10-60, Cl. 99-289.  
 Di Cecio, Salvatore A.: *See*—  
 Gould, Merle E., and Di Cecio. 2,941,717.  
 Dichter, Jakob. Machine for the manufacture of small glass bottles or the like from glass tubes. 2,935,819, 5-10-60, Cl. 49-7.  
 Dichtl, Walter: *See*—  
 Kaess, Franz, Kronacher, Hoeger, and Dichtl. 2,940,824.  
 Kronacher, Hermann, and Dichtl. 2,920,940.  
 Dick, A. B., Co.: *See*—  
 Barnes, Casner W., Jr. 2,933,556.  
 Crews, Robert W. 2,928,973.  
 Crews, Robert W., and Barnes. 2,952,796.  
 Crews, Robert W., and Rice. 2,963,606.  
 Fowle, Wallace R. 2,929,316.  
 Fowle, Wallace R. 2,966,301.  
 Fowle, Wallace R., Tregay, and Du Bois. 2,942,877.  
 Perzentka, Thomas R. 2,922,644.  
 Dick, Adolph A. Boat mooring apparatus. 2,920,597, 1-12-60, Cl. 114-230.  
 Dick, Charles W., and G. L. Gray; said C. W. Dick assor. to said G. L. Gray. Washing machine supply and drain assemblies. 2,952,271, 9-13-60, Cl. 137-360.  
 Dick, Clarence R.: *See*—  
 Kundiger, Donald G., and Dick. 2,964,538.  
 Kundiger, Donald G., Morris, and Dick. 2,942,031.  
 Dick, Douglas H. Trousers hanger. 2,931,547, 4-5-60, Cl. 223-95.  
 Dick, Willard K., to United States of America, Army. Fuel jetttion valve. 2,956,866, 10-18-60, Cl. 23-288.  
 Dicke, Oscar H. Timepiece mechanism. 2,927,421, 3-8-60, Cl. 58-109.  
 Dicke, Oscar H. and R. H. Clock. 2,949,728, 8-23-60, Cl. 58-109.  
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 Dicke, Oscar H. and R. H. 2,949,728.  
 Dicke, Robert H. Stable oscillator. 2,927,278, 3-1-60, Cl. 331-3.  
 Dicke, Robert H. Tunable atomic amplifier or oscillator. 2,940,050, 6-7-60, Cl. 330-4.  
 Dicke, Robert H. Molecular storage of information. 2,944,246, 7-5-60, Cl. 340-173.  
 Dicken, Robert W. Well system. 2,946,385, 7-26-60, Cl. 166-88.  
 Dickens, John W., deceased; G. R. Gawehn, executor of said J. W. Dickens. Fish lure. 2,932,113, 4-12-60, Cl. 43-42.44.  
 Dickens, Samuel P.: *See*—  
 McKinley, John K., Smith, and Dickens. 2,950,956.  
 McKinley, John K., Smith, and Dickens. 2,953,518.  
 Dickens, Samuel P., to Texaco Inc. Acetylene making and heavy oil coking process. 2,944,960, 7-12-60, Cl. 208-85.  
 Dicker, Hermanus G. M., to Kunstzijdespinnerij Nyma N.V. Machine for feeding a continuous strip of material. 2,958,451, 11-1-60, Cl. 226-117.

- Dickerman, Gilbert K., F. Kaulakis, and R. L. Savage, to Consolidated Water Power & Paper Co. Method of making printable coated paper. 2,949,352, 8-16-60, Cl. 117-65.  
 Dickerson, Henry A., to Westinghouse Electric Corp. Control apparatus for a motor device. 2,921,712, 1-19-60, Cl. 222-58.  
 Dickerson, Horatio W.: *See*—  
 Eckweiler, Howard J., Jr., Hansell, O'Malley, Barnes, and Dickerson. 2,955,209.  
 Dickerson, John L., and A. McCutchan, to Chemetron Corp. Pipe coupling for remote operation. 2,956,818, 10-18-60, Cl. 285-18.  
 Dickerson, Malon H., to Horizons Inc. Prussian blue image forming process. 2,935,403, 5-3-60, Cl. 96-49.  
 Dickert, Charles T., and A. F. Preuss, Jr., to Rohm & Haas Co. Process for selective extraction of nitrates from aqueous nitrate-sulfate solutions. 2,955,019, 10-4-60, Cl. 23-14.5.  
 Dickey, Clarence A., to Pennsalt Chemicals Corp. Production of dimethylsulfide. 2,930,816, 3-29-60, Cl. 260-609.  
 Dickey, Clyde W., to The Bendix Corp. Magnetostrictive transducer. 2,957,994, 10-25-60, Cl. 310-26.  
 Dickey, Fred E., and T. E. Coppinger, to General Electric Co. Transient frequency meter. 2,954,522, 9-27-60, Cl. 324-78.  
 Dickey, Herbert C., to General Motors Corp. Top roll. 2,922,199, 1-26-60, Cl. 19-142.  
 Dickey, John W., to Curtiss-Wright Corp. Seat construction and the like. 2,946,374, 7-26-60, Cl. 155-179.  
 Dickey, Wallace J.: *See*—  
 McClure, Kenneth R. 2,942,908.  
 Dickey, John W., to Curtiss-Wright Corp. Method of laminating polyurethane foam. 2,957,793, 10-25-60, Cl. 154-100.  
 Dickey, John W., to The Bendix Corp. Fuel consumption meter for automotive vehicles. 2,964,940, 12-20-60, Cl. 73-113.  
 Dickey, Paul S., to Bailey Meter Co. Liquid fuel burner feed control system. 2,929,441, 3-22-60, Cl. 158-36.  
 Dickey, Richard C., to Ferro Corp. Furnace. 2,925,260, 2-16-60, Cl. 263-8.  
 Dickey, Robert B.: *See*—  
 Kramer, Gideon, and Dickey. 2,926,040.  
 Dickhens, Donald F., and O. J. Huffman, Jr., to Alton Box Board Co. Cluster pack. 2,926,781, 3-1-60, Cl. 206-45.31.  
 Dickie, Howard B.: *See*—  
 Millington, Alfred F., and Dickie. 2,964,968.  
 Dickie, Robert J., to Robinson Aviation, Inc. Stabilized mounting system. 2,932,482, 4-12-60, Cl. 248-358.  
 Dickie, William A., B. Krzesinski, and D. Finlayson, to British Celanese Ltd. Process for the manufacture of filter bodies. 2,923,034, 2-2-60, Cl. 18-48.  
 Dickieson, Alton C., to Bell Telephone Laboratories, Inc. Transmission control in a two way communication system. 2,958,733, 11-1-60, Cl. 179-15.  
 Dickinson, Arthur H., to International Business Machines Corp. Data processing machine. 2,922,983, 1-26-60, Cl. 340-149.  
 Dickinson, Arthur H., to International Business Machines Corp. Data processing machine. 2,927,313, 3-1-60, Cl. 340-347.  
 Dickinson, Arthur H., to International Business Machines Corp. Data storage apparatus. 2,935,251, 5-3-60, Cl. 235-61.6.  
 Dickinson, Arthur H., to International Business Machines Corp. Record sensing mechanism. 2,936,112, 5-10-60, Cl. 235-61.11.  
 Dickinson, Arthur H., to International Business Machines Corp. Multiplier-divisor employing transistors. 2,942,780, 6-28-60, Cl. 235-159.  
 Dickinson, Arthur H., to International Business Machines Corp. Apparatus for making magnetic recordings. 2,943,907, 7-5-60, Cl. 346-74.  
 Dickinson, Arthur H., to International Business Machines Corp. Counter responsive to shaft rotation. 2,966,800, 12-27-60, Cl. 235-103.  
 Dickinson, Arthur H., and P. E. Fox, to International Business Machines Corp. Record controlled machine. 2,933,251, 4-19-60, Cl. 235-170.  
 Dickinson, Berton C.: *See*—  
 Jones, Howard A., Garman, and Dickinson. 2,945,780.  
 Jones, Howard A., Garman, and Dickinson. 2,946,718.  
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 Jones, Howard A., Garman, and Dickinson. 2,961,371.  
 Jones, Howard A., Garman, and Dickinson. 2,963,398.  
 Dickinson, Carl W. Nonclogging windshield squirter tip. 2,950,061, 8-23-60, Cl. 239-110.  
 Dickinson, Charles B. Oscillatory motor-generator. 2,944,160, 7-5-60, Cl. 290-1.  
 Dickinson, Clifford L., to E. I. du Pont de Nemours and Co. Certain 3,4-dicyano, 6-oxo pyridones-2, corresponding iminopyrans and processes of preparation. 2,925,422, 2-16-60, Cl. 260-294.9.



- Dickinson, Clifford L., Jr., to E. I. du Pont de Nemours and Co. Chlorotricyanoethylene and process of preparation. 2,942,022, 6-21-60, Cl. 260-465.7.
- Dickinson, Donald L., and S. L. Friedman, to Continental Vending Machine Corp. Cold beverage vender. 2,963,202, 12-6-60, Cl. 222-144.5.
- Dickinson, Horace, to Vapor Recovery Systems Co. Means and techniques for transmitting information. 2,923,925, 2-2-60, Cl. 340-204.
- Dickinson, Jack R., and H. E. Bush, to Foster Refrigerator Corp. Refrigerators. 2,938,363, 5-31-60, Cl. 62-249.
- Dickinson, Jack R., and H. E. Bush, to Foster Refrigerator Corp. Refrigerator. 2,940,632, 6-14-60, Cl. 220-15.
- Dickinson, Louis L. Snow fall indicator. 2,954,690, 10-4-60, Cl. 73-171.
- Dickinson, Malcolm I.: *See—*
- Greco, Anthony J., Luckman, and Dickinson. 2,957,138.
- Dickinson, Nathan L.: *See—*
- Felgar, Donald N., and Dickinson. 2,954,758.
- Dickinson, Ronald S., to Armstrong Patents Co. Ltd. Hydraulic actuating mechanism. 2,924,943, 2-16-60, Cl. 60-54.5.
- Dickinson, Wesley E., to International Business Machines Corp. Circuit for alternately energizing two electro-magnetic devices. 2,951,186, 8-30-60, Cl. 317-123.
- Dickinson, Wesley E., to International Business Machines Corp. Magnetic transducer. 2,961,645, 11-22-60, Cl. 340-174.1.
- Dickinson, William A., F. A. Hemphill, and A. D. Johnson, to Sylvania Electric Products Inc. Image reproduction device structure. 2,939,980, 6-7-60, Cl. 313-82.
- Dickson, David T.: *See—*
- Van Dyke, John W., 2,951,979.
- Van Dyke, John W., and Dickson. 2,951,978.
- Dickson, David T., and J. W. Van Dyke, to Thor P. Ulvestad and David T. Dickson. Reverse pulse generator. 2,951,978, 9-6-60, Cl. 322-6.
- Dickson, Donald C., Jr., to Hoffman Electronics Corp. Photo-voltaic semiconductor apparatus or the like. 2,938,938, 5-31-60, Cl. 136-89.
- Dickson, Donald C., Jr., to Hoffman Electronics Corp. Method of making a photosensitive semi-conductor device. 2,963,390, 12-6-60, Cl. 148-1.5.
- Dickson, Edward J. Floor scrubbing machine. 2,950,494, 8-30-60, Cl. 15-50.
- Dickson, John: *See—*
- Humphries, Harvey G., and Dickson. 2,922,408.
- Dickson, John F.: *See—*
- Robison, Gerson H., and Dickson. 2,960,687.
- Dickel, Joseph J. Self-cleaning rake. 2,945,340, 7-19-60, Cl. 56-400.2.
- Dictaphone Corp.: *See—*
- Di Mattia, Alfred L. 2,933,145.
- Feick, George, and Stedman. 2,936,286.
- Montgomery, John R., and Sherman. 2,958,476.
- Raymond, Henry L. 2,962,633.
- Schueler, Frederick W. 2,961,243.
- Sherman, Ralph H., Jr., and Spears. 2,951,912.
- Shorb, Marion P. 2,961,496.
- Shorb, Marion P. 2,965,722.
- Dictograph Products Co., Inc.: *See—*
- Lehr, Philip N. 2,922,835.
- Lehr, Philip N., and Carlson. 2,964,725.
- Di Cuia, Victor. Double broiler. 2,941,463, 6-21-60, Cl. 99-393.
- Di Cyan, Erwin: *See—*
- Hodgins, George R., Di Cyan, and Timmerman. 2,950,195.
- Diczfalussy, Egon R., O. B. Fernö, H. J. Fex, K. B. Högborg, and T. O. E. Linderot, to Aktiebolaget Leo. High-molecular weight derivatives of steroids containing hydroxyl groups and method of producing the same. 2,928,849, 3-15-60, Cl. 260-397.5.
- Diczfalussy, Egon R., O. B. Fernö, K. B. Högborg, T. O. E. Linderot, and E. T. Rosenberg, to Aktiebolaget Leo. Polymer phosphoric ester anti-enzymatic substances. 2,962,515, 11-29-60, Cl. 260-461.
- Didde, Carl W., and D. A. Glaser. Sheet supporting and handling apparatus. 2,937,868, 5-24-60, Cl. 271-30.
- Didier-Werke A.G.: *See—*
- Lowenstern, Emil, Hasenacker, and Wirtz. 2,934,933.
- Opperbecke, Otto. 2,936,852.
- Didon, Gilbert W., to Evlo Plastics, Inc. Milk bottle holder. 2,961,112, 11-22-60, Cl. 215-100.
- Didra, Warren E.: *See—*
- Huggin, Forrest E., Diambra, and Didra. 2,929,062.
- Didschenko, Rostislav, to Union Carbide Corp. Preparation of anhydrous halides of transition metals. 2,932,553, 4-12-60, Cl. 23-14.5.
- Die, Roy R.: *See—*
- Meredith, Henry H., Jr., and Die. 2,927,642.
- Diebold, Edward J.: *See—*
- Wallace, Clarence L., Jr., and Diebold. 2,921,245.
- Diebold, Edward J., to I-T-E Circuit Breaker Co. Transformer bypass circuit. 2,925,547, 2-16-60, Cl. 321-48.
- Diebold, Edward J., to I-T-E Circuit Breaker Co. Static current regulator for rectifier using flux reversal control. 2,949,572, 8-16-60, Cl. 321-18.
- Diebold, Edward J., to I-T-E Circuit Breaker Co. High speed contacting device. 2,951,188, 8-30-60, Cl. 317-156.
- Diebold, Edward J., to I-T-E Circuit Breaker Co. Electro-magnetic clutch. 2,962,145, 11-29-60, Cl. 192-84.
- Diebold, Inc.: *See—*
- Abbott, Albert L., Paulos, and Sturgis. 2,928,706.
- Blauvelt, Roland G. 2,956,525.
- Graber, Carl D. 2,940,810.
- Graber, Carl D. 2,949,870.
- Diebold, Pierre. System for handling granular material and the like. 2,926,961, 3-1-60, Cl. 302-42.
- Die Casting Machine Tools Ltd.: *See—*
- Mills, Aubrey R. 2,950,680.
- Dieck, Marian I. Holder for writing instruments. 2,926,790, 3-1-60, Cl. 211-69.
- Diedrich, Georg, E. Gaube, and K. Richard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the production of thermoplastic films. 2,952,867, 9-20-60, Cl. 18-1.
- Diedrich, Georg, K. Richard, and E. Gaube, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for strengthening hollow bodies of plastic material. 2,961,711, 11-29-60, Cl. 18-48.
- Diefenderfer, William E., to United Aircraft Corp. Hydro-mechanical propeller control for turbo-prop systems. 2,928,476, 3-15-60, Cl. 170-160.2.
- Diehl, Alan V.: *See—*
- Diehl, Victor and A. V. 2,959,818.
- Diehl, Charles C. Deodorizer with electrical heating element. 2,942,090, 6-21-60, Cl. 219-19.
- Diehl Gesellschaft mit beschränkter Haftung: *See—*
- Huber, Siegfried. 2,943,492.
- Diehl, Max H., to General Electric Co. Signal amplifier system. 2,929,998, 3-22-60, Cl. 330-22.
- Diehl, Max H., and H. H. Martin, to General Electric Co. Pulse detection apparatus. 2,958,825, 11-1-60, Cl. 328-111.
- Diehl, William L., and H. S. Bell, to Wheeling Steel Corp. Continuous hot dip galvanizing of metal strip. 2,952,568, 9-13-60, Cl. 117-102.
- Diehl, Victor and A. V. Molding apparatus. 2,959,818, 11-15-60, Cl. 18-42.
- Diel, Aloys. Injector for gas compression. 2,959,345, 11-8-60, Cl. 230-95.
- Diels, Albert, to Poudreries Reunies de Belgique S.A. Scatter mine. 2,923,236, 2-2-60, Cl. 102-8.
- Diem, Albert R. Oscillator. 2,924,787, 2-9-60, Cl. 331-152.
- Diemer, Gesinus: *See—*
- Van Santen, Johannes G., and Diemer. 2,948,816.
- Diemer, Gesinus, and H. A. Klasens, to North American Philips Co., Inc. Device comprising a photo-conductive part and an electro-luminescent part. 2,922,892, 1-26-60, Cl. 250-213.
- Diemer, Gesinus, and F. Gerzon, to North American Philips Co., Inc. Circuit arrangement for converting an electrical signal as a function of time into an electrical signal as a function of position. 2,942,131, 6-21-60, Cl. 313-94.
- Diener, James H., to General Motors Corp. Drive shaft bearing support. 2,935,362, 5-3-60, Cl. 308-28.
- Diener, Richard, to Berliner Maschinenbau-Actien-Gesellschaft formerly L. Schwartzkopff. Machine tool. 2,924,016, 2-9-60, Cl. 33-125.
- Diener, Richard, to Berliner Maschinenbau AG, vorm. L. Schwartzkopff. Devices for the automatic adjustment more particularly of carriages or the like on machine tools. 2,925,000, 2-16-60, Cl. 77-4.
- Diener, Robert E., to The Warner & Swasey Co. Turret indexing mechanism. 2,940,341, 6-14-60, Cl. 74-824.
- Diener, Rudolf, to Elemag-Anstalt. Electromagnetic press. 2,951,437, 9-6-60, Cl. 100-256.
- Dienes, Edward K.: *See—*
- Arnold, Melvin R., and Dienes. 2,929,792.
- Diepeveen, Maurits H., to North American Philips Co., Inc. Adjustable electronic timing device. 2,965,815, 12-20-60, Cl. 317-142.
- Diercks, Allen D.: *See—*
- Locanthi, Bart N., and Diercks. 2,948,841.
- Dierichs, Wolfgang: *See—*
- Aisfeld, Max, and Dierichs. 2,934,453.
- Dierstein, Roy H., to General Electric Co. Electrical terminal and terminal board assembly. 2,945,205, 7-12-60, Cl. 339-198.
- Diery, Helmut: *See—*
- Bartl, Hugo, Bestian, Diery, Heyna, and Ruckert. 2,961,349.
- Dies, Herbert F., and R. D. Grogan, to Hurd Lock & Mfg. Co. Keyhole cover for lock. 2,931,209, 4-5-60, Cl. 70-455.
- Diesbach, F. B.: *See—*
- Diesbach, Frederick B. 2,949,318.
- Diesbach, Frederick B., to P. Benninghofen and F. B. Diesbach, trustees. Autographic register. 2,949,318, 8-16-60, Cl. 282-3.
- Diesel, John W., to Erdco, Inc. Electrostatic controls. 2,927,255, 3-1-60, Cl. 317-144.
- Diesel, John W., to Erdco, Inc. Electrostatic controls and memory systems. 2,931,954, 4-5-60, Cl. 317-144.
- Diesel, John W., to Erdco, Inc. Electrostatic controls. 2,942,077, 6-21-60, Cl. 200-87.
- Diesfeld, Franz, to J. P. Sauer & Sohn, Gesellschaft mit Beschränkter Haftung. Eddy current brake. 2,920,220, 1-5-60, Cl. 310-93.



- Dieter, Norman H., Jr., to Sonotone Corp. Sound-record transducing device for stereophonic and like recording systems. 2,934,610, 4-26-60, Cl. 179-100.41.
- Dieter, Norman H., Jr., to Sonotone Corp. Stereophonic pickup with mechanical rumble filter. 2,953,648, 9-20-60, Cl. 179-100.41.
- Dieter, Norman H., Jr., to Sonotone Corp. Reinforced hollow piezoelectric ceramic transducer structures. 2,955,216, 10-4-60, Cl. 310-9.4.
- Dieter, Norman H., Jr., and E. H. Bauer, to Sonotone Corp. Phonograph pickups. 2,955,170, 10-4-60, Cl. 179-100.41.
- Dietrich, Richard E., to Philips Drill Co. Self-drilling expansion shell chuck and adapter for use with manual installation device. 2,930,627, 3-29-60, Cl. 279-19.
- Dietrich, Charles. Belt. 2,946,064, 7-26-60, Cl. 2-312.
- Dietert, Harry W. and R. L., to Harry W. Dietert Co. Sand conditioning equipment. 2,957,130, 10-18-60, Cl. 324-61.
- Dietert, Harry W., Co.: See—  
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- Dietert, Randolph L.: See—  
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- Diether, Jean: See—  
Wagner, Ernst, and Diether. 2,951,044.
- Dietrich, Anselm F.: See—  
De Lange, Owen E., and Dietrich. 2,941,200.
- Dietrich, Cornelius F.: See—  
Baker, Deryck A., and Dietrich. 2,933,013.  
Smith, Harry J., and Dietrich. 2,930,283.
- Dietrich, Cornelius F., to Optical Measuring Tools Ltd. Methods for indicating profiles. 2,958,255, 11-1-60, Cl. 88-14.
- Dietrich, Eric R., to General Motors Corp. Leveling valve control mechanism. 2,939,326, 6-7-60, Cl. 74-96.
- Dietrich, Eric R., to General Motors Corp. Fluid suspension control mechanism. 2,965,389, 12-20-60, Cl. 280-124.
- Dietrich, Eric R., and E. G. Peckham, to General Motors Corp. Pneumatic vehicle suspension system. 2,945,701, 7-19-60, Cl. 280-124.
- Dietrich, Georg, to Zahnradfabrik Friedrichshafen. Manual and hydraulic power actuated steering gear. 2,931,239, 4-5-60, Cl. 74-388.
- Dietrich, Harold A., and W. W. Hay, to Air Reduction Co., Inc. Vaporizer mounting with automatic shutoff. 2,944,545, 7-12-60, Cl. 128-191.
- Dietrich, Henri: See—  
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- Dietrich, Howard H., to General Motors Corp. Charge forming device. 2,949,903, 8-23-60, Cl. 123-119.
- Dietrich, Howard H., C. H. Jorgensen, and W. T. Nickel, to General Motors Corp. Summing mechanism. 2,942,496, 6-28-60, Cl. 74-675.
- Dietrich, Howard H., J. D. Hiller, R. Lay, M. R. Rowe, and H. C. Zeisloft, to General Motors Corp. Afterburner fuel scheduling control with enrichment at low compressor discharge pressure. 2,943,441, 7-5-60, Cl. 60-35.6.
- Dietrich, Leo, to Apra Precipitator Corp. Apparatus for electrostatic precipitation. 2,958,392, 11-1-60, Cl. 183-7.
- Dietrich, Paul, and R. Günther, to Maschinenfabrik Augsburg-Nürnberg A.G. Gripping device for printing presses. 2,928,344, 3-15-60, Cl. 101-412.
- Dietrich, Raymond H. Tumbler holder. 2,926,879, 3-1-60, Cl. 248-311.
- Dietrich, Wallace E., Jr. Representation and measurement of physical entities electrically. 2,955,762, 10-11-60, Cl. 235-184.
- Dietrich, Walter, to International Standard Electric Corp. Circuit arrangement for the automatic voltage regulation of television picture tubes. 2,966,624, 12-27-60, Cl. 321-18.
- Dietrich, Wilhelm, H.-J. Mertens, and F. Wetter, to Chemische Werke Huls Aktiengesellschaft. Mineral oil base lubricant. 2,925,386, 2-16-60, Cl. 252-47.5.
- Dietsch, Francis W.: See—  
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- Dietrich, Otto: See—  
Jaepfelt, Alfred, Dietrich, and Werner. 2,924,556.
- Dietz, Alma: See—  
De Boer, Clarence, Dietz, and Hoeksema. 2,928,844.
- Dietz, Gerald E., to Baso Inc. Electromagnetic control device. 2,938,703, 5-31-60, Cl. 251-129.
- Dietz, Karl, and G. M. R. Lorentz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Self-hardening alkali- and acid proof water glass cements capable of swelling. 2,946,695, 7-26-60, Cl. 106-84.
- Dietz, Karl, and G. M. R. Lorentz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Furfural-aldehyde polycondensation products with unsaturated hydrocarbons and process of making. 2,956,040, 10-11-60, Cl. 260-41.
- Dietz, R. E., Co.: See—  
Kaighin, Hall Y., and Greacen. 2,932,210.
- Dietz, Richard E.: See—  
Delap, Joseph A., and Dietz. 2,965,585.
- Dietz, Robert R. Bowling ball with rotatable finger grip. 2,936,177, 5-10-60, Cl. 273-63.
- Dietz, Thomas J. Process of polymerizing mixtures of polyorganosiloxanes and vinyl monomers and products obtained. 2,965,593, 12-20-60, Cl. 260-29.6.
- Dietz, Valentin, to Dillith Corp., Societe Anonyme. Method of forming a printing plate. 2,962,961, 12-6-60, Cl. 101-148.2.
- Dietz, William: See—  
Cuny, Richard P., Dietz, Antrim, and Bunker. 2,941,363.  
Moore, Howard H., Jr., and Dietz. 2,949,929.  
Moore, Howard H., Jr., and Dietz. 2,949,930.
- Dietz, William J., Jr., to The Bendix Corp. Pressure regulator. 2,963,039, 12-6-60, Cl. 137-494.
- Dietzgen, Eugene, Co.: See—  
Davey, Clarence P. 2,956,743.
- Dietzler, Andrew J.: See—  
Britton, Edgar C., and Dietzler. 2,950,325.
- Dietzsch, Hans J.: See—  
Dietzsch, Otto, Sr., H. J., and O. 2,930,115.
- Dietzsch, Hans-Joachim and O., to Trikotfabriken J. Schiesser A.G. Complex artificial filaments. 2,932,079, 4-12-60, Cl. 28-82.
- Dietzsch, Otto: See—  
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- Dietzsch, Otto, Jr.: See—  
Dietzsch, Otto, Sr., H. J., and O. 2,930,115.
- Dietzsch, Otto, Sr. Artificial hollow thread and device for making same. 2,965,925, 12-27-60, Cl. 18-8.
- Dietzsch, Otto, Sr., H. J. Dietzsch, and O. Dietzsch, Jr. Method of producing a modular body for controlled mixing or emission of a plurality of fluids. 2,930,115, 3-29-60, Cl. 29-406.
- Diesel, Willy H., to The Max Ams Machine Co. Method and apparatus for flanging parts of cans. 2,956,610, 10-18-60, Cl. 153-59.
- Diesel, Willy H., and J. George, Jr., to The Max Ams Machine Co. Can closing machine. 2,925,797, 2-23-60, Cl. 113-28.
- Diffenderfer, Harold R.: See—  
Ressler, Carl T., and Diffenderfer. 2,953,000.
- Di Francesco, Alphonse B.: See—  
Connelly, Gordon F., and Di Francesco. 2,960,280.
- Diggins, Bartholomew, and R. E. Le Blanc, to American Research Bureau, Inc. Knob switch. 2,954,443, 9-27-60, Cl. 200-11.
- Diggle, Hammond P., H. F. Ross, B. N. Smith, and A. D. Willhauck, to United Shoe Machinery Corp. Component straightening machine. 2,928,452, 3-15-60, Cl. 153-32.
- DiGiorgio, Leonardo. Floating balance. 2,936,164, 5-10-60, Cl. 265-73.
- Digiovanni, John J.: See—  
Sader, Louis A. 2,966,001.
- DiGiovanni, Mario, to Statham Instruments, Inc. Strain wire transducer. 2,948,873, 8-9-60, Cl. 338-4.
- Di Giovanni, Mario, to Statham Instruments, Inc. Transducer. 2,958,056, 10-25-60, Cl. 336-30.
- Di Giovanni, Mario, to Statham Instruments, Inc. Transducer. 2,963,671, 12-6-60, Cl. 338-4.
- Digirolamo, John V. M., to The Lionel Corp. Impulse motor. 2,954,491, 9-27-60, Cl. 310-21.
- Di Girolamo, Joseph, to CTS Corp. Sub-miniature concentric tandem variable resistor and switch control. 2,942,221, 6-21-60, Cl. 338-200.
- Di Girolamo, Joseph, and W. H. Budd, to CTS Corp. Electric circuit controlling device. 2,945,933, 7-19-60, Cl. 200-122.
- Digital Control Systems, Inc.: See—  
Cooley, Austin G. 2,924,659.  
Cooley, Austin G. 2,947,985.  
Steele, Floyd G. 2,933,248.  
Steele, Floyd G. 2,954,549.  
Steele, Floyd G. 2,964,708.
- Digital Techniques, Inc.: See—  
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Engelbart, Douglas C. 2,925,530.  
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- Dijksterhuis, Popko R., and J. C. Van Houten, to North American Phillips Co., Inc. Mould for hot-pressing thin flat articles. 2,961,699, 11-29-60, Cl. 18-5.3.
- Dijkstra, Christiaan, to Shell Oil Co. Dispersing gas in a confined liquid. 2,953,306, 9-20-60, Cl. 239-407.
- Di Lauro, Patrick J. Educational apparatus. 2,924,889, 2-16-60, Cl. 35-9.
- Dilendik, Fred: See—  
Matthysse, Irving F., and Dilendik. 2,951,110.
- Dilger, LeRoy E.: See—  
Kilby, Jack S., and Dilger. 2,945,163.
- Di Liddo, Andrew J.: See—  
Meyer, Henry L., and Di Liddo. 2,940,190.
- Dillith Corp., Societe Anonyme: See—  
Dietz, Valentin. 2,962,961.
- Dill, Beatrice J.: See—  
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- Dill, Douglas G., deceased, by B. J. Dill, special administrator: to United States of America, Navy. Electrical function generator. 2,938,185, 5-24-60, Cl. 338-89.
- Dill Mfg. Co., The: See—  
Boyer, Ralph K. 2,947,073.  
Boyer, Ralph K., and Gaillard. 2,940,167.  
Boyer, Ralph K., and Krohn. 2,943,969.  
Neece, Roger H. 2,944,580.
- Dillaby, Edwin F., to United States of America, Air Force. Formation of point contact transistors. 2,948,951, 8-16-60, Cl. 29-25.3.
- Dillard, Carvel. Fish hook extractors. Re. 24,902, 12-6-60, Cl. 43-53.5.
- Dille, Kenneth L., and H. E. Vermillion, to Texaco Inc. Fuel for and method of operating a jet engine. 2,959,915, 11-15-60, Cl. 60-35.4.



- Dille, Roger M.: *See*—  
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Eastman, Du Bois, Dille, and Chapman. 2,960,476.
- Dille, Roger M., and R. W. Chapman, to Texaco Inc. Preventing silica scale formation in slurry feeding processes. 2,963,355, 12-6-60, Cl. 48-206.
- Dille, Roger M., R. W. Chapman, and D. Eastman, to Texaco Inc. Recovery of heavy metals from hydrocarbons. 2,920,936, 1-12-60, Cl. 23-50.
- Dillenburg, Albert, and W. Ley. Hydraulic telescope-type shock absorber. 2,953,223, 9-20-60, Cl. 188-100.
- Dillenburg, Wolfgang, to Fernseh GmbH. Automatic flying spot scanner light intensity control. 2,962,545, 11-29-60, Cl. 178-54.
- Diller, Isaac M., to H. Brout. Effervescent concentrate. 2,953,459, 9-20-60, Cl. 99-78.
- Dilley, Jesse R., and F. C. Wohlrabe, to United States of America, Agriculture. Process and apparatus for removing rat excreta pellets and other foreign materials from whole corn kernels. 2,962,230, 11-29-60, Cl. 241-9.
- Dilley, Neil E., to United States of America, Navy. Radio proximity fuze having means for balancing out battery voltage fluctuations. 2,941,157, 6-14-60, Cl. 331-75.
- Dilling, Elmer D.: *See*—  
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- Dilling, Elmer D., to Titanium Metals Corp. of America. Clamping device. 2,922,872, 1-26-60, Cl. 219-161.
- Dilling, Elmer D., to Titanium Metals Corp. of America. Sampling apparatus. 2,963,785, 12-13-60, Cl. 30-165.
- Dillingham, Frederick L., to Soderhamn Machine Mfg. Co. Log-debarking head mounted on traveling carriage and pivotable about two mutually transverse axes. 2,925,106, 2-16-60, Cl. 144-208.
- Dillman, Earnest J., to American Radiator & Standard Sanitary Corp. Thermostatic shower valve. 2,932,453, 4-12-60, Cl. 236-12.
- Dillman, Earnest J., to American Radiator & Standard Sanitary Corp. Remote control means for thermally sensitive element and mixing valve employing such means. 2,932,454, 4-12-60, Cl. 236-12.
- Dillman, Earnest J., T. E. Noakes, and H. G. Philps, to American Radiator & Standard Sanitary Corp. Air conditioning system. 2,936,595, 5-17-60, Cl. 62-197.
- Dillman, Edward E., and D. Ringo, to Engineers & Fabricators, Inc. Adsorption system. 2,919,764, 1-5-60, Cl. 183-41.
- Dillman, Edward E., D. Ringo, and F. C. Boston, to Engineers & Fabricators, Inc. Adsorption-adsorption method. 2,919,766, 1-5-60, Cl. 183-114.2.
- Dillon, Edward T.: *See*—  
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- Dillon, Eugene F., to General Electric Co. Heat-insulating units for refrigerator cabinets. 2,939,811, 6-7-60, Cl. 154-45.
- Dillon, John D.: *See*—  
Marshall, Byron O., Jr., and Dillon. 2,941,720.
- Dillon, Joseph F., Jr., to Bell Telephone Laboratories, Inc. Single crystal inductor core of magnetizable garnet. 2,938,183, 5-24-60, Cl. 336-218.
- Dillon, Wendell M., to Watts Regulator Co. Air line filter. 2,942,691, 6-28-60, Cl. 183-67.
- Dillon, William C., Sr. Dynamometer. 2,963,904, 12-13-60, Cl. 73-141.
- Dills, Raymond L., to General Electric Co. Muffler arrangement for hermetic compressors. 2,935,244, 5-3-60, Cl. 230-58.
- Dilmore, Colonel R., Jr.: *See*—  
De Marco, Albert G., and Dilmore. 2,941,932.
- Di Maggio, Carmelo A.: *See*—  
Lamada, Ralph M., Jr., Whitehouse, Di Maggio, Hall, and Wood. 2,954,906.
- Di Maio, Vincent, and N. T. Miller. Pipe insulator and method of making same. 2,949,953, 8-23-60, Cl. 154-28.
- Di Marco, Aurelio: *See*—  
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- Di Martino, Barbero, to North American Aviation, Inc. Bonding material containing methacrylic acid and partially polymerized methylmethacrylate. 2,921,045, 1-12-60, Cl. 260-45.5.
- Di Matteo, Paul L., to Sperry Rand Corp. Voltage discriminating circuit. 2,956,158, 10-11-60, Cl. 250-27.
- Di Mattia, Alfred L., to Dictaphone Corp. Headphone device. 2,933,145, 4-19-60, Cl. 181-24.
- Dimeff, John. Directly strained, capacitance strain gage. 2,933,665, 4-19-60, Cl. 317-246.
- Dimick, Joseph V. Gun telescope mounting. 2,937,448, 5-24-60, Cl. 33-50.
- Dimick, Keene P., and B. Makower, to United States of America, Agriculture. Purification of fruit essences and production of solid compositions therefrom. 2,949,368, 8-16-60, Cl. 99-140.
- Dimler, William A., Jr., and A. A. Schetelich, to Esso Research and Engineering Co. Treatment of plasticizer esters with alkali metal borohydrides. 2,957,023, 10-18-60, Cl. 260-473.
- Dimler, William A., Jr., and J. A. Mountain, to Esso Research and Engineering Co. Distillation of esters. 2,955,989, 10-11-60, Cl. 202-57.
- Dimmling, Werner: *See*—  
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- Dimon, Donald F.: *See*—  
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- Dimond, George H., to Consolidated Packaging Machinery Corp. Combined fitment applying and capping machine. 2,963,837, 12-13-60, Cl. 53-67.
- Dimond, Lloyd E., to General Plywood Corp. High speed frictional glossifying medium. 2,949,623, 8-23-60, Cl. 15-209.
- Di Monico, George S.: *See*—  
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- Dimroth, Hermann: *See*—  
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- Dinard, Kenneth J. Anti-stall system for airplanes. 2,923,499, 2-2-60, Cl. 244-76.
- Dinberg, Cornelius, and C. S. Schollenberger, to The B. F. Goodrich Co. Alkenyl isocyanate-substituted carbamates. 2,958,704, 11-1-60, Cl. 260-468.
- D'Incerti, Lodovico, and G. Del Torre. Panoramic motion picture apparatus. 2,966,096, 12-27-60, Cl. 88-16.8.
- Dinder, Henry L.: *See*—  
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- Dineen, John J.: *See*—  
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- Dinger, Alfons W., to Schoppe & Paeser G.m.b.H. Gear testing equipment. 2,956,345, 10-18-60, Cl. 33-179.5.
- Dinger, Edward H., to General Electric Co. Constant current motor control. 2,964,691, 12-13-60, Cl. 318-338.
- Dinglerwerke Aktiengesellschaft: *See*—  
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- Dingley, Edward N., Jr. Telegraphic synchronizing system. 2,921,978, 1-19-60, Cl. 178-17.5.
- Dingley, Edward N., Jr. Apparatus for detecting malfunctions in telegraph systems. 2,951,120, 8-30-60, Cl. 178-22.
- Dingley, Edward N., Jr. Printing telegraph signal mutator. 2,956,121, 10-11-60, Cl. 178-26.
- Dingman, Glen H., to Bendix Aviation Corp. Ignition apparatus. 2,930,826, 3-29-60, Cl. 123-149.
- Dingman, V. Scott: *See*—  
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- Di Nicolantonio, Frank, Jr., to Westinghouse Electric Corp. Automatic position control apparatus. 2,953,773, 9-20-60, Cl. 340-149.
- Dininger, Marion W.: *See*—  
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- Dinino, Francis X.: *See*—  
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- Di Niro, Carmen A., to Carrier Corp. Heat exchange construction. 2,950,092, 8-23-60, Cl. 257-255.
- Dinkel, Anton, and R. Endress, to A. and K. Dinkel. Apparatus for steering trailers when backing. 2,929,642, 3-22-60, Cl. 280-443.
- Dinkel, Kurt: *See*—  
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- Dinlocker, Robert L., to Electro-Mechanical Instrument Co. Relays. 2,922,862, 1-26-60, Cl. 200-104.
- Dinning, John R., to Toledo Scale Corp. Relay type floor selector. 2,933,155, 4-19-60, Cl. 187-29.
- Dinning, John R., to Toledo Scale Corp. Elevator supervisory control. 2,933,156, 4-19-60, Cl. 187-29.
- Dinning, Neil F. Ski-training device. 2,964,315, 12-13-60, Cl. 272-57.
- Dinning, Robert W.: *See*—  
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- Dinowitz, Edward E.: *See*—  
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- Dinsmore, Dawson J. Counter-balance connector device. 2,952,884, 9-20-60, Cl. 20-52.2.
- Dinsmore, Joseph A.: *See*—  
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- Dinsmore, Marion G., Jr.: *See*—  
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- Di Nunzio, Joseph: *See*—  
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- Dinwiddie, James A.: *See*—  
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- Diodene, John A., to Jersey Production Research Co. Tool for testing well head equipment. 2,951,363, 9-6-60, Cl. 73-40.5.
- Dion, Georges. Precision potentiometer. 2,927,293, 3-1-60, Cl. 338-162.
- Dion, Henry W.: *See*—  
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- Moore, Alexander M., De Wald, Westland, Bartz, Dion, and Fusari. 2,965,633.
- Di Paolo, Thomas V., and H. S. Vasilevskis, to Philco Corp. Combined shielding and centering means for cathode ray tubes. 2,926,272, 2-23-60, Cl. 313-75.
- Di Pasquale, Rosario, 35% to J. J. Cannon. Print coating device. 2,963,726, 12-13-60, Cl. 15-118.
- Di Perna, Mario S. Air generator electric vehicle. 2,941,613, 6-21-60, Cl. 180-65.
- Diperstein, David. Metal repair device. 2,951,506, 9-6-60, Cl. 138-99.
- Di Pietro, William O., to National Research Corp. Electrolytic production of titanium. 2,951,021, 8-30-60, Cl. 204-64.
- Dippel, Cornelis J.: *See*—  
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- D'Ippolito, Joseph M. Partitioned folding containers. 2,939,622, 6-7-60, Cl. 229-39.
- Directomat, Inc.: *See*—  
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- Directorate General of Telecommunications, Ministry of Communications: *See*—  
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- Dirigo Sales Corp.: *See*—  
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- Diriwachter, Hans, to J. R. Geigy, A.-G. Process for stabilizing esters of acids of phosphorus and stable compositions of esters of acids of phosphorus. 2,925,419, 2-16-60, Cl. 260-251.
- Dirks, Gerhard. Sorting of signals recorded on a magnetizable signal carrier. 2,928,077, 3-8-60, Cl. 340-174.
- Dirks, Gerhard. High speed printing devices. 2,928,896, 3-15-60, Cl. 178-34.
- Dirks, Gerhard. Decimal adder-subtractor device utilizing magnetic recordings. 2,931,572, 4-5-60, Cl. 235-176.
- Dirks, Gerhard. Recording of digital information in parallel form. 2,964,739, 12-13-60, Cl. 340-174.
- Dirksen, Nick R. Top seal for bottom lock pumps. 2,943,683, 7-5-60, Cl. 166-106.
- Disch, Ellis V., to Plastic Film Corp. Knit goods printing process. 2,921,517, 1-19-60, Cl. 101-426.
- Disch, Ellis V., to Plainfield Patents Corp. Knit goods printing machine. 2,946,280, 7-26-60, Cl. 101-178.
- Dishal, Milton, and M. Rogoff, to International Telephone and Telegraph Corp. Aerial navigation beacon system. 2,924,820, 2-9-60, Cl. 343-102.
- Dishon, Cyrus L. Fishing lure. 2,964,870, 12-20-60, Cl. 43-42.02.
- Diskus-Werke, Frankfurt am Main, Akt.-Ges.: *See*—  
Madrich, Hermann. 2,940,224.
- Dismant, John H., to International Minerals & Chemical Corp. Process for beneficiating ores. 2,948,395, 8-9-60, Cl. 209-127.
- Disney, Richard C.,  $\frac{1}{2}$  to J. R. Nelson. Telephone answering device. 2,927,160, 3-1-60, Cl. 179-6.
- Disney, Walt, Productions: *See*—  
Disney, Walter E., and Iwerks. 2,942,516.
- Disney, Walter E., and U. Iwerks, to Walt Disney Productions. Panoramic motion picture presentation arrangement. 2,942,516, 6-28-60, Cl. 88-16.6.
- Dispositivos Industriales S.A.: *See*—  
Suarez, Pedro S. 2,957,182.
- Di Stefano, Carlo: *See*—  
Regoli, Bengasi, and Di Stefano. 2,965,730.
- Distel, Joseph W., to Polaroid Corp. Photographic shutter. 2,960,016, 11-15-60, Cl. 95-10.
- Distillers Co. Ltd., The: *See*—  
Bellringer, Frederick J. 2,948,662.  
Bellringer, Frederick J., and Crocker. 2,928,884.  
Capp, Clifford W., Crocker, and Salt. 2,948,760.  
Cooper, Leslie E., and Gower. 2,930,765.  
Gasson, Edward J., and Hadley. 2,921,088.  
Hadley, David J., and Hollingworth. 2,926,189.  
Hawkins, Edwin G. E. 2,944,066.  
Jenkins, Philip A. 2,942,037.  
Jenkins, Philip A. 2,942,038.  
Jenkins, Philip A. 2,948,761.  
Lacey, Richard N. 2,930,766.  
Lawson-Hall, Griffiths, and Millidge. 2,926,191.  
Munday, Charles W. 2,926,253.  
Munday, Charles W. 2,962,656.  
Speedie, John D., and Hull. 2,951,017.
- Distin, Lionel S., to Ericsson Telephones Ltd. Electromagnetic relays. 2,946,873, 7-26-60, Cl. 200-87.
- Distler, Edward C., to Jennings Machine Corp. Apparatus for handling shell casings and the like. 2,928,666, 3-15-60, Cl. 263-6.
- Distler, Edward C., to Jennings Machine Corp. Apparatus for extruding tubing of polytetrafluoroethylene. 2,941,240, 6-21-60, Cl. 18-14.
- Distler, Maria T.: *See*—  
Urtel, Rudolf. 2,936,335.
- Di Taranto, Rocco A.: *See*—  
Ackerman, Sanford S., and Di Taranto. 2,920,868.
- Dithmar, Karl, and E. Naujoks, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the treatment of fibrous materials. 2,927,840, 3-8-60, Cl. 8-111.
- Ditisheim et Cie, Fabriques Vulcain et Volta: *See*—  
Ditisheim, Robert, and Robert. 2,929,197.
- Ditisheim, Robert, and H. Robert, to Ditisheim et Cie, Fabriques Vulcain et Volta. Alarm wrist-watches. 2,929,197, 3-22-60, Cl. 58-57.5.
- Di Toro, Michael J., to United States of America, Air Force. Long range communication system. 2,935,604, 5-3-60, Cl. 250-6.
- Ditter, Francis J., and W. C. Kaercher, Jr., to Federal Industries, Inc. Cut-off attachment for sod cutting machines. 2,942,674, 6-28-60, Cl. 172-20.
- Ditting, Adolf: *See*—  
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- Dittman, Billy F., to Thompson Ramo Wooldridge, Inc. Starting and lubricating system for portable power plant. 2,961,550, 11-22-60, Cl. 290-2.
- Dittman, Emil M., J. J. Coleman, and E. F. Steinhoff, to Servel, Inc. Flasher switch mechanism. 2,920,165, 1-5-60, Cl. 200-122.
- Ditto, Inc.: *See*—  
Maguire, Richard G., and Hedrick. 2,936,707.  
Seven, Raymond P., and Miyashiro. 2,937,085.
- Ditto, Richard S., to E. I. du Pont de Nemours and Co. Transducer. 2,948,842, 8-9-60, Cl. 323-51.
- Dittrich, Wolfgang, and M. Krause, to VEB Elektroschaltgerate Grimma. Transformer. 2,957,149, 10-18-60, Cl. 336-135.
- Di Tullio, Flavia T., to International Latex Corp. Brassiere. 2,923,301, 2-2-60, Cl. 128-484.
- Ditzel, Johannes. Dispensing devices for strip material. Re. 24,778, 2-9-60, Cl. 271-2.4.
- Divco-Wayne Corp.: *See*—  
Jones, George L., and Bateman. 2,935,630.
- Diveley, William R., to Hercules Powder Co. Organic thiophosphates as insecticides. 2,954,116, 10-4-60, Cl. 260-340.6.
- Diversey Corp., The: *See*—  
Dvorkovitz, Vladimir, Berst, and Leist. 2,962,448.
- Di Vette, Randolph E., to Minneapolis-Honeywell Regulator Co. Vessel occluder. 2,921,584, 1-19-60, Cl. 128-346.
- Di Vette, Randolph E., to Minneapolis-Honeywell Regulator Co. Diaphragm pump. 2,954,738, 10-4-60, Cl. 103-44.
- Divoky, Richard D.: *See*—  
Krupp, Anton M., Divoky, and Elrick. 2,922,137.
- Di Vozzi, Frank, to Hassenfeld Bros. Inc. Toy case. 2,924,373, 2-9-60, Cl. 229-44.
- Dixco: *See*—  
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- Dixl S.A.: *See*—  
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- Dixie Chemical Co., Inc.: *See*—  
Cook, Vernice. 2,934,419.
- Dixie Cup Co.: *See*—  
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- Dixie Products, Inc.: *See*—  
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- Dixon Automatic Tool, Inc.: *See*—  
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Dixon, Paul H., and Darsie. 2,933,180.
- Dixon, Charles R., to Aluminum Co. of America. Electric welding apparatus. 2,961,528, 11-22-60, Cl. 219-98.
- Dixon Corp.: *See*—  
Rulon-Miller, Robert, and Tabor. 2,947,039.
- Dixon, David W.: *See*—  
Northcote, John A., and Dixon. 2,926,479.
- Dixon, Jack R. Recreational apparatus. 2,944,816, 7-12-60, Cl. 273-26.
- Dixon, Joseph, Crucible Co.: *See*—  
Sidebotham, Melvin H., Sr., G. L. Sidebotham, and M. H. Sidebotham, Jr. 2,957,379.
- Dixon, Paul H., to United States of America, Army. Latch mechanism for a 3.5" rocket launcher. 2,938,431, 5-31-60, Cl. 89-1.7.
- Dixon, Paul H., to Dixon Research, Inc. Indexing mechanism. 2,941,424, 6-21-60, Cl. 74-814.
- Dixon, Paul H. Supporting structure for machine tools. 2,961,019, 11-22-60, Cl. 144-32.
- Dixon, Paul H., and B. Darsie, to Dixon Automatic Tool, Inc. Transfer mechanism. 2,933,180, 4-19-60, Cl. 198-221.
- Dixon, Reginald J., and L. Jones, to Wickman Ltd. Lathe chucks. 2,957,699, 10-25-60, Cl. 279-2.
- Dixon Research, Inc.: *See*—  
Dixon, Paul H. 2,941,424.
- Dixon, Stanley, and E. J. Goldberg, to E. I. du Pont de Nemours and Co. Curing of high molecular weight polymers. 2,965,553, 12-20-60, Cl. 204-154.
- Dixon, Thomas P., to Technicolor Corp. Printing timer. 2,961,483, 11-22-60, Cl. 178-5.2.
- Dixson, Bruce E.: *See*—  
Bell, Frank C., Dixon, Ellsworth, and James. 2,940,172.  
Dixson, Bruce E., and S. E. Westman, to Northrop Corp. Discriminator for use with aircraft auto pilots. 2,923,500, 2-2-60, Cl. 244-77.
- Djerassi, Carl: *See*—  
Rosenkranz, George, Romo, and Djerassi. 2,946,784.
- Djerassi, Carl, G. Rosenkranz, and J. Romo, to Syntex S.A.  $\Delta^2$ -allopregnene compounds. 2,924,596, 2-9-60, Cl. 260-239.55.
- Djerassi, Carl, F. Sondheimer, A. Sandoval, and G. Rosenkranz, to Syntex S.A. Process for the production of 19-nor-4-pregn-21-ol-3,20-dione. 2,925,427, 2-16-60, Cl. 260-397.4.
- Djerassi, Carl, and G. Rosenkranz, to Syntex S.A. 1-methyl-1,3,5,6,16 estrapentaenes and a process for making them. 2,925,428, 2-16-60, Cl. 260-397.4.
- Djerassi, Carl, H. J. Ringold, F. Sondheimer, and G. Rosenkranz, to Syntex S.A. 19-nor-17 $\alpha$  ethinyl-androstan-17 $\beta$ -ol-3-one. 2,940,989, 6-14-60, Cl. 260-397.4.
- Djerassi, Carl, F. Sondheimer, and G. Rosenkranz, to Syntex, S.A.  $\Delta^8$ -22 $\alpha$ -spirosten-3 $\alpha$ -ol-7,11-dione and esters thereof and process for the production thereof. 2,945,028, 7-12-60, Cl. 260-239.55.
- Djidiich, Robert, R. W. and H. Strodtman, to Standard Tool & Mfg. Co. Machine tool control mechanism. 2,957,374, 10-25-60, Cl. 77-33.5.
- Djuvik, Carl, to Jones & Laughlin Steel Corp. Pelletizing apparatus. 2,923,965, 2-9-60, Cl. 18-1.
- Dlouhy, John A., and D. L. Tabern. Diagnostic chair. 2,962,589, 11-29-60, Cl. 250-50.



- Bluehosh, Henry N.: *See*—  
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Dlugos, Gerald S., to Borg-Warner Corp. Pump. 2,931,302, 4-5-60, Cl. 103-4.  
Dlugos, Gerald S., to Borg-Warner Corp. Pump. 2,931,303, 4-5-60, Cl. 103-4.  
Dmitroff, George A., to United Aircraft Corp. Bearing and lubricant tester. 2,957,335, 10-25-60, Cl. 73-10.  
Doak Aircraft Co., Inc.: *See*—  
Doak, Edmund R. 2,944,395.  
Nelson, Norman E. 2,948,111.  
Doak, Edmund R., to Doak Aircraft Co., Inc. Means and methods of neutralizing and converting thrust components. 2,944,395, 7-12-60, Cl. 60-35.54.  
Doak, Edmund R. Vertical take-off aircraft construction. 2,961,189, 11-22-60, Cl. 244-12.  
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Anderson, William T. 2,954,118.  
Grage, Casper. 2,923,181.  
Doan, Roscoe L. Automatic transmission attachment. 2,929,469, 3-22-60, Cl. 184-105.  
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Doane, Harry C.: *See*—  
Boylan, Henry W., and Doane. 2,933,942.  
Doba, Stephen, Jr., to Bell Telephone Laboratories, Inc. Television transmission evaluator. 2,945,178, 7-12-60, Cl. 324-57.  
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Boyle, Archibald R. 2,937,913.  
Dobbins, Mark, to Fenestra, Inc. Sound absorbing structure. 2,944,622, 7-12-60, Cl. 181-33.  
Dobbins, Walter J., to American Can Co. Nozzle with tamper-proof seal. 2,932,436, 4-12-60, Cl. 222-541.  
Dobbins, Willis E.: *See*—  
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Eckdahl, Donald E., Sprague, Dobbins, Wilson, and Sarkissian. 2,954,166.  
Dobbins, Willis E., C. R. Williams, H. H. Sarkissian, D. E. Eckdahl, F. G. Steele, and A. E. Wolf, Jr., to Northrop Corp. Binary incremental slope computer. 2,921,740, 1-19-60, Cl. 235-197.  
Dobbs, Russell S., to Philadelphia Gear Works, Inc. Valve operating mechanism. 2,946,338, 7-26-60, Cl. 137-22.  
Dobbs, William B. Bag supporting device. 2,954,195, 9-27-60, Cl. 248-101.  
Dobell, Curzon, to The Preload Co., Inc. Tank construction. 2,932,964, 4-19-60, Cl. 72-13.  
Dober, George J., to Minnesota Mining & Mfg. Co. Process for coloring coarse aggregate. 2,934,455, 4-26-60, Cl. 117-66.  
Dobes, Michael J., to The National Acme Co. Snap action switch. 2,958,747, 11-1-60, Cl. 200-78.  
Dobes, Michael J., and C. A. Schurr, to The National Acme Co. Electrical switch mechanism. 2,927,183, 3-1-60, Cl. 200-163.  
Dobkins, Joe W., to Welx, Inc. Machine for blocking screw threads. 2,927,485, 3-8-60, Cl. 77-3.  
Dobkowitz, Bernard K. Non-capsizable recreation boat. 2,932,040, 4-12-60, Cl. 9-3.  
Doble, Abner, to McCulloch Corp. Steam power system. 2,949,013, 8-16-60, Cl. 60-65.  
Doble Engineering Co.: *See*—  
Doble, Frank C. 2,922,951.  
Povey, Edmund H. 2,923,879.  
Povey, Edmund H., and Dawes. 2,922,952.  
Doble, Frank C., to Doble Engineering Co. High voltage phase measurements. 2,922,951, 1-26-60, Cl. 324-83.  
Doble, Warren, to Jabsco Pump Co. Rotor-shaft connection. 2,923,563, 2-2-60, Cl. 237-52.  
Doblin, Arnold S., and W. A. Kucklinsky. Card guide device. 2,930,467, 3-29-60, Cl. 197-127.  
Dobratz, Elmer H., to Koppers Co., Inc. Activation of aluminum. 2,921,876, 1-19-60, Cl. 148-13.1.  
Dobratz, Elmer H., to Monsanto Chemical Corp. Purification of fumaric acid. 2,950,316, 8-23-60, Cl. 260-537.  
Dobreff, Aileen L. Deflector or guard for child's toilet seat. 2,930,050, 3-29-60, Cl. 4-237.  
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Dobrikin, Harold L., to Berg Airrectro Products Co. Single throw switch. 2,935,581, 5-3-60, Cl. 200-83.  
Dobrikin, Harold L., to Berg Mfg. and Sales Co. Flexible hose support. 2,948,450, 8-9-60, Cl. 224-42.1.  
Dobrowolski, Jan: *See*—  
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Dobry, Joseph F.: *See*—  
Weigle, William C., Benedict, and Dobry. 2,926,100.  
Dobry, Joseph F., and W. E. Benedict, to Congoleum-Nairn Inc. Apparatus for producing decorative composition sheets. 2,962,081, 11-29-60, Cl. 154-20.  
Dobry, Joseph F., and W. E. Benedict. Segment wheel feeder. 2,962,381, 11-29-60, Cl. 117-16.  
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Dobson, Elliott E.: *See*—  
Gooch, William R., and Dobson. 2,947,418.  
Dobson, Ernest W., J. V. D. Fear, and F. R. Shuman, Jr., to Sun Oil Co. Centrifugal dewaxing process. 2,952,609, 9-13-60, Cl. 208-33.  
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Dobson, Richard N., to Dominion Foundries and Steel Ltd. Combined highway and rail freight units. 2,963,986, 12-13-60, Cl. 105-4.  
Dochterman, Richard W., to General Electric Co. Submersible pump-motor. Re. 24,909, 12-20-60, Cl. 103-87.  
Dock, Nils, to Aktiebolaget Svenska Flaktfabriken. Pre-treating raw tobacco. 2,959,176, 11-8-60, Cl. 131-140.  
Dock, Sydney: *See*—  
Mueller, Alvin E. 2,958,167.  
Docken, Melford H., 1/2 to C. W. Lind. Device for cutting sheet material. 2,934,822, 5-3-60, Cl. 30-228.  
Dockrell, Albert C. Tire deflating-inflating device. 2,939,478, 6-7-60, Cl. 137-223.  
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Baker, Dwight L., and Dockstader. 2,925,345.  
Dockstader, Wilmer B., and L. A. Thoenes, to The Kendall Co. Unitary non-adherent dressings. 2,923,298, 2-2-60, Cl. 128-296.  
Doczi, John, to Warner-Lambert Pharmaceutical Co. Method of purifying sulfated polysaccharides. 2,959,583, 11-8-60, Cl. 260-234.  
Dodd, Edmund L., to Pneumatic Scale Corp., Ltd. Weighing machine. 2,932,483, 4-12-60, Cl. 249-18.  
Dodd, William O., Jr., and C. A. Hicks. Centrifugal flying toy. 2,947,108, 8-2-60, Cl. 46-77.  
Dodds, Alexander S.: *See*—  
Dodds, Robert E. and A. S. 2,950,125.  
Dodds, Robert E. and A. S., to Maxwell-Dodds Mfg. Co. Ltd. Stake release and resetter. 2,950,125, 8-23-60, Cl. 280-145.  
Dodds, Robert M. Space frame support for skew bridge. 2,953,797, 9-27-60, Cl. 14-16.  
Dodge, Adiel Y., to Borg-Warner Corp. One-way clutches. 2,930,461, 3-29-60, Cl. 192-45.1.  
Dodge, Adiel Y. Wheel brakes for vehicles. 2,924,300, 2-9-60, Cl. 188-70.  
Dodge, Adiel Y. Combined shoe and disc brake. 2,920,721, 1-12-60, Cl. 188-70.  
Dodge, Adiel Y., to Borg-Warner Corp. One-way clutches. 2,940,567, 6-14-60, Cl. 192-45.1.  
Dodge, Adiel Y., to Borg-Warner Corp. One way clutches. 2,966,246, 12-27-60, Cl. 192-45.1.  
Dodge, Austin P., to Johnson Service Co. Refrigerant flow control apparatus. 2,964,924, 12-20-60, Cl. 62-209.  
Dodge, Carl, to Texaco Inc. Automatic gain control amplifier circuit. 2,943,268, 6-28-60, Cl. 330-145.  
Dodge, Erle H.: *See*—  
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Dodge, Frederick D., to Minneapolis-Honeywell Regulator Co. Controller. 2,944,558, 7-12-60, Cl. 137-82.  
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Firth, David. 2,943,499.  
Dodge, Nathaniel S., Jr., L. L. Hohl, J. B. Jones, and M. E. Negley, to The American Rubber Mfg. Co. Resilient idler and support. 2,947,409, 8-2-60, Cl. 198-192.  
Dodge, Robert W. Materials handling machine. 2,952,084, 9-13-60, Cl. 37-117.5.  
Dodge, Ronald D., and W. O. Cralle, to International Business Machines Corp. Torque limiting clutch. 2,930,463, 3-29-60, Cl. 192-81.  
Dodge, Ronald D., and N. D. Walton, to International Business Machines Corp. Decimal tabulation mechanism. 2,958,409, 11-1-60, Cl. 197-178.  
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Dodginton, Sven H. M., to International Telephone and Telegraph Corp. Antenna decoupling arrangement. 2,947,987, 8-2-60, Cl. 343-180.  
Dodginton, Sven H. M., and R. L. Johnson, to International Telephone and Telegraph Corp. Comparison circuitry. 2,924,821, 2-9-60, Cl. 343-106.  
Dodson, Guy R., to Esco Corp. Flight fixture assembly. 2,958,415, 11-1-60, Cl. 198-200.  
Dodson, James H. Medical and surgical proctologic treatment table. 2,958,565, 11-1-60, Cl. 311-7.  
Dodson, Joseph. Balloon clip hanger. 2,931,133, 4-5-60, Cl. 46-90.  
Dodson, Raymond M., to G. D. Searle & Co. Bicyclic thiazole derivatives. 2,933,497, 4-19-60, Cl. 260-251.  
Dodson, Raymond M., to G. D. Searle & Co. 3-oxygenated androstena [16,17-C]-3'-methylpyrazoles and derivatives. 2,937,168, 5-17-60, Cl. 260-239.5.  
Dodson, Raymond M., to G. D. Searle & Co. Piperazinoalkyl sulfones. 2,952,681, 9-13-60, Cl. 260-268.  
Dodson, Raymond M., to G. D. Searle & Co. 3,17-bisoxoxygenated androst-4-EN-9a-ols. 2,964,543, 12-13-60, Cl. 260-397.45.  
Dodson, Raymond M., and R. C. Tweit, to G. D. Searle & Co. Oxygenated derivatives of 4,6-pregnadiene-3,20-dione. 2,924,611, 2-9-60, Cl. 260-397.3.  
Dodson, Raymond M., and C. G. Bergstrom, to G. D. Searle & Co. 11-oxygenated 16-halo-17-hydroxyprogesterones. 2,951,857, 9-6-60, Cl. 260-397.45.



- Dodsworth, Harold E., to Monroe Calculating Machine Co. Motor reversing means for calculating machines. 2,935,166, 5-3-60, Cl. 192-02.
- Dodwell, John M. Metallic V-belt. 2,920,494, 1-12-60, Cl. 74-233.
- Dodwell, John M. Apparatus for seed planting. 2,960,258, 11-15-60, Cl. 221-93.
- Doeden, Roland E., to Doeden Tool Corp. Angle drive attachment for air operated hand tool. 2,946,315, 7-26-60, Cl. 121-34.
- Doeden Tool Corp.: See—  
Doeden, Roland E. 2,946,315.
- Doeg, Ralph W., to American Motors Corp. Refrigerating apparatus connecting rod assembly. 2,959,068, 11-8-60, Cl. 74-579.
- Doelman, Henry, to Eldema Corp. Lamp socket resistor. 2,949,595, 8-16-60, Cl. 338-70.
- Doelling, George L., and C. B. Swander, to Wagner Electric Corp. Hydraulic brake fluid. 2,921,906, 1-19-60, Cl. 252-79.
- Doelter, Randolph, and A. Weissman, to The New Zipper Corp. Slide fastener. 2,928,156, 3-15-60, Cl. 24-205.1.
- Doern, Frank B. Index table. 2,949,049, 8-16-60, Cl. 74-822.
- Doepel, Wallace A., H. C. Edgar, L. P. Gajda, and W. E. Palen, to Arthur Colton Co. Compression coating tablet press. 2,946,298, 7-26-60, Cl. 107-1.
- Doepker, Francis B. Draft bar and carrier for harrows and the like. 2,926,929, 3-1-60, Cl. 280-411.
- Doerfer, Richard E., and V. L. Rugen, to Deere & Co. Shaft retainer for epicyclic gearing and the like. 2,959,073, 11-8-60, Cl. 74-801.
- Doering, Charles W.: See—  
Evans, Thomas, Doering, and Beach. 2,942,483.
- Doering, George I., to Industrial Nucleonics Corp. Measurement and controlling system for a dough machine. 2,965,050, 12-20-60, Cl. 107-69.
- Doering, William V. E., and P. M. La Flamme, to The Carwin Co. Process for increasing the carbon chain length of an olefin. 2,933,544, 4-19-60, Cl. 260-680.
- Doeringhaus, Ernst H.: See—  
Menke, Joseph F., and Doeringhaus. 2,920,569.
- Doerr, Dale D., and W. H. Grip, to Kaiser Aluminum & Chemical Corp. Pallet having swivable loading and unloading ramps. 2,936,985, 5-17-60, Cl. 248-120.
- Doerr, Edward L., to Monsanto Chemical Co. Thiosulfate surfactant. 2,934,553, 4-26-60, Cl. 260-453.
- Doerr, Edward L., and V. R. Gaertner, to Monsanto Chemical Co. Thiosulfate process. 2,921,952, 1-19-60, Cl. 260-453.
- Doerr, William J., to The Bendix Corp. Automatic feeder and discharge device for a centerless grinder mechanism. 2,954,648, 10-4-60, Cl. 51-103.
- Doerries, George H., to Curtiss-Wright Corp. Power transmitting device with spring clutch actuation. 2,939,329, 6-7-60, Cl. 74-388.
- Doerwald, Albert, to Benrus Watch Co., Inc. Pilfer-proof display cabinet. 2,935,202, 5-3-60, Cl. 211-4.
- Doetsch, Wilhelm. Manufacture of envelopes. 2,920,539, 1-12-60, Cl. 93-63.
- Doetsch, Wilhelm. Method and apparatus for the production of envelopes with gummed closing flaps. 2,944,470, 7-12-60, Cl. 93-62.
- Dogliani, Majer. Footwear or sabot with metal sole and heel. 2,953,862, 9-27-60, Cl. 36-15.
- Dogliotti, Eugene C., J. C. Barry, and C. W. Mann, to United States of America, Army. Impregnation of the grain side of leather with polysulfides. 2,933,418, 4-19-60, Cl. 117-135.5.
- D'Ogny, Francois, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Herbicidal compositions. 2,924,516, 2-9-60, Cl. 71-2.2.
- Doherty, Charles H., to E. I. du Pont de Nemours and Co. Tandem windup. 2,919,865, 1-5-60, Cl. 242-35.5.
- Doherty, Lewis S. Gravity roof ventilator. 2,924,165, 2-9-60, Cl. 98-42.
- Doherty, John H., and A. E. J. Owen, to Farrington Mfg. Co. Printing device. 2,935,939, 5-10-60, Cl. 101-269.
- Doherty, Thomas E., and R. B. Keller, to United Aircraft Corp. Aeronautical propeller spinner. 2,928,475, 3-15-60, Cl. 170-135.743.
- Doherty, Wilfred T.: See—  
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- Doherty, William H., to Bell Telephone Laboratories, Inc. Magnetic transmission systems. 2,929,034, 3-15-60, Cl. 333-84.
- Doherty, William H., to Bell Telephone Laboratories, Inc. Electrical conductor having transposed conducting members. 2,930,833, 3-29-60, Cl. 174-34.
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- Dohler, Oscar: See—  
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- Dohler, Oscar, and B. Epstein, to Compagnie Generale de Telegraphie Sans Fil. Ladder type delay line. 2,920,227, 1-5-60, Cl. 315-3.5.
- Dohler, Oskar, and J. P. Nalot, to Compagnie Generale de Telegraphie Sans Fil. Ultra-high frequency tubes. 2,956,204, 10-11-60, Cl. 315-39.3.
- Dohm & Nelke, Inc.: See—  
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- Dohmen, Heinrich, to N.V. Briko. Process for the manufacture of coal briquettes. 2,922,704, 1-26-60, Cl. 44-15.
- Dohmen, Heinrich, to N.V. Briko. Process for the manufacture of fuel briquettes. 2,922,705, 1-26-60, Cl. 44-24.
- Dohr, Manfred: See—  
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- Dohr, Manfred, H.-J. Krause, and C. Wulff, to Henkel & Cie. G.m.b.H. N-acylamino-carboxylic acid-ethylene oxide addition products. 2,943,099, 6-28-60, Cl. 260-404.
- Dohr, Manfred, H.-J. Krause, and C. Wulff, to Henkel & Cie. G.m.b.H. Preparation of acylamino carboxylic acids. 2,956,068, 10-11-60, Cl. 260-404.5.
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- Dohrer, Francis J., deceased; C. H. Dohrer, executrix, to C. H. Dohrer, legatee. Fishway. 2,922,282, 1-26-60, Cl. 61-21.
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- Dojide, Jack R., and V. C. Moore, to General Motors Corp. Transmission. 2,947,199, 8-2-60, Cl. 74-688.
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- Dolby, John W., to Configured Tube Products Co. Gas burner. 2,960,157, 11-15-60, Cl. 158-116.
- Dolby, John W. Method of and apparatus for forming bends in tubing. 2,963,778, 12-13-60, Cl. 29-157.
- Dolby, John W., and J. T. Alger, to Configured Tube Products Co. Valves for gas burners or the like. 2,963,042, 12-6-60, Cl. 137-628.
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- Doleman, Jack, and W. V. Morgan, to The British Rayon Research Assn. Seal for fluidized bed. 2,938,276, 5-31-60, Cl. 34-95.
- Doleman, Jack, and W. V. Morgan, to The British Rayon Research Association. Heat treatment of filaments, fibres, threads, films and sheet material. 2,964,852, 12-20-60, Cl. 34-95.
- Dolgorkov, Gregory S. Drawing instrument. 2,923,061, 2-2-60, Cl. 33-112.
- Dolian, Frank E., and S. Hormats, to the United States of America, War. Sorbents and process for their preparation. 2,963,441, 12-6-60, Cl. 252-190.
- Dolinsky, Stanley. Warp knitting guide. 2,962,883, 12-6-60, Cl. 66-86.
- D'Olive, Charles R.: See—  
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- Doll, August, to J. P. Bemberg, Aktiengesellschaft. Device for the removal of liquids adhering to running textile threads. 2,960,777, 11-22-60, Cl. 34-1.



- Doll, Phillip B., and M. A. Bobal, to Union Carbide Corp. Method of making impervious carbon articles. 2,962,386, 11-29-60, Cl. 117-46.
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- Wilber, Paul F. 2,962,121.
- Dollinger, Robert E., to Phillips Petroleum Co. Carbon black furnace and operation. 2,961,300, 11-22-60, Cl. 23-209.4.
- Dollison, William W., to Otis Engineering Corp. Means for carrying out a removable flow tube program. 2,944,605, 7-12-60, Cl. 166-143.
- Dollison, William W., to Otis Engineering Corp. Means for carrying out a removable flow tube program. 2,962,097, 11-29-60, Cl. 166-136.
- Dollman, David Y.: See—
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- Newhard, Nelson J., Jr., and Dollman. 2,936,254.
- Dolman, Clarence D., to M. MacDonald. Desiccated coconut milk emulsion extracts and processes of producing the same. 2,941,888, 6-21-60, Cl. 99-125.
- Dolz, Heinrich, to Sofix A.G. Oscillatory drives more particularly for small refrigerating machines. 2,931,925, 4-5-60, Cl. 310-27.
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- Dolza, John, to General Motors Corp. Dual balanced air meter for split engine. 2,947,298, 8-2-60, Cl. 123-127.
- Dolza, John, to General Motors Corp. Fuel injection system. 2,957,464, 10-25-60, Cl. 123-119.
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- Domann, Helmut, to Robert Bosch, G.m.b.H. Electric lighting power generator for vehicles. 2,951,195, 8-30-60, Cl. 322-25.
- Dombeck, Edward K., M. Hinkle, and D. B. Thomas, to Bendix Aviation Corp. Automatic adjuster. 2,938,610, 5-31-60, Cl. 188-79.5.
- Dombrowski, Frank A., and W. T. MacLeish, to Optical Gaging Products, Inc. Process for marking thermoplastic surfaces and resultant product. 2,936,209, 5-10-60, Cl. 8-4.
- Dombrowski, Henry S., and C. H. Winter, Jr., to E. I. du Pont de Nemours and Co. Production of refractory metals. 2,922,710, 1-26-60, Cl. 75-84.
- Dombrowski, Joseph A., to Sylvania Electric Products Inc. Electroluminescent lamp. 2,966,604, 12-27-60, Cl. 313-108.
- Dombrowski, Theodor, to Wilhelm Hegenscheidt Kommanditgesellschaft. Pressure resistance controlled polishing apparatus. 2,935,784, 5-10-60, Cl. 29-90.
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- Domeshek, Sol. Optical radar simulator. 2,924,026, 2-9-60, Cl. 35-10.4.
- Domeshek, Sol. Stereoscopic range estimating training device. 2,930,142, 3-29-60, Cl. 35-10.4.
- Domeshek, Sol. Rangefinder with adjustable reticle. 2,954,720, 10-4-60, Cl. 88-2.6.
- Domeshek, Sol. Stereo ranging attachment for large transparency projector. 2,958,957, 11-8-60, Cl. 35-25.
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- Don, James E. Movable drinking fountain. 2,948,476, 8-9-60, Cl. 239-24.
- Donahay, John W. Process for producing smoked cereal food. 2,942,981, 6-28-60, Cl. 99-80.
- Donahue, Edwin G., to Hercules Powder Co. Treating protein hydrolysates. 2,937,199, 5-17-60, Cl. 260-529.
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- Donaldson, George R., to Universal Oil Products Co. Isomerization process. 2,924,628, 2-9-60, Cl. 260-666.
- Donaldson, George R., to Universal Oil Products Co. Isomerization process. 2,924,629, 2-9-60, Cl. 260-666.
- Donaldson, George R., to Universal Oil Products Co. Hydroisomerization process. 2,945,898, 7-19-60, Cl. 260-666.
- Donaldson, George R., and F. J. Riedl, to Universal Oil Products Co. Hydroisomerization process. 2,952,715, 9-13-60, Cl. 260-666.
- Donaldson, Harris M., to Brumley-Donaldson Co. Buckle and strap tying machine. 2,954,813, 10-4-60, Cl. 153-1.
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- Donaldson, John S. Surgical procedure and apparatus for use in carrying out the same. 2,935,068, 5-3-60, Cl. 128-348.
- Donaldson, John S. Driver's cane for supplemental accelerator operation. 2,960,885, 11-22-60, Cl. 74-482.
- Donaldson, John W., and H. F. Davis, Jr., to Quebec Metallurgical Industries Ltd. Method for treating nickel sulphide ore concentrates. 2,934,428, 4-26-60, Cl. 75-101.
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- Donan, John F., D. J. Daugherty, and W. E. Dobbins, to The National Cash Register Co. Memory selecting system. 2,935,734, 5-3-60, Cl. 340-174.
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- Donath, Ernest. Garment having set-in inverted box pleat structure. 2,947,993, 8-9-60, Cl. 2-243.
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- Doncesse, George, and R. J. Farber, to Hazeltine Research, Inc. Power supply for electronic equipment. 2,931,946, 4-5-60, Cl. 315-96.
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- Donges, Hans, to Johann Vaillant: Kommanditgesellschaft. Regulator device for gas burners. 2,939,482, 6-7-60, Cl. 137-614.19.
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- Donnan, Robert A., and T. H. Toeppen, to International Business Machines Corp. Type bar drive. 2,938,615, 5-31-60, Cl. 197-17.
- Donnay, Jacques R., to Societe Nouvelle de L'Outillage R.B.V. et de la Radio Industrie (R.B.V.-R.I.). Short range navigational and landing system. 2,930,844, 3-29-60, Cl. 178-5.6.
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- Donnell, Conrad K., R. M. Kennedy, and A. Schneider, to Sun Oil Co. Catalytic reforming process employing a blend of selected hydrocarbon fractions. 2,933,445, 4-19-60, Cl. 208-64.
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- Donnelly, Warren L., to Union Carbide Corp. Flexible composite article. 2,963,782, 12-13-60, Cl. 29-183.5.
- Donner, Josef, to Kauermann Kommanditgesellschaft. Torsion elastic coupling. 2,958,213, 11-1-60, Cl. 64-11.
- Donner, Verne P., to International Harvester Co. Positive displacement pump. 2,931,312, 4-5-60, Cl. 103-174.
- Donner, Verne P., G. S. Allin, Sr., and G. S. Allin, Jr., to International Harvester Co. Joint for connecting a pair of members. 2,921,800, 1-19-60, Cl. 280-495.
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- D'Onofrio, Anthony: *See*—  
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- Donohue, Anthony J. Sectional boilers. 2,934,046, 4-26-60, Cl. 122-225.
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- Doody, Patrick J., and B. L. Geopfert, to Shell Oil Co. Offshore platform and method of erecting the same. 2,940,265, 6-14-60, Cl. 61-46.
- D'Ooge, Charles L., to United States of America, Navy. Variable thrust solid propellant rocket motor. 2,949,009, 8-16-60, Cl. 60-35.6.
- D'Ooge, Leonard. Airseal closure device. 2,935,925, 5-10-60, Cl. 98-36.
- Doolen, Orville K., to Gulf Research & Development Co. Wiper voltage compensated servosystem. 2,944,201, 7-5-60, Cl. 318-28.
- Dooley, Philip G., to United States of America, Navy. Air inlet construction. 2,958,195, 11-1-60, Cl. 60-39.69.
- Dooley, William D. Valve rotating device. 2,935,058, 5-3-60, Cl. 123-90.
- Dooley, William P.: *See*—  
Simpson, Paul A., and Dooley. 2,958,097.
- Dooley, William P., to American Viscose Corp. Additive injecting and blending apparatus for filament spinning. 2,961,223, 11-22-60, Cl. 259-9.
- Doolin, John H.: *See*—  
Jekat, Walter K., Doolin, and Esatow. 2,956,505.
- Dooling, Henri C., to Skil Corp. Hedge trimming device. 2,964,845, 12-20-60, Cl. 30-216.
- Doolittle, Donald B.: *See*—  
Ballard, Raymond M., Daniels, and Doolittle. 2,957,554.  
Ballard, Raymond M., Daniels, Doolittle, and Haber. 2,936,977.
- Cotton, Robert B., and Doolittle. 2,939,310.
- Doolittle, Donald B., Planing surface position actuating system. 2,919,870, 1-5-60, Cl. 244-105.
- Doolittle, Donald B., and R. J. Haber, to All American Engineering Co. Jet power launching system. 2,948,291, 8-9-60, Cl. 137-22.
- Doolittle, Fred B. Contamination and moisture resistant insulator. 2,947,801, 8-2-60, Cl. 174-141.
- Doolittle, Frederick S., to The Shurkatch Fishing Tackle Co., Inc. Fish spear. 2,947,562, 8-2-60, Cl. 294-61.
- Doorenbos, Norman J., to General Aniline & Film Corp. Nitrotyrill dye bases and vinyls thereof derived from 2-cyanomethylazoles. 2,953,561, 9-20-60, Cl. 260-240.
- Doorley, Francis M., Jr.: *See*—  
Goldenhar, Leonard E., Mockrin, and Doorley. 2,965,231.
- Doorman, Ferdinand A.: *See*—  
Kooljman, Pieter L., Doorman, and Kortland. 2,933,451.
- Dopera, Rudolph. Supporting device for ceramic ware. 2,927,362, 3-8-60, Cl. 25-153.
- Doperalski, Eugene J.: *See*—  
Kodra, Esper, and Doperalski. 2,925,306.
- Dopheide, Otto W., to Northern Electric Co., Ltd. Device for testing continuity and capacitance of circuit elements. 2,946,949, 7-26-60, Cl. 324-51.
- Dopp, Paul, and H. Littmann, to C. Zeiss. Device for producing coagulations, particularly in the fundus of the human eye. 2,930,379, 3-29-60, Cl. 128-396.
- Dopplmaier, George. Drain valve. 2,946,342, 7-26-60, Cl. 137-217.
- Doppstadt, Adolph: *See*—  
Siemer, Harm, and Doppstadt. 2,943,022.
- Doran Brothers, Inc.: *See*—  
Marindin, Frederick R. 2,962,846.
- Doran, Charles E.: *See*—  
Sigler, Harold, and Doran. 2,956,769.
- Doran, Thomas J.: *See*—  
Frewer, William C. 2,937,397.
- Dorand, René, to Giravions Dorand. Helicopter simulating system, in particular for studying hovering flight. 2,958,141, 11-1-60, Cl. 35-12.
- Doresjak, Charles: *See*—  
Hugo, Victor H., and Doresjak. 2,959,945.
- Dorendorf, Heinz, to Siemens and Halske Aktiengesellschaft Berlin and Munich. Diffusion transistor and method of making it. 2,945,286, 7-19-60, Cl. 29-25.3.
- Dorer, Oscar H., to Worthington Corp. Pumping station. 2,922,372, 1-26-60, Cl. 103-11.
- Dorey, Geoffrey P.: *See*—  
McKeggie, William A., Dorey, Godden, Morris, and Cotton. 2,925,867.
- Dorey, George B., to Enterprise Railway Equipment Co. Pneumatic and gravity load discharging hopper car. 2,926,962, 3-1-60, Cl. 302-52.
- Dorey, George B., to Enterprise Railway Equipment Co. Outlet construction for hopper car. 2,926,963, 3-1-60, Cl. 302-52.
- Dorey, George B., to Enterprise Railway Equipment Co. Selective pneumatic and gravity discharge car hopper construction. 2,950,144, 8-23-60, Cl. 302-52.
- Dorey, George B., to Enterprise Railway Equipment Co. Hopper car outlet construction. 2,950,145, 8-23-60, Cl. 302-52.
- Dorey, George B., to Enterprise Railway Equipment Co. Discharging means for hopper car. 2,962,325, 11-29-60, Cl. 302-52.
- Dorf, Richard H. Automatic tuning device for polyphonic instruments. 2,919,620, 1-5-60, Cl. 84-454.
- Dorfel, Paul, to W. W. Werner. Meat cutting or processing machine. 2,937,679, 5-24-60, Cl. 146-67.
- Dorfman, Hiller D., to Westinghouse Electric Corp. Circuit breaker. 2,942,079, 6-21-60, Cl. 200-106.
- Dorfmann, Oskar, to Federal Carton Corp. Box blank folding machine. 2,937,578, 5-24-60, Cl. 93-49.



- Dorgelo, Eduard G.: *See*—  
Gerlach, Hans G., and Dorgelo. 2,949,557.
- Doring, Walter F.: *See*—  
Anderson, Edward P., and Doring. 2,951,111.
- Dorinson, Amos, to Sinclair Refining Co. Extreme pressure lubricating oil containing sulfur-chlorinated esters of chlorendic acid. 2,938,870, 5-31-60, Cl. 252—48.4.
- Dorion, Eugene S. Continuous X-ray film developing apparatus. 2,965,013, 12-20-60, Cl. 95—90.
- Dorizzi, Manfred P., to Contraves AG. Terminal board arrangement for selective interconnection. 2,952,828, 9-13-60, Cl. 339—18.
- Dorken, August: *See*—  
Lorenz, Walter, Schrader, and Dorken. 2,938,919.
- Dörken, August, and G. Schrader, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphoric acid esters and process for their production. 2,927,123, 3-1-60, Cl. 260—461.
- Dorken, August, and G. Schrader, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphoric acid esters. 2,956,074, 10-11-60, Cl. 260—461.
- Dörken, August, and G. Schrader, to Farbenfabriken Bayer Aktiengesellschaft. Thionophosphoric acid esters. 2,960,525, 11-15-60, Cl. 260—461.
- Dorman, Bruce A.: *See*—  
Dorman, Harley A., and B. A. 2,951,661.
- Dorman, Harley A., and B. A. Aircraft having a plurality of annular wings. 2,951,661, 9-6-60, Cl. 244—23.
- Dorman, Isidore, and C. G. Hoos. Method and apparatus for forming pellets of thermoplastic material. 2,951,262, 9-6-60, Cl. 18—24.
- Dorman, Isidore, and C. G. Hoos. Wrapping machine. 2,951,326, 9-6-60, Cl. 53—194.
- Dorman, Long & Co. Ltd.: *See*—  
Judge, Edward T., and Foster. 2,929,280.
- Dormeyer, Albert F.: *See*—  
Yatsushiro, Kenji. 2,956,210.
- Dormia, Enrico. Instruments for the extraction of foreign bodies. 2,943,626, 7-5-60, Cl. 128—328.
- Dorn, Randolph J., to The Barr Rubber Products Co. Ball inflating and sealing means. 2,926,705, 3-1-60, Cl. 141—5.
- Dorn, Rolf-Karl, W. Wisfeld, E. Herrmann, and G. Derenk, to Metallgesellschaft Aktiengesellschaft. Process and apparatus for treating liquids with ion exchange materials. 2,963,431, 12-6-60, Cl. 210—33.
- Dorn, Thomas E.: *See*—  
Nau, Wilmer H., and Dorn. 2,932,548.
- Dornbos, John, E. L. Karchner, and C. H. Palmer, to General Motors Corp. Valve lifter. 2,939,442, 6-7-60, Cl. 123—90.
- Dornbush, Clinton L.: *See*—  
Wilson, Harry W., and Dornbush. 2,947,125.
- Dornbush, Herbert W., to McGraw-Edison Co. Magnetic core. 2,931,993, 4-5-60, Cl. 336—217.
- Dorne, Arthur, to Dorne and Margolin, Inc. Slotted airfoil ultra high frequency antenna. 2,949,606, 8-16-60, Cl. 343—708.
- Dorne, Arthur, and R. W. Logan, to Dorne and Margolin, Inc. Tunable slot antenna assembly. 2,931,036, 3-29-60, Cl. 343—769.
- Dorne and Margolin, Inc.: *See*—  
Dorne, Arthur. 2,949,606.  
Dorne, Arthur, and Logan. 2,931,036.
- Dorner, Henrik, to Interchrome S.A. Coating metals. 2,955,957, 10-11-60, Cl. 117—107.
- Dorney, Patrick E.: *See*—  
Heney, John F., and Dorney. 2,945,149.
- Dornfeld, Clinton A., to G. D. Searle & Co. Aminoalkyl esters of aryl- and aralkyl-substituted phosphinic acids and their salts. 2,924,615, 2-9-60, Cl. 260—461.
- Dornfeld, Clinton A., to G. D. Searle & Co. 2-diarylalanyl-3,4,5,6-tetrahydropyrimidines and processes. 2,946,791, 7-26-60, Cl. 260—251.
- Dornfeld, Eberhard, to Delmag Maschinenfabrik Reinhold Dornfeld. File puller. 2,942,590, 6-28-60, Cl. 123—7.
- Dornfeld, John E., to Sprague Electric Co. Cup-type capacitor. 2,952,805, 9-13-60, Cl. 317—261.
- Dornier, Peter, to Lindauer Dornier G.m.b.H. Apparatus for inspecting moving lengths of fabric. 2,935,559, 5-3-60, Cl. 178—6.8.
- Dornseif, Erich. Adjusting means for resiliently mounted roller skate trucks. 2,959,423, 11-8-60, Cl. 280—11.28.
- Dorosz, Adolph S.: *See*—  
Berggren, Loring J., Dorosz, and Leahy. 2,937,405.
- Dorosz, Adolph S., to United Shoe Machinery Corp. Shoemaking systems for the automatic manufacture of shoes. 2,960,703, 11-22-60, Cl. 12—1.
- Dorothea, Gale, to Viewlex, Inc. Slide lock mounting means. 2,954,951, 10-4-60, Cl. 248—14.
- Dorr, Andreas. Tie strapping device. 2,952,203, 9-13-60, Cl. 100—8.
- Dörr, Arnold, to Voigtlander A.G. Photographic camera. 2,927,518, 3-8-60, Cl. 95—31.
- Dorr, Emma A. Shields for corns and the like. 2,923,292, 2-2-60, Cl. 128—153.
- Dorr-Oliver Inc.: *See*—  
Booth, Philip B. 2,940,540.  
Ekstrom, Glen O., Jr. 2,960,226.  
Johnson, Oscar W. 2,928,592.  
Jukkola, Walfred W. 2,965,449.  
Knapp, Charles A., and Yocum. 2,928,548.  
Lutz, William A., and Pelitti. 2,935,200.  
Nahrgang, James R., and Pomeroy. 2,923,464.  
Oliver, Edwin L., Jr., and Richards. 2,964,194.  
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- Dorries, O., A.G.: *See*—  
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- Dorris, Duncan K., and G. P., Jr. Drive assembly for a trough conveyor. 2,927,682, 3-8-60, Cl. 198—213.
- Dorris, George P., Jr.: *See*—  
Dorris, Duncan K., and G. P., Jr. 2,927,682.
- Dorris Lumber and Moulding Co., The: *See*—  
Olson, Claude E. 2,926,707.
- Dorsett, Edward A., to Radiation, Inc. Power measuring circuit. 2,933,685, 4-19-60, Cl. 324—95.
- Dorsett, Edward A., to Radiation, Inc. Double-ground plane attenuator. 2,943,283, 6-28-60, Cl. 333—81.
- Dorsett, Roscoe, to A. S. Candela. Manufacture of a wall. 2,964,800, 12-20-60, Cl. 18—60.
- Dorsey, Charles M., Jr.: *See*—  
Yates, Lester R., Dorsey, and Weldon. 2,963,704.
- Dorsey, Dennis B. Safety closure. 2,921,705, 1-19-60, Cl. 215—9.
- Dorsey, Edward P. Heat diffuser, humidifier, and draft eliminator. 2,960,022, 11-15-60, Cl. 98—109.
- Dorsey, John D., and R. D. Nicholas. Convertible lathe and drill press. 2,952,280, 9-13-60, Cl. 144—1.
- Dorsey, Lawrence J., and W. P. Knight, to Maloney-Crawford Tank and Mfg. Co. Apparatus for low temperature separation of high pressure gas streams. 2,925,720, 2-23-60, Cl. 62—42.
- Dorsey Trailers, Inc.: *See*—  
Norman, Noah M. 2,932,957.
- Dorsey, William J., to International Latex Corp. Latex girldle with reinforced garter tabs. 2,955,597, 10-11-60, Cl. 128—521.
- Dorsey, William S.: *See*—  
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- Dorsilium Corp. of America: *See*—  
Zeider, John C., and Corb. 2,935,400.
- Dortmund-Hörder Hüttenunion Aktiengesellschaft: *See*—  
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Harders, Fritz. 2,959,478.
- Dortort, Isadore K., to I-T-E Circuit Breaker Co. Overlap regulator. 2,947,932, 8-2-60, Cl. 321—48.
- Dortort, Isadore K., to I-T-E Circuit Breaker Co. Protection of parallel connected D-C sources. 2,949,568, 8-16-60, Cl. 317—26.
- Dortort, Isadore K., to I-T-E Circuit Breaker Co. Semiconductor rectifier small range magnetic control. 2,959,724, 11-8-60, Cl. 321—16.
- Dorval, Maurice. Enclosed glass holder. 2,955,893, 10-11-60, Cl. 312—320.
- Doscher, Todd M., and J. G. Yarbrough, to Shell Oil Co. Filtering method and apparatus for water flooding process. 2,953,204, 9-20-60, Cl. 166—9.
- Dosker, Cornelius D., to Conch International Methane Ltd. Vessel for storing cold liquids. 2,954,892, 10-4-60, Cl. 220—11.
- Dosmann, Lucian P., to United States Rubber Co. Cure of chlorofluorocarbon elastomer. 2,944,927, 7-12-60, Cl. 154—100.
- Dosmann, Lucian P., and D. D. M. Streed, to United States Rubber Co. Painting of golf balls. 2,939,710, 6-7-60, Cl. 273—235.
- Dosmann, Lucian P., and G. L. Barnes, to United States Rubber Co. Acceleration of the peroxide cure of hexafluoropropylene-vinylidene fluoride elastomer with methylene bis-acrylamide. 2,944,995, 7-12-60, Cl. 260—41.
- Doss, Richard C.: *See*—  
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- Dossert Mfg. Corp.: *See*—  
Gunthel, Alfred B., Jr. 2,935,550.  
Gunthel, Alfred B., Jr. 2,950,936.  
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- Dost, Nicolaas, and R. Berkenbosch, to Shell Development Co. Method and composition for combating fungi. 2,923,657, 2-2-60, Cl. 167—30.
- Dostal, Clara A. and F. Electrically propelled household vacuum cleaner. 2,950,772, 8-30-60, Cl. 180—6.66.
- Dostal, Frank: *See*—  
Dostal, Clara A. and F. 2,950,772.
- Dostie, Paul E. Passenger evacuating device for airplanes in flight. 2,942,816, 6-28-60, Cl. 244—137.
- Doswell, James D., J. W. Schultz, and L. H. Faber, Sr., to Richmond, Fredericksburg and Potomac Railroad Co. ReflectORIZED disc marker and bracket. 2,939,364, 6-7-60, Cl. 88—81.
- Dotson, Donald A., to The Garrett Corp. Pneumatic governor. 2,928,408, 3-15-60, Cl. 137—80.



- Dotson, Donald A.,  $\frac{1}{2}$  to R. W. Whann. Underwater gun and projectile for spear fishing. 2,964,031, 12-13-60, Cl. 124-11.
- Dotson, Leighton G. Building structures. 2,932,488, 4-12-60, Cl. 256-21.
- Dotson, Lloyd G.: *See*—  
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- Dott, Caspar. Apparatus for sprinkling band-like webs or foils more particularly roofing felts. 2,940,422, 6-14-60, Cl. 118-312.
- Dotterer, Elmer E., D. J. Kantner, H. P. Sprankle, and W. E. Van Gorder, to Sylvania Electric Products Inc. Multiple clamping of mount stems. 2,943,749, 7-5-60, Cl. 214-1.
- Dotterer, Elmer E., and W. E. Van Gorder, to Sylvania Electric Products Inc. Mount dipping machine. 2,940,459, 6-14-60, Cl. 134-159.
- Doty, Luther L., Jr., to Moore-Handley Hardware Co., Inc. Retractable supports for a removable vehicle body. 2,934,373, 4-26-60, Cl. 296-28.
- Doty, Robert O. Tilt sensitive multiple capacitor device. 2,936,411, 5-10-60, Cl. 317-246.
- Doty, Roger F., to The Maytag Co. Illuminated lint trap for clothes drier. 2,959,867, 11-15-60, Cl. 34-82.
- Double A Products Co.: *See*—  
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- Double Envelope Corp.: *See*—  
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- Doubleday, James M. Time clock coin-dispensing toy bank. 2,941,536, 6-21-60, Cl. 133-5.
- Doubt, Cecil J.: *See*—  
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- Doubt, Cecil J., and H. R. Nelson, to E. I. du Pont de Nemours and Co. Process for making non-caking and free-flowing sodium nitrite. 2,933,377, 4-19-60, Cl. 23-313.
- Doucette, Edward I., H. A. Stone, Jr., and R. M. Warner, Jr., to Bell Telephone Laboratories, Inc. Semiconductor resistance element. 2,954,486, 9-27-60, Cl. 307-88.5.
- Doucette, Edward I., and W. J. Grubbs, Jr., to Bell Telephone Laboratories, Inc. Field effect varistor circuits. 2,954,551, 9-27-60, Cl. 340-347.
- Doucette, Edward I., and C. J. Spector, to Bell Telephone Laboratories, Inc. Semiconductor capacitor. 2,964,648, 12-13-60, Cl. 307-88.
- Doucette, Lionel J.: *See*—  
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- Douchet, Eugene,  $\frac{1}{2}$  to Society JOP, and  $\frac{1}{2}$  to Societe Taulet & Co. Simulated stitching. 2,948,648, 8-9-60, Cl. 154-46.
- Douchet, Florimond A. J., to Societe Alsacienne de Constructions Mecaniques. Machine for covering telephone cable conductors. 2,960,816, 11-22-60, Cl. 57-16.
- Doud, Forrest B., to Mercury International Research Co. Vending machine. 2,957,567, 10-25-60, Cl. 194-10.
- Doud, Mary H., and B. L. Seeley. Sit and roll unicycle. 2,920,904, 1-12-60, Cl. 280-205.
- Dougan, Roger R., to United States of America, Navy. Means for circumventing large dead zones in control surface effectiveness. 2,934,290, 4-26-60, Cl. 244-77.
- Doughboy Industries, Inc.: *See*—  
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- Dougherty, Charles R., to General Electric Co. Ballast apparatus. 2,946,922, 7-26-60, Cl. 315-100.
- Dougherty, John J. Transition sleeve. 2,938,355, 5-31-60, Cl. 61-53.
- Dougherty, William E. Conveyor system. 2,960,206, 11-15-60, Cl. 198-35.
- Doughty, Joseph B.: *See*—  
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- Douglas Aircraft Co., Inc.: *See*—  
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Clark, Harold D., and Johnson. 2,923,542.  
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Wheelon, Orville A. 2,923,130.  
Wheelon, Orville A. 2,962,994.
- Douglas, Alvin P., and A. R. Golrick, to The Murray Ohio Mfg. Co. Brake and drive mechanism for a sidewalk bicycle. 2,949,990, 8-23-60, Cl. 192-5.
- Douglas, Alvin P., and G. B. Hahn, to The Murray Ohio Mfg. Co. Portable fan unit and window adapter. 2,961,152, 11-22-60, Cl. 230-259.
- Douglas, Aubrey. Jet propulsion for aircraft and control means therefor. 2,947,499, 8-2-60, Cl. 244-23.
- Douglas, David D., Jr. Prefabricated house construction. 2,963,825, 12-13-60, Cl. 50-66.
- Douglas, Gordon S.: *See*—  
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- Douglas, Henry H., E. H. Follwell, and R. R. Tiefenthaler, to Pittsburgh Plate Glass Co. Degassing fluids. 2,944,626, 7-12-60, Cl. 183-2.5.
- Douglas, Jack E., and J. Wood, to Massey-Ferguson (Australia) Ltd. Sugar cane harvester with cutting apparatus. 2,953,886, 9-27-60, Cl. 56-17.
- Douglas, Jocelyn F., and E. R. L. Gaughran, to Johnson & Johnson. Process for preparing proteolytic enzyme from fig sap latex. 2,956,928, 10-18-60, Cl. 195-66.
- Douglas, Joseph: *See*—  
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- Douglas, Joseph D.: *See*—  
Moore, Maxwell M., and Douglas. 2,961,626.
- Douglas, Kirk: *See*—  
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- Douglas, Newhall. Position control of television images. 2,962,547, 11-29-60, Cl. 178-6.
- Douglas, William A., to Mira Corp. Thermoelectric device. 2,952,980, 9-20-60, Cl. 62-3.
- Douglas, William S., to Ericsson Telephones Ltd. Pulse checking circuits. 2,957,075, 10-18-60, Cl. 250-27.
- Douglass, Charles R. Sound effects apparatus. 2,924,460, 2-9-60, Cl. 274-18.
- Douglass, Ernest O., and L. E. Smith. Tire spreader. 2,955,802, 10-11-60, Cl. 254-50.3.
- Douglass, Harry H., L. A. Miller, and O. Berger, to The Martin Co. Automatic electrical autopilot analyzer system. 2,922,950, 1-26-60, Cl. 324-57.
- Douglass, John J., to E. I. du Pont de Nemours and Co. Loading machine. 2,936,669, 5-17-60, Cl. 86-20.
- Douglass, John J., to E. I. du Pont de Nemours and Co. Jet perforating assembly for oil wells. 2,960,931, 11-22-60, Cl. 102-21.2.
- Douglass, John, Jr., to Champagne Co. Clamping devices. 2,932,867, 4-19-60, Cl. 24-81.
- Douglass, Lois M. Garment hanger frames. 2,929,538, 3-22-60, Cl. 223-69.
- Dougheridis, Alcibiades M. Means for neutralizing the oscillations of a body, chiefly the rolling of a ship. 2,960,958, 11-22-60, Cl. 114-122.
- Doundoulakis, George J.: *See*—  
Pedersen, Norman E., and Doundoulakis. 2,954,477.
- Douthit, Carl D. Bust form and method of making it. 2,959,173, 11-8-60, Cl. 128-479.
- Douvan, Boris,  $\frac{1}{2}$  to G. J. Kupchik. Electrical protective apparatus. 2,926,288, 2-23-60, Cl. 317-23.
- Douyard, Arthur E., to Chrysler Corp. Pressure vessel. 2,933,214, 4-19-60, Cl. 220-3.
- Dove, Harry E. Dividing apparatus for highway lanes and the like. 2,927,513, 3-8-60, Cl. 94-1.5.
- Dover Corp.: *See*—  
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Green, Richard W. 2,956,644.
- Dovey, Arnold J., to Federal-Mogul-Bower Bearings, Inc. Pipe coupling having inflated sealing means. 2,919,937, 1-5-60, Cl. 285-81.
- Dovre Ski Binding, Inc.: *See*—  
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- Dow Chemical Co., The: *See*—  
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Anderson, Arthur W. 2,927,918.  
Anderson, Arthur W. 2,927,919.  
Armen, Ardy, and Gentry. 2,945,843.  
Armen, Ardy, and Murdock. 2,952,651.  
Asadorian, Arthur A. 2,935,535.  
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Austin, Thomas W. 2,943,000.  
Ayers, Earl D., and Rebbeck. 2,933,136.  
Bakke, William W., and Tousignant. 2,930,716.  
Ballast, Donald E., Englund, and Wiley. 2,934,530.  
Barbian, Hugo A., Brackett, and Britton. 2,934,462.  
Beale, Alvin F., Jr., and Larsen. 2,961,355.  
Behrens, Hugh C., and Vick. 2,952,266.  
Bersworth, Frederick C., and Martell. 2,961,311.  
Bersworth, Frederick C., and Rubin. 2,924,576.  
Blair, Eteyl H., and Britton. 2,954,394.  
Blankenship, William M., and Wirth. 2,931,695.  
Blue, Robert D., and Neipert. 2,943,033.  
Blue, Robert D., and Neipert. 2,944,956.  
Britton, Edgar C., and Blair. 2,922,811.  
Britton, Edgar C., and Dietzler. 2,950,325.  
Burgert, Billy E., and Gordon. 2,922,777.  
Burgert, Billy E., and Hudson. 2,959,566.  
Burke, Edmund C., and Zvanut. 2,934,461.  
Bylsma, Harold R. 2,960,535.  
Chern, Diomed M. 2,938,884.  
Chisholm, Douglas S. 2,935,421.  
Chisholm, Douglas S., and Bylsma. 2,958,099.  
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Clark, Gerald A. 2,937,157.  
Clark, Gerald A. 2,947,723.  
Cobel, George B. 2,960,397.  
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Cooper, Ronald H. 2,927,910.  
Cooper, Ronald H. 2,933,789.  
Cronberger, Luther C. 2,930,957.  
Davis, Clyde W., Voeks, and Ehlers. 2,949,435.  
Davis, Edwin A. 2,957,761.  
Dean, Lloyd G., and McCutchen. 2,950,236.  
Dreisbach, Robert R., and Monroe. 2,926,201.  
Dunbar, Joseph E. 2,950,308.  
Eberhard, John F. 2,963,439.  
Ehlers, Forrest A. 2,952,668.



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 Elliott, Jack, and McClure. 2,945,074.  
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 Evanson, Clifford E. 2,925,932.  
 Fishaber, Marvin H. 2,940,836.  
 Floria, Vernon D. 2,939,875.  
 Flynn, James P. 2,932,555.  
 Fritts, Lois L. 2,952,583.  
 Goldie, Jack R. 2,960,369.  
 Goodenough, Robert D. 2,964,381.  
 Gordon, David A. 2,926,152.  
 Gordon, David A. 2,926,196.  
 Gordon, David A. 2,933,533.  
 Gordon, David A. 2,937,198.  
 Gordon, David A., and Corbett. 2,942,023.  
 Gordon, David A., and Corbett. 2,958,705.  
 Gordon, David A., and Corbett. 2,960,532.  
 Gordon, David A., and Hinman. 2,952,661.  
 Gould, Gordon E., and Mason. 2,959,119.  
 Grabel, Charles E., Russell, and Volk. 2,925,369.  
 Graham, Donald L., Kennedy, and Kropscott. 2,959,508.  
 Gray, Don N. 2,935,527.  
 Grotlich, Victor W. 2,935,429.  
 Gruenhagen, Richard H. 2,922,742.  
 Guldenzoph, Edwin A., and Houvenier. 2,959,193.  
 Gunkler, Albert A. 2,948,393.  
 Gurgio, Arthur E. 2,933,459.  
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 Havens, Carl B. 2,952,660.  
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 Hefner, Robert E., and Pruitt. 2,951,094.  
 Hershey, Gordon F., and Colbry. 2,934,787.  
 Hinman, Charles W. 2,945,062.  
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 Holly, Earl D., and Nummy. 2,947,730.  
 Horsley, Lee H., and Sexton. 2,945,056.  
 Hotchkiss, Robert L., Gilbert, and Jungerman. 2,934,406.  
 Hudson, Robert L. 2,920,079.  
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 Ilgenfritz, Edgar M., and Ruh. 2,932,651.  
 Jankens, Austin L. 2,948,048.  
 Johnston, Howard. 2,944,080.  
 Johnston, Howard. 2,965,649.  
 Kaeding, Warren W., Lindblom, and Temple. Re. 24,848.  
 Kallman, Robert L., Steinbach, and Stoming. 2,948,575.  
 Kelly, Harold C., and Wirt. 2,951,763.  
 Kenaga, Eugene E. 2,954,317.  
 Keskkula, Henno, Price and Roche. 2,958,671.  
 Kirk, Roy, and Robinson. 2,952,727.  
 Klumb, George A., Jr., and Speer. 2,933,484.  
 Kummer, Joseph T., Kressley, Grossman, and North. 2,932,739.  
 Kundiger, Donald G., and Dick. 2,964,538.  
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 Ladd, Byrle J., and Philippi. 2,941,594.  
 Lang, John L. 2,927,911.  
 Lang, John L. 2,937,163.  
 Larsen, Eric R. 2,920,112.  
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 Leathers, Joel M. F., and Coker. 2,964,558.  
 Lee, John M. 2,931,717.  
 Lefevre, Lloyd E. 2,960,725.  
 Lehman, Freeman R., Silvernail, and Stilbert. 2,945,775.  
 Longstreth, Murrey O., and Tollar. 2,963,741.  
 Loper, Harry W., and Samson. 2,965,539.  
 Lorette, Nicholas B. 2,945,864.  
 Lowes, Fred J. 2,961,363.  
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 Martin, George R. 2,920,052.  
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 Mays, William A. 2,944,697.  
 Messer, Albert S. 2,922,692.  
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 Mod, William A., Becker, and Carlson. 2,926,995.  
 Monroe, Roger F. 2,926,200.  
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 Moss, Rodney D. 2,959,590.  
 Moyle, Clarence L., and Wade. 2,944,937.  
 Mulchay, Thomas W., Jr. 2,964,384.  
 Russell, Dorsey R. 2,935,392.  
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 Oakes, Billy D. 2,931,700.  
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 Olstowski, Franciszek. 2,958,576.  
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 Park, William R. R. 2,948,696.  
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 Partansky, Alexander M., and Schrader. 2,934,522.  
 Pashak, John F. 2,935,396.  
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 Pfeifer, Charles R. 2,965,603.  
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 Price, Raymond M. 2,965,589.  
 Pruitt, Malcolm E., and Rogers. 2,948,757.  
 Pursglove, Laurence A. 2,927,126.  
 Pursglove, Laurence A. 2,965,673.  
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 Rapp, Donald E. 2,923,747.  
 Rector, Marion R., and Cohrs. 2,964,508.  
 Rickert, Herbert B. 2,929,838.  
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 Rigterink, Raymond H. 2,926,193.  
 Ritch, Harold B. 2,952,318.  
 Roberts, Carleton W. 2,952,711.  
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 Robertson, Dale N. 2,920,101.  
 Robertson, Dale N. 2,937,205.  
 Roche, Arthur F., and Ruffing. 2,941,978.  
 Roche, Arthur F., Tubbs, and Jones. 2,041,977.  
 Rocklin, Albert L. 2,920,082.  
 Rocklin, Albert L. 2,922,820.  
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 Rocklin, Albert L. 2,949,488.  
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 Shaver, Robert J. 2,920,013.  
 Shaw, Kernal G. 2,945,746.  
 Sheetz, David P. 2,923,734.  
 Sims, Jacqueline G., and Moyle. 2,949,482.  
 Slagh, Harold R., and Kauer. 2,937,202.  
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 Spalding, Donald H. 2,922,736.  
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 Sterling, George B. 2,932,603.  
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 Stevens, John A. 2,934,583.  
 Tabor, Edward J. 2,928,864.  
 Taplin, William H., III. 2,954,407.  
 Teitel, Robert J. 2,963,361.  
 Thiess, Bernard J. 2,949,426.  
 Tolkmith, Henry. 2,922,814.  
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 Tousignant, William F. 2,937,174.  
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 Tousignant, William F., Wallis, and Houtman. 2,948,656.  
 Treat, Lyle G., and Levy. 2,929,752.  
 Von Berg, Robert L., and Poffenberger. 2,927,097.  
 Wade, Lisby L., and Norris. 2,943,018.  
 Wallis, Wilhelm E. 2,937,066.  
 Wallis, Wilhelm E., and Tousignant. 2,946,772.  
 Wallis, Wilhelm E., and Tousignant. 2,946,773.  
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 Wheeler, Donald D., and Young. 2,937,187.  
 Wheeler, Donald D., and Young. 2,938,909.  
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 Wiley, Ralph M. 2,932,629.  
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 May, William C. 2,934,472.  
 Merker, Robert L. 2,920,060.  
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 Pierce, Ogden R. 2,951,862.  
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 Plueddemann, Edwin P. 2,946,701.  
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 Sommer, Leo H. 2,963,500.  
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 Tolkmith, Henry. 2,945,055.  
 Warrick, Earl L. 2,958,707.  
 Warrick, Earl L. 2,959,569.  
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- Dow, Daniel G., to United States of America, Navy. Stop bands in multifilar helices. 2,961,573, 11-22-60, Cl. 315-3.6.
- Dow, Dewey M. Reversible lap table and tray. 2,956,849, 10-18-60, Cl. 311-25.
- Dow, Leslie A., and J. H. Paton, to Fram Corp. Air filter panel. 2,963,197, 12-20-60, Cl. 183-44.
- Dow, Warren R., Sr., to United States of America, Navy. Cable stopper. 2,958,916, 11-8-60, Cl. 24-126.
- Dow, Weymouth F.: *See—*  
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- Dow, William A., Jr.: *See—*  
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- Dowding, Peter: *See—*  
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- Dowds, Thomas A., to Burroughs Corp. Etched circuit relay. 2,931,871, 4-5-60, Cl. 200-87.
- Dowell, A. Yates: *See—*  
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- Dowell, Lloyd, and R. J. Kightlinger, to Warner Bros. Pictures, Inc. Photographic light source. 2,956,149, 10-11-60, Cl. 240-1.3.
- Dower, Ethell J., to Well Logging Equipment Mfg. Co. Electric tachometer. 2,959,735, 11-8-60, Cl. 324-70.
- Dower, Ethell J., to Warren Automatic Tool Co. Indicator of drilling mud gain and loss. 2,966,059, 12-27-60, Cl. 73-155.
- Dowling, Cecil J., to Orenda Engines Ltd. Machine tools. 2,960,012, 11-15-60, Cl. 90-13.5.
- Dowling, Edward D.: *See—*  
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- Downer, John D.: *See—*  
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- Downey, Richard M., and E. L. Jamison, to Midwest Insulations, Inc. Airseal insulation, Inc., and Carney Corp., in equal shares. Resilient permanent mulch pad. 2,949,698, 8-23-60, Cl. 47-9.
- Downey, Wayne A., to J. I. Case Co. Ground driven seed dispensing machine. 2,955,550, 10-11-60, Cl. 111-59.
- Downey, William P.: *See—*  
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- Downie, John W., to General Electric Co. Television transmitter alignment. 2,952,770, 9-13-60, Cl. 250-17.
- Downie, Wilfred J., and W. D. Crounce, to North American Aviation, Inc. System of antenna selection by received carrier amplitude. 2,937,268, 5-17-60, Cl. 250-13.
- Downing, Donald G.: *See—*  
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- Downing, Harry A., and A. J. Laliberte, to American Optical Co. Shielded tube and method of making the same. 2,959,705, 11-8-60, Cl. 313-313.
- Downing, John: *See—*  
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- Downing, William C., Jr., and D. McAuliff, to Sangam Electric Co. Measuring structure. 2,966,629, 12-27-60, Cl. 324-107.
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- Downs, Fredrick L.: *See—*  
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- Downs, George W., to Consolidated Electrodynamics Corp. Recording oscillograph. 2,965,434, 12-20-60, Cl. 346-110.
- Downs, Jesse S., and C. C. Pryor, to ACF Industries, Inc. Seat for gate valve. 2,925,993, 2-23-60, Cl. 251-328.
- Downs, Jesse S., and C. C. Pryor, to ACF Industries, Inc. Seat for gate valve. 2,925,994, 2-23-60, Cl. 251-360.
- Downs, Samuel M., to Owens-Illinois Glass Co. Container display kit. 2,936,879, 5-17-60, Cl. 206-45.19.
- Downs, William J.,  $\frac{1}{2}$  to J. J. Kebba and  $\frac{1}{2}$  to J. A. Pateracki, Jr. Display devices. 2,943,408, 7-5-60, Cl. 40-32.
- Dowty Equipment Ltd.: *See—*  
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- Dowty Fuel System Ltd.: *See—*  
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- Doyen, Leon and L. Machine for packaging fluid products in bags of plastic material. 2,927,410, 3-8-60, Cl. 53-268.
- Doyen, Louis: *See—*  
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- Doyen, Louis, to L. Doyen, L. Doyen, and V. Lyon. Machine for packaging liquid products inside covers of plastic materials. 2,963,840, 12-13-60, Cl. 53-180.
- Doyer, Cornelius. End roller for a transporting belt. 2,935,880, 5-10-60, Cl. 74-241.
- Doying, Ernest G., to Union Carbide Corp. Adsorbent briquets for combined odor and moisture removal. 2,933,455, 4-19-60, Cl. 252-428.
- Doyle, Charles C., deceased; H. Lefton, executrix, to The J. E. Doyle Co. Method of and apparatus for cleaning and controlling paper in printing presses. 2,961,952, 11-29-60, Cl. 101-416.
- Doyle, Dewey I., to Doyle Vacuum Cleaner Co. Vacuum cleaner head assembly. 2,956,734, 10-18-60, Cl. 230-133.
- Doyle, Edward G., and H. A. Klix, to General Motors Corp. Pivotal joint. 2,964,341, 12-13-60, Cl. 287-101.
- Doyle, Frank P., J. H. C. Nayler, and G. N. Rolinson, to Beecham Research Laboratories Ltd. Recovery of solid 6-aminopenicillanic acid. 2,941,995, 6-21-60, Cl. 260-239.1.
- Doyle, Frank P., J. H. C. Nayler, and G. N. Rolinson. Synthetic penicillins. 2,951,839, 9-6-60, Cl. 260-239.1.
- Doyle, George W., to National Lead Co. Method for producing zirconium metal. 2,942,969, 6-28-60, Cl. 75-84.5.
- Doyle, Irving W., and D. G. C. Hare, to Fairchild Camera and Instrument Corp. Image-velocity responsive system. Re. 24,770, 1-19-60, Cl. 88-1.
- Doyle, Irving W., and W. A. Elliot, to Fairchild Camera and Instrument Corp. Exposure-control apparatus. 2,943,209, 6-28-60, Cl. 250-220.
- Doyle, J. B., Co., The: *See—*  
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- Doyle, Irving W., and A. G. Nash, to Fairchild Camera and Instrument Corp. Driving system for camera shutters. 2,949,834, 8-23-60, Cl. 95-57.
- Doyle, James F., to Arkell Safety Bag Co. Bags, composite material and method of making. 2,952,397, 9-13-60, Cl. 229-55.
- Doyle, James H., to Weber Aircraft Corp. Amplifier. 2,939,087, 5-31-60, Cl. 330-70.
- Doyle, John M., and G. A. Rowls, to General Motors Corp. Storage battery. 2,942,055, 6-21-60, Cl. 136-134.
- Doyle, John M., and G. A. Rowls, to General Motors Corp. Method for making storage batteries. 2,942,059, 6-21-60, Cl. 136-176.
- Doyle, Orville K.: *See—*  
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- Doyle, Richard H., to Fastener Corp. Fastener driving apparatus. 2,944,522, 7-12-60, Cl. 121-30.
- Houvenier, Irving S. 2,946,090.
- Doyle, Robert, to Phillips Petroleum Co. Air ring for use in the manufacture of thermoplastic tubing. 2,952,874, 9-20-60, Cl. 18-14.
- Doyle Vacuum Cleaner Co.: *See—*  
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- Doyle, William H., and L. A. Whitehouse. Printing attachment for converting linotype machines into printing devices. 2,935,017, 5-3-60, Cl. 101-93.
- Doyle, William V., to Diamond National Corp. Molded pulp coated charcoal and charcoal briquettes. 2,948,594, 8-9-60, Cl. 44-6.
- Dozler, Ernest M.: *See—*  
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- Dozois, James H., and F. L. Schwartz, to General Motors Corp. Door hinge assembly. 2,962,751, 12-6-60, Cl. 16-145.
- Drabik, Josef, to G. Kromschroder Aktiengesellschaft. Diaphragm-type gas pressure regulator. 2,936,782, 5-17-60, Cl. 137-613.
- Drabik, Josef, and K. H. Schwarz, to G. Kromschroder Aktiengesellschaft. Diaphragm-controlled gas pressure regulator. 2,940,468, 6-14-60, Cl. 137-461.



- Drabik, Walter: *See*—  
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- Drabik, Walter, and W. R. Stigler, to General Motors Corp. Dynamoelectric machine slot wedges. 2,945,140, 7-12-60, Cl. 310-214.
- Drackett Co., The: *See*—  
Coopridge, Rex C., and Corsette. 2,956,509.
- Dracup Cyril T. and G. Jacquard machines. 2,942,626, 6-28-60, Cl. 139-63.
- Dracup, George: *See*—  
Dracup, Cyril T. and G. 2,942,626.
- Drader, Joseph C., to Michigan Tool Co. Control apparatus. 2,940,365, 6-14-60, Cl. 90-4.
- Draeger, Kenneth E., C. N. Kimberlin, Jr., W. F. Arey, Jr., and W. J. Mattox, to Esso Research and Engineering Co. Optimum reforming of light virgin naphthas. 2,952,614, 9-13-60, Cl. 208-79.
- Draeger, Rolf: *See*—  
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- Drafto Corp.: *See*—  
Kraeiling, John B. 2,946,632.
- Draganjac, Michael J.: *See*—  
Kleinhample, Edward J., and Draganjac. 2,928,188.
- Draganjac, Michael J., to Westinghouse Air Brake Co. Radio range course simulator. 2,928,187, 3-15-60, Cl. 35-10.2.
- Draganti, Dante. Pneumatic gun for subaquatic hunting. 2,923,286, 2-2-60, Cl. 124-13.
- Drager, Otto H.: *See*—  
Grosskopf, Karl. 2,939,768.
- Hollman, Franz, and Warncke. 2,946,340.
- Schmitt, Heinrich. 2,938,528.
- Tietze, Hermann, and Stampe. 2,945,555.
- Tietze, Hermann, and Stampe. 2,945,556.
- Dragoco, Spezialfabrik konzentrierter Riech- und Aromastoffe, Gerberding & Co., G.m.b.H.: *See*—  
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- Drain, Herbert D., to Church of Religious Science. Sink mounting. 2,938,217, 5-31-60, Cl. 4-187.
- Drake, Alton W. Radius and taper control for a die sinking machine. 2,962,939, 12-6-60, Cl. 90-13.
- Drake, Claud E. Saw grinders. 2,941,425, 6-21-60, Cl. 76-48.
- Drake, Claud E. Dust proof ball bearing slides. 2,951,728, 9-6-60, Cl. 308-35.
- Drake, Daniel H. Pliers for making bands on teeth. 2,959,858, 11-15-60, Cl. 32-66.
- Drake, Frances. Bandage with removable splints. 2,957,475, 10-25-60, Cl. 128-87.
- Drake, Frederick H. Phonograph turntable assembly. 2,927,795, 3-8-60, Cl. 274-9.
- Drake, George F.: *See*—  
Oldenburger, Rufus, and Drake. 2,931,342.
- Drake, George L., Jr.: *See*—  
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- Drake, Herbert J., to Bethlehem Steel Co. Refining of light oil with a mixture of sulfuric acid, propionaldehyde and acetaldehyde. 2,938,861, 5-31-60, Cl. 208-220.
- Drake, Hugh H., to Zenith Radio Corp. Remote control system. 2,954,545, 9-27-60, Cl. 340-171.
- Drake, Oscar A.: *See*—  
Collins, Floyd K., and Drake. 2,922,072.
- Drake, Reginald T. N., to Sherritt Gordon Mines Ltd. Method of concentrating ores. 2,919,802, 1-5-60, Cl. 209-167.
- Drake, Samuel H.: *See*—  
Seligman, Hans, and Drake. 2,952,253.
- Drakengren, Erik W. Apparatus for automatically piling bricks. 2,956,696, 10-18-60, Cl. 214-6.
- Dranez, Abraham I., and H. J. Cullin, to Gulton Industries, Inc. Spherical transducer. 2,939,970, 6-7-60, Cl. 310-8.7.
- Drapeau, Harold B., to The Dole Valve Co. Thermostatic valve. 2,929,558, 3-22-60, Cl. 236-34.
- Draper, Arthur L., to Jersey Production Research Co. Secondary recovery technique. 2,927,637, 3-8-60, Cl. 166-9.
- Draper Corp.: *See*—  
Banks, Waldo H., and Thibault. 2,921,610.
- Budzyna, Joseph M. 2,943,647.
- Budzyna, Walter J., and Brown. 2,921,611.
- Callery, John P., and Larson. 2,921,612.
- Clentimack, George E. 2,924,084.
- Consoletti, Paul C. 2,930,417.
- Consoletti, Paul C., and Berry. 2,928,430.
- Cugini, John A., and Thibault. 2,954,058.
- Dasch, Robert E. 2,944,572.
- Flamand, Maurice R. 2,924,247.
- Flamand, Maurice R. 2,928,427.
- Flamand, Maurice R. 2,955,619.
- Higgins, Theodore S. 2,955,621.
- Laferte, Albert A. 2,954,057.
- McGuire, Glenn C., and Whiting. 2,951,507.
- Savelli, John N. 2,942,628.
- Thatcher, Harry W. 2,943,646.
- Thibault, Harrison N., and Plante. 2,942,629.
- Tubising, William W. 2,956,333.
- Draper, Marshall D.: *See*—  
Kusserow, Gerhard W., and Draper. 2,956,081.
- Draper, Ralph L., and E. J. Witzgall, to John W. Bolton & Sons, Inc. Magnetic separator. 2,949,191, 8-16-60, Cl. 210-222.
- Drasky, Jiri: *See*—  
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- Draudt, Howard N., and R. E. Triller, to Hygrade Food Products Corp. Apparatus for automatically orientating cans. 2,936,869, 5-17-60, Cl. 193-43.
- Draudt, Howard N., C. M. Harper, Jr., and V. R. Rupp, to Hygrade Food Products Corp. Method of processing bacon. 2,937,097, 5-17-60, Cl. 99-194.
- Drawing, Robert C., and R. K. Ward, to The Proctor-Silex Corp. Movable carriage travel reversing mechanism. 2,962,772, 12-6-60, Cl. 19-163.
- Dravo Corp.: *See*—  
Dykeman, Howard E. 2,939,570.
- Koontz, Victor F. 2,965,321.
- McLean, William B. 2,954,879.
- Meyer, Kurt. 2,923,539.
- Roder, Josef, and Stoff. 2,934,202.
- Schuessler, Wilhelm. 2,936,064.
- Schwartz, Werner. 2,926,081.
- Swatek, Edwin F., Jr. 2,949,744.
- Toutant, William T. 2,933,897.
- Drebing, Warren H., to General Dynamics Corp. Bonding apparatus. 2,935,116, 5-3-60, Cl. 154-1.
- Drechsel, Armin. Spring system for vehicles. 2,955,840, 10-11-60, Cl. 280-104.
- Drechsel, Erhart K., to American Cyanamid Co. Reaction products of a polymer of a vinyl ester and a nitrogenous compound. 2,930,779, 3-29-60, Cl. 260-72.
- Drechsel, Erhart K., to American Cyanamid Co. Tertiary alkyl substituted acrylamide modified alkyl resins and process of preparing the same. 2,951,820, 9-6-60, Cl. 260-22.
- Dredske, Arthur P. and A. P. Jr. Body and fender straightener. 2,949,144, 8-16-60, Cl. 153-38.
- Dredske, Arthur P., Jr.: *See*—  
Dredske, Arthur P. and A. P., Jr. 2,949,144.
- Dreeben, Jack. Feed mechanism for package making apparatus. 2,955,398, 10-11-60, Cl. 53-180.
- Dreeben, Jack. Bag sealing machines. 2,958,368, 11-1-60, Cl. 154-42.
- Dreh Patents Ltd.: *See*—  
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- Dreher, Elmer H.: *See*—  
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- Dreher, John A., to General Cigar Co., Inc. Dispensing ribbon segments. 2,954,776, 10-4-60, Cl. 131-147.
- Dreher, John L., and C. F. Carter, to California Research Corp. Copper corrosion resistant grease compositions. 2,945,813, 7-19-60, Cl. 252-33.6.
- Dreher, Max, to Lear, Inc. Automatic control mechanism with acceleration-limited manual selector. 2,928,241, 3-15-60, Cl. 60-39.28.
- Dreher, Merle H.: *See*—  
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- Drehman, Lewis E.: *See*—  
Hepp, Harold J., and Drehman. 2,926,131.
- Dreier, Raymond C. Adjustable saw frame. 2,941,558, 6-21-60, Cl. 145-34.
- Dreier, Raymond C. Saw structure. 2,959,203, 11-8-60, Cl. 145-33.
- Dreier, Raymond C. Spirit level. 2,961,774, 11-29-60, Cl. 33-211.
- Dreiling, Peter M., to Hi-Lite Polishing Machine Co., Inc. Method and apparatus for polishing articles. 2,932,926, 4-19-60, Cl. 51-142.
- Dreisbach, Dale A. Heat sealing device. 2,921,620, 1-19-60, Cl. 154-1.6.
- Dreisbach, Robert R., and R. F. Monroe, to The Dow Chemical Co. Side-chain chlorination of ethylpolychlorobenzenes. 2,926,201, 2-23-60, Cl. 260-651.
- Dreisen, Alexander, to Allis-Chalmers Mfg. Co. Injection nozzle. 2,951,647, 9-6-60, Cl. 239-453.
- Drennan, James E., E. C. Lusk, and F. C. Todd, to United States of America, Army. Cathode for electronic tubes. 2,921,219, 1-12-60, Cl. 313-185.
- Drenning, John W.: *See*—  
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- Drenning, John W., H. T. Williams, and E. S. Snader, to Koppers Co., Inc. Electrical precipitator. 2,922,085, 1-19-60, Cl. 317-139.
- Dreptin, Paul, to Ratier Aviation-Marine. Variable pitch propeller for airplanes or other flying machines. 2,954,829, 10-4-60, Cl. 170-160.11.
- Dreptin, Paul M., to Societe a Responsabilite Limitee dite: Ratier Aviation-Marine. Hydraulic servo-device for controlling linearly or rotatably movable members, with indication of the position thereof. 2,959,156, 11-8-60, Cl. 121-41.
- Drescher & Kiefer, Inh. Georg Reitzel: *See*—  
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- Drese, Arthur W. Auxiliary handle means for electric hair clippers. 2,938,268, 5-31-60, Cl. 30-210.
- Drese, Wilhelm, to Jagenberg-Werke Akt.-Ges. Apparatus for filling, folding and closing containers of paper, cardboard, or the like carton-forming material. 2,932,140, 4-12-60, Cl. 53-266.
- Dreshman, Roy H. Screener for dry powders. 2,925,178, 2-16-60, Cl. 209-328.
- Dresner, Edgar. Bellows duster. 2,950,563, 8-30-60, Cl. 43-146.
- Dressel, Henry M., to Stackpole Carbon Co. Push-pull electric switch. 2,947,832, 8-2-60, Cl. 200-67.



- Dresselhaus, Donald E. Turbine jet engine. 2,958,192, 11-1-60, Cl. 60—39.36.
- Dressen-Barnes Corp.: *See—*  
McNamee, Bernard F. 2,929,013.  
McNamee, Bernard F. 2,962,651.
- Dresser Industries, Inc.: *See—*  
Baker, John S. 2,930,969.  
Berwin, Teddy W., and Liu. 2,962,625.  
Czipott, Akos Z. 2,965,301.  
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Harris, Jacob W., and Hubbard. 2,937,659.  
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Hefer, Friedrich W., Madeley, and Erath. 2,951,977.  
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Ingram, William H., Jr., and Greer. 2,943,682.  
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Marx, Paul F. 2,959,692.  
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Miner, Keith H. 2,920,267.  
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Smith, Robert W., and Vaughan. 2,948,426.  
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- Dresser Operations, Inc.: *See—*  
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- Dresser, Willis R., to The Prudential Insurance Co. Cue board and spot projection for electronic picture taking. 2,920,134, 1-5-60, Cl. 178—5.8.
- Dresser, Willis R., to The Prudential Insurance Co. of America. Magnetic tape. 2,924,462, 2-9-60, Cl. 274—41.4.
- Dresser, Willis R., to The Prudential Insurance Co. of America. Equalizing illumination across projected image and between parts of mosaic picture. 2,953,964, 9-27-60, Cl. 88—16.6.
- Dressler, Jane M.: *See—*  
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- Dressler, Philip. Tunnel kiln. 2,948,945, 8-16-60, Cl. 25—142.
- Dressler, Philip, to Swindell-Dressler Corp. Method and apparatus for salt glazing ceramic wares. 2,948,946, 8-16-60, Cl. 25—142.
- Drew, Christopher M., to General Motors Corp. Rocker adjusting mechanism. 2,934,051, 4-26-60, Cl. 123—90.
- Drew, Clayton L.: *See—*  
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- Drew, E. F., & Co. Inc.: *See—*  
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Barsky, George, Babayan, and Knafe. 2,924,528.
- Drew, Everett G. Drier for sheet material. 2,928,185, 3-15-60, Cl. 34—43.
- Drew, Glen G.: *See—*  
Budlong, Willis A., Drew, and Harr. 2,955,165.
- Drew, James R. Folding table. 2,939,516, 6-7-60, Cl. 155—124.
- Drew, Richard G.: *See—*  
Swedish, Frank, Jr., Picard, and Drew. 2,954,868.
- Drew, Robert D.: *See—*  
Bergstrom, Eric V., and Drew. 2,941,874.
- Drew, Robert D., and K. Hendricks, to Lockheed Aircraft Corp. Foot retraction apparatus. 2,955,786, 10-11-60, Cl. 244—122.
- Drewes, Menke, Jr.: *See—*  
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- Drewett, Harold I. Printing apparatus. 2,943,553, 7-5-60, Cl. 95—75.
- Drewitz, Edwin: *See—*  
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- Drews, Robert C. Retinal camera. 2,947,216, 8-2-60, Cl. 88—20.
- Drexel, Charles F., J. E. Young, and C. E. Sewell, to The Garrett Corp. Ram air turbine. 2,963,093, 12-6-60, Cl. 170—68.
- Drexler, Jerome, to Bell Telephone Laboratories, Inc. Internal cavity reflex klystron tuned by a tightly coupled external cavity. 2,944,183, 7-5-60, Cl. 315—5.46.
- Drexler, John J., to Westinghouse Electric Corp. Door control apparatus. 2,953,219, 9-20-60, Cl. 187—48.
- Dreyer, Elisabeth: *See—*  
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- Dreyer, Ferdinand J.: *See—*  
Ehrlicke, Erich, and Dreyer. 2,952,741.
- Dreyer, Hans: *See—*  
Ehrlicke, Erich, and Dreyer. 2,952,741.
- Dreyer, Karl-August, to M. Grundig. Method and apparatus for transforming systems of coordinates. 2,938,947, 5-31-60, Cl. 178—6.
- Dreyer, Kuno: *See—*  
Nauschutz, Peter, Wessel, Kublo, Dreyer, and Bolkow. 2,946,285.
- Dreyer, Kuno, W. Wessel, and L. Bölkow, to Bolkow-Entwicklungen KG. Rocket power plants for aircraft and the like. 2,947,500, 8-2-60, Cl. 244—23.
- Dreyer, William H.: *See—*  
Duncan, James K., and Dreyer. 2,957,380.
- Dreyfus, Marcel, to Societe Anonyme dite: Etablissements Ducellier. Generator electronic regulating device with dual reference voltage. 2,945,999, 7-19-60, Cl. 320—35.
- Driebehaus, Herman W., to Goodman Mfg. Co. Mining apparatus utilizing two side cutting augers. 2,920,879, 1-12-60, Cl. 262—19.
- Dries, Jerome F., to Cutler-Hammer, Inc. Electromagnetic device. 2,922,088, 1-19-60, Cl. 317—165.
- Driesen, Wilfred H.: *See—*  
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- Drileo Oil Tools, Inc.: *See—*  
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- Drillick, Jacob H., to The Phototypograph Corp. Composing apparatus. 2,944,471, 7-12-60, Cl. 95—4.5.
- Drinkard, William E.: *See—*  
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- Drinker, Pemberton H.: *See—*  
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- Drinks, Inc.: *See—*  
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- Drisch, Nicolas, and P. Schneller, to Chimiotex Societe Anonyme. Process of producing a shrinkable cellulose textile filament. 2,954,270, 9-27-60, Cl. 18—54.
- Driscoll, Anthony F.,  $\frac{1}{2}$  to J. Masbach. Cam operated closure. 2,943,771, 7-5-60, Cl. 222—512.
- Driscoll, Dale J., to Avco Mfg. Corp. Collapsible reflecting structure for electric waves. 2,945,234, 7-12-60, Cl. 343—915.
- Driscoll, Henry J., to Reflectal Corp. Insulating blanket. 2,955,063, 10-4-60, Cl. 154—45.
- Driscoll, Robert R.: *See—*  
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- Driskell, John C.: *See—*  
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- Dritz, Arthur, to John Dritz & Sons. Hand-assembled fabric covered buttons. 2,930,093, 3-29-60, Cl. 24—113.
- Dritz, John, & Sons: *See—*  
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- Driver, Douglas L. A., to International Standard Electric Corp. Article holding devices controlled by shock. 2,939,668, 6-7-60, Cl. 248—316.
- Driver, John F., and G. Bradley. Wheel balancing device. 2,957,366, 10-25-60, Cl. 74—573.
- Driver, Wilbur B., Co.: *See—*  
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- Drodofsky, Martin: *See—*  
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- Droege, Thomas F.: *See—*  
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- Droeschner, Le Roy A., to C. H. Wheeler Mfg. Co. Condensers. 2,946,571, 7-26-60, Cl. 257—43.
- Droke, Herman A. Spring testing tool. 2,920,482, 1-12-60, Cl. 73—161.
- Drom, Edwin L., to Western Electric Co., Inc. Mounting device for selectively supporting loading coil cases in different positions. 2,935,285, 5-3-60, Cl. 248—221.
- Drommer, William L. Shoulder and tab cutting device for cards and ledger sheets. 2,964,983, 12-20-60, Cl. 83—553.
- Drong, Peter G. Self-steering tandem bogie. 2,954,985, 10-4-60, Cl. 280—104.5.
- Dropkin, Herbert A., to United States of America, Army. Microwave amplitude and phase measurement. 2,939,076, 5-31-60, Cl. 324—58.
- Drosin, Allan, and G. Klein, to United States of America, Navy. TR tube testing apparatus. 2,924,770, 2-9-60, Cl. 324—24.
- Droste, Norman C. Equalizing spot welding gun. 2,952,765, 9-13-60, Cl. 219—89.
- Drotsky, Gert D.: *See—*  
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- Drott, Esmond E., and G. D. Oliver, to Monsanto Chemical Co. Cyanuric chloride process. 2,965,642, 12-20-60, Cl. 260—248.
- Drott Mfg. Corp.: *See—*  
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- Drouhot, Germaine, to Ltp S.A. d'Horlogerie. Escapement mechanism. 2,924,102, 2-9-60, Cl. 74—1.5.
- Droutman Mfg. Co., Inc.: *See—*  
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- Drover, Glenn F., to American Steel Foundries. Excavating tooth point retaining device. 2,927,387, 3-8-60, Cl. 37—142.
- Drow, Donald F., to The Deutsch Co. Valve. 2,922,617, 1-26-60, Cl. 251—184.
- Drown, David P.: *See—*  
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- Drown, Harold J. Non-spillable liquid drinking container. 2,948,453, 8-9-60, Cl. 229—7.
- Drtna, Otto V. Yarn twisting and package-couling apparatus. 2,940,244, 6-14-60, Cl. 57—98.
- Drtna, Otto V. Yarn processing apparatus. 2,953,007, 9-20-60, Cl. 68—19.
- Drubin, Meir, and R. D. Brown, to General Precision, Inc. Instrument for measuring dynamic impedance. 2,932,789, 4-12-60, Cl. 324—57.
- Drubin, Meir, to General Precision, Inc. Transistor emitter follower circuit. 2,939,968, 6-7-60, Cl. 307—88.5.
- Drucker, Eugene E.: *See—*  
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- Druey, Jean, and P. Schmidt, to Ciba Pharmaceutical Products, Inc. Halogeno-pyridazines and their manufacture. 2,921,071, 1-12-60, Cl. 260-250.
- Druey, Jean, and P. Schmidt, to Ciba Pharmaceutical Products Inc. New triazines. 2,925,418, 2-16-60, Cl. 260-249.5.
- Druey, Jean, K. Meier, and A. Staehelin, to Ciba Pharmaceutical Products Inc. New halogeno-pyridazines and process for preparing same. 2,934,536, 4-26-60, Cl. 260-250.
- Druey, Jean, and K. Meier, to Ciba Pharmaceutical Products Inc. Piperazo-pyridazines. 2,942,001, 6-21-60, Cl. 260-268.
- Druey, Jean, and H. U. Daeniker, to Ciba Pharmaceutical Products, Inc. Phthalazinium compounds. 2,945,036, 7-12-60, Cl. 260-250.
- Druey, Jean, and H. U. Daeniker, to Ciba Pharmaceutical Products Inc. New phthalazinium compounds. 2,945,037, 7-12-60, Cl. 260-250.
- Druey, Jean, and A. Marxer, to Ciba Pharmaceutical Products, Inc. 1-hydrazino-4-pyridyl methyl-phthalazines. 2,960,504, 11-15-60, Cl. 260-250.
- Druey, Jean, A. Hueni, B. H. Ringier, and A. Staehelin, to Ciba Pharmaceutical Products Inc. Halogen pyridazines. 2,963,477, 12-6-60, Cl. 260-250.
- Druey, Jean, and P. Schmidt, to Ciba Pharmaceutical Products, Inc. Derivatives of pyrazolo (3,4-d) pyrimidines. 2,965,643, 12-20-60, Cl. 260-256.4.
- Drugge, Carl E., and J. M. Hine, to The Borden Co. Glue mix. 2,963,454, 12-6-60, Cl. 260-8.
- Drukker, Willard D.: See—
- Born, James H., Drukker, and Runge. 2,948,358.
- Drukker, Willard D., to Western Electric Co., Inc. Device for straightening articles. 2,920,661, 1-12-60, Cl. 140-147.
- Drukker, Willard D., and F. W. Turner, to Western Electric Co., Inc. Apparatus for attaching electrical components to printed wiring boards. 2,958,869, 11-8-60, Cl. 1-2.
- Drummond, John A., to Phillips Petroleum Co. Control of carbon black characteristics. 2,964,392, 12-13-60, Cl. 23-314.
- Drummond, Warren W., W. B. Hullhorst, and J. H. Plummer, to L.O.F. Glass Fibers Co. Apparatus used in the production of glass fibers. 2,949,633, 8-23-60, Cl. 18-8.
- Drumstick, Inc.: See—
- Wise, Robert T. 2,934,872.
- Wise, Robert T. 2,965,499.
- Drury, James E.: See—
- Hollifield, Oscar H., and Drury. 2,951,511.
- Drury, Thomas W., to Kingston Products Corp. Metering control device. 2,966,278, 12-27-60, Cl. 222-70.
- Druseikis, Frederick, to General Motors Corp. Gas burner. 2,956,622, 10-18-60, Cl. 158-99.
- Druz, Walter S., and N. T. Watters, to Zenith Radio Corp. Subscription television system. 2,923,764, 2-2-60, Cl. 178-5.1.
- Druzstevni prace Ustredni druzstvo umeleckych remesel, výtvarni oddeleni: See—
- Beranek, Emanuel. 2,937,477.
- Druzynski, Frank C.: See—
- Isley, Walter F., and Druzynski. 2,926,265.
- Drybrough, David A. S., to Hazeltine Research, Inc. Non-radiating autodyne frequency converter. 2,933,599, 4-19-60, Cl. 250-20.
- Dryden, Eva. Multiple shield sun visor for vehicles. 2,965,415, 12-20-60, Cl. 296-97.
- Dryden, Eva. Vehicle sun visor having two end-for-end positionally interchangeable shields. 2,965,416, 12-20-60, Cl. 296-97.
- Dryden, Horace W. Wing band for chicks. 2,924,903, 2-16-60, Cl. 40-302.
- Dryden, Thomas F., to The Babcock & Wilcox Co. Electric igniters for use with fluent fuel burners and in sparking plugs. 2,921,239, 1-12-60, Cl. 317-83.
- Dryer, Eldon O. Leak control jacket apparatus. 2,954,797, 10-4-60, Cl. 137-312.
- Drying Systems Co.: See—
- Nack, Leon J. 2,923,026.
- Drysdale, John J., to E. I. du Pont de Nemours and Co. 4,4-difluoro-3-buten-1-yne and metal salts thereof. 2,925,432, 2-16-60, Cl. 260-431.
- Drysdale, John J., to E. I. du Pont de Nemours and Co. Fluorinated internal olefins and their preparation. 2,925,446, 2-16-60, Cl. 260-653.3.
- Drysdale, John J., to E. I. du Pont de Nemours and Co. Copolymers of 1,1-difluoroisobutylene. 2,956,988, 10-18-60, Cl. 260-87.7.
- Drysdale, John J., to E. I. du Pont de Nemours and Co. Selected fluoroalkyl aromatic compounds and their preparation. 2,957,031, 10-18-60, Cl. 260-612.
- Drysdale, John J., to E. I. du Pont de Nemours and Co. 1,4 dienes, polymers thereof, and process for preparing said dienes. 2,964,505, 12-13-60, Cl. 260-82.3.
- Drysdale, Royston F., and S. A. C. Burton, to The Walterlisation Co. Ltd. Surface treatment of metals. 2,930,723, 3-29-60, Cl. 148-6.15.
- Drysdale, William S., to United States Steel Corp. Rolling mill guides. 2,962,917, 12-6-60, Cl. 80-81.
- Dssarts, Pierre M. L., to Heurtey & Cie. Machine for continuous hardening. 2,924,230, 2-9-60, Cl. 134-122.
- Dual Gebr. Steidinger, Fabrik fur Feinmechanik und Elektrotechnik, Apparatebau: See—
- Zimmermann, Heinrich, Pfeiffer, and Reuter. 2,961,242.
- Duba, George A. Apparatus for feeding a gut over a peg and slitting the gut lengthwise. 2,920,520, 1-12-60, Cl. 83-104.
- Dube, David J.: See—
- Fawley, Harry, Golben, and Dube. 2,923,604.
- Dubeau, Jean L., to Northern Electric Co., Ltd. Two way lever type telephone key. 2,943,158, 6-28-60, Cl. 200-1.
- Dubeck, Emil, to The Harold Tool Co. Reclining chair mechanism. 2,936,819, 5-17-60, Cl. 155-106.
- Dubeck, Emil, to The Kenmar Mfg. Co. Reclining chair mechanism. 2,937,693, 5-24-60, Cl. 155-106.
- Duben, Zdenek: See—
- Adamec, Miroslav, Duben, and Pavlasek. 2,930,883.
- Dubin, Lester, to Lambda Electronics Corp. Component support structure. 2,922,081, 1-19-60, Cl. 317-99.
- Dubitzky, Michael M.: See—
- Key, Donald E., Dubitzky, and Pierce. 2,928,386.
- Dubitzky, Michael, to The Coleman Co., Inc. Jet refrigeration system. 2,931,190, 4-5-60, Cl. 62-114.
- Du Boff, Philip, and H. Miller, to Shelfmaker Products Corp. Reciprocating tray units. 2,946,458, 7-26-60, Cl. 211-88.
- Dubois, André: See—
- Guilbaud, Georges, and Dubois. 2,939,997.
- Du Bois, Edward B.: See—
- Denz, Arthur R., and Du Bois. 2,926,314.
- Du Bois, Edgar H.: See—
- Fowle, Wallace R., Tregay, and Du Bois. 2,942,877.
- Du Bois, Edwin R. Gunfire simulator employing friction type detonators. 2,958,150, 11-1-60, Cl. 42-57.
- Du Bois, Eliot: See—
- Saunderson, Jason L. and Du Bois. 2,937,561.
- Dubois, Harry G., to Rowe Mfg. Co., Inc. Cartonized merchandise vending machine. 2,957,603, 10-25-60, Cl. 221-11.
- Du Bois, Harry G., to Rowe Mfg. Co., Inc. Gravity feed package merchandising machine. 2,965,262, 12-20-60, Cl. 221-115.
- Dubois, Jacques, 1/2 to P. Travers. Sound recording and reproducing apparatus. 2,951,914, 9-6-60, Cl. 179-100.2.
- Dubois, Jean-Pierre, to Fabrique d'horlogerie Chs. Tissot & Fils S.A. Bearing element. 2,956,394, 10-18-60, Cl. 58-140.
- Dubois, Joseph G. Punch for perforating cans. 2,943,389, 7-5-60, Cl. 30-16.
- Dubois, Martin H., to Svenska Relafabriken ABN AB. Automatic telephone system with paging equipment. 2,966,554, 12-27-60, Cl. 179-18.
- Du Bois, Robert C., to Manning, Maxwell & Moore, Inc. Differential pressure apparatus. 2,945,377, 7-19-60, Cl. 73-407.
- Du Bois, Robert E. Resistance mounting structure. 2,928,062, 3-8-60, Cl. 338-283.
- Du Bois, Robert J.: See—
- Veldhuis, Benjamin, and Du Bois. 2,947,671.
- Dubosque, Clayton, Jr.: See—
- Milenkovic, Veljko, Sturas, and Dubosque. 2,940,563.
- Dubovik, Walter A.: See—
- Jankauskas, Gorge P. 2,953,413.
- Dubpernell, George: See—
- Johnson, Andy A., and Dubpernell. 2,950,234.
- Du Breuil, Shirley, to American Cyanamid Co. Novel pyridazinones and methods of preparing same. 2,938,902, 5-31-60, Cl. 260-250.
- Dubsky, Barney J., to United States Steel Corp. Bearing-chock balance. 2,958,525, 11-1-60, Cl. 267-1.
- Dubsky, Borivoj, and O. Straka, to Vyzkumny a zkonsební letecky ustav. Electromagnetic torsional feeler. 2,955,461, 10-11-60, Cl. 73-141.
- Dubson, Adlai S. Corporation cock cleaner. 2,940,098, 6-14-60, Cl. 15-104.1.
- Dubaur, Arthur S., to Bell Telephone Laboratories, Inc. Telephone system. 2,959,642, 11-8-60, Cl. 179-18.
- Dubuit, Louis G. Machine for printing on bodies of revolution by the silk screen process. 2,951,440, 9-6-60, Cl. 101-126.
- Ducati, Adriano C.: See—
- Giannini, Gabriel M., and Ducati. 2,922,869.
- Giannini, Gabriel M., and Ducati. 2,929,952.
- Ducati, Adriano C., to Giannini Controls Corp. Magnetic switch device. 2,922,855, 1-26-60, Cl. 200-87.
- Ducati, Adriano C., to Plasmadyne Corp. Apparatus and method for generating high temperatures. 2,953,718, 9-20-60, Cl. 315-163.
- Ducati, Adriano C., and V. H. Blackman, to Plasmadyne Corp. Plasma-jet torch apparatus and method relating to increasing the life of the back electrode. 2,941,063, 6-14-60, Cl. 219-75.
- Duce, Ralph E. Counter-rotating propellers and dual engine safety system. 2,937,827, 5-24-60, Cl. 244-65.
- Ducharme, Delvola, and J. W. Lynes, Jr. Escape-proof cage latch. 2,920,915, 1-12-60, Cl. 292-87.
- Ducharme, Jacques. Folding door. 2,937,699, 5-24-60, Cl. 160-84.
- Duchnowski, Henry E.: See—
- Gray, Abe L. 2,943,523.
- Duck, Ivan A.: See—
- Greenhalf, William D. G., and Duck. 2,936,642.
- Ducker, William H.: See—
- Cargill, Don A., Ducker, and Koch. 2,958,616.
- Ducki, Chester J.: See—
- Sylvander, Charles E., and Ducki. 2,946,290.



- Duckro, John E., to Standard Dayton Corp. Price tag holder. 2,935,804, 5-10-60, Cl. 40-10.
- Duckworth, Donald F.: *See*—  
O'Donnell, James, and Duckworth. 2,951,037.
- Duckworth, George, to Kelvin & Hughes Ltd. Linear waveguide type antenna array. 2,966,677, 12-27-60, Cl. 343-771.
- Du Cloux, Henri: *See*—  
Consalves, Conrad J., and Du Cloux. 2,952,964.
- Ducote, Floyd C.: *See*—  
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- Ducrocq, Albert, to Societe Francaise d'Electronique et de Cybernetique. Keyboard machine. 2,919,782, 1-5-60, Cl. 197-19.
- Ducros, André C.: *See*—  
Cottet, Emile C., and Ducros. 2,936,488.
- Duda, William J. Terminal and splicing fittings for wire rope and the like. 2,959,436, 11-8-60, Cl. 287-75.
- Dudak, Rita M.: *See*—  
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- Dudchik, Nicholas, to Hupp Corp. Power operated window regulators. 2,949,039, 8-16-60, Cl. 74-384.
- Duddy, Joseph C., to The Electric Storage Battery Co. Battery diaphragm. 2,965,697, 12-20-60, Cl. 136-146.
- Dudek, Joseph J.: *See*—  
Heller, Zindel H., and Dudek. 2,933,598.
- Dudinec, Emery, to Purolator Products, Inc. Filter. 2,934,165, 4-26-60, Cl. 183-44.
- Dudler, Hans A.: *See*—  
Smith, Paul E., Jr., and Dudler. 2,948,839.
- Dudley, Christopher W., deceased (R. W. Dudley, executrix). Belt display rack. 2,951,589, 9-6-60, Cl. 211-59.
- Dudley, Edward C., to Thompson Ramo Wooldridge Inc. Pump. 2,923,244, 2-2-60, Cl. 103-42.
- Dudley, Edward F., to Miehl-Goss-Dexter, Inc. Operating mechanism for printing presses. 2,922,363, 1-26-60, Cl. 101-282.
- Dudley, Edward F., to Miehl-Goss-Dexter, Inc. Chain delivery mechanism. 2,953,089, 9-20-60, Cl. 101-272.
- Dudley, Francis B., and G. H. Cady. Pentafluorosulfur hypofluorite and method for its production. 2,946,661, 7-26-60, Cl. 23-203.
- Dudley, John W.: *See*—  
Powers, LeRoy, and Dudley. 2,948,987.
- Dudley, Michael D.: *See*—  
Adams, John, and Dudley. 2,951,948.
- Dudley, Richard H., R. B. Long, J. C. Rohrer, and B. R. Strickland, to Esso Research and Engineering Co. Hydroforming process with the addition of a nitrogenous base. 2,935,464, 5-3-60, Cl. 208-134.
- Dudley, Rosa W.: *See*—  
Dudley, Christopher W. 2,951,589.
- Dudley-Smith, Edward D. Loose leaf binders. 2,924,221, 2-9-60, Cl. 129-10.
- Dudman, Sidney C., C. A. G. Le May, R. E. Spencer, and G. H. Stephenson, to Electric & Musical Industries Ltd. Interpolating devices especially for the control of automatic machine tools. 2,928,604, 3-15-60, Cl. 235-197.
- Duerden, Alan: *See*—  
Webb, Walter W., and Duerden. 2,963,746.
- Duerig, Gottfried: *See*—  
Schmid-Nisoli, Theodor, Duerig, and Paul. 2,928,498.
- Dueringer, Erwin G.: *See*—  
Broughton, Dean C., Dueringer, and Price. 2,960,350.
- Dueringer, Erwin G., to A. O. Smith Corp. Reinforced plastic storage structure. 2,920,810, 1-12-60, Cl. 229-67.
- Duerksen, Arnold, to Super Mold Corp. of California. Bead spreader for a tire in a retreading mold. 2,939,677, 6-7-60, Cl. 254-50.3.
- Duerksen, Arnold, to Super Mold Corp. of California. Method of and apparatus for reducing the diameter of a tire. 2,957,677, 10-25-60, Cl. 254-50.3.
- Duerksen, Arnold, and E. Roesch, to Super Mold Corp. of California. Device to automatically center a tire in a retreading mold. 2,942,295, 6-28-60, Cl. 18-18.
- Duesterberg, Gerhard J. Covered tubular member for positioning in well flow pipe. 2,925,097, 2-16-60, Cl. 138-64.
- Duey, Robert V. K.: *See*—  
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- Du Fault, Homer D., to Heatbath Mfg. Co., Inc. Space heater construction. 2,960,085, 11-15-60, Cl. 126-67.
- Duff, Gerald J. Hook setting device. 2,934,847, 5-3-60, Cl. 43-15.
- Duff, Jack E., to The Hoover Co. Flexible hose. 2,954,802, 10-4-60, Cl. 138-56.
- Duff-Norton Co.: *See*—  
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Carroll, Charles. 2,955,175.
- Duffett, Simeon L.: *See*—  
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Riddle, Frank W., and Duffett. 2,961,734.
- Duffield, Francis W. N., P. J. H. Riley, and A. T. Bowater. Clevis joints. 2,923,359, 2-2-60, Cl. 287-100.
- Duffield, Joseph F.: *See*—  
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- Duffield, Joseph F., to Amalgamated Electric Corp. Ltd. Low voltage A.C. current switch. 2,962,572, 11-29-60, Cl. 200-166.
- Duffield, Robert B., to United States of America, Atomic Energy Commission. Metathesis of plutonium carrier lanthanum fluoride precipitate with an alkali. 2,931,702, 4-5-60, Cl. 23-14.5.
- Duffin, George F., and J. D. Kendall, to Ilford Ltd. Photographic desensitising compounds. 2,954,292, 9-27-60, Cl. 96-101.
- Duffin, George F., and J. D. Kendall, to Ilford Ltd. Photographic desensitising compounds. 2,965,485, 12-20-60, Cl. 96-101.
- Duffy, Edward K., and I. J. Marwick, to Rome Cable Corp. Cable spacers. 2,934,587, 4-26-60, Cl. 174-41.
- Duffy, John P. Hard-toe attachment for shoes. 2,927,384, 3-8-60, Cl. 36-72.
- Duffy, Marcus L. Automatic work-positioning device for machine tools. 2,933,203, 4-19-60, Cl. 214-1.
- Duffy, Philip A., Jr., to Westinghouse Electric Corp. X-ray apparatus. 2,962,594, 11-29-60, Cl. 250-95.
- Dufour, Alexis: *See*—  
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- Dufour, Charles, to Compagnie Generale de Telegraphie Sans Fil. Storage tubes. 2,931,937, 4-5-60, Cl. 315-12.
- Dufour, Georges, to Brevets Aero-Mecaniques S.A. Rocket launching systems. 2,961,927, 11-29-60, Cl. 89-1.7.
- Dufraisse, Charles, L. Villemey, and P. Mollard, to L'Etat Francais, Societe d'Electrochimie, d'Electrometallurgie et des Aleries Electriques d'Ugine, and l'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procédes George Claude. Solvents for the manufacture of hydrogen peroxide by hydrogenation and oxidation of the alkylated anthraquinones. 2,919,974, 1-5-60, Cl. 23-207.
- Du Fresno, Armand F., and F. H. Page, Jr., to Du Pa Co., Inc. Charging circuit. 2,943,255, 6-28-60, Cl. 320-1.
- Du Fresno, Armand F., and F. H. Page, Jr., to Du Pa Co., Inc. Movable support. 2,959,454, 11-8-60, Cl. 308-6.
- Du Fresno, Robert S., to Gladding, McBean & Co. Tile and method of sealing and mounting. 2,931,751, 4-5-60, Cl. 154-118.
- Dugan, Howard L. Pit service signal alarm. 2,937,370, 5-17-60, Cl. 340-313.
- Dugan, Le Roy, Jr., and H. R. Kraybill, to A. W. Brickman, V. Conquest, F. J. Maden, W. B. Oleson, and E. T. Filbrey, trustees. Antioxidant composition. 2,926,092, 2-23-60, Cl. 99-163.
- Dugdale, Ronald A., to United States of America, Atomic Energy Commission. Process for coloring diamonds. 2,945,793, 7-19-60, Cl. 204-154.
- Dugger, Robert G. Magnetic toy building blocks. 2,939,243, 6-7-60, Cl. 46-24.
- Dugger, Ralph L.: *See*—  
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- Dugger, Ralph L. Door. 2,937,415, 5-24-60, Cl. 20-16.
- Dugger, Ralph L., to The Unipress Co., Inc. Rotary pressing machine control. 2,938,286, 5-31-60, Cl. 38-5.
- Duggins, Ray B., to E. I. du Pont de Nemours and Co. Apparatus for coating. 2,936,733, 5-17-60, Cl. 118-115.
- Duggins, William E., to General Aniline & Film Corp. 1,3-dichloropropyne. 2,950,330, 8-23-60, Cl. 260-654.
- Duggins, William E., to General Aniline & Film Corp. 3-bromo-1-chloro-1-propyne. 2,950,331, 8-23-60, Cl. 260-654.
- Duggins, William E., to General Aniline & Film Corp. Method of controlling nematodes by applying imidazole. 2,953,492, 9-20-60, Cl. 167-33.
- Dugle, Thomas E.: *See*—  
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- Dugle, Thomas E., to J. P. Hayden. Mechanically steerable and electronically automatic headlighting system. 2,941,117, 6-14-60, Cl. 315-81.
- Dugle, Thomas E., and L. J. Meyers, to The Cincinnati Milling Machine Co. Automatic tracing device. 2,949,739, 8-23-60, Cl. 60-52.
- Dugot, Richard S., to Electronic Instrument Co., Inc. Resistance-capacitance combination substitution instrument. 2,954,518, 9-27-60, Cl. 323-74.
- Du Grenier, Francis C., and F. B. Perri, said Perri assor. to Blanche E. Bouchard. Article dispenser. 2,966,279, 12-27-60, Cl. 221-112.
- Duhm, Frank W., to National Mfg. Co. Magnetic catch. 2,943,881, 7-5-60, Cl. 292-251.5.
- Duhoux, Henry C. Scraper attachment for power tool. 2,930,065, 3-29-60, Cl. 15-236.
- Duinker, Simon, to North American Philips Co., Inc. Hybrid system. 2,924,673, 2-9-60, Cl. 179-170.
- Duinker, Simon, to North American Philips Co., Inc. Controllable inductor. 2,953,739, 9-20-60, Cl. 323-89.
- Du Kane Corp.: *See*—  
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- Duke, Jackie E.: *See*—  
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- Duke, James B., to Minerals & Chemicals Corp. of America. Improving clay brightness by flotation and fine grinding. 2,920,832, 1-12-60, Cl. 241-23.
- Duke, Ronald. Button locking dividers compass. 2,928,180, 3-15-60, Cl. 33-153.
- Dukes, John A., and F. Parish, to The United Kingdom Atomic Energy Authority. Mixer-settler apparatus. 2,937,078, 5-17-60, Cl. 23-270.5.
- Duks, Karlis, to AMP Inc. Electrical connectors. 2,945,207, 7-12-60, Cl. 339-276.
- Dulaney, Eugene L., W. J. McAleer, and T. H. Stoudt, to Merck & Co., Inc. 15-hydroxy-progesterone and derivatives thereof. 2,960,434, 11-15-60, Cl. 195-51.



- Dulebohn, David H., T. L. Turnquist, and S. B. Wennes, to Dayton Rogers Mfg. Co. Method of making blanking die assemblies. 2,927,190, 3-1-60, Cl. 219-69.
- Duling, Irl N.: See—  
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- Dulk, Philip W.: See—  
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- Dull, Raymond A. Lapsed time recorder. 2,925,311, 2-16-60, Cl. 346-82.
- Dull, William B.: See—  
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- Dulmage, George A. Bale lifters. 2,944,851, 7-12-60, Cl. 294-26.
- Dulmage, William J.: See—  
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- Dulude, Donald O., to Kuhlman Electric Co. Self-aligning rotary electrical switch. 2,921,996, 1-19-60, Cl. 200-11.
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- Dumaine, Wildon D., 1/2 to T. F. De Cola. Dish display holders. 2,939,586, 6-7-60, Cl. 211-41.
- Dumais, Charles J. Swing head electrode holder. 2,922,027, 1-19-60, Cl. 219-138.
- Dumas, Allan M.: See—  
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- Dumas, Frances L., 50% to G. A. Harrison, Jr. Purse. 2,937,680, 5-24-60, Cl. 150-35.
- Dumas Milner Corp.: See—  
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- Dumas-Wilson & Co.: See—  
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- Dumesnil, Maurice E., to E. I. du Pont de Nemours and Co. Vitriifiable inorganic ceramic binder and silver compositions containing same. 2,942,992, 6-28-60, Cl. 106-48.
- Dumetz, Pierre: See—  
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- Dumire, Leo G.: See—  
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- Dumitriu, John. Electrical printing and educational device. 2,938,616, 5-31-60, Cl. 197-57.
- Dumitriu, John. Recording and counting device. 2,938,617, 5-31-60, Cl. 197-57.
- Dumke, Robert H., and R. E. Bodendoerfer, to Roloc Inc. Photographic printing machine. 2,951,430, 9-6-60, Cl. 95-76.
- Dumke, William E., and J. R. Bailey, to Switchcraft, Inc. Push button switches. 2,935,577, 5-3-60, Cl. 200-18.
- Dumke, William E., and J. R. Bailey, to Switchcraft, Inc. Signal lamp and holder therefor. 2,946,994, 7-26-60, Cl. 340-381.
- Dumm, Irving, III: See—  
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- Dumond, Austin E. Tent stove pipe protector. 2,962,021, 11-29-60, Cl. 126-314.
- Du Mont, Allen B., Laboratories, Inc.: See—  
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- Dumpis, Janis: See—  
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- Dunbar, Alver, G. J. Hausmann, and B. S. Johnson, to Franklin Research Co. Process for armoring cable. 2,934,885, 5-3-60, Cl. 57-162.
- Dunbar, Alver, G. J. Hausmann, and B. S. Johnson, to Franklin Research Co. Self-sealing asphalt shingle and process for making same. 2,935,416, 5-3-60, Cl. 117-4.
- Dunbar, Calvin D., and J. H. Sanders, to ACF Industries, Inc. Non-floating seat structure for expanding gate valves. 2,954,960, 10-4-60, Cl. 251-196.
- Dunbar, Elvan H., Jr.: See—  
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- Dunbar, Frank, to Armour and Co. Process for producing granular triple superphosphate. 2,937,937, 5-24-60, Cl. 71-41.
- Dunbar, George W., to Kusan Inc. Toy boomerang projecting gun. 2,943,619, 7-5-60, Cl. 124-16.
- Dunbar, James R. Apparatus for materials classification. 2,966,267, 12-27-60, Cl. 209-271.
- Dunbar, Joseph E., to The Dow Chemical Co. Adducts of benzoquinonediimines. 2,950,308, 8-23-60, Cl. 260-461.
- Dunbar Kapple, Inc.: See—  
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- Dunbar, Robert H., to The Cal-Dak Co., Inc. Rack. 2,919,809, 1-5-60, Cl. 211-13.
- Duncan, Alan C.: See—  
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Duncan, Theodore R. 2,942,889.
- Duncan, Bobby J., to Sperry Rand Corp. Microwave isolator. 2,943,274, 6-28-60, Cl. 333-24.
- Duncan, Bobby J., to Sperry Rand Corp. Traveling-wave tube attenuator. 2,953,708, 9-20-60, Cl. 315-35.
- Duncan, Bobby J., to Sperry Rand Corp. Microwave isolator. 2,956,245, 10-11-60, Cl. 333-24.
- Duncan, Bobby J., to Sperry Rand Corp. Microwave uni-lateral transducer. 2,956,246, 10-11-60, Cl. 333-24.
- Duncan, Edward J., and A. S. Cimmino. Tube puller. 2,950,525, 8-30-60, Cl. 29-252.
- Duncan Electric Co., Inc.: See—  
Burkhart, George N., Jr. 2,924,385.  
Burkhart, George N., Jr. 2,957,131.  
Burkhart, George N., Jr. 2,957,132.  
Burkhart, George N., Jr., Lee, and Pitt. 2,957,133.
- Duncan, Garnet E.: See—  
Banks, William B., and Duncan. 2,962,894.
- Duncan, Golda A.: See—  
Duncan, Theodore R. 2,942,888.  
Duncan, Theodore R. 2,942,889.
- Duncan, James E., to Pittsburgh Plate Glass Co. Glass composition. 2,956,892, 10-18-60, Cl. 106-52.
- Duncan, James E., and G. L. Thomas, to Pittsburgh Plate Glass Co. Glass composition. 2,938,808, 5-31-60, Cl. 106-52.
- Duncan, James K., and J. E. Jones, to American Photocopy Equipment Co. Plastic binding machine. 2,945,246, 7-19-60, Cl. 11-1.
- Duncan, James K., and W. H. Dreyer, to American Photocopy Equipment Co. Manual punch. 2,957,380, 10-25-60, Cl. 83-549.
- Duncan, Joe S.: See—  
Keplinger, Orin C., Elmer, and Duncan. 2,953,539.
- Duncan, Lane. Grinding wheel dressing. 2,926,652, 3-1-60, Cl. 125-11.
- Duncan, Robert E.: See—  
Erekson, Arthur B., and Duncan. 2,942,988.
- Duncan, Robert K., to The Baldwin Piano Co. Electromechanical transducer. 2,950,358, 8-23-60, Cl. 179-115.
- Duncan, Robert K., to The Baldwin Piano Co. Microphone support structure. 2,950,360, 8-23-60, Cl. 179-146.
- Duncan, Robert P.: See—  
Zink, John S., Jr., Edwards, Duncan, and Reed. 2,964,121.
- Duncan, Theodore R.: See—  
Duncan, Theodore R. 2,942,888.  
Duncan, Theodore R. 2,942,889.
- Duncan, Theodore R., 26% to G. A. Duncan, 24% to T. R. Duncan, and 24% to A. C. Duncan. Phonograph and tone arm. 2,942,888, 6-28-60, Cl. 274-26.
- Duncan, Theodore R., 26% to G. A. Duncan, 24% to T. R. Duncan, and 24% to A. C. Duncan. Phonograph device. 2,942,889, 6-28-60, Cl. 274-26.
- Duncan, Theodore R., to Mattel Inc. Drive and guiding means for disk actuated music comb. 2,956,466, 10-18-60, Cl. 84-97.
- Duncan, Theodore R., to Mattel Inc. Drive mechanism for music boxes. 2,961,911, 11-29-60, Cl. 84-97.
- Duncan, William C., to Cannon Electric Co. Self-locking coupling device. 2,961,630, 11-22-60, Cl. 339-90.
- Duncan, William R.: See—  
Irving, Mart F., and Duncan. 2,941,315.
- Dundas, James: See—  
Amphlett, Philip H., Dundas, and Woodthorpe. 2,939,814.
- Dundore, Marvin W., and R. C. Schneider, to Twin Disc Clutch Co. Hydraulic torque converter. 2,961,830, 11-29-60, Cl. 60-54.
- Dungan, Richard T., H. A. Long, A. F. Stupka, B. L. Taylor, and J. C. Wise, to The Margardt Corp. Turbo jet control system. 2,966,140, 12-27-60, Cl. 121-41.
- Dungan, Robert H., to Minneapolis-Honeywell Regulator Co. Molding method for ceramics. 2,960,747, 11-22-60, Cl. 25-157.
- Dungarvon Co. Ltd.: See—  
Bain, Edwin C. 2,936,537.
- Dungler, Jullen. Process for the treatments performed with gasiform corrosive fluids chiefly adapted for textile, paper and the like industries. 2,922,695, 1-26-60, Cl. 8-149.3.
- Dunham-Bush, Inc.: See—  
Boling, Cecil. 2,956,419.
- Dunham, Edward M. Pile cleaning and treatment device. 2,960,706, 11-22-60, Cl. 15-4.
- Dunham, George W.: See—  
McDowell, John R. 2,942,627.
- Dunham, George W. Looms. 2,928,428, 3-15-60, Cl. 139-126.
- Dunham, George W. Pilots for filling threads. 2,946,353, 7-26-60, Cl. 139-125.
- Dunham, Homer R. G., to Rinshed-Mason Co. Paint component proportioning device. 2,925,101, 2-16-60, Cl. 141-95.
- Dunham, Kenneth R., J. Van Den Berghe, and W. J. Dulmage, to Eastman Kodak Co. Purifying organometal-catalyzed isotactic polystyrene by chlorination. 2,958,686, 11-1-60, Cl. 260-93.5.



- Dunham, Kenneth R., J. Van Den Berghe, and J. W. H. Faber, to Eastman Kodak Co. Purifying organometal-catalyzed isotactic poly- $\alpha$ -olefins by heat treatment. 2,958,687, 11-1-60, Cl. 260-93.5.
- Dunham, Stuart B., to United States of America, Navy. Radiation attenuation comparator integrator. 2,966,590, 12-27-60, Cl. 250-83.3.
- Dunigan, Francis P., to Machinery Electrification, Inc. Machine tool with load control. 2,961,808, 11-29-60, Cl. 51-165.
- Dunkelberger, Edwin R., to The Martin Co. Drawing arrangement. 2,958,948, 11-8-60, Cl. 33-1.
- Dunkley, Rowland A. G.: *See*—  
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- Dunklin, Edward W., and M. K. Moudry, to United States Movidyn Corp. Methods for treating liquid circulating systems and compositions therefor. 2,944,967, 7-12-60, Cl. 210-64.
- Dunlap, Charles K., Jr., R. W. Turnage, and B. R. Whaley, to Sonoco Products Co. Means for forming a spiral wound paper tube structure. 2,922,343, 1-26-60, Cl. 93-80.
- Dunlap, Errett, III, to Pittsburgh Plate Glass Co. Tank burner adjustment device. 2,931,428, 4-5-60, Cl. 158-4.
- Dunlap, Henry F., to United States of America, Navy. Delay condenser safety device. 2,942,549, 6-28-60, Cl. 102-70.2.
- Dunlap, Henry L.: *See*—  
Chapman, Harvey W., and Dunlap. 2,947,262.  
Chapman, Harvey W., Dunlap, and Krokos. 2,932,530.  
Chapman, Harvey W., Dunlap, and Rigney. 2,956,517.
- Dunlap, Henry L., to Evans Products Co. (Delaware). Freight supporting bar. 2,935,033, 5-3-60, Cl. 105-369.
- Dunlap, Ralph E. Anti-skid tire chain. 2,926,717, 3-1-60, Cl. 152-26.
- Dunlap, Robert B., to Jacob S. Kamborian. Power operated trimmer for toe lasting machine. 2,952,858, 9-20-60, Cl. 12-7.1.
- Dunlop, Adam, to Show Process Development Corp. Mould structure and its production. 2,931,081, 4-5-60, Cl. 22-193.
- Dunlop, Donald D.: *See*—  
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- Dunlop, Donald D., and C. E. Hemminger, to Esso Research and Engineering Co. Two-pass hydroforming. 2,954,490, 4-26-60, Cl. 208-65.
- Dunlop, Donald D., W. A. Bauch, and R. S. Whiteley, to Esso Research and Engineering Co. Control of particle size distribution in fluid coking of petroleum oils. 2,952,356, 9-13-60, Cl. 209-136.
- Dunlop Rubber Co. Ltd.: *See*—  
Bent, William H. 2,961,275.  
Butler, Henry J. Re. 24,870.  
Butler, Henry J. 2,921,650.  
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- Davies, Raymond J., and Pacaud. 2,949,316.
- Dewar, Douglas. 2,926,873.
- Hodkinson, Harold. 2,937,723.
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- Pumphrey, Howard F. 2,933,762.
- Trevaskis, Henry W. 2,921,811.
- Trevaskis, Henry W. 2,964,333.
- Trevaskis, Henry W., and Knight. 2,933,162.
- Trevaskis, Henry W., and Lowe. 2,943,668.
- Dunlop Tire and Rubber Corp.: *See*—  
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- Dunmire, Paul G., to Smith-Blair, Inc. Pipe coupling with overlapped gasket. 2,936,186, 5-10-60, Cl. 285-373.
- Dunmire, Paul G., to Smith-Blair, Inc. Pipe coupling having fluid responsive sealing means. 2,950,930, 8-30-60, Cl. 285-110.
- Dunn, Albert L., J. H. Quinn, Jr., and R. W. Stoner, to Chance Vought Aircraft, Inc. Aircraft wing fold system. 2,925,233, 2-16-60, Cl. 244-43.
- Dunn, Allen R., G. G. Givens, and P. L. Rinehart, to Newport News Shipbuilding and Dry Dock Co. Insulation cutting tool. 2,923,180, 2-2-60, Cl. 77-69.
- Dunn, Donald A.: *See*—  
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- Dunn, Donald J.: *See*—  
Holland, John J., Knott, Bryant, and Dunn. 2,927,403.
- Dunn, Donald M.: *See*—  
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- Dunn, Earl F., to The Singer Mfg. Co. Needle carrier for blindstitch machines. 2,920,590, 1-12-60, Cl. 112-176.
- Dunn, Earl F., S. M. Sliva, and F. L. Walling, to The Singer Mfg. Co. Thread tension devices. 2,937,605, 5-24-60, Cl. 112-254.
- Dunn, Edward J., to American Viscose Corp. Non-blocking pellicle and method for making the same. 2,930,717, 3-29-60, Cl. 117-145.
- Dunn, Elman R.: *See*—  
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- Dunn, Elman R., to Gardner Machine Co. Ejector work removing device. 2,920,427, 1-12-60, Cl. 51-118.
- Dunn, Elman R., to Gardner Machine Co. Gauge for setting abrasive discs. 2,926,466, 3-1-60, Cl. 51-165.
- Dunn, Franklin M. Trolling rig. 2,932,115, 4-12-60, Cl. 43-43.12.
- Dunn, George E., to Chrysler Corp. Propeller shaft and center bearing, and mounting therefor. 2,930,660, 3-29-60, Cl. 308-28.
- Dunn, Harold S. Spring activated sliding door. 2,925,860, 2-23-60, Cl. 160-87.
- Dunn, Harold S. Support for flexible awning covers. 2,950,727, 8-30-60, Cl. 135-5.
- Dunn, Harold S. Insulating and light transmitting supporting panel for canvas awning structures. 2,957,483, 10-25-60, Cl. 135-5.
- Dunn, Jenus L., to United States of America, Air Force. Electronic pulse decoder. 2,943,299, 6-28-60, Cl. 340-167.
- Dunn, Jesse T., to Union Carbide Corp. Process for separating acetone and diacetylene. 2,941,020, 6-14-60, Cl. 260-678.
- Dunn, Jesse T., and D. L. Heywood, to Union Carbide Corp. Pyridinepolycarboxylic acid 1-oxides. 2,953,572, 9-20-60, Cl. 260-295.
- Dunn, Jesse T., and W. R. Proops, to Union Carbide Corp. Preparation of acrylic acid esters. 2,966,510, 12-27-60, Cl. 260-486.
- Dunn, Jesse T., and W. R. Proops, to Union Carbide Corp. Preparation of acrylic acid esters. 2,966,511, 12-27-60, Cl. 260-486.
- Dunn, John B., and E. F. Rossi, to Allis-Chalmers Mfg. Co. Vibrating apparatus. 2,938,393, 5-31-60, Cl. 74-61.
- Dunn, John F., to Daystrom, Inc. Photometers, more particularly photographic exposure meters. 2,930,281, 3-29-60, Cl. 88-23.
- Dunn, Joseph S.: *See*—  
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- Dunn, Lonnie M., and W. N. Brummett. Multiple speed transmission. 2,961,885, 11-29-60, Cl. 74-375.
- Dunn, Lyman D.: *See*—  
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- Dunn, Lyman D., Cooker. 2,949,525, 8-16-60, Cl. 219-35.
- Dunn, Michael J., and D. M. Compaction roller. 2,943,541, 7-5-60, Cl. 94-50.
- Dunn, Stephen T. Electrical mailbox signal. 2,945,219, 7-12-60, Cl. 340-281.
- Dunn, Wallace F., to General Motors Corp. Separator. 2,923,582, 2-2-60, Cl. 308-235.
- Dunn, Wilbur L., to National Tank Co. Water filters. 2,935,195, 5-3-60, Cl. 210-104.
- Dunn, Wilbur L., to National Tank Co. Corrosion-resistant fluid container. 2,953,276, 9-20-60, Cl. 220-5.
- Dunn, William H. Kaleidoscopic advertising display. 2,954,723, 10-4-60, Cl. 88-24.
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- Dunnegan, Ted, Jr., to Temco Electronics & Missiles Co. Crab angle computer. 2,959,375, 11-8-60, Cl. 244-14.
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- Dunning, Franklin W.: *See*—  
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- Dunning, John W., A. K. Moses, Jr., and R. J. Terstige, to International Basic Economy Corp. Method and apparatus for fiberizing fibrous material. 2,943,012, 6-28-60, Cl. 162-18.
- Dunning, Robert M., to Waldorf Paper Products Co. Can carriers. 2,936,069, 5-10-60, Cl. 206-65.
- Dunning, Robert M., to Waldorf Paper Products Co. Folder lock. 2,940,655, 6-14-60, Cl. 229-87.
- Dunning, Robert M., to Waldorf Paper Products Co. Method and apparatus for folding carton flaps. 2,953,070, 9-20-60, Cl. 93-49.
- Dunning, Robert M., to Waldorf Paper Products Co. Sliced bacon package. 2,965,283, 12-20-60, Cl. 229-87.
- Dunning, Sanford F., to American Telephone and Telegraph Co. Distributing system. 2,922,847, 1-26-60, Cl. 179-27.
- Dunsmuir, Robert, to The British Thomson-Houston Co. Ltd. Magnetrons. 2,929,959, 3-22-60, Cl. 315-39.75.
- Dunsmuir, Robert, to The British Thomson-Houston Co. Ltd. High frequency oscillators. 2,943,235, 6-28-60, Cl. 315-39.75.
- Dunson, Philip M. Broad-band impedance matching. 2,920,323, 1-5-60, Cl. 343-850.
- Dunsworth, Lorne C., and A. N. Thomas, Jr., to The Marquardt Corp. Drag reduction shroud for jet engines. 2,948,115, 8-9-60, Cl. 60-35.6.
- Dunwoody, Archibald B. Process for cleaning and pulping waste. 2,954,173, 9-27-60, Cl. 241-24.
- Dunwoodie, David S., to The Monarch Marking System Co. Printing cylinder for marking machines. 2,952,205, 9-13-60, Cl. 101-378.
- Dunwoodie, Duane E., to Hewlett-Packard Co. Square wave generator. 2,963,659, 12-6-60, Cl. 331-130.
- Dunwoodie, Duane E., and N. B. Schrock, to Hewlett-Packard Co. Multivibrator. 2,942,207, 6-21-60, Cl. 331-145.
- Dunzer, Werner. Missile with trajectory affecting means. 2,922,367, 1-26-60, Cl. 102-64.
- Duo-Bed Corp.: *See*—  
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## Duofold Inc.: See—

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Evans, Aubrey M. 2,921,457.

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## Dupere, Abraham. Door lock. 2,963,897, 12-13-60, Cl. 70-447.

## Duperron, Leo J., F. J. Ross, and E. L. Charbonneau. Chain saw guard. 2,937,673, 5-24-60, Cl. 143-32.

## Dupke, Werner, to Korber, Kurt, &amp; Co., K.G. Cigarette rod making machines. 2,949,918, 8-23-60, Cl. 131-66.

## Duplan Corp., The: See—

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## Dupler, William T.: See—

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## Duplin, Victor J., Jr., and G. B. Ebersole, deceased (by M. G. Ebersole, executrix), to The Babcock &amp; Wilcox Co. Fly ash reclamation by pelletizing. 2,948,948, 8-16-60, Cl. 25-156.

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Fesano, Frank L. 2,956,917.  
Feild, Alexander L., Jr. 2,948,627.  
Field, Frederick C., Jr. 2,931,090.  
Field, Frederick C., Jr. 2,962,794.  
Fields, Reuben T. 2,946,710.  
Fisher, Walter F. 2,933,476.  
Flenner, Albert L. 2,948,655.  
Forsgard, Frederick C. 2,937,087.  
Forshey, William O., Jr. 2,924,624.  
Forshey, William O., Jr. 2,924,625.  
Forshey, William O., Jr. 2,941,012.  
Foster, Seymour R. 2,955,058.  
Frank, George E., and Measamer. 2,953,682.  
Frankenburg, Peter E., and Frazer. 2,957,852.  
Frazer, August H., and Shivers. 2,929,803.  
Fuller, Mack F. 2,937,203.  
Funk, Dennis L. 2,943,701.  
Gallagher, George A. 2,938,881.  
Gallinger, Clyde T. 2,924,558.  
Garlington, William D. 2,926,389.  
Gillson, Joseph L., Jr. 2,933,602.  
Glueck, Norman E. 2,963,932.  
Godshalk, Henry W. 2,934,512.  
Godshalk, Henry W. 2,956,970.  
Goffinet, Edward P., Jr. 2,934,576.



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 Gollob, Fred. 2,955,095.  
 Gormley, William T. 2,938,015.  
 Graham, Boynton. 2,940,869.  
 Graham, Boynton. 2,955,953.  
 Graham, Boynton. 2,964,455.  
 Graham, James W. 2,934,577.  
 Green, Charles P. 2,949,341.  
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 Greif, Mortimer. 2,956,902.  
 Gresham, William F., and Hunt. 2,933,480.  
 Griset, Ernest J., Jr., and McIntosh. 2,924,000.  
 Hager, Glenn F. 2,924,623.  
 Hall, John N. 2,958,112.  
 Hammer, George N., and Uhland. 2,928,815.  
 Handy, Carleton T., and Rothrock. 2,933,474.  
 Hansley, Virgil L., and Pryde. 2,934,401.  
 Hare, Weston A. 2,938,008.  
 Hare, Weston A. 2,958,670.  
 Harris, John F., Jr. 2,923,746.  
 Harris, John F., Jr. 2,962,417.  
 Harris, John F., Jr. 2,965,677.  
 Harton, Joseph P. 2,922,275.  
 Hasek, William R. 2,928,870.  
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 Haven, Alfred C., Jr. 2,924,622.  
 Haw, John O. 2,930,080.  
 Hewett, James V., and Stahl. 2,942,027.  
 Hill, Frederick B., Jr. 2,929,800.  
 Hill, Frederick B., Jr. 2,952,547.  
 Hiller, Dale M. 2,943,931.  
 Hines, Roger A., and Busse. 2,961,389.  
 Hinkle, Barton L., and Stults. 2,962,766.  
 Hoffman, Frank E. 2,941,255.  
 Hoffman, Lewis C. 2,930,713.  
 Hoffman, Lewis C. 2,950,209.  
 Hoffman, Lewis C. 2,965,509.  
 Hoffman, Lewis C. 2,965,784.  
 Hoffman, Walter B. 2,937,189.  
 Hoffman, William A., Janosik, and Ten Broeck. 2,931,732.  
 Hogsed, Milton J. 2,925,451.  
 Holland, Marlin C. 2,939,201.  
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 Hoover, Conrad L. 2,965,448.  
 Hoover, Fred W. 2,933,541.  
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 Howard, Edward G., Jr. 2,943,081.  
 Howard, Edward G., Jr. 2,950,987.  
 Howard, Edward G., Jr. 2,965,650.  
 Hubbard, James K. 2,920,992.  
 Hughes, Jesse E., and Thatcher. 2,952,708.  
 Hull, Donald R. 2,965,924.  
 Huot, Raymond N. 2,920,962.  
 Hurdle, Arthur J. 2,964,992.  
 Hurt, David M. 2,964,509.  
 Ibbes, Gerald W. 2,924,002.  
 Iler, Ralph K. 2,956,958.  
 Ingraham, John N. 2,923,684.  
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 Iverson, Robert J. 2,936,468.  
 Jackson, Julius. 2,933,505.  
 James, George M. 2,945,772.  
 Jenkins, Sidney H., Jr., and Punderson. 2,964,500.  
 Jennings, Charles O. 2,944,754.  
 Johnson, Orville H., and Schmidt. 2,953,057.  
 Jones, Harry H. 2,930,349.  
 Joukainen, Arnold S., Moroz, and Sutton. 2,920,347.  
 Jung, Shee L. 2,962,470.  
 Kahn, Louis E., and Dalve. 2,946,692.  
 Kalll, James. 2,923,979.  
 Kane, Robert P. 2,955,091.  
 Katz, Manfred. 2,929,802.  
 Katz, Manfred. 2,949,440.  
 Kauer, James C. 2,952,718.  
 K'burg, Robert T. 2,923,648.  
 Keefe, Robert L., Jr. 2,960,198.  
 Kegelman, Matthew R. 2,933,380.  
 Kehr, Clifton L. 2,921,926.  
 Keidel, Frederick A. 2,944,957.  
 Keown, Robert W. 2,947,795.  
 Killian, Joseph J. 2,936,482.  
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 Klenke, Edward F., Jr. 2,964,532.  
 Klopping, Hein L. 2,933,502.  
 Klopping, Hein L. 2,933,504.  
 Knoth, Walter H., Jr. 2,964,507.  
 Knox, Roger E. 2,955,056.  
 Koller, Charles R. 2,929,801.  
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 Lichtblau, Ellis I. 2,950,217.  
 Lindstrom, Gustaf T. 2,950,518.  
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 Lipscomb, Robert D. 2,952,706.  
 Loving, Frank A., Jr. 2,940,300.  
 Loving, Frank A., Jr. 2,960,859.  
 Luckenbaugh, Raymond W. 2,935,393.  
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 Ludwig, Richard E. 2,937,211.  
 Lyman, Donald J. 2,953,538.  
 MacDonald, Robert N., and Roedel. 2,920,059.  
 Maffet, Vere. 2,953,455.  
 Magat, Eugene E. 2,935,371.  
 Mallouk, Robert S., and Sandt. 2,955,099.  
 Marquis, David M. 2,931,840.  
 Marquis, David M. 2,962,529.  
 Martin, Elmore L. 2,927,023.  
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 Mathre, Owen B. 2,927,117.  
 Mathre, Owen B. 2,965,457.  
 Maurer, John F. 2,941,867.  
 McBride, Richard T. 2,920,985.  
 McBride, Richard T. 2,921,869.  
 McFarland, John W. 2,920,062.  
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 McKay, George R., and Settlage. 2,934,527.  
 McKinney, Robert M., and Reeder. 2,953,434.  
 McKusick, Blaine C. 2,940,912.  
 McKusick, Blaine C. 2,940,913.  
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 McNutt, Joseph P., III. 2,961,179.  
 Meier, John W. 2,961,340.  
 Melby, Lester R. 2,926,187.  
 Middleton, William J. 2,940,977.  
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 Miller, Donald F. 2,923,999.  
 Miller, Ivan K. 2,960,385.  
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 Miller, Robert K. 2,923,645.  
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 Mitchell, James A., and Hinkle. 2,944,296.  
 Moede, Jerome A. 2,940,828.  
 Monson, Leon A. 2,920,952.  
 Mooberry, David D. 2,920,980.  
 Moran, Albert L. 2,951,832.  
 Morgan, Paul W. 2,955,324.  
 Morris, Jean M. 2,945,958.  
 Muettterties, Earl L. 2,925,439.  
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 Munger, Stanley H. 2,923,673.  
 Nagel, Herbert, and Hatt. 2,944,918.  
 Nelson, Jerry A., Miller and Smeltz. 2,958,613.  
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 Notley, Norman T. 2,951,758.  
 O'Callaghan, Thomas. 2,921,894.  
 Parnell, John E. 2,962,466.  
 Pattison, Dexter B. 2,924,607.  
 Pedrotti, Rudolph L., Swamer, and Dewey. 2,937,210.  
 Perkins, Melvin A., Oken, and Whelen. 2,957,004.  
 Pitts, Leonard S. 2,955,009.  
 Pitzl, Gilbert. 2,956,330.  
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 Potter, Howard L., and Terhune. 2,960,383.  
 Pryde, Everett H. 2,926,989.  
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 Richards, Robert L., Jr. 2,928,132.  
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 Robinson, Charles F. 2,948,705.  
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 Rogers, Arthur O. 2,934,561.  
 Roscoe, Howard E. 2,925,088.  
 Rosenbaum, Chester K., and Tallman. 2,950,260.  
 Rosenberg, Hans R. 2,933,430.  
 Rugg, John S. 2,933,481.  
 Sandy, Charles A., and Wernitz. 2,935,973.  
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 Sapper, David I. 2,925,356.  
 Sartori, Mario F. 2,940,983.  
 Sartori, Mario F. 2,965,631.  
 Satterthwaite, Cameron B. 2,963,340.  
 Scherber, Floyd I. 2,953,482.  
 Schreyer, Ralph C. 2,962,451.  
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 Sharps, David L. 2,964,828.  
 Shashoua, Victor E. 2,965,614.  
 Sheppard, William A. 2,961,470.  
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 Smith, William C. 2,922,825.  
 Smith, William C. 2,937,171.  
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 Smith, William C. 2,952,514.  
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 Snyder, Jack A. 2,922,739.  
 Snyder, James M. 2,950,271.  
 Spellman, Floyd E., Jr. 2,942,325.  
 Spiegler, Louis. 2,947,781.  
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 Spining, Arthur M., Jr. 2,935,373.  
 Sroog, Cyrus E. 2,961,365.  
 Stamatoff, Gelu S. 2,939,845.  
 Starks, Fred W. 2,945,070.  
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 Stephan, Paul G. 2,956,682.  
 Stephanou, Stephen E. 2,932,556.  
 Steuber, Walter. 2,929,804.  
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 Streicher, Michael A. 2,940,867.  
 Stuart, Harold J. 2,949,380.  
 Sullivan, Robert H. 2,964,534.  
 Swan, Lewis D. 2,930,099.  
 Sweeny, Gilbert D. M. 2,959,498.  
 Swerlick, Isadore. 2,941,254.  
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 Swindells, Frank E. 2,941,104.  
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 Thomas, Leland F. 2,961,738.  
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 Todd, Charles W. 2,949,354.  
 Tuites, Donald E. 2,934,541.  
 Tullock, Charles W. 2,928,720.  
 Umberger, Jacob Q. 2,965,580.  
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 Van Stappen, Albert L. 2,964,423.  
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 Wahlig, Charles F. 2,939,029.  
 Walus, Aloysius N. 2,920,054.  
 Ward, Wallace. 2,950,957.  
 Weinmayr, Viktor. 2,925,423.  
 Welsh, Richard F., Jr. 2,925,212.  
 Welton, Donald E. 2,965,441.  
 Wernlund, Christian J. 2,928,800.  
 Wernlund, Christian J. 2,943,029.  
 White, Deane R. 2,940,884.  
 White, James R. 2,920,349.  
 Wigton, Henry F. 2,952,513.  
 Wollinski, Leon B. 2,924,584.  
 Woodacre, Ernest E. 2,957,766.  
 Woodward, David W., and Chu. 2,927,019.  
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 Wyeth, Nathaniel C. 2,941,735.  
 Young, Charles A. 2,953,489.  
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- Dupont, Enrique A., to Establecimientos Metalurgicos Santa Rosa Sociedad Anonima. Barbed wire. 2,959,399, 11-8-60, Cl. 256-7.  
 Dupont, Roland. Electric multi-purpose vulcanizing outfits. 2,934,786, 5-3-60, Cl. 18-18.
- Du Pont, Stephen, to Doman Helicopters, Inc. Freely tilting rotor for self sustaining aircraft with erecting mechanism and the erecting mechanism. 2,928,478, 3-15-60, Cl. 170-160.55.
- Dupouy, Vincent G. B. Liquid controlled vibration producing device for vibrating sieves, screens and tables and for other applications. 2,963,914, 12-13-60, Cl. 74-87.
- Düppengiesser, Karl A. Soil-working implement. 2,956,831, 10-18-60, Cl. 294-57.
- Dupras, Louis. Self locking differential. 2,945,400, 7-19-60, Cl. 74-711.
- Dupre, Eugene J.: See—  
 Hoover, Howard L., Dupre, and Rankin. 2,958,593.
- Dupre, Henry P., to Burndy Corp. Predetermined force-travel tool. 2,926,556, 3-1-60, Cl. 81-15.
- Dupre, Henry P., and M. Lazar, to Burndy Corp. Coaxial connection. 2,958,845, 11-1-60, Cl. 339-177.
- Dupre, Henry P., and M. Lazar, to Burndy Corp. Pneumatically operated compressing tool. 2,962,074, 11-29-60, Cl. 152-1.
- Dupre, Joseph C. Direct reading height gauge. 2,936,526, 5-17-60, Cl. 33-170.
- Dupree, James N., to California Plasteck, Inc. Annunciator panel. 2,938,200, 5-24-60, Cl. 340-381.
- Dupree, James N., to California Plasteck, Inc. Landing gear control incorporating safeguards against erroneous operation. 2,945,652, 7-19-60, Cl. 244-102.
- Dupree, James N., to California Plasteck, Inc. Illuminated plastic panel and method of fabricating same. 2,948,074, 8-9-60, Cl. 41-22.
- Dupree, Samuel F., Jr. Ash receptacle and mounting means. 2,958,426, 11-1-60, Cl. 211-86.
- Dupree, Walter S. Children's sidewalk simulated boat. 2,958,535, 11-1-60, Cl. 280-1.11.
- Dupy, Olin L.: See—  
 Challenger, Robert M., and Dupy. 2,958,026.
- Dupy, Olin L., to Magnasyn Mfg. Co. Ltd. Automatic programming system and method for recording of control records. 2,931,689, 4-5-60, Cl. 346-74.
- Dupy, Thurman J., to Gulf Oil Corp. Recovery of aromatics from water-containing cracked gas mixtures. 2,960,547, 11-15-60, Cl. 260-674.
- Dupzyk, Ronald J., and H. A. Woods, to Shell Oil Co. Dye-clay grease composition and manufacturing process therefor. 2,940,928, 6-14-60, Cl. 252-28.
- Dura Corp.: See—  
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- Duraflex Co., The: See—  
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- Durakool, Inc.: See—  
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- Duran, Johannes C., and M. A. M. Bakker, to North American Phillips Co. Inc. Electric discharge tube. 2,920,786, 1-12-60, Cl. 220-2.3.
- Durand, Daniel C., Jr., and W. R. Wines, to Sperry Rand Corp. Electronically controlled high speed printer. 2,954,731, 10-4-60, Cl. 101-93.
- Durant, Leonard G., to E. D. Jones Corp. Apparatus for continuously feeding compactible material into a pressurized tank. 2,954,883, 10-4-60, Cl. 214-17.
- Durant, Leonard G., and A. Surino, to Pandia, Inc. Continuous digester. 2,948,336, 8-9-60, Cl. 162-236.
- Durant, Lyndon A., to United Music Corp. Electric credit accumulator. 2,922,575, 1-26-60, Cl. 235-132.
- Durant, Lyndon A., to United Music Corp. Popularity meter for phonograph record playing apparatuses. 2,930,622, 3-29-60, Cl. 274-10.
- Durant, Lyndon A., to United Music Corp. Record transfer mechanism. 2,935,325, 5-3-60, Cl. 274-10.
- Durant, Lyndon A., to United Mfg. Co. Automatic bowling game. 2,962,285, 11-29-60, Cl. 273-44.
- Durant, Lyndon A., to United Mfg. Co. Magnetic electric switch for games. 2,966,561, 12-27-60, Cl. 200-61.1.
- Dura Pak Corp.: See—  
 Glazer, Irving D. 2,936,087.  
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- Dura-Vent Corp.: See—  
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- Durbetaki, Antony J., and S. M. Linder, to Food Machinery and Chemical Corp. Preparation of sobrerol. 2,949,489, 8-16-60, Cl. 260-631.5.
- Durbin, Edward, to Sperry Rand Corp. Electronic energy storage circuits. 2,956,232, 10-11-60, Cl. 328-40.
- Durbin, Edward, and W. P. Frantz, to Sperry Rand Corp. Hyperbolic navigation receiver. 2,932,022, 4-5-60, Cl. 343-103.
- Durbin, Vernon, to National Pneumatic Co., Inc. Cooking utensil. 2,939,606, 6-7-60, Cl. 220-63.
- Durbin, Vernon, to National Pneumatic Co., Inc. Photoelectric control system for door operation and the like. 2,946,931, 7-26-60, Cl. 317-124.
- Durbin, Vernon, and E. W. Johnson, to National Pneumatic Co., Inc. Field telephone hand set. 2,929,883, 3-22-60, Cl. 179-84.
- Durding, William W.: See—  
 Goss, Wilbur H., and Durding. 2,924,401.
- Durfee, Allen K. Work holding apparatus. 2,932,995, 4-19-60, Cl. 77-62.
- Durgin, Douglas C., to Monroe Calculating Machine Co. Carriage shift for business machines. 2,928,517, 3-15-60, Cl. 197-177.
- Durham, Henry O., to James Equipment Co., Inc. Coll forming apparatus. 2,962,076, 11-29-60, Cl. 153-6.
- Durham, Hobart N., to H. N. Durham, as trustee. Automobile driver training and testing apparatus. 2,935,794, 5-10-60, Cl. 35-11.
- Durham Mfg. Corp.: See—  
 Schlaak, Ervin, and King. 2,952,301.
- Durham, Philip F., to Packers Package Co., Inc. Sliced bacon package. 2,965,497, 12-20-60, Cl. 99-174.
- Durie, Douglas S. L.: See—  
 Wright, Jerauld G., and Durie. 2,933,242.
- Durieux, Charles W.: See—  
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- Durig, Rudolf, and W. Bossard, to J. R. Geigy, A.-G. Metal-lizable polyazo dyestuffs and the complex copper compounds thereof. 2,927,917, 3-8-60, Cl. 260-148.
- Duriron Co., Inc., The: See—  
 Freed, Jacob B. 2,961,214.  
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 Freed, Jacob B., and Sharpe. 2,945,710.
- Durkee, Clarence L. Vessel for treatment of fragmentary material. 2,966,215, 12-27-60, Cl. 162-237.
- Durkee, James D., to Bell & Gossett Co. Alternate tone receiver and method of signal transmission and reception. 2,939,912, 6-7-60, Cl. 178-34.
- Durkee, James D., to Bell & Gossett Co. Signaling transmitter. 2,939,913, 6-7-60, Cl. 178-66.
- Durkopwerke Aktiengesellschaft: See—  
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- Durlacher, Edwin H. Playground apparatus. 2,954,977, 10-4-60, Cl. 272-60.
- Durler, Russell W., to ACF Industries, Inc. Automatic choke control. 2,962,014, 11-29-60, Cl. 123-119.
- Durnal, Robert G., to Westinghouse Electric Corp. Cathode ray image display systems. 2,951,965, 9-6-60, Cl. 315-22.
- Durner, Carl. Safety brake setting device for vehicles. 2,946,485, 7-26-60, Cl. 222-30.
- Durney, Thomas M. Internal grinder quill. 2,919,521, 1-5-60, Cl. 51-166.
- Durnin, Richard W. Mechanical graph. 2,939,421, 6-7-60, Cl. 116-135.
- Duro Consolidated, Inc.: *See*—  
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- Duro Metal Products Co.: *See*—  
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- Durocher, Hector R.: *See*—  
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- Du Rose, Arthur H. Chemical nickel plating. 2,955,959, 10-11-60, Cl. 117-113.
- Duro-Test Corp.: *See*—  
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- Durr, Albert M., Jr., and W. R. Meador, to Continental Oil Co. Gasoline compositions. 2,922,706, 1-26-60, Cl. 44-58.
- Durr, Walter, F. A. Haag, and B. E. Strittmatter, to Swingfire Ltd. Pulse jet apparatus. 2,959,214, 11-8-60, Cl. 158-4.
- Durr, Walter, H. H. Geffcken, L. R. Huber, F. A. Haag, and B. B. Strittmatter, to Swingfire (Bahamas) Ltd. Atomizing and spraying apparatus. 2,926,855, 3-1-60, Cl. 239-129.
- Durrenberger, Frédéric. Machine for binding railroad ties and the like wooden parts. 2,956,498, 10-18-60, Cl. 100-8.
- Durrwerke Aktiengesellschaft: *See*—  
Deithausen, Karl. 2,960,184.  
Hegemann, Johann. 2,932,169.
- Durso, Donald F., to The Buckeye Cellulose Corp. Production of cellulose products. 2,931,734, 4-5-60, Cl. 106-123.
- Durst, Arnold.: *See*—  
Fluegel, Walter, and Durst. 2,955,010.
- Durst, George.: *See*—  
Clark, Kenneth B., and Durst. 2,961,762.
- Durst, Henry J.: *See*—  
Wantz, Clarence, and Durst. 2,961,876.
- Durst, Jack R., and J. A. Stein, to The Pillsbury Co. Nut-like food product and process for making. 2,952,544, 9-13-60, Cl. 99-14.
- Durst, Kenneth R., to The B. F. Goodrich Co. Cross-wind landing gear. 2,938,685, 5-31-60, Cl. 244-103.
- Durst, Kenneth R., and R. E. Frazier, to The B. F. Goodrich Co. Brake mechanism. 2,924,301, 2-9-60, Cl. 188-73.
- Durst, Robert F., and A. E. Machala, to International Telephone and Telegraph Corp. Pressure resistant insulators for selenium rectifiers. 2,934,683, 4-26-60, Cl. 317-234.
- Duschinsky, Robert, and C. Heidelberger, said Duschinsky assor., to Hoffmann-La Roche Inc. 5-fluorocytosine and preparation thereof. 2,945,038, 7-12-60, Cl. 260-256.4.
- Duschinsky, Robert, and C. Heidelberger. 5-fluoroorotic acid and preparation thereof. 2,948,725, 8-9-60, Cl. 260-260.
- Du Shane, Wallace H., to Deere & Co. Automatic load and leveling control for agricultural tractors and implements. 2,920,705, 1-12-60, Cl. 172-9.
- Du Shane, Wallace H., to Deere & Co. Selective load and position control for agricultural tractor. 2,921,638, 1-19-60, Cl. 172-9.
- Du Shane, Wallace H., to Deere & Co. Draft load control for tractors. 2,940,530, 6-14-60, Cl. 172-7.
- Du Shane, Wallace H., and H. K. Kienzie, to Deere & Co. Implement control system. 2,924,285, 2-9-60, Cl. 172-4.
- Du Shane, Wallace H., and H. K. Kienzie, to Deere & Co. Hitch device. 2,935,145, 5-3-60, Cl. 172-275.
- Dushkes, Sherman Z.: *See*—  
Hawkinson, Donald R., and Dushkes. 2,965,119.
- Dusina, Peter P., Jr., and R. M. Stallard, to General Motors Corp. Process for embossing decorative articles. 2,946,713, 7-26-60, Cl. 154-106.
- Dustan, Frank, to Fitchburg Engineering Corp. Machine for sawing crystals and other hard materials. 2,960,978, 11-22-60, Cl. 125-13.
- Dust-Tex Corp.: *See*—  
Yamen, Irving A., and Smith. 2,932,048.
- Dutchess, Elmer E.: *See*—  
Kebler, Richard W., Dutchess, and Hutcheson. 2,962,838.
- Dutchik, Victor H.: *See*—  
Bidlindmaier, Ernst R., and Dutchik. 2,930,652.
- Duteil, Louis, to Compagnie des Freins et Signaux Westinghouse. Electronic track circuits. 2,930,887, 3-29-60, Cl. 246-34.
- Duteil, Louis, to Compagnie des Freins et Signaux Westinghouse. Track circuits. 2,941,069, 6-14-60, Cl. 246-34.
- Dutmars, James E., to Oxford, Ltd. Filler strip for knock-down sectional furniture. 2,962,334, 11-29-60, Cl. 312-108.
- Dutson, Keith J. F.: *See*—  
Magee, John G. 2,960,989.
- Dutterer, Rex J., to Hastings Mfg. Co. Spark plugs. 2,957,099, 10-18-60, Cl. 313-143.
- Dutton, Hubert W., Jr., to E. I. du Pont de Nemours and Co. Apparatus for making dispersions. 2,924,439, 2-9-60, Cl. 259-7.
- Dutton, John C., and J. R. Barr, to General Electric Co. Electrical connector. 2,931,009, 3-29-60, Cl. 339-268.
- Duval, Claiborne A., Jr., to Socony Mobil Oil Co., Inc. Balanced alkali-acid stabilization of fuel oils. 2,959,539, 11-8-60, Cl. 208-271.
- Duval d'Adrian, Vincent L. Traffic markers. 2,933,989, 4-26-60, Cl. 94-1.5.
- Duval d'Adrian, Vincent L., to Flex-O-Lite Mfg. Corp. Starch treated free flowing glass beads. 2,950,985, 8-30-60, Cl. 117-33.
- Du Val, Herbert, Jr., and R. R. Batcher. Control systems and apparatus. 2,936,406, 5-10-60, Cl. 317-99.
- Du Val, Herbert, Jr., and R. R. Batcher. Control systems and apparatus. 2,963,626, 12-6-60, Cl. 317-99.
- Duval Sulphur & Potash Co.: *See*—  
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- Du Vall, Alvin C.: *See*—  
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- Du Vall, Richard A. Tricycle with tandem seats. 2,948,551, 8-9-60, Cl. 280-202.
- Du Vall, Richard C.: *See*—  
Ottestad, Jack B., Skeen, and Du Vall. 2,932,951.
- Duvall, Thomas E., and H. Ehrensaff. Control knob cluster for a TV receiver or the like. 2,944,429, 7-12-60, Cl. 74-10.8.
- Duvall, Thure C., to Wood Conversion Co. Mixed fiber felt. 2,926,417, 3-1-60, Cl. 28-78.
- Duxbury, Frederick K., and O. B. Edgar, to Imperial Chemical Industries Ltd. Process for preparing cyclic amides from amino esters. 2,956,051, 10-11-60, Cl. 260-239.3.
- Duxbury, Frederick K., and O. B. Edgar, to Imperial Chemical Industries Ltd. Hydrogenation of secondary esters of W-cyano carboxylic acids. 2,956,078, 10-11-60, Cl. 260-482.
- Duxbury, Frederick K., and O. B. Edgar, to Imperial Chemical Industries Ltd. Manufacture of nitriles. 2,964,553, 12-13-60, Cl. 260-465.2.
- Dvoracek, Antonin I. Dynamoelectric machine. 2,939,069, 5-31-60, Cl. 322-57.
- Dvořacek, Břetislav.: *See*—  
Opletal, Robert, and Dvořacek. 2,936,002.
- Dvoracek, Frank, to Burroughs Mfg. Corp. Combination towel and wrap dispenser. 2,943,777, 7-5-60, Cl. 225-38.
- Dvorak, Howard A.: *See*—  
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Clough, Robert C., Dvorak, and Gellatly. 2,924,969.
- Dvorak, John A., to Ferro Corp. Multiple strand conveyor. 2,957,572, 10-25-60, Cl. 198-203.
- Dvorak, Joseph.: *See*—  
Machalek, Ferdinand and L. 2,958,249.
- Dvorak, Lester I., to The Art Metal Co. Lighting fixture. 2,938,112, 5-24-60, Cl. 240-147.
- Dvorak, Lester I., and D. L. Maynard, to The Art Metal Co. Lighting fixture. 2,955,196, 10-4-60, Cl. 240-78.
- Dvorkovitz, Vladimir, N. W. Berst, and G. G. Leist, to The Diversey Corp. Detergent composition. 2,962,448, 11-29-60, Cl. 252-152.
- Dvorsky, Alexander L., to The Astatic Corp. Microphones. 2,931,865, 4-5-60, Cl. 179-110.
- Dwinnell, Dwight J., G. N. Elliott, R. D. Maybury, and F. E. Wright, to Sylvania Electric Products Inc. Lamp basing machinery. 2,923,050, 2-2-60, Cl. 29-25.19.
- Dwork, Bernard M., to Merrimac Research and Development Corp. Coaxial microwave hybrid structures. 2,935,702, 5-3-60, Cl. 333-11.
- Dworschack, Robert G., and L. J. Wickerham, to United States of America, Agriculture. Production of extracellular invertase by certain strains of yeasts. 2,953,500, 9-20-60, Cl. 195-65.
- Dwyer, James.: *See*—  
Smith, Harold V., Dwyer, and Winker. 2,941,750.
- Dwyer, James L., to Sun Oil Co. Process and apparatus for introducing materials into a conversion zone employing a variable height feeding zone. 2,920,035, 1-5-60, Cl. 208-167.
- Dwyer, James L., to Sun Oil Co. High temperature and high pressure diaphragm. 2,920,655, 1-12-60, Cl. 137-793.
- Dwyer, John B., to The M. W. Kellogg Co. Process for the conversion of a normally gaseous hydrocarbon to carbon monoxide and hydrogen. 2,942,958, 6-28-60, Cl. 48-196.
- Dwyer, John B., and C. K. Mader, to The M. W. Kellogg Co. Combination furnace. 2,934,475, 4-26-60, Cl. 196-116.
- Dwyer, Richard M., and W. H. Pleines: 66% to said Dwyer and 33% to said Pleines. Attachment for refrigerating a meat chopper. 2,931,408, 4-5-60, Cl. 146-182.
- Dwyer, Russell A. Self-aligning spherical rod end bearing. 2,923,580, 2-2-60, Cl. 308-72.
- Dyatt, Irving B., to K. D. Clardy. Rotary intermittent movement. 2,962,907, 12-6-60, Cl. 74-84.
- Dybdahl, Frank. Wallboard joint finishing tool. 2,947,017, 8-2-60, Cl. 15-235.8.
- Dyckerhoff & Widmann Kommanditgesellschaft: *See*—  
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- Dyckerhoff Zementwerke Aktiengesellschaft: *See*—  
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- Dyckes, George W.: *See*—  
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- Dye, Harland R. Container handling and dumping apparatus. 2,933,210, 4-19-60, Cl. 214-80.
- Dye, Robert F., to Phillips Petroleum Co. Recovery of olefins from hydrocarbon mixtures. 2,921,053, 1-12-60, Cl. 260-88.2.
- Dyer, Alvah F., and E. E. Reed, to Phillips Petroleum Co. Liquid dispensing apparatus. 2,960,106, 11-15-60, Cl. 137-351.
- Dyer, Arthur M. Shoe cleaning apparatus. 2,946,077, 7-26-60, Cl. 15-238.
- Dyer, Gail M.: *See*—  
Helus, Richard R., and Dyer. 2,954,670.
- Dyer, George A., and H. G. Markey, to North American Aviation, Inc. Thermostatically stabilized system. 2,942,783, 6-28-60, Cl. 236-1.
- Dyer, Henry B.: *See*—  
Custers, Jan F. H., Dyer, and Wedepohl. 2,931,351.
- Dyer, Howard B., to J. J. Kelly. Jack carried mechanism for facilitating removal, repair and replacement of vehicle carried units. 2,938,635, 5-31-60, Cl. 214-1.
- Dyer, John H., J. R. Horsch, and A. E. Small, to Stewart-Warner Corp. Conveyor control systems. 2,923,420, 2-2-60, Cl. 214-11.
- Dyer, John W., and R. L. Sprague, to General Motors Corp. Coincidental door locking apparatus for an automobile. 2,959,238, 11-8-60, Cl. 180-82.
- Dyer, Lloyd W.: *See*—  
Mullen, John H., and Dyer. 2,942,088.
- Dyer, Otto M., Jr. Shoe polishing device. 2,923,955, 2-9-60, Cl. 15-32.
- Dyer, Richard F., to Eastman Kodak Co. Method and apparatus for producing variable denier yarn. 2,920,345, 1-12-60, Cl. 18-8.
- Dyer, Richard F., to Eastman Kodak Co. Jet device for blowing yarn and process. 2,924,868, 2-16-60, Cl. 28-1.
- Dyert, George E. Watchmaker's tool. 2,947,123, 8-2-60, Cl. 51-259.
- Dyert, Justin C., and C. L. Coldren, to Shell Oil Co. Centrifugal separators. 2,941,621, 6-21-60, Cl. 183-92.
- Dyke, Edwin, to Collins Radio Co. Automatically tuned microwave system. 2,934,645, 4-26-60, Cl. 250-40.
- Dykeman, Howard E. to Dravo Corp. Ship unloading apparatus. 2,939,570, 6-7-60, Cl. 198-89.
- Dykens, Walter H. Electric calf weaner. 2,940,425, 6-14-60, Cl. 119-130.
- Dykes, Carrel H., to Northern Electric Co. Electric heating appliance. 2,961,526, 11-22-60, Cl. 219-46.
- Dykman, Milton, to Mixing Equipment Co., Inc. Driving unit. 2,945,711, 7-19-60, Cl. 286-11.15.
- Dykstra, Laurence J., and L. J. Grills, to The Porcelain Insulator Corp. Electric conductor strand separator insulator. 2,921,112, 1-12-60, Cl. 174-43.
- Dykzeul, Theodore J.: *See*—  
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- Rotow, Alexander A., and Dymacek. 2,942,132.
- Dymo Industries, Inc.: *See*—  
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- Dynac Inc.: *See*—  
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- Dynamics Corp. of America: *See*—  
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- De Angelis, Angelo C., and Butterfield. 2,931,926.
- De Angelis, Angelo C., and Butterfield. 2,949,709.
- Dee, Alfred G. 2,924,670.
- Dynex, Inc.: *See*—  
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- Hare, Richard C. 2,951,505.
- Blair, David T. 2,941,475.
- Leissner, William R. 2,945,444.
- Dynia, George. Painting machine. 2,957,448, 10-25-60, Cl. 118-4.
- Dynner, Eugene. Window structures. 2,954,590, 10-4-60, Cl. 20-62.
- Dyrkacz, Wasil W., E. E. Reynolds, R. R. MacFarlane, and R. K. Pitler, to Allegheny Ludlum Steel Corp. High temperature alloy. 2,949,355, 8-16-60, Cl. 75-126.
- Dyson, Ernest F., to The Bristol Co. Pilot valve. 2,964,057, 12-13-60, Cl. 137-620.
- Dyson, John D., to University of Illinois Foundation. Unidirectional broadband antenna comprising modified balanced equiangular spiral. 2,958,081, 10-25-60, Cl. 343-895.
- Dyson, John R., to Chrome Crankshaft Co., Inc. Electroplating anode. 2,940,917, 6-14-60, Cl. 204-212.
- Dzaack, Heinz A., to Kooperativa Forbundet. Weight recording apparatus. 2,932,500, 4-12-60, Cl. 265-5.
- Dzaack, Heinz A., to Kooperativa Forbundet, Ekonomisk Forening. Device for automatically recording information in dependence upon previously entered code. 2,950,462, 8-23-60, Cl. 340-147.
- Dzaack, Heinz A., to Kooperativa Forbundet Ekonomisk Forening. Device for recording and adding measure units, particularly weight units. 2,961,647, 11-22-60, Cl. 340-347.
- Dziemianowicz, Theodore Q.: *See*—  
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- Dzik, Stanley J., 1/2 to L. Geib. Jettisonable attachment for airfoil lift modification. 2,934,289, 4-26-60, Cl. 244-44.
- Dziombak, Edward: *See*—  
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- E.B. Metal Products Co., Inc.: *See*—  
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- ERB-Tobacco Products Co., Inc.: *See*—  
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- Finberg, Joseph. 2,930,720.
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- E.T. Developments Ltd.: *See*—  
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- Schlesinger, Joseph H. 2,959,874.
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- Johnson, Arthur A. 2,948,925.
- Losse, Paul L. 2,950,225.
- Schriner, John E., Masters, and Czacherski. 2,948,633.
- Woodford, Fred W. 2,927,000.
- Eakin, Grady J., to United States of America, Air Force. Solenoid triggering circuit. 2,964,687, 12-13-60, Cl. 317-149.
- Eakin, Kenneth G., to United States of America, Air Force. Pulsed noise source for receiver sensitivity testing. 2,952,015, 9-6-60, Cl. 343-17.1.
- Eames, Charles, D. Albinson, and D. W. Bauer, to Herman Miller, Inc. Chairs. 2,956,618, 10-18-60, Cl. 155-130.
- Eames, James O.: *See*—  
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- Eaton, Wilfred A. 2,934,178.
- Eaton, Wilfred A., and Casler. 2,954,854.
- Sanford, Roy S. 2,925,891.
- Sanford, Roy S., and Eames. 2,930,456.
- Sanford, Roy S., and Eames. 2,945,566.
- Eames, James O., to Ekco Products Co. Rack device. 2,919,881, 1-5-60, Cl. 248-290.
- Eames, James O., to R. S. Sanford, R. H. Casler, J. O. Eames, W. A. Eaton, and E. D. Sedergren. Fluid pressure brake mechanism. 2,942,699, 6-28-60, Cl. 188-264.
- Eannarino, George, to Sarkes Tarzian, Inc. Diode. 2,958,020, 10-25-60, Cl. 317-234.
- Eannarino, George, and G. B. Finn, Jr., to Sarkes Tarzian, Inc. Semiconductor device. 2,930,948, 3-29-60, Cl. 317-234.
- Earhart, Harold W.: *See*—  
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- De Pierri, William G., Jr., and Earhart. 2,964,573.
- De Pierri, William G., Jr., and Earhart. 2,966,523.
- Edwards, William R., and Earhart. 2,951,879.
- Earhart, Harold W., and W. G. De Pierri, Jr., to Esso Research and Engineering Co. Trichloromethylated aromatic. 2,945,894, 7-19-60, Cl. 260-651.
- Earhart, William H., to Radio Corp. of America. Glass bulb fabrication. 2,956,373, 10-18-60, Cl. 49-89.
- Earl, Austin W.: *See*—  
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- Earl, George W., deceased (R. H. Matthias, administrator of said G. W. Earl). Well seal. 2,957,524, 10-25-60, Cl. 166-75.
- Earl, Harry W. Electrical connector. 2,930,023, 3-22-60, Cl. 339-149.
- Earle, Ernest L., Jr.: *See*—  
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- Earle, Francis, Laboratories, Inc.: *See*—  
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- Miller, Harold A., and Greenstein. 2,950,981.
- Earle, Ralph H., to McGraw-Edison Co. Guy wire insulating means. 2,934,595, 4-26-60, Cl. 174-176.
- Earle, Wilton R., and F. Highhouse, to United States of America, Health, Education and Welfare. Method of producing tissue culture flasks. 2,947,116, 8-2-60, Cl. 49-79.
- Earling, Leonard E., to General Motors Corp. Low voltage transistorized signal seeking tuner. 2,942,104, 6-21-60, Cl. 250-20.



- Early, James M., to Bell Telephone Laboratories, Inc. Semiconductor signal translating devices. Re. 24,872, 9-27-60, Cl. 148-1.5.
- Early, Paul F., to Globe Industries, Inc. Resuscitator. 2,930,375, 3-29-60, Cl. 128-29.
- Earnest, John A.,  $\frac{1}{2}$  to Robert P. Sugg. Electrical slip ring assembly for tire wheel. 2,966,650, 12-27-60, Cl. 339-3.
- Earnhardt, Reid, and J. P. Swed, to E. I. du Pont de Nemours and Co. Method for preparing bushings. 2,961,357, 11-22-60, Cl. 148-4.
- Earnheart, V. J. Capping device for butter tubs. 2,919,532, 1-5-60, Cl. 53-310.
- Earp, James F., to Ex-Cell-O Corp. Container blank feeder mechanism. 2,936,681, 5-17-60, Cl. 93-53.
- Earsley, Melvin L.: See—  
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- Easan Electrical (Proprietary) Ltd.: See—  
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- Easley, Charles H.: See—  
Kelso, Robert L., and Easley. 2,963,067.
- Easley, Gilbert J., to Westinghouse Electric Corp. Circuit interrupter. 2,937,320, 5-17-60, Cl. 317-22.
- Easley, Ralph S., to The Cincinnati Milling Machine Co. Rotary fluid-cooled flame head for flame hardening machine. 2,956,793, 10-18-60, Cl. 266-4.
- Easley, Vernon B.: See—  
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- Eason, Clarence M., to Industrial Clutch Corp. Air operated clutch-brake mechanism. 2,942,708, 6-28-60, Cl. 192-18.
- Eason, Winfield S., to The Bon Corp. Fastening device. 2,942,897, 6-28-60, Cl. 287-20.5.
- Eastburg, Clifford L., to The Timken Roller Bearing Co. Packaged bearing assemblies. 2,950,002, 8-23-60, Cl. 206-46.
- Easter, Ross A., to The Pillsbury Co. Container. 2,940,654, 6-14-60, Cl. 229-43.
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- Easterling, James M., to M. I. Glass. Toy. 2,949,696, 8-23-60, Cl. 46-243.
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- Eastes, John W.: See—  
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- Eastes, John W., and R. D. Vartanian, to American Cyanamid Co. Composition containing alkyl silane triol and amino-plast resin and article coated therewith. 2,937,155, 5-17-60, Cl. 260-29.4.
- Eastham, Jerome F.: See—  
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- Eastman, du Bois: See—  
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- Eastman, Du Bois, to Texaco Inc. Method for preparing water resistant grease and hydrophobic finely-divided solids. 2,920,042, 1-5-60, Cl. 252-28.
- Eastman, Du Bois, to Texaco Inc. Apparatus for the gasification of solid fuels. 2,931,715, 4-5-60, Cl. 48-63.
- Eastman, Du Bois, to Texaco Inc. Temperature measurement in reactors operating under high temperature and pressure. 2,963,353, 12-6-60, Cl. 48-196.
- Eastman, du Bois, C. P. Marion, and W. L. Slater, to Texaco Inc. Annulus type burner assembly with face cooling and replaceable inner tip. 2,928,460, 3-15-60, Cl. 158-109.
- Eastman, Du Bois, R. M. Dille, and R. W. Chapman, to Texaco Inc. Process for the recovery of argon in the production of synthesis gas. 2,960,476, 11-15-60, Cl. 252-376.
- Eastman, du Bois, and W. L. Slater, to Texaco Inc. Annulus type burner assembly with replaceable tip. 2,928,459, 3-15-60, Cl. 158-109.
- Eastman, du Bois, W., and W. G. Schlenger, to Texaco Inc. Treatment of hydrocarbons. 2,949,420, 8-16-60, Cl. 208-70.
- Eastman, Harlan J., to Eastman Oil Well Survey Co. Deflecting tool. 2,956,781, 10-18-60, Cl. 255-1.6.
- Eastman, James M., to Bendix Aviation Corp. Fuel feed and power control system for gas turbine engines. 2,924,070, 2-9-60, Cl. 60-39.28.
- Eastman, James M., to Bendix Aviation Corp. Acceleration scheduling and isochronous governing fuel feed and power control device for gas turbine engines. 2,946,188, 7-26-60, Cl. 60-39.28.
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- Eastman Kodak Co.: See—  
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Askren, Lee T. 2,928,265.  
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Barbier, Jean. 2,928,735.  
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Beavers, Dorothy J., Wilson, and Graham. 2,940,855.  
Beavers, Dorothy J., Wilson, and Graham. 2,944,898.  
Bell, Alan, and Tholstrup. 2,921,048.  
Benton, Charles H., Jr., and Anderson. 2,940,900.  
Blackmer, Leroy L., and Morrison. 2,928,327.  
Bornemann, William. 2,933,030.  
Brannock, Kent C. 2,947,786.  
Brannock, Kent C. 2,960,540.  
Brannock, Kent C. 2,964,571.  
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Braund, Richard J. 2,936,615.  
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Brooker, Leslie G. S., and White. 2,955,939.  
Brunson, Marion O., and Gearhart. 2,928,797.  
Bryce, Robert S., and Griggs. 2,925,340.  
Bundschuh, John J., and Elton. 2,936,687.  
Burness, Donald M. 2,964,404.  
Bush, Walter M., and Thirle. 2,920,961.  
Caldwell, John R. 2,921,042.  
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Caldwell, John R. 2,952,667.  
Caldwell, John R. 2,956,884.  
Caldwell, John R., and Dannelly. 2,945,009.  
Caldwell, John R., and Gilkey. 2,939,862.  
Caldwell, John R., and Gilkey. 2,945,007.  
Caldwell, John R., and Gilkey. 2,945,010.  
Caldwell, John R., and Gilkey. 2,945,011.  
Caldwell, John R., and Gilkey. 2,965,616.  
Caldwell, John R., Gilkey, and Meeks. 2,945,008.  
Caldwell, John R., and Jackson. 2,956,977.  
Caldwell, John R., and Jackson. 2,956,987.  
Caldwell, John R., and Tamblin. 2,950,265.  
Caldwell, John R., and Wellman. 2,921,052.  
Caldwell, John R., and Wellman. 2,925,404.  
Carroll, Burt H. 2,944,901.  
Carroll, Burt H. 2,947,631.  
Carroll, Burt H., Elins, Graham, and Wilson. 2,944,900.  
Carroll, Burt H., Jones, and Spence. 2,945,762.  
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Carroll, Burt H., Sagal, and Beavers. 2,944,902.  
Carter, William D., and Shearer. 2,928,818.  
Cary, Donald S. 2,964,636.  
Clavier, Alain C. A., and Pouradier. 2,949,442.  
Conday, Louis M. 2,952,566.  
Connelly, Gordon F., and Di Francesco. 2,960,280.  
Coover, Harry W., Jr. 2,921,044.  
Coover, Harry W., Jr. 2,925,410.  
Coover, Harry W., Jr. 2,933,483.  
Coover, Harry W., Jr. 2,948,712.  
Coover, Harry W., Jr. 2,962,487.  
Coover, Harry W., Jr., and Joyner. 2,956,991.  
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Coover, Harry W., Jr., and McCall. 2,921,087.  
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Coover, Harry W., Jr., and McConnell. 2,952,666.  
Coover, Harry W., Jr., and Shearer. 2,951,066.  
Crawford, Robert T., and Stevens. 2,953,837.  
Crawford, Robert T., and Stevens. 2,953,838.  
Damschroder, Rudolph E., and Cowden. 2,944,899.  
Davis, Norman W., and Kerr. 2,964,297.  
De Paolis, Paul F. 2,933,404.  
Devaney, Richard G., and Tamblin. 2,947,646.  
Dunham, Kenneth R., Van Den Berghe, and Dulmage. 2,958,686.  
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Dyer, Richard F. 2,920,345.  
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Elam, Edward U., and Hasek. 2,960,541.  
Estes, Cameron B. 2,952,180.  
Faw, Wendell G. 2,956,328.  
Feniak, George, Loria, and Reckhow. 2,933,391.  
Ferris, Warren S., and Fisher. 2,952,798.  
Fierke, Scheuring S., and Cressman. 2,947,628.  
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Fisher, Webster E., and Fox. 2,952,152.  
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Fuerst, Carl C. 2,940,374.  
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Galley, Hollis T., and Spielbrink. 2,936,559.  
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Gerhardt, James S., and Fowler. 2,947,650.  
Gray, Glen G. 2,940,854.  
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Guenther, Edgar G., and Smith. 2,947,241.  
Guenther, Edgar G., and Smith. 2,947,242.  
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 Harter, Paul G. 2,920,544.  
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 Harvey, Donald M. 2,964,255.  
 Hasek, Robert H., and Elam. 2,936,324.  
 Hayden, James F., and Offensend. 2,947,218.  
 Heseitine, Donald W., and Brooker. 2,927,026.  
 Hiatt, Gordon D., and Emerson. 2,940,901.  
 Hunt, Clayton E., Jr. 2,932,692.  
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 Jackson, Wallace T. 2,926,392.  
 Johnson, Ray C., and Kreikenbaum. 2,928,672.  
 Jones, Jean E. 2,945,763.  
 Jones, Jean E. 2,947,630.  
 Jones, Jean E. 2,961,318.  
 Jones, Jean E., Spence, and Van Allen. 2,937,089.  
 Judge, Kenneth W. 2,933,033.  
 Julian, Donald B. 2,949,360.  
 Jungjohann, Vernon H. 2,960,004.  
 Kennard, Kenneth C., and Burness. 2,937,090.  
 Kibler, Charles J., Bell, and Smith. 2,956,961.  
 Kibler, Charles J., and Newland. 2,964,497.  
 Kibler, Charles J., and Tamblin. 2,956,896.  
 Kingslake, Rudolf, and Tolle. 2,933,017.  
 Klauss, Ralph E., and Ward. 2,928,303.  
 Klein, William C. 2,928,328.  
 Knott, Edward B. 2,933,388.  
 Knowles, M. B., and Pridden. 2,944,908.  
 Kunz, Charles J. 2,940,584.  
 Laakso, Thomas M., and Fowler. 2,928,736.  
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 Lappin, Gerald R., and McConnell. 2,964,494.  
 Larive, Henri, and Geiger. 2,921,067.  
 Long, Selma H., Tamblin, and Moore. 2,945,000.  
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 Martin, James C., and Caldwell. 2,937,162.  
 Martin, James C., and Hasek. 2,945,060.  
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 Maurer, Richard E. 2,925,339.  
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 McCall, Marvin A., and Coover. 2,957,007.  
 McCall, Marvin A., and Coover. 2,960,529.  
 McCall, Marvin A., Coover, and McConnell. 2,957,019.  
 McCall, Marvin A., and McConnell. 2,921,086.  
 McConnell, Richard L., and Coover. 2,926,145.  
 McConnell, Richard L., and Coover. 2,928,841.  
 McConnell, Richard L., and Coover. 2,952,701.  
 McConnell, Richard L., and Coover. 2,960,528.  
 McConnell, Richard L., and Wicker. 2,945,053.  
 McDaniel, Edgar L., and Young. 2,945,057.  
 McFall, John C., and Crookshank. 2,933,390.  
 McFarlane, John W. 2,960,267.  
 Merrill, Stewart H., Robertson, and Staehle. 2,948,610.  
 Michiels, Marie-Jose S., Thiebaut, and Philpot. 2,956,878.  
 Milton, Kirby M., and Murray. 2,960,404.  
 Minsk, Louis M. 2,945,006.  
 Nadeau, Gale F. 2,952,559.  
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 Newland, Gordon C., and Tamblin. 2,947,721.  
 Newland, Gordon C., and Tamblin. 2,964,495.  
 Newland, Gordon C., and Tamblin. 2,964,496.  
 Newland, Gordon C., Tamblin, and Kibler. 2,925,401.  
 O'Brien, Robert F., and Marvin. 2,936,685.  
 Ort, Carl. 2,940,354.  
 Petranto, Michael A., and Champin. 2,963,952.  
 Pieronek, Valentine R., and Fritzsche. 2,956,726.  
 Reynolds, Delbert D., and Williams. 2,956,984.  
 Robeson, Charles D. 2,932,674.  
 Roman, Robert J., and Moriarty. 2,964,683.  
 Sagura, John J., and Van Allan. 2,940,853.  
 Salo, Martin, and Clarke. 2,956,895.  
 Schade, Willy. 2,936,675.  
 Schwan, Judith A., and Spath. 2,950,970.  
 Shearer, Newton H., Jr., and Coover. 2,925,409.  
 Smith, Donald A. 2,940,956.  
 Smith, James L., and Harrington. 2,957,014.  
 Smith, Robert B. 2,928,135.  
 Spath, Catherine M. 2,956,876.  
 Staudt, Erwin. 2,956,490.  
 Steisslinger, Kurt. 2,928,323.  
 Stern, Max H. 2,945,069.  
 Stevens, Joel B. 2,964,440.  
 Stewart, Paul H., and Karlson. 2,947,629.  
 Straley, James M., and Giles. 2,937,190.  
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 Strickland, Thomas H., and Bell. 2,928,879.  
 Talbot, Ralph H., and Priest. 2,964,405.  
 Tamblin, John W., and McConnell. 2,960,488.  
 Tholstrup, Clarence E., and Bell. 2,925,400.  
 Thompson, John W. 2,925,333.  
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 Touey, George P. 2,928,399.  
 Touey, George P. 2,928,400.  
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 Touey, George P., and Davis. 2,931,802.  
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 Weissberger, Arnold. 2,945,761.  
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 White, James C. 2,948,282.  
 Whitmore, Keith E., and Williams. 2,940,849.  
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 Easton, Rufus, to Koppers Co., Inc. Method and apparatus for the continuous casting of molten metal. 2,948,030, 8-9-60, Cl. 22-57.2.  
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 East Rutherford Syringes, Inc.: See—  
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 Hutt, Percy H. 2,926,839.  
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 Eattinger, Cloyde B. Latch mechanism. 2,948,561, 8-9-60, Cl. 292-280.  
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 Eaton, David C., and L. F. Arata, to Thiokol Chemical Corp. Laminated fluid-jacketed thrust chamber structure. 2,926,490, 3-1-60, Cl. 60-35.6.  
 Eaton, Fred L., deceased; L. E. Eaton, administrator. Tension retaining binder. 2,946,563, 7-26-60, Cl. 254-164.  
 Eaton, Frederic I., to United States of America, Navy. Breakaway electrical connector. 2,933,711, 4-19-60, Cl. 339-90.  
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 Line, Gerald D. 2,943,613.  
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 Russell, Robert C. 2,932,218.  
 Russell, Robert C. 2,933,951.  
 Russell, Robert C. 2,934,186.  
 Russell, Robert C. 2,944,402.  
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 Schlegel, Fred. 2,931,255.  
 Simons, Homer C. 2,919,907.  
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- Eaton, Robert L. Laundry deposit apparatus. 2,934,261, 4-26-60, Cl. 232-44.
- Eaton Stamping Co.: *See*—  
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- Eaton, Wilfred A., to R. S. Sanford, W. A. Eaton, E. D. Sedergren, R. H. Casler, and J. O. Eames. Liquid cooled brake mechanism. 2,934,178, 4-26-60, Cl. 188-264.
- Eaton, Wilfred A., and R. H. Casler, to R. S. Sanford, W. A. Eaton, E. D. Sedergren, R. H. Casler, and J. O. Eames. Brake control mechanism. 2,954,854, 10-4-60, Cl. 188-264.
- Eaton, William J., and F. C. Minch, to United States of America, Air Force. Auxiliary undercarriage. 2,925,969, 2-23-60, Cl. 244-103.
- Eaton, William M., and G. A. Sporn, to Cash Control Cover Corp. Portable protective apparatus for cash registers and the like. 2,943,901, 7-5-60, Cl. 312-229.
- Eaves, Robert B.: *See*—  
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- Eaves, William C. Splash guard. 2,940,773, 6-14-60, Cl. 280-154.5.
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- Ebb, Raymond F. Jump rope. 2,919,919, 1-5-60, Cl. 272-75.
- Ebbert, Robert. Means for orientating stacked discs. 2,933,204, 4-19-60, Cl. 214-1.
- Ebbinge, Willem, to North American Philips Co., Inc. Detector system. 2,956,159, 10-11-60, Cl. 250-31.
- Ebel, Adolf G., to The Oak Rubber Co. Hollow rubber figures. 2,952,094, 9-13-60, Cl. 46-87.
- Ebel, Friedrich, and H. Weidinger, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Unitary diazine and triazine dyestuffs having two different anthraquinone substituents on the azine ring. 2,951,842, 9-6-60, Cl. 260-249.
- Ebenbach, Robert, to The Budd Co. Light weight motor driven railway car truck. 2,955,547, 10-11-60, Cl. 105-139.
- Ebenstein, Ruth B. Multiple purpose hat body. 2,948,900, 8-16-60, Cl. 2-209.1.
- Eberhard, John F.: *See*—  
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- Eberhard, John F., to The Dow Chemical Co. Corrosion inhibition. 2,963,439, 12-6-60, Cl. 252-151.
- Eberhardt, Herman W., to Curtiss-Wright Corp. Hole chamfering tool. 2,944,447, 7-12-60, Cl. 77-73.5.
- Eberhardt, James E.: *See*—  
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- Eberhardt, James E., to ACF Industries, Inc. Carburetor nozzle. 2,957,683, 10-25-60, Cl. 261-41.
- Eberhardt, Lee B., to The Bauer Bros. Co. Method of producing wood pulp. 2,947,655, 8-2-60, Cl. 162-26.
- Eberhart, Arthur H., to Westinghouse Electric Corp. Condensate disposal means for air conditioning apparatus. 2,941,381, 6-21-60, Cl. 62-279.
- Eberich, Gunther: *See*—  
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- Eberl, James J.: *See*—  
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- Eberl, James J., A. A. Stonehill, and J. N. Masci, to Johnson & Johnson. Sterilization of gums. 2,928,717, 3-15-60, Cl. 21-58.
- Eberl, Walter: *See*—  
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- Eberline Instrument Division of Reynolds Electrical and Engineering Co., Inc.: *See*—  
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- Eberline, William C., to Walbro Corp. Carburetor construction. 2,935,977, 5-10-60, Cl. 123-119.
- Eberline, William C., to Walbro Corp. Carburetor structure. 2,951,690, 9-6-60, Cl. 261-71.
- Eberly, Harry C.: *See*—  
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- Eberly, Harry C., to Sperry Rand Corp. Wire tie mechanism. 2,953,082, 9-20-60, Cl. 100-21.
- Eberly, John H.: *See*—  
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- Eberly, Kenneth C., to The Firestone Tire & Rubber Co. Preparation of alkylene dilithium compounds. 2,947,793, 8-2-60, Cl. 260-665.
- Ebersold, Robert C.: *See*—  
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- Ebersole, George B.: *See*—  
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- Ebersole, Mabel G.: *See*—  
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- Ebert, Carl. Universal saw grinder. 2,959,989, 11-15-60, Cl. 76-77.
- Ebert, Hans: *See*—  
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- Ebert, Heinrich. Hydrostatic transmission. 2,931,250, 4-5-60, Cl. 74-687.
- Ebert, James F., to Haloid Xerox Inc. Xerographic charging device and method. 2,932,742, 4-12-60, Cl. 250-49.5.
- Ebert, Max E.: *See*—  
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- Ebert, Max E., and C. F. Selzer, to Inventors Clinic. Inking attachment for typewriting machines. 2,949,176, 8-16-60, Cl. 197-150.
- Ebneth, Harold, and H. Falk, 1/2 to Farbenfabriken Bayer Aktiengesellschaft and 1/2 to Mobay Chemical Co. Process for manufacturing foamed polyurethane articles. 2,948,928, 8-16-60, Cl. 18-48.
- Ebnother, Anton: *See*—  
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Jucker, Ernst, Ebnother, Rissi, Vogel, and Steiner. 2,955,112.
- Eburn, William H., Jr., to Polaroid Corp. Photographic apparatus with sheet-arresting mechanism. 2,935,004, 5-3-60, Cl. 95-13.
- Eburn, William H., Jr., to Polaroid Corp. Erecting mechanism for photographic apparatus. 2,941,460, 6-21-60, Cl. 95-40.
- Eby, Lawrence T.: *See*—  
Minckler, Leon S., Jr., Cottle, and Eby. 2,941,975.  
Seelbach, Charles W., and Eby. 2,964,510.
- Eby, Lawrence T., C. W. Seelbach, D. L. Cottle, and R. M. Thomas, to Esso Research and Engineering Co. Catalysts for polymerization of olefins. 2,943,063, 6-28-60, Cl. 252-429.
- Eby, Lawrence T., and R. M. Thomas, to Esso Research and Engineering Co. Heat reacting butyl rubber, halogenated butyl rubber and zinc oxide, and composition obtained thereby. 2,948,700, 8-9-60, Cl. 260-41.5.
- Eby, Lawrence T., D. L. Cottle, and T. Lemiszka, to Esso Research and Engineering Co. Producing halogenated rubber copolymers utilizing the alkaline earth metal salt of a fatty acid as a stabilizer. 2,958,667, 11-1-60, Cl. 260-23.7.
- Ecal, Francois. Pneumatic device for the transport and scattering of powdered products. 2,955,877, 10-11-60, Cl. 302-20.
- Eccles, Edwin J., and R. J. O'Neill, to Monsanto Chemical Co. Surface active alkyl benzene sulfonate composition and method of preparation. 2,926,142, 2-23-60, Cl. 252-161.
- Eccles, George O., and N. H. Kent, to Rolls-Royce Ltd. Manufacture of turbine blades. 2,947,076, 8-2-60, Cl. 29-424.
- Eccles, Marion A.: *See*—  
O'Connor, George L., Peck, and Eccles. 2,929,855.
- Ecclestone, Awrey. Pocket book cover. 2,935,337, 5-3-60, Cl. 281-34.
- Eck, Bruno, to Paul Pollrich & Comp. Fans. 2,942,773, 6-28-60, Cl. 230-125.
- Eck, Bruno C. Axial blower with cone-shaped hub. 2,936,948, 5-17-60, Cl. 230-120.
- Eck, John C., and W. C. Kraemer, to Allied Chemical Corp. Process for chlorinating oxidized polyethylene waxes and resinous oxidized chlorinated product. 2,964,517, 12-13-60, Cl. 260-94.9.
- Eckard, Lewis D.: *See*—  
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- Eckberg, Edwin E. Molecular vacuum pump. 2,954,157, 9-27-60, Cl. 230-118.
- Eckdahl, Donald E.: *See*—  
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Dobbins, Willis E., Williams, Sarkissian, Eckdahl, Steele, and Wolf. 2,921,740.
- Eckdahl, Donald E., J. F. Donan, A. E. Wolfe, Jr., R. E. Sprague, H. H. Sarkissian, C. L. Isborn, and B. T. Wilson, to The National Cash Register Co. Digital differential analyzer. 2,924,381, 2-9-60, Cl. 235-152.
- Eckdahl, Donald E., R. E. Sprague, W. E. Dobbins, B. T. Wilson, and H. H. Sarkissian, to The National Cash Register Co. General purpose computer. 2,954,166, 9-27-60, Cl. 235-159.
- Ecke, George G., to Ethyl Corp. Method of preparing manganese carbonyl. 2,963,346, 12-6-60, Cl. 23-203.
- Ecke, George G., and A. J. Kolka, to Ethyl Corp. Jet fuel compositions. 2,932,942, 4-19-60, Cl. 60-35.4.



- Eckel, Carl C.: *See*—  
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- Eckel, John E.: *See*—  
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- Eckel, John E., and J. M. Kellner, to Jersey Production Research Co. Formation testing. 2,935,133, 5-3-60, Cl. 166-188.
- Ecker, Howard W., R. Marchant, and R. J. Wagner. Voltmeter. 2,927,269, 3-1-60, Cl. 324-72.
- Eckerle, Frank A., to Northern Industrial Products Co. Cartridge structure with trap compartment. 2,957,453, 10-25-60, Cl. 120-42.4.
- Eckersley, John S.: *See*—  
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- Eckert, Bruno, and H. Kuhl, to Daimler-Benz Aktiengesellschaft. Turbo compressor. 2,938,662, 5-31-60, Cl. 230-134.
- Eckert, Bruno, and H. Kuhl, to Daimler-Benz Aktiengesellschaft. Cooling arrangement for a combustion turbine. 2,940,257, 6-14-60, Cl. 60-39.66.
- Eckert, Bruno J., and H. Kuhl, to Daimler-Benz Aktiengesellschaft. Turbine operable by the exhaust gases of an internal combustion engine. 2,932,156, 4-12-60, Cl. 60-13.
- Eckert, Charles F., to United States Rubber Co. Method of making expanded polyurethane polymer. 2,927,905, 3-8-60, Cl. 260-2.5.
- Eckert, Herbert L.: *See*—  
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- Eckert, John P., Jr.: *See*—  
Bonn, Theodore H., and Eckert. 2,937,286.  
Bonn, Theodore H., and Eckert. 2,966,597.
- Eckert, John P., Jr., to Sperry Rand Corp. Magnetic counter circuits. 2,944,161, 7-5-60, Cl. 307-88.
- Eckert, John P., Jr., to Sperry Rand Corp. Parallel binary adder unit. 2,949,230, 8-16-60, Cl. 235-175.
- Eckert, John P., Jr., to Sperry Rand Corp. Switching devices. 2,959,687, 11-8-60, Cl. 307-88.5.
- Eckert, John P., Jr., to Sperry Rand Corp. Shifting register employing magnetic amplifiers. 2,959,770, 11-8-60, Cl. 340-174.
- Eckert, John P., Jr., and R. W. Spencer, to Sperry Rand Corp. Voltage regulators. 2,921,193, 1-12-60, Cl. 250-27.
- Eckert, John P., Jr., and M. Jacoby, to Sperry Rand Corp. Code generator. 2,937,193, 5-24-60, Cl. 340-168.
- Eckert, John P., Jr., and D. M. Lipkin, to Sperry Rand Corp. Coincident signal device. 2,942,239, 6-21-60, Cl. 340-174.
- Eckert, John P., Jr., and W. F. Steagall, to Sperry Rand Corp. Amplifier devices. 2,953,692, 9-20-60, Cl. 307-88.5.
- Eckert, Louis F., Jr.: *See*—  
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- Eckert, Louis F., Jr., to ACF Industries, Inc. Automatic lubricated sliding plug valve. 2,923,310, 2-2-60, Cl. 137-246.13.
- Eckert, Louis F., Jr., to ACF Industries Inc. Stem assembly for valves. 2,964,969, 12-20-60, Cl. 74-509.
- Eckert, Norman C.: *See*—  
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- Eckert, Oskar, to Steatit-Magnesia Aktiengesellschaft. Ferrite with constricted magnetic hysteresis loop. 2,929,787, 3-22-60, Cl. 252-62.5.
- Eckert, Raymond H.: *See*—  
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- Eckert, Robert L., and D. A. Reed, Jr., to North American Aviation, Inc. Remotely operable fluid nozzle. 2,959,024, 11-8-60, Cl. 62-55.
- Eckert, Wallace J.: *See*—  
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- Eckert, Wilhelm, F. Meininger, and G. Pfeiffer, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for reducing vat dyestuffs of the anthraquinone series to their leuco form. 2,958,696, 11-1-60, Cl. 260-316.
- Eckert, Wilhelm, O. Fuchs, and W. Happe, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Dyestuffs of the naphthylene-arylimidazolperidicarboxylic acid series. 2,965,644, 12-20-60, Cl. 260-282.
- Eckhardt, Homer D., to Minneapolis-Honeywell Regulator Co. Automatic pilot for aircraft. 2,955,783, 10-11-60, Cl. 244-77.
- Eckhardt, Paul K., and A. P. Jackel, to Westinghouse Air Brake Co. Remote control systems. 2,942,238, 6-21-60, Cl. 340-163.
- Eckhorn, Karl H.: *See*—  
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- Eckman, Alfred M.: *See*—  
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- Eckman, George E., to American Can Co. Container and process for sealing the same. 2,923,453, 2-2-60, Cl. 229-43.
- Eckman, Richard E.: *See*—  
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- Eckman, Richard E., to Reed Roller Bit Co. Automatic supply and shut off of motive fluid for torque tool. 2,964,151, 12-13-60, Cl. 192-34.
- Eckmann, Hans. Corset and method of making the same. 2,952,261, 9-13-60, Cl. 128-548.
- Eckmann, Joseph O., to Precision Metal Workers. Chair back structure and a mounting usable therein. 2,926,725, 3-1-60, Cl. 155-178.
- Eckold, Walter. Machines for forming and pressing sheet metal and profiles. 2,924,131, 2-9-60, Cl. 78-36.
- Eckstein, Morris. Scoring tool. 2,948,960, 8-16-60, Cl. 30-162.
- Eckweiler, Howard J.: *See*—  
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- Eckweiler, Howard J., Jr., P. D. Hansell, J. B. O'Maley, J. W. Barnes, H. W. Dickerson, to Kollsman Instrument Corp. Photo-electronic triggering device. 2,955,209, 10-4-60, Cl. 250-221.
- Eclipse Counterbore Co.: *See*—  
Babbitt, Seth M. 2,923,053.
- Eclipse Fuel Engineering Co.: *See*—  
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- Eco Engineering Co., a division of Economy Faucet Co.: *See*—  
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- Economic Products Co.: *See*—  
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- Economics Laboratory, Inc.: *See*—  
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- Economy Baler Co.: *See*—  
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- Economy Forms Corp.: *See*—  
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- Eddowes, Cecil S., to Guardian S.A. Flush mechanism for toilets. 2,949,614, 8-23-60, Cl. 4-57.
- Eddy, Edwin A., to Republic Aviation Corp. High strength casing. 2,964,209, 12-13-60, Cl. 220-3.
- Eddy, George G. Modified hull form. 2,960,957, 11-22-60, Cl. 114-56.
- Eddy, William R., and N. R. Byers, to Phillips Petroleum Co. Valve having improved flushing means. 2,930,395, 3-29-60, Cl. 137-240.
- Edeleann Gesellschaft m.b.H.: *See*—  
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- Edelen, James L., to ACF Industries, Inc. Disposable vented fuel filter. 2,942,732, 6-28-60, Cl. 210-436.
- Edelhauser, Helmut: *See*—  
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- Edelman, Abraham, and G. E. Koslow, to Celanese Corp. of America. Traverse mechanism. 2,964,260, 12-13-60, Cl. 242-158.
- Edelman, Leonard E., R. H. Runk, and W. J. Adamik, to Westinghouse Electric Corp. Treated glass cloth insulation making. 2,956,613, 10-18-60, Cl. 154-2.6.
- Edelman, Philip E., to Bendix Aviation Corp. Transistor-driven power supply. 2,941,159, 6-14-60, Cl. 331-113.
- Edelmann, Leo. Thermohydrometer. 2,958,224, 11-1-60, Cl. 73-442.
- Edelstein, Albert L.: *See*—  
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Mahon, Thomas J., Edelstein, and Glickstein. 2,954,678.
- Edelstein, Albert L., to Synco-Mist Controls, Inc. Valve actuating assembly for metered spray atomizing devices. 2,928,573, 3-15-60, Cl. 222-70.
- Edema, Sjoerd, to North American Philips Co., Inc. Record player transmission. 2,951,886, 9-6-60, Cl. 74-200.
- Edema, Sjoerd, to North American Philips Co., Inc. Record player. 2,959,419, 11-8-60, Cl. 274-15.
- Eden, Carsten, to Jenaer Glaswerk Schott & Gen. Method and apparatus for melting glass. 2,926,208, 2-23-60, Cl. 13-6.
- Eden, Carsten, to Jenaer Glaswerk Schott & Gen. Method and apparatus for refining glass. 2,928,887, 3-15-60, Cl. 13-6.
- Eden, Jamal S., to Diamond Alkali Co. Method of destroying fungi employing alkoxybenzyl alkanol amines. 2,927,053, 3-1-60, Cl. 167-30.
- Eden, Jamal S., to Diamond Alkali Co. Chemical composition and process. 2,936,323, 5-10-60, Cl. 260-558.
- Eden, Jamal S., to Diamond Alkali Co. Method of controlling the growth of microorganisms which comprises applying 2,2,6-trimethyl-tetrahydro-1,3-oxazine. 2,960,433, 11-15-60, Cl. 167-33.
- Eden, Jamal S., to Diamond Alkali Co. Pesticide. 2,961,372, 11-22-60, Cl. 167-30.
- Edens, George E., to Tektronix, Inc. Sweep voltage generator. 2,924,712, 2-9-60, Cl. 250-27.
- Edens, Walter W., W. A. Schumbacker, and R. A. Wilson, to Allis-Chalmers Mfg. Co. Welding method. 2,933,593, 4-19-60, Cl. 219-137.
- Eder Engineering Co., Inc.: *See*—  
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- Eder, Harvey P., L. V. Barrett, C. C. Monk, and R. P. Oberlin, to Eder Engineering Co., Inc. Electric weighing and balancing system. 2,940,747, 6-14-60, Cl. 265-70.
- Eder, Theodor. Process and plant for separating granular material into at least two classes. 2,960,227, 11-15-60, Cl. 209-162.
- Ederer Engineering Co.: *See*—  
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- Ederer, Norbert, to Curtiss-Wright Corp. Apparatus for analyzing weight composition of materials. 2,948,850, 8-9-60, Cl. 324-61.



- Edgar, Hugh C.: *See*—  
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- Edgar, John A., R. F. Bergstrom, and R. C. Jones, to Shell Oil Co. Detergent and wear inhibiting mineral lubricating oil compositions. 2,958,660, 11-1-60, Cl. 252-33.4.
- Edgar, John A., R. F. Bergstrom, and R. C. Jones, to Shell Oil Co. Detergent and wear inhibiting mineral oil compositions. 2,958,662, 11-1-60, Cl. 252-40.7.
- Edgar, Owen B.: *See*—  
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- Edgar, Robert F.: *See*—  
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- Edgar, Victor R.: *See*—  
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- Edgar, William L., to H. H. Robertson Co. Cellular steel floor. 2,950,788, 8-30-60, Cl. 189-34.
- Edgar, William L., to H. H. Robertson Co. Cellular steel floor. 2,957,555, 10-25-60, Cl. 189-34.
- Edgerton, Frank R., to General Dynamics Corp. Bare wire bank assembly. 2,935,655, 5-3-60, Cl. 317-112.
- Edge, Dexter, Jr.: *See*—  
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- Edge, James: *See*—  
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- Edgecombe, David A., to The Babcock & Wilcox Co. Displaceable guiding mechanism for extrusion mandrel. 2,932,390, 4-12-60, Cl. 207-19.
- Edgecombe, David A., to The Babcock & Wilcox Co. Extrusion of metal billets. 2,946,437, 7-26-60, Cl. 207-10.
- Edgemond, John W., Jr.: *See*—  
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- Edgemond, John W., Jr., and H. Goldschmidt, to Yuba Consolidated Industries, Inc. Rip fence for saw table. 2,919,729, 1-5-60, Cl. 143-174.
- Edgemond, John W., Jr., and H. Goldschmidt, to Yuba Consolidated Industries, Inc. Combination wood-working machine. 2,927,612, 3-8-60, Cl. 144-1.
- Edgemond, John W., Jr., and J. J. O'Connor, to Yuba Consolidated Industries, Inc. Tilting arbor table saw with coaxial control of elevation and tilt. 2,943,516, 7-19-60, Cl. 143-36.
- Edgemond, John W., Jr., and H. Goldschmidt, to Yuba Consolidated Industries, Inc. Apparatus for raising and lowering a saw table or tool rest. 2,945,518, 7-19-60, Cl. 143-132.
- Edgemond, John W., Jr., and H. Goldschmidt, to Yuba Consolidated Industries, Inc. Saw arbor. 2,945,519, 7-19-60, Cl. 143-155.
- Edgerly, Clement B., to Newcomb Electronics Corp. Circuit monitor. 2,960,657, 11-15-60, Cl. 328-200.
- Edgerton, Charles W., Jr., to Wayne Iron Works. Push-pull actuator. 2,946,556, 7-26-60, Cl. 254-1.
- Edgerton, Germeshausen & Grier, Inc.: *See*—  
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Edgerton, Harold E. 2,939,984.  
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- Edgerton, Harold E.: *See*—  
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- Edgerton, Harold E., to Edgerton, Germeshausen & Grier, Inc. Flash device and method. 2,939,984, 6-7-60, Cl. 313-184.
- Edgerton, Harold E., to Edgerton, Germeshausen & Grier, Inc. Flash-photography apparatus and method. 2,960,380, 11-15-60, Cl. 346-107.
- Edgerton, William H., to Smith Kline & French Laboratories. Substituted 2-phenothiazinyl trifluoromethyl ketones. 2,944,053, 7-5-60, Cl. 260-243.
- Edgewater Steel Co.: *See*—  
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- Edgley, William C., to General Motors Corp. Control mechanism. 2,926,762, 3-1-60, Cl. 192-4.
- Edholm, Rolf G., to General Electric Co. Penetrating ray emission coding. 2,957,079, 10-18-60, Cl. 250-53.
- Edis, John N., to The Forgrove Machinery Co., Ltd. Apparatus for handling biscuits and the like. 2,961,086, 11-22-60, Cl. 198-32.
- Edkins, Denis P., to Chance Vought Aircraft, Inc. Variable contour airfoil. 2,932,470, 4-12-60, Cl. 244-44.
- Edlen, George, and L. G. Dumire, to Phelps Dodge Copper Products Corp. Crimping tool. 2,952,175, 9-13-60, Cl. 81-15.
- Edlen, George G., and D. W. Phipps, to Phelps Dodge Copper Products Corp. Solderless coaxial cable fitting. 2,941,028, 6-14-60, Cl. 174-75.
- Edler, Hans, to Siemens-Schuckertwerke Aktiengesellschaft. Bearing assembly. 2,965,418, 12-20-60, Cl. 308-15.
- Edlin, Jules: *See*—  
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- Edlinger, Anton, to Aktiengesellschaft Brown, Boveri & Cie. Plural-layer winding with cooling slits. 2,949,590, 8-16-60, Cl. 336-60.
- Edman, John H., to Deere & Co. Adjustable locking lift link. 2,920,500, 1-12-60, Cl. 74-491.
- Edman, John H., C. H. Artus, and J. G. Johnson, to Deere & Co. Hitch device. 2,935,147, 5-3-60, Cl. 172-450.
- Edminster, Robert E., to International Business Machines Corp. Load detector. 2,936,172, 5-10-60, Cl. 271-47.
- Edmonds, Eugene A., to Henry Vogt Machine Co. Liquid distributing device. 2,949,935, 8-23-60, Cl. 138-38.
- Edmonds, Harvey A., C. E. Evanson, and W. S. Gilbert, to Structural Clay Products Research Foundation. Unit stacking apparatus. 2,933,207, 4-19-60, Cl. 214-6.
- Edmonds, James T., Jr., to Phillips Petroleum Co. Process and catalyst for production of olefin polymers. 2,930,785, 3-29-60, Cl. 260-94.9.
- Edmonds, James T., Jr., to Phillips Petroleum Co. Polymerization of olefins in halogen-containing diluent. 2,944,049, 7-5-60, Cl. 260-94.9.
- Edmonds, James T., Jr., G. Nowlin, and H. D. Lyons, to Phillips Petroleum Co. Process and catalyst for production of olefin polymers. 2,962,490, 11-29-60, Cl. 260-94.9.
- Edmonds, Kinzy M. Clamp. 2,947,275, 8-2-60, Cl. 113-99.
- Edmonds, Robert C., and A. Keyworth, to Foundry Services Ltd., and John Knowles & Co. Manufacture of metal ingots and castings. 2,925,637, 2-23-60, Cl. 22-147.
- Edmondson, Charles S. B., Jr. Support with adjustable form-fitting compartmentation. 2,945,732, 7-19-60, Cl. 312-140.3.
- Edmonston, William H. Yard carriage. 2,962,292, 11-29-60, Cl. 280-33.99.
- Edmund, Everett W.: *See*—  
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- Edmunds, Ernest R., to R. G. Wright Co., Inc. Brush mechanism. 2,956,297, 10-18-60, Cl. 15-72.
- Edmunds, William H., to I-T-E Circuit Breaker Co. Spring mounting of current limiting devices within a housing. 2,922,007, 1-19-60, Cl. 200-116.
- Edmunds, William H., to I-T-E Circuit Breaker Co. Fusible switch comprising a circuit breaker and current limiting fuse. 2,924,686, 2-9-60, Cl. 200-114.
- Edmunds, William H., to I-T-E Circuit Breaker Co. End mounting of a current limiting device associated with a circuit breaker. 2,924,688, 2-9-60, Cl. 200-116.
- Edmunds, William H., to I-T-E Circuit Breaker Co. Interlock defeater for trip unit. 2,924,689, 2-9-60, Cl. 200-116.
- Edmunds, William H., to I-T-E Circuit Breaker Co. Coordinated circuit breaker and current limiting device. 2,928,997, 3-15-60, Cl. 317-37.
- Edmunds, William H., to I-T-E Circuit Breaker Co. Reposition terminals for circuit breaker base extension. 2,949,516, 8-16-60, Cl. 200-114.
- Ednalite Optical Co., Inc.: *See*—  
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Bechtold, Edwin W., Kapilow, and Weinstein. 2,945-419.
- Edo Corp.: *See*—  
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- Edrich, Joseph G., to United States of America, Navy. Target device. 2,926,015, 2-23-60, Cl. 273-102.2.
- Edridge, Frederick T. Device for the suspension of tobacco leaves and analogous purposes. 2,943,408, 8-9-60, Cl. 211-124.
- Edsall, Bruce M., to General Motors Corp. Parallel torque path transmission. 2,924,992, 2-16-60, Cl. 74-688.
- Edsall, Bruce M., to General Motors Corp. Torque converters combined with planetary gearing. 2,956,448, 10-18-60, Cl. 74-677.
- Edsall, Bruce M., and J. B. Richardson, to General Motors Corp. Controls for torque converter movable blades. 2,932,940, 4-19-60, Cl. 60-12.
- Edsall, William S., to The Chase-Shawmut Co. Protective systems including circuit interrupters and current-limiting fuses. 2,920,164, 1-5-60, Cl. 200-114.
- Edsall, William S., to The Chase-Shawmut Co. Motor starters. 2,965,809, 12-20-60, Cl. 317-46.
- Edson, James O., to Bell Telephone Laboratories, Inc. Negative impedance repeater. 2,927,967, 3-8-60, Cl. 179-15.
- Edson, James O., to Bell Telephone Laboratories, Inc. Frequency band compression. 2,957,948, 10-25-60, Cl. 179-15.55.
- Edson, Robert A. Skid structure for supporting materials. 2,942,827, 6-28-60, Cl. 248-120.
- Edstrand, Elmer W., and K. A. Lang, to Lindberg Engineering Co. Metal melting furnace. 2,939,899, 6-7-60, Cl. 13-33.
- Educational Products, Inc.: *See*—  
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- Edward Valves, Inc.: *See*—  
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- Edwards, Bryant, to Illinois Tool Works. Grease fitting. 2,922,435, 1-26-60, Cl. 137-521.
- Edwards, Bryant, to Illinois Tool Works. Closure device. 2,949,204, 8-16-60, Cl. 215-41.
- Edwards, Carleton C., to General Electric Co. Electrical capacitor and terminal arrangement therefor. 2,958,023, 10-25-60, Cl. 317-261.
- Edwards, Charles F., to Bell Telephone Laboratories, Inc. Wave guide joint. 2,962,677, 11-29-60, Cl. 333-27.
- Edwards, Charles F.,  $\frac{3}{4}$  to D. and H. Tann, and S. P. Davis. Fabric laundering machine. 2,963,892, 12-13-60, Cl. 68-140.
- Edwards, Charles L., Jr., and J. R. Satterthwaite. Supplemental heating unit. 2,955,590, 10-11-60, Cl. 126-85.



- Edwards, Clyde H., Jr.: *See*—  
Whitsel, Travis S., Jr., and Edwards. 2,921,334.
- Edwards Co. Inc.: *See*—  
Mande, Irving, and Cordes. 2,962,691.
- Edwards, Cyril J., Jr. Cotton picker. 2,961,819, 11-29-60, Cl. 56-30.
- Edwards, David B. G.: *See*—  
Kilburn, Tom, Edwards, and Thomas. 2,940,670.
- Edwards, David V.: *See*—  
Mitchell, Sidney, and Edwards. 2,959,278.
- Edwards Engineering Corp.: *See*—  
Graf, Edwin E. 2,960,141.
- Edwards, Francis E., Jr., to Chicago Aerial Industries, Inc. Stabilized angular rate mount. 2,961,877, 11-29-60, Cl. 74-5.22.
- Edwards, George A.: *See*—  
Zeigler, Philip B., and Edwards. 2,956,586.
- Edwards, George Z., and G. A. Langford. Quick-coupling welding helmet and headgear combination. 2,926,357, 3-1-60, Cl. 2-8.
- Edwards, George Z., and G. A. Langford. Length adjustment mechanism. 2,926,406, 3-1-60, Cl. 24-68.
- Edwards, George Z., and G. A. Langford. Quick coupling for molded face-protective shield and headgear. 2,963,709, 12-13-60, Cl. 2-8.
- Edwards, Harold L., to Phillips Petroleum Co. Apparatus for mounting and bonding a rocket within a case. 2,942,645, 6-28-60, Cl. 154-1.
- Edwards, Harold L., to Phillips Petroleum Co. Shut-down device. 2,953,659, 9-20-60, Cl. 200-83.
- Edwards, Herbert C., to The Timken Roller Bearing Co. Method of forming spline separations in tapered bores. 2,920,386, 1-12-60, Cl. 29-558.
- Edwards High Vacuum Ltd.: *See*—  
Power, Basil D. 2,934,257.  
Power, Basil D. 2,934,258.
- Edwards, James D., to Borg-Warner Corp. Vertical gas broiler. 2,931,352, 4-5-60, Cl. 126-41.
- Edwards, James W., to Monsanto Chemical Co. Method of producing phosphates. 2,920,939, 1-12-60, Cl. 23-106.
- Edwards, James W., to Monsanto Chemical Co. Process for producing potassium acid pyrophosphate. 2,943,915, 7-5-60, Cl. 23-106.
- Edwards, James W., to Monsanto Chemical Co. Method for producing condensed phosphate salts. 2,962,354, 11-29-60, Cl. 23-106.
- Edwards, John D. Apparatus for mounting purlins on a roof under structure. 2,965,408, 12-20-60, Cl. 294-81.
- Edwards, John K. Radio and television chassis stand. 2,946,584, 7-26-60, Cl. 269-156.
- Edwards, John M.: *See*—  
Baker, Robert M., and Edwards. 2,942,089.
- Edwards, Lawrence J., to Callery Chemical Co. Production of volatile boranes. 2,961,299, 11-22-60, Cl. 23-204.
- Edwards, Lawrence J., and W. V. Hough, to Callery Chemical Co. Preparation of alkali metal triborohydrides. 2,955,911, 10-11-60, Cl. 23-14.
- Edwards, Lois: *See*—  
Galuska, Charles W. 2,955,428.
- Edwards, Lon E. Audio amplifier. 2,955,261, 10-4-60, Cl. 330-89.
- Edwards, Luverne, deceased, by M. R. Edwards, administratrix, 20% to J. E. Main. Steerable front end suspension for trailers and wagons. 2,940,766, 6-14-60, Cl. 280-29.
- Edwards, Mabel R.: *See*—  
Edwards, Luverne. 2,940,766.
- Edwards, Marvin B.: *See*—  
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- Edwards, Miles L. Centrifugal diffuser type vapor separating pump. 2,922,375, 1-26-60, Cl. 103-113.
- Edwards, Norman E., to Radio Corp. of America. Frequency shift oscillator. 2,930,991, 3-29-60, Cl. 331-117.
- Edwards, Norman E., and A. W. Muoio, to Radio Corp. of America. Oscillator. 2,930,002, 3-22-60, Cl. 331-116.
- Edwards, O. M. Co., Inc., The: *See*—  
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- Edwards, Orville P.: *See*—  
Zink, John S., Jr., Edwards, Duncan, and Reed. 2,964,121.
- Edwards, Paul B., and S. H. Linden, to United States Steel Corp. Apparatus for testing cable. 2,942,181, 6-21-60, Cl. 324-54.
- Edwards, Philip B.: *See*—  
Harris, Wilbur T., and Edwards. 2,947,890.
- Edwards, Ray C. Heat transfer unit. 2,959,402, 11-8-60, Cl. 257-262.18.
- Edwards, Roy J.: *See*—  
Gough, Frank E. 2,958,187.
- Edwards, Russell F., to Jomac Inc. Roll construction. 2,964,834, 12-20-60, Cl. 29-117.
- Edwards, Theodor B. Vehicle wheel assembly. 2,926,047, 2-23-60, Cl. 305-34.
- Edwards, Thomas: *See*—  
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- Edwards, Walter H.: *See*—  
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- Edwards, Walter M.: *See*—  
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- Edwards, William R., and H. W. Earhart, to Esso Research and Engineering Co. Cyclohexadienes and process for preparing same. 2,951,879, 9-6-60, Cl. 260-666.
- Edwards, William V., D. L. Lorenz, and C. W. Rader. Gear fuel pump. 2,957,418, 10-25-60, Cl. 103-4.
- Eerde, John D., to Keuffel & Esser Co. Photosensitive material. 2,942,975, 6-28-60, Cl. 96-75.
- Eerdeken, Hendrik P.: *See*—  
Jennen, Jacob J., and Eerdeken. 2,964,402.
- Effgen, Anton. Machine for mounting rhinestones on fabric. 2,944,260, 7-12-60, Cl. 1-3.
- Effgen, Anton. Grid tray. 2,944,696, 7-12-60, Cl. 220-22.
- Efford, John T., and L. C. Morton, to Shulton, Inc. Fluid dispensing valve. 2,951,646, 9-6-60, Cl. 239-337.
- Efromson, Philip C., to The Calidyne Co., Inc. Vibration test apparatus. 2,925,503, 2-16-60, Cl. 310-27.
- Efther, Jean. Bulb for mercury switches and the like. 2,929,889, 3-22-60, Cl. 200-33.
- Ega Electric Ltd.: *See*—  
Paddock, William J. 2,956,139.
- Egan, Edmond F., to Texaco Inc. Electrical logging system for exploring subsurface formations. 2,945,175, 7-12-60, Cl. 324-10.
- Egan, Edmond F., G. Herzog, and A. S. McKay, to Texaco Inc. Method of studying subsurface formations. 2,947,869, 8-2-60, Cl. 250-43.5.
- Egan, Edmond F., G. Herzog, and J. C. Allen, to Texaco Inc. Productivity well logging. 2,961,539, 11-22-60, Cl. 250-43.5.
- Egbert, Jack K. Portable gangplank and dock. 2,964,767, 12-20-60, Cl. 14-71.
- Egbert, Robert B.: *See*—  
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Landau, Ralph, Egbert, and Safer. 2,920,118.
- Egbert, Robert B., R. Landau, and A. Safer, to Mid-Century Corp. Process for producing para-ethyltoluene. 2,920,119, 1-5-60, Cl. 260-671.
- Egbert, William F., and V. W. Peterson, to General Motors Corp. Turbojet engine. 2,963,857, 12-13-60, Cl. 60-35.6.
- Egedal, Lawrence E. Stirring whips. 2,949,284, 8-16-60, Cl. 259-144.
- Egelson, Harry E., and E. D. Sramek, to F. B. Redington Co. Life saver package. 2,926,833, 3-1-60, Cl. 229-51.
- Egen Electric Ltd.: *See*—  
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- Eger, Edward F., to Western Electric Co., Inc. Deburring machine. 2,951,425, 9-6-60, Cl. 90-15.
- Eger, Edward F., to Western Electric Co., Inc. Buffing apparatus control system. 2,959,899, 11-15-60, Cl. 51-263.
- Eger, Edward F., and G. W. Piper, Jr., to Western Electric Co. Inc. Selectively operable work holders for buffing machines. 2,948,086, 8-9-60, Cl. 51-80.
- Eger, Hans: *See*—  
Schwartzkopf, Fritz E., and Eger. 2,939,770.
- Eggenberger, Markus A., to General Electric Co. Emergency governing system for a steam turbine. 2,926,680, 3-1-60, Cl. 137-24.
- Egger, Ernest. Frictionless stop collar for the arbor of a drill press or other machines. 2,945,403, 7-19-60, Cl. 77-55.
- Egger, Ernest. Flexible connecting means for a rod joint. 2,945,714, 7-19-60, Cl. 287-86.
- Egger, Georg M., to Societe de la Visco Suisse. Production of artificial filamentary materials. 2,953,427, 9-20-60, Cl. 18-54.
- Eggerding, Henry, to International Telephone and Telegraph Corp. Construction of electrical devices. 2,955,260, 10-4-60, Cl. 330-68.
- Eggers, Gerhard, and E. Haberkorn, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Aircraft jet propulsion unit mount. 2,949,268, 8-16-60, Cl. 248-5.
- Eggers, Gerhard, G. Ernst, and G. Richter, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Device for the control and coordination of controls of an aircraft. 2,959,378, 11-8-60, Cl. 244-52.
- Eggers, Hermann R., and K. H. Zeltz, to Licentia Patent-Verwaltungs-G.m.b.H. Device for electrically tele-transmitting the measured value of pressure indicators. 2,935,875, 5-10-60, Cl. 73-398.
- Eggers, Louis W., Jr.: *See*—  
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- Eggers, Raymond B. Shoe polish applicator brush. 2,961,680, 11-29-60, Cl. 15-137.
- Eggers, William H. Automobile moisture and braking apparatus. 2,927,561, 3-8-60, Cl. 123-25.
- Eggert, Fritz: *See*—  
Rothweiler, Friedrich, Greif, and Eggert. 2,941,014.
- Eggert, Jacqueline K. Typewriter eraser support. 2,921,765, 1-19-60, Cl. 248-206.
- Eggert, Walter S., Jr., to The Budd Co. Method of fabricating honeycomb grid reinforced structure. 2,939,944, 6-7-60, Cl. 219-78.
- Eggertsen, Frank T.: *See*—  
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- Eggertsen, Frank T., and J. W. Gibson, to Shell Oil Co. Separation of hydrocarbons using zeolitic molecular sieves. 2,952,630, 9-13-60, Cl. 208-310.



- Eggink, Anton, H. Wentink, and E. Stamhuis, to De Staat der Nederlanden te dezen vertegenwoordigd door de Hoofdingenieur-Directeur van de Rijkswaterstaat in de Directie Sluizen en Stuwten. Tunnel or tunnel-part. 2,959,197, 11-8-60, Cl. 138-86.
- Eggleston, Frederick, Construction of axial flow compressors. 2,931,563, 4-5-60, Cl. 230-122.
- Egli, Mario, and A. I. Novi. Coffee-making apparatus. 2,943,556, 7-5-60, Cl. 99-289.
- Egleston, Harry B.: *See*—  
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- Egley, Floyd C.: *See*—  
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- Egly, John M.: *See*—  
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- Egon, Basil G. Heat pump. 2,958,209, 11-1-60, Cl. 62-197.
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- Ehe, Johann: *See*—  
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- Ehlers, Forrest A.: *See*—  
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- Ehlers, Forrest A., to The Dow Chemical Co. N-vinyl-3-morpholinone copolymers. 2,952,668, 9-13-60, Cl. 260-80.3.
- Ehlers, Kenneth W.: *See*—  
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- Ehlert, William A., and L. D. Mersek, to The Ajax Mfg. Co. Cut-off apparatus. 2,928,304, 3-15-60, Cl. 83-205.
- Ehlinger, Louis J., to Alan Wood Steel Co. Machine for cutting designs on rolls. 2,924,153, 2-9-60, Cl. 90-56.
- Ehni, Friedrich P., to International Standard Electric Corp. Circuit arrangement supervising tracks of railroads with electric traction. 2,966,581, 12-27-60, Cl. 246-35.
- Ehrenberg, Gustave, to Minneapolis-Honeywell Regulator Co. Controller. 2,938,536, 5-31-60, Cl. 137-486.
- Ehrenfreund, Herbert A., to Westinghouse Electric Corp. Refrigeration apparatus. 2,961,851, 11-29-60, Cl. 62-448.
- Ehrenhaft, Franz F., and S. Rosin, to Scanoptic, Inc. Anamorphic adapter arrangement. 2,940,372, 6-14-60, Cl. 95-45.
- Ehrenreich, A., & Cie.: *See*—  
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- Ehrenfreund, Herbert A., to Westinghouse Electric Corp. Refrigeration apparatus. 2,930,885, 3-29-60, Cl. 240-4.
- Ehrensaff, Harry: *See*—  
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- Ehret, Robert J., to Minneapolis-Honeywell Regulator Co. Series energized cascaded transistor amplifier. 2,926,307, 2-23-60, Cl. 330-18.
- Ehret, Robert J., to Minneapolis-Honeywell Regulator Co. Current regulator. 2,964,693, 12-13-60, Cl. 323-4.
- Ehrhart, Gustav, I. Hennig, E. Lindner, and H. Ott, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. B-hydroxy carboxylic acid amides substituted at the nitrogen atom. 2,941,002, 6-14-60, Cl. 260-562.
- Ehrlicke, Erich, and F. J. Dreyer also known as H. Dreyer, deceased (E. Dreyer, administratrix), to Siemens & Halske Aktiengesellschaft Berlin and Munich. Switching arrangement for automatic telephone systems. 2,952,741, 9-13-60, Cl. 179-18.
- Ehrlich, John, Q. R. Bartz, H. W. Dion, and S. A. Fusari, to Parke, Davis & Co. Process for the production of L-6-diazo-5-oxonorleucine. 2,965,547, 12-20-60, Cl. 195-80.
- Ehrlich, Joseph C. Apparatus for multiple liquid treatments of materials. 2,959,151, 11-8-60, Cl. 118-429.
- Ehrlich, Maximilian, to Leviton Mfg. Co., Inc. Contact and pressure-lock terminal. 2,952,831, 9-13-60, Cl. 339-95.
- Ehrlich, Melvin P., to Nuclear Research Associates, Inc. Adjustable connector for printed circuit boards and the like. 2,957,155, 10-18-60, Cl. 339-17.
- Ehrlich, Willibald: *See*—  
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- Ehrsam, J. B., & Sons Mfg. Co., The: *See*—  
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Prichard, Guy, Jr. 2,956,779.
- Elane, Birger, to Westinghouse Electric Corp. Electron discharge device. 2,939,994, 6-7-60, Cl. 315-3.5.
- Eibl, William F.: *See*—  
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- Eichacker, Harold F. Ribbon spool for calculating machines, etc. 2,936,883, 5-17-60, Cl. 206-52.
- Eichbaum, Barlane R., and E. C. Schuenzel; said Eichbaum assor. to International Business Machines Corp. Method of fabricating special shaped ferrites. 2,961,709, 11-29-60, Cl. 18-47.5.
- Eichelberger, Willard: *See*—  
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- Eichenauer, Rudolf. Tire inflating and testing device. 2,943,637, 7-5-60, Cl. 137-224.
- Eichenbaum, William, deceased (S. H. Kantrowitz, executor), and M. Mandel. Duplicating apparatus. 2,938,456, 5-31-60, Cl. 101-132.5.
- Eichenberg, Robert: *See*—  
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- Eichenberger, Norman F.: *See*—  
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- Eichenlaub, George E. File and mail envelope. 2,949,223, 8-16-60, Cl. 229-68.
- Eichholz, Arthur H., to Central Stamping & Mfg. Co. Tote box. 2,925,904, 2-23-60, Cl. 206-16.
- Eichholz, August G. Toy watches. 2,919,538, 1-5-60, Cl. 58-106.
- Eichhorn, Abraham: *See*—  
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- Eichhorn, Jacob, and J. M. Steinmetz, to The Dow Chemical Co. Sulfonation of finely divided polymers with sulfonation agents in gas phase. 2,945,842, 7-19-60, Cl. 260-79.3.
- Eichhorn, Nathan and A. Carpet holder strip. 2,926,378, 3-1-60, Cl. 16-4.
- Eichin, Harry P., and W. Stock, to Union Carbide Corp. Method of and apparatus for classifying unit items. 2,965,230, 12-20-60, Cl. 209-117.
- Eichin, Werner, and W. Veith, to Siemens & Halske Aktiengesellschaft. Retardation conductor for variable field electronic tubes or the like. 2,925,567, 2-16-60, Cl. 333-31.
- Eichler, Jack H.: *See*—  
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- Eichler, Rolf W., to Haloid Xerox Inc. Resistance type heating elements. 2,965,868, 12-20-60, Cl. 338-261.
- Eichler, Rolf W., R. H. Eichorn, and J. Rutkus, Jr., to Haloid Xerox Inc. Sheet feed mechanism. 2,945,434, 7-19-60, Cl. 101-232.
- Eichler, Ulrich J. R.: *See*—  
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Kiel, Wilhelm K. B., and Eichler. 2,937,809.
- Eichner, George A. Paint brush holding device. 2,945,251, 7-19-60, Cl. 15-121.3.
- Eichorn, Robert N., to International Business Machines Corp. Container. 2,938,623, 5-31-60, Cl. 206-60.
- Eichorn, Robert N., to International Business Machines Corp. Carton. 2,942,770, 6-28-60, Cl. 229-33.
- Eichorn, Robert N., and M. R. Cannon, to International Business Machines Corp. Apparatus for handling a continuous web of material. 2,963,087, 12-6-60, Cl. 162-252.
- Eichorn, Roger H.: *See*—  
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- Eicken-Estienne, Henri. Material treating system. 2,942,352, 6-28-60, Cl. 34-52.
- Eickhoff, Carl. Indicator. 2,943,196, 6-28-60, Cl. 250-43.5.
- Eickman, Lowell C., to The Sheffield Corp. Gauging device. 2,952,918, 9-20-60, Cl. 33-169.
- Eickmeier, Wilmer E.: *See*—  
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- Eickmeyer, Allen G. Method for separation of fluid mixtures. 2,944,966, 7-12-60, Cl. 208-352.
- Eickmeyer, Otto R., and C. J. Pitt. Educational device. 2,946,135, 7-26-60, Cl. 35-31.
- Eidensohn, Samuel, and L. Goldenberg. Continuous feed primary battery system. 2,925,455, 2-16-60, Cl. 136-86.
- Eidson, Dennis L., and J. N. Swarr, to Hills-McCanna Co. Proportioning mechanism. 2,949,124, 8-16-60, Cl. 137-99.
- Eidson, Gilly G.: *See*—  
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- Eidson, Gordon R. and B. G., and G. H. Mercer, 50% to Dolores J. Foster & Associates. Metal press and baler. 2,953,084, 9-20-60, Cl. 100-232.
- Eifel, Joseph. Vehicle brake-operating means. 2,926,763, 3-1-60, Cl. 192-13.
- Eifert, Robert L., and B. M. Marks, to E. I. du Pont de Nemours and Co. Stabilized polymethacrolein compositions with phenols or mercapto benzimidazoles. 2,945,837, 7-19-60, Cl. 260-45.8.
- Eigeman, Jacobus, to North American Philips Co., Inc. Synchronous motor. 2,951,937, 9-6-60, Cl. 310-164.
- Eigen, Edward: *See*—  
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- Eikel, Oliver, Jr.: *See*—  
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- Eliland, Phillip F., Jr., to HRB-Singer, Inc. Flexible bazooka balun. 2,966,640, 12-27-60, Cl. 333-26.
- Ellerman, George E., to Pittsburgh Plate Glass Co. Glass fiber treatment. 2,951,782, 9-6-60, Cl. 154-90.
- Eilers, Carl G., to Zenith Radio Corp. Subscription television system. 2,926,214, 2-23-60, Cl. 178-5.1.
- Eilers, Carl G., and E. M. Roschke, to Zenith Radio Corp. Secrecy communication. 2,947,804, 8-2-60, Cl. 178-5.1.
- Eilers, Ernest F., Jr., to Waldorf Paper Products Co. Mueller, Roland, and Eisele. 2,922,690.
- Eillers, Louis H., to The Dow Chemical Co. Cementing composition and method of use. 2,945,539, 7-19-60, Cl. 166-33.
- Eilers, Melvin E., and L. E. Smith, to Olin Mathieson Chemical Corp. Electric detonators. 2,927,498, 3-8-60, Cl. 86-1.



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 Schwartz, Daniel M., Hackett, and McCallum. 2,953,941.  
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 Schwartz, Daniel M., and Martin. 2,953,942.  
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- Elmer, David R.  $\frac{1}{2}$  to M. Elmer. Gift package wrappings. 2,936,101, 5-10-60, Cl. 229-14.
- Elmer, Martin: See—  
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- Elmerman, Gustave F.; F. G. Melter, administratrix,  $\frac{1}{2}$  to F. G. Melter and  $\frac{1}{2}$  to R. E. Becker. Golf ball and tee handling devices. 2,943,856, 7-5-60, Cl. 273-33.
- Einbipie, John A., to National Gypsum Co. Continuous web perforating machine. 2,957,369, 10-25-60, Cl. 74-665.
- Einhorn, Sidney N., G. G. Hoberg, J. O. Paivinen, and R. C. Weise, to Burroughs Corp. Matrix selection apparatus. 2,932,011, 4-5-60, Cl. 340-174.
- Einsle, Theodor, to International Business Machines Corp. Core storage matrix. 2,939,119, 5-31-60, Cl. 340-174.
- Einson-Freeman Co., Inc.: See—  
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- Eirich, Gustav: See—  
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- Eirich, Wilhelm and G. Disc mills. 2,937,815, 5-24-60, Cl. 241-257.
- Eisbart, Leonard C. Display rack. 2,964,198, 12-13-60, Cl. 211-45.
- Eisele, Andrew. Bore concentricity gauge. 2,943,396, 7-5-60, Cl. 33-174.
- Eisele, Andrew. Precision concentricity gauge. 2,956,342, 10-18-60, Cl. 33-174.
- Eisele & Co.: See—  
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- Eisele, Julius: See—  
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- Eisele, Julius, W. Federkiel, C. Schuster, and K. Maier, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process of dyeing and printing cellulose derivatives. 2,925,314, 2-16-60, Cl. 8-85.
- Eisele, Orion, deceased; J. M. Carey, administratrix. Portable traveling saw and control means therefor. 2,939,497, 6-7-60, Cl. 143-47.
- Eiseman, Bernhardt J., Jr., to E. I. du Pont de Nemours and Co. Inhibiting copper plating in closed refrigeration systems. 2,943,057, 6-28-60, Cl. 252-68.
- Eisen, Theodore, M. Masel, and L. J. Franchi, to The Bendix Corp. Signal modifier. 2,955,215, 10-4-60, Cl. 307-146.
- Eisenbeiser, Erich K., to Daimler-Benz Aktiengesellschaft. Locating means for vehicle doors. 2,922,182, 1-26-60, Cl. 16-82.
- Eisenberg, Alan G. Electrical switch housing. 2,931,878, 4-5-60, Cl. 200-168.
- Eisenberg, Bernard C. Container filling machine. 2,937,670, 5-24-60, Cl. 141-78.
- Eisenberg, David J., and T. Mauthner, to Nelson Chemicals Co. Process of making alkali subsulfates. 2,942,945, 6-28-60, Cl. 23-110.
- Eisenberg, James, to Eco Engineering Co., a division of Economy Faucet Co. Gear pumps. 2,965,040, 12-20-60, Cl. 103-126.
- Eisenberg, Lawrence: See—  
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- Eisenberg, Robert M., to ACF Industries, Inc. Simulated oxygen regulator system. 2,943,401, 7-5-60, Cl. 35-12.
- Eisenbraun, Allan A.: See—  
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- Eisengrein, Robert H., to Seneca Falls Machine Co. Contour tracing apparatus. 2,939,368, 6-7-60, Cl. 90-13.5.
- Eisenhart, Arlin C., to U.S. Electrical Motors, Inc. Oil comparator. 2,921,820, 1-19-60, Cl. 308-187.
- Eisenhart, Arlin C., to U.S. Electrical Motors, Inc. Vertical electric motor housing. 2,932,750, 4-12-60, Cl. 310-89.
- Eisenhart, Arlin C., and A. J. Garey, to U.S. Electrical Motors, Inc. Retractable lubricant filling device. 2,962,188, 11-29-60, Cl. 220-86.
- Eisenhauer, Ida J.: See—  
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- Eisenhauer, Leigh E., and C. C. Bedenbaugh, to W. A. Eisenhauer, W. P. Ellwood, and I. J. and L. E. Eisenhauer, d.b.a. The Eisenhauer Mfg. Co. Electrical connector. 2,934,592, 4-26-60, Cl. 174-92.
- Eisenhauer Mfg. Co., The: See—  
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- Eisenhauer, William A.: See—  
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- Eisenlohr, Douglas H., to Columbia-Southern Chemical Corp. Recovery of 1,1-dichloroethane. 2,945,897, 7-19-60, Cl. 260-663.
- Eisenmann, Charles E., C. A. Brooks, S. Katransky, and J. J. Nemeth, to Indiana General Corp. Porcelain lined centrifugal pumps. 2,963,979, 12-13-60, Cl. 103-103.
- Eisenstark, Milton, to Curtiss-Wright Corp. Dual course recorder. 2,948,580, 8-9-60, Cl. 346-8.
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- Eisler, Jack: See—  
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- Eisler, Paul. Method of manufacturing an electrically conductive winding pattern. 2,943,051, 8-9-60, Cl. 29-155.5.
- Eismann, Helmut, and G. Lange, to C. Zeiss. Photographic objective. 2,920,528, 1-12-60, Cl. 88-57.
- Eisner, Burton D., and D. E. Raterman, to American Photocopy Equipment Co. Combination photo-copy and printing apparatus. 2,946,272, 7-26-60, Cl. 95-77.5.
- Elssmann, Kurt W.: See—  
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- Elssmann, Oswald E., to American Machine & Foundry Co. Cigarette making machine. 2,929,384, 3-22-60, Cl. 131-94.
- Elssmann, Oswald E., to American Machine & Foundry Co. Tobacco separating apparatus. 2,944,629, 7-12-60, Cl. 183-34.
- Eistert, Bernd: See—  
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- Eiszner, James R., and W. G. Stanley, to Standard Oil Co. Rocket propellant. 2,942,961, 6-28-60, Cl. 52-5.
- Eitel, Jay M. Mobile lifting equipment with extensible boom structure. 2,936,847, 5-17-60, Cl. 182-2.
- Eitel, Jay M. Vehicle and lift construction. 2,938,594, 5-31-60, Cl. 182-2.
- Eitel, Jay M. Cable guiding device. 2,949,279, 8-16-60, Cl. 254-190.
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- Eitel-McCullough, Inc.: See—  
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- Eitel, Walter F., to General Motors Corp. Spark plug seals. 2,943,221, 6-28-60, Cl. 313-144.
- Eitel, William W., and J. A. McCullough, to Eitel-McCullough, Inc. Electron tube socket. 2,952,769, 9-13-60, Cl. 250-16.
- Ekas, Frank E. Power mower with steerable and driven rear wheel. 2,935,333, 5-3-60, Cl. 280-92.
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- Eklund, Donald P., and J. N. West. Leak detectors for tire valves. 2,939,315, 6-7-60, Cl. 73-48.
- Eklund, Hans E., to AB Ljungmans Verkstad. Snap action device. 2,951,382, 9-6-60, Cl. 74-100.
- Eklund, Harry N., and W. A. Sauter, to Lear, Inc. Power and signal transmission system. 2,921,289, 1-12-60, Cl. 340-27.
- Eklund, Karl E. Apparatus for broaching spiral gears. 2,940,159, 6-14-60, Cl. 29-95.1.
- Eklund, Ralph H., to Birmingham Hydraulics, Inc. Valve supporting panel board. 2,927,602, 3-8-60, Cl. 137-343.
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- Ekstrom, Glen O., Jr., to Dorr-Oliver Inc. Method and apparatus for wet classification of solids. 2,960,226, 11-15-60, Cl. 209-158.
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- Ela, Benjamin W., Jr., and F. J. Sterbentz, to United States of America, Atomic Energy Commission. Target assembly. 2,929,933, 3-22-60, Cl. 250—84.5.
- Elam, Daniel W., J. L. Morrill, A. L. Robb, and H. H. McAdam, to Hiller Aircraft Corp. Storage, mixing and dispensing device. 2,954,144, 9-27-60, Cl. 222—82.
- Elam, David L., Electro Products Laboratories, Inc. Electrical sensing apparatus. Re. 24,779, 2-9-60, Cl. 331—64.
- Elam, David L., to Electro Products Laboratories, Inc. Electrical sensing apparatus. 2,922,880, 1-26-60, Cl. 250—27.
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- Elam, Edward U., and R. H. Hasek, to Eastman Kodak Co. Allene condensation products with dienes. 2,960,541, 11-15-60, Cl. 260—648.
- Elam, James O., to Health Research, Inc. Respirator. 2,923,290, 2-2-60, Cl. 128—29.
- Eland, Robert C. A., to Standard Coil Products Co. Inc. Neutralizing circuits. 2,949,580, 8-16-60, Cl. 330—79.
- Elarde, Vito D., to Western Electric Co., Inc. Methods of making encapsulated electrical devices. 2,940,161, 6-14-60, Cl. 29—155.5.
- Elasser, Carl. Combination back stretcher and massaging device. 2,934,063, 4-26-60, Cl. 128—71.
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- Elbinger, Lewis P., to General Electric Co. Apparatus for reading human language. 2,927,303, 3-1-60, Cl. 340—149.
- Elbling, Irving N., and W. R. Thomas, to Westinghouse Electric Corp. Curing agents comprising amine-polyborate esters for epoxy resins. 2,941,981, 6-21-60, Cl. 260—47.
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- Elbreder, Charles H.,  $\frac{1}{2}$  to A. D. Berryman,  $\frac{1}{4}$  to W. G. Garner, and  $\frac{1}{4}$  to E. J. Ross. Compositions and methods for treating metal surfaces. 2,955,087, 10-4-60, Cl. 252—136.
- Eld, Aksel C., to Gulf Oil Corp. Apparatus for counter-current contacting of liquid and vapor streams. 2,960,322, 11-15-60, Cl. 261—114.
- Eld, Aksel C., and W. R. Lehrian, to Gulf Oil Corp. Vapor-liquid contacting apparatus. 2,959,404, 1-8-60, Cl. 261—114.
- Eldema Corp.: *See*—  
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- Elder, Gordon B., and G. W. Harry, to General Motors Corp. Fuel pressure regulator. 2,939,480, 6-7-60, Cl. 137—546.
- Elder, Harry E., and H. L. McDowell, to Bell Telephone Laboratories, Inc. Traveling wave tubes. 2,956,198, 10-11-60, Cl. 315—3.5.
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- Elder, Lorne C., to Associated Spring Corp. Spring clip for connecting two parts. 2,962,783, 12-6-60, Cl. 24—73.
- Elder, Richard O., to E. I. du Pont de Nemours and Co. Process for inhibiting cross-linkages in polyethylene by the use of alkylated hydroxyanisoles or substituted phenyl amines. 2,960,496, 11-15-60, Cl. 260—94.9.
- Elders, Daniel S., to United States of America, Army. Delay lines. 2,946,967, 7-26-60, Cl. 333—29.
- Elderton, Robert W., and R. J. Wodtke, to Robertshaw-Fulton Controls Co. Push button control device. 2,921,159, 1-12-60, Cl. 200—83.
- Eldib, Ibrahim A., and L. F. King, to Esso Research and Engineering Co. Low odor solvents. 2,948,674, 8-9-60, Cl. 208—218.
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- Eldred, Wendell E., to The Bendix Corp. Shock strut. 2,958,485, 11-1-60, Cl. 244—102.
- Eldredge, Kenneth R., and M. D. Marsh. Automatic reading system. 2,961,649, 11-22-60, Cl. 340—149.
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- Elektro-Mechanik G.m.b.H.: *See—*  
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- Elektrophysikalische Anstalt: *See—*  
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- Elektrophysikalische Anstalt Bernhard Berghaus: *See—*  
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- Elektro-Thermit, G.m.b.H.: *See—*  
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- Elemag-Anstalt: *See—*  
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- Eleuterio, Herbert S., to E. I. du Pont de Nemours and Co. Polymers of perfluoropropylene. 2,958,685, 11-1-60, Cl. 260-92.1.
- Elevator Construction & Service Co.: *See—*  
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- Elevators Supplies Co., Inc.: *See—*  
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- Elfenbein, Wilfred. Electrical connector plug. 2,922,134, 1-19-60, Cl. 339-14.
- Elfes, Lee E., and L. J. Lorenz, to Massey-Ferguson Inc. Tilting means for a tractor mounted reciprocating mower. 2,932,931, 4-19-60, Cl. 56-25.
- Elfes, Lee E., and L. J. Lorenz, to Massey-Ferguson Inc. Driving means for a tractor mounted reciprocating mower. 2,932,932, 4-19-60, Cl. 56-25.
- Elfes, Lee E., and L. J. Lorenz, to Massey-Ferguson Inc. Overload release mechanism for a reciprocating mower. 2,932,933, 4-19-60, Cl. 56-25.
- Elfvig, Thore M. Mechanically refrigerated railway car. 2,963,880, 12-13-60, Cl. 62-239.
- Elgin National Watch Co.: *See—*  
 Boswell, Thomas L. 2,959,631.  
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 Bruhn, La Verne E., and McLaren. 2,948,941.  
 Challacombe, Carl N., Mayer, and Wiley. 2,959,747.  
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- Elgin Softener Corp.: *See—*  
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- Elia, Ezio, and A. Bracco. Warp jacquard knitting machine. 2,937,515, 5-24-60, Cl. 66-85.
- Elias, Arthur J., to General Dynamics Corp. Transistor-magnetic core bi-stable circuit. 2,920,213, 1-5-60, Cl. 307-88.
- Elias, Maurice J. Wheeled golf bag. 2,962,294, 11-29-60, Cl. 280-38.
- Elias, Nathaniel M. Concentrated foam-producing spermicides. 2,943,979, 7-5-60, Cl. 167-58.
- Elias, William F., H. J. Merriam, and J. K. Apat, to American Home Products Corp. Antibiotic compositions. 2,966,442, 12-27-60, Cl. 167-65.
- Eliasberg, Rose. Device for forming a bow. 2,941,213, 6-21-60, Cl. 2-154.
- Elijah, Enoch A. Flotation device for vessels. 2,966,131, 12-27-60, Cl. 114-68.
- Elin Aktiengesellschaft für elektrische Industrie: *See—*  
 Angel, Harald, and Christ. 2,924,716.  
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- Elings, Garnt A., A. Koelewijn, E. J. W. Verweij, and H. A. Klasens, to North American Philips Co., Inc. Glow discharge tube. 2,924,737, 2-9-60, Cl. 313-355.
- Elins, Herbert S.: *See—*  
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- Elion, Gertrude B.: *See—*  
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- Ellot, Warner A.: *See—*  
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- Elk Falls Co. Ltd.: *See—*  
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- Elkhart Brass Mfg. Co.: *See—*  
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- Elkhart Brass Mfg. Co., Inc.: *See—*  
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- Elkin, Harold L., to Thiokol Chemical Corp. Preparation of foamed hydrophilic polyurethanes using pyrrolidone catalysts. 2,965,584, 12-20-60, Cl. 260-2.5.



- Elkin, Herbert S.: *See*—  
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- Elkin, Hugh W., and F. W. Atkins, to North American Aviation, Inc. Retractable landing gear. 2,921,759, 1-19-60, Cl. 244—102.
- Elks, Joseph, and G. H. Phillips, to Glaxo Laboratories, Ltd. Preparation of steroidal 21-phosphate derivatives. 2,936,313, 5-10-60, Cl. 260—397.45.
- Elks, Joseph, and G. H. Phillips, to Glaxo Laboratories Ltd. Steroid secondary 21-phosphate esters. 2,950,298, 8-23-60, Cl. 260—397.45.
- Elledge, Martin D.,  $\frac{1}{2}$  to W. I. Mann. Tool holding device. 2,960,343, 11-15-60, Cl. 279—81.
- Ellenberger, Jakob, to Ellenberger & Poensgen G.m.b.H. Pushbutton-operated overload switch. 2,952,757, 9-13-60, Cl. 200—116.
- Ellenberger, Jakob, to Ellenberger & Poensgen G.m.b.H. Thermal circuit breaker. 2,952,758, 9-13-60, Cl. 200—122.
- Ellenberger & Poensgen G.m.b.H.: *See*—  
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Ellenberger, Jakob. 2,952,758.
- Ellenbogen, Eric, to Lasdon Foundation, Inc. Production of polypeptides and amino acids and carbohydrates. 2,965,554, 12-20-60, Cl. 204—162.
- Eller, Carl W., Jr., and J. M. Snyder, to E. I. du Pont de Nemours and Co. Regeneration of degraded anthraquinone working solutions used for producing hydrogen peroxide. 2,940,937, 6-14-60, Cl. 260—369.
- Eller, Harold E., to Minneapolis-Honeywell Regulator Co. Air-pressure-operated automatically or manually actuated controller. 2,939,472, 6-7-60, Cl. 137—82.
- Eller, Vance W.: *See*—  
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- Eller, William R.: *See*—  
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- Ellerbeck, Grant C., to Friden, Inc. Calculating machine. 2,919,852, 1-5-60, Cl. 235—63.
- Ellerbeck, Grant C., to Friden, Inc. Interregister transfer device for calculating machines. 2,928,597, 3-15-60, Cl. 235—63.
- Ellerbeck, Grant C., to Friden, Inc. Short-cut multiplying machine. 2,933,247, 4-19-60, Cl. 235—63.
- Ellerbeck, Grant C., to Friden, Inc. Calculator centralizing mechanism. 2,956,744, 10-18-60, Cl. 235—73.
- Ellerman, Harry E., Jr., to United States of America, Navy. Anti-circular run device. 2,955,557, 10-11-60, Cl. 114—24.
- Ellerman, Harry E., Jr., and L. Radkowski, to United States of America, Navy. Rate gyroscope. 2,956,436, 10-18-60, Cl. 74—5.6.
- Ellern, Herbert, and D. E. Olander, to Universal Match Corp. Pyrotechnic timers. 2,954,735, 10-4-60, Cl. 102—85.
- Ellerstein, Jack: *See*—  
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- Ellert, Henry G.: *See*—  
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- Ellery, Henry A. Mechanical jacking device. 2,924,426, 2-9-60, Cl. 254—86.
- Ellett, Alexander, to United States of America, Army. Set-back charging condenser. 2,934,017, 4-26-60, Cl. 102—70.2.
- Ellett, Duane W. Ventriloquist hand operated puppet. 2,931,137, 4-5-60, Cl. 46—154.
- Ellicott, Charles E., Jr., to Ellicott Machine Corp. Dredge discharge pipe. 2,926,437, 3-1-60, Cl. 37—72.
- Ellicott, Charles E., Jr., to Ellicott Machine Corp. Dredge ladder. 2,963,801, 12-13-60, Cl. 37—67.
- Ellicott Machine Corp.: *See*—  
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Ellicott, Charles E., Jr. 2,963,801.  
Kaufmann, Carl P. 2,944,352.
- Elling, Hugo: *See*—  
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- Ellingboe, Ellsworth K., to E. I. du Pont de Nemours and Co. Process for making polyamides from diamines and esters containing only C, O and Cl. 2,937,161, 5-17-60, Cl. 260—78.
- Ellinger, Finley H.: *See*—  
Cramer, Eugene M., Ellinger, and Land. 2,929,706.
- Ellinger, Karl. Brake for spinning and twining spindles. 2,942,406, 6-28-60, Cl. 57—88.
- Ellinger, Leo P., to The British Oxygen Co. Ltd. Preparation of a catalyst for the reaction between acetylene and formaldehyde to form 2-butyne-1:4-diol. 2,939,844, 6-7-60, Cl. 252—428.
- Ellingsen, S. Haug, & Co.: *See*—  
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- Elliot Enterprises, Inc.: *See*—  
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- Elliot, Eric C. Device for fluid transference. 2,937,643, 5-24-60, Cl. 128—214.
- Elliot, William H., to Cutler-Hammer, Inc. Electronic timing system. 2,941,127, 6-14-60, Cl. 317—142.
- Elliot, William H., to Cutler-Hammer, Inc. Time delay systems utilizing transistors. 2,947,881, 8-2-60, Cl. 307—88.5.
- Elliot, William H., P. M. Gordon, and G. L. Yager, to Cutler-Hammer, Inc. Electrical controller. 2,933,708, 4-19-60, Cl. 338—28.
- Elliott, Alan L. Demonstration device. 2,935,165, 5-3-60, Cl. 190—16.
- Elliott, Arvis F. Plastic laminating machine. 2,927,620, 3-8-60, Cl. 154—1.
- Elliott Brothers (London) Ltd.: *See*—  
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- Elliott, Charles H., and R. E. Eckman, to Reed Roller Bit Co. Rolling impulse clutch. 2,957,323, 10-25-60, Cl. 64—29.
- Elliott, Clifton M., to Chrysler Corp. Speed sensor. 2,957,466, 10-25-60, Cl. 123—119.
- Elliott Co.: *See*—  
Shields, James R. 2,942,953.
- Elliott, Daniel R.: *See*—  
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- Elliott, Douglas A.: *See*—  
Hall, John L., and Elliott. 2,960,826.  
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- Elliott, Douglas E., to Power Jets (Research and Development) Ltd. Regenerative heat exchange process for formation of combustible gas. 2,965,463, 12-20-60, Cl. 48—206.
- Elliott & Evans, Inc.: *See*—  
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- Elliott, George N.: *See*—  
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- Elliott, Harold F. Time-control device. 2,949,512, 8-16-60, Cl. 200—35.
- Elliott, Harold V., and J. R. Canaday, to General Motors Corp. Control device. 2,942,220, 6-21-60, Cl. 338—172.
- Elliott, Harold V., and M. T. Carlson, to General Motors Corp. Circuit controller. 2,948,792, 8-9-60, Cl. 200—156.
- Elliott, Howard A., and W. McPhail, to Essex Wire Corp. Sheet metal contact. 2,961,634, 11-22-60, Cl. 339—276.
- Elliott, Jack, and H. H. McClure, to The Dow Chemical Co. Production of acetylene by the partial oxidation of hydrocarbons. 2,945,074, 7-12-60, Cl. 260—679.
- Elliott, James M., and J. U. Gray, to Courtaulds (Canada) Ltd. Tail forming device for bobbin twister. 2,942,403, 6-28-60, Cl. 57—34.
- Elliott, Jarrell N., to Masonite Corp. Friction clutch sprocket. 2,943,466, 7-5-60, Cl. 64—30.
- Elliott, John C., to Bjorksten Research Laboratories, Inc. Process for treating polyethylene film. 2,934,457, 4-26-60, Cl. 117—118.
- Elliott, John R. Onboard motor mounting. 2,924,415, 2-9-60, Cl. 248—205.
- Elliott, Laverne P., to California Research Corp. Process of oxidizing carbon monoxide and hydrocarbon in exhaust gases. 2,942,932, 6-28-60, Cl. 23—2.
- Elliott, Laverne P., and W. J. Ross, to California Research Corp. Method for recovering gilsonite from gilsonite-water mixtures. 2,920,029, 1-5-60, Cl. 208—41.
- Elliott, Lynn T. Operator for valve with rotatable stem or the like. 2,958,197, 11-1-60, Cl. 60—52.
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- Elliott, Ralph F.: *See*—  
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- Elliott, Richard L., and C. R. Joslyn, to The Bendix Corp. Radio shielding conduit and method of making same. 2,965,151, 12-20-60, Cl. 154—8.
- Elliott, Robert S., to Hughes Aircraft Co. Surface wave omnidirectional antenna. 2,921,309, 1-12-60, Cl. 343—781.
- Elliott, Robert S., to Hughes Aircraft Co. Surface wave structure. 2,945,230, 7-12-60, Cl. 343—772.
- Elliott, Stanley J., and A. C. Keller, to Bell Telephone Laboratories, Inc. Telautograph follow-up system. 2,961,487, 11-22-60, Cl. 178—18.
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- Elliott, William E., and R. E. Reinhard, to Allis-Chalmers Mfg. Co. Method for estimating interfacial tension of a mineral oil. 2,946,216, 7-26-60, Cl. 73—53.
- Elliott, William E., R. E. Reinhard, and E. P. Schram, to Allis-Chalmers Mfg. Co. Spot test method for estimating neutralization number of a mineral oil. 2,953,439, 9-20-60, Cl. 23—230.
- Elliott, William S., to Collins Radio Co. Stabilized electronic tubing means. 2,941,167, 6-14-60, Cl. 333—17.
- Ellis, Albert H.: *See*—  
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- Ellis, Benjamin C., Jr., to Western Electric Co., Inc. Snagging device. 2,946,527, 7-26-60, Cl. 242—25.
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- Ellis, Bernard, V. Petrow, M. Stansfield, and I. A. Stuart-Webb, to The British Drug Houses Ltd. 6 $\beta$ :17 $\beta$ -dihydroxy-17 $\alpha$ -alkynyl-3:5-cycloandrostanes and method for the preparation of 17 $\beta$ -hydroxy-17 $\alpha$ -alkynyl steroids of the androstane and 3:5-cycloandrostanane series. 2,927,119, 3-1-60, Cl. 260—397.5.
- Ellis, Bernard T., Jr., to United States of America. Combined plate and screen grid modulated amplifier circuit. 2,939,090, 5-31-60, Cl. 332—49.
- Ellis, Charles A., to Ritter Co., Inc. Dental handpiece. 2,924,012, 2-9-60, Cl. 32—27.
- Ellis, Charles M. Carrier rack for heated asphalt roller. 2,930,500, 3-29-60, Cl. 214—77.



- Ellis, Charles R., to General Electric Co. Coupling arrangement for concentric transmission line. 2,929,033, 3-15-60, Cl. 333-82.
- Ellis, Charles W., III, to The Kaman Aircraft Corp. Mechanism for indicating and correcting lift differences in helicopter rotors. 2,936,836, 5-17-60, Cl. 170-160.13.
- Ellis, David H., to The Oscar Rixson Co. Adjustable hold-open guide rail for automatic door closer. 2,945,255, 7-19-60, Cl. 16-49.
- Ellis, Donald A., to Inland Steel Products Co. Metal trim clip. 2,947,048, 8-2-60, Cl. 24-73.
- Ellis, Edward J. Side bearing. 2,926,973, 3-1-60, Cl. 308-138.
- Ellis, George S., to L & L Mfg. Co. Flow control valve. 2,924,237, 2-9-60, Cl. 137-599.2.
- Ellis, George S. Pressure responsive fluid tight pipe joint. 2,935,345, 5-3-60, Cl. 285-95.
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- Ellis, Harold J.: See—
- Blystone, Wayne G., and Ellis. 2,933,707.
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- Goetzel, Claus G., and Ellis. 2,942,970.
- Ellis, John R. B.: See—
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- Ellison, Alfred. Arithmetic game. 2,937,874, 5-24-60, Cl. 273-137.
- Ellison, Erick W. Paper carton with handle. 2,961,145, 11-22-60, Cl. 229-52.
- Ellison, Eve. Food decorating stencil. 2,952,225, 9-13-60, Cl. 107-47.
- Ellison, John V., and W. G. Neubauer. Signal recording system. 2,928,708, 3-15-60, Cl. 346-74.
- Ellison, Samuel H., Jr., to Food Machinery and Chemical Corp. Mechanical fruit counter. 2,953,881, 9-27-60, Cl. 53-78.
- Elliston, Edward E. Sadiron holder. 2,939,667, 6-7-60, Cl. 248-117.7.
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- Ellsworth, Arthur C., and R. M. Vancamp, to Columbia-Southern Chemical Corp. Perchloroethylene production. 2,951,103, 8-30-60, Cl. 260-654.
- Ellsworth, Carl E., to Chemetron Corp. Dielectric heating system. 2,923,801, 2-2-60, Cl. 219-10.55.
- Ellsworth, Frank H., to United States Steel Corp. Shielded oil well cable. 2,927,954, 3-8-60, Cl. 174-108.
- Ellsworth, Harold J.: See—
- Jensen, Arnold B., and Ellsworth. 2,956,413.
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- Keplinger, Orin C., Elmer, and Duncan. 2,953,539.
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- Elmer, William B., R. R. Rimer, and H. S. Reizenstein, to United States of America, Navy. Control systems. 2,960,054, 11-15-60, Cl. 114-20.
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- Posener, Armand L. A., and Elmore. 2,940,738.
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- Jones, James B., Elmore, and De Prisco. 2,946,120.
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- Elsner, Edwin C., to Aeroquip Corp. Jack operated buckle. 2,935,300, 5-3-60, Cl. 254-51.
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- Bundschuh, John J., and Elton. 2,936,687.
- Elvander, Hans I.: See—
- Johansson, Fritz A., Mokvist, Elvander, and Aminoff. 2,941,648.
- Elves, Douglas C., and C. W. Johnson. Polish rod rotator. 2,932,204, 4-12-60, Cl. 74-21.
- Elwell, Donald F., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,960,875, 11-22-60, Cl. 74-5.1.
- Elwell, Henry G., Jr., to The Bendix Corp. Time of flight indicator. 2,955,464, 10-11-60, Cl. 73-198.
- Elwell, Reed C. Triple plated hose. 2,934,923, 5-3-60, Cl. 66-188.
- Elwert, Otto: See—
- Franken, Gerhard E., and Elwert. 2,935,054.
- Elwood, Sam F. Perpetual calendar machine. 2,921,394, 1-19-60, Cl. 40-114.
- Elwood Research Co.: See—
- Freiberger, Herman. 2,943,377.
- Freiberger, Herman. 2,945,282.
- Elwood Research Co., The, a division of Audiger, Inc.: See—
- Olsen, Raymond B. 2,952,292.
- Ely, Albert R., J. D. Hayes, and R. W. Lawrence, to Hercules Powder Co. Explosive device. 2,944,485, 7-12-60, Cl. 102-24.
- Ely, James K., to Allegheny Ludlum Steel Corp. Grinders. 2,946,163, 7-26-60, Cl. 51-188.
- Ely, John O.: See—
- Broding, Robert A., Ely, and Summers. 2,949,973.



- Ely, Walter J., to Oldberg Mfg. Co. Apparatus for fabricating tubular shells. 2,929,914, 3-22-60, Cl. 219-78.
- Emanuel, Alan. Firing pin and breech bolt safety. 2,942,369, 6-28-60, Cl. 42-70.
- Emanuel, Carl F., and I. L. Chaikoff, said Chaikoff assor. to said Emanuel. Hydraulic tissue homogenizer. 2,928,614, 3-15-60, Cl. 241-39.
- Emanuel, Roberto. Vehicle washing plant. 2,936,770, 5-17-60, Cl. 134-123.
- Emary, Robert J., to The Colson Corp. Pallet entry device. 2,921,771, 1-19-60, Cl. 254-2.
- Embassy Steel Products, Inc.: See—  
Nelson, Elliott S. 2,963,276.
- Emblem, Harold G., and J. Aston, to Rolls-Royce Ltd. Precision casting. 2,930,089, 3-29-60, Cl. 22-193.
- Embree, Chester D. Lifting tong. 2,956,834, 10-18-60, Cl. 294-88.
- Embury, Joseph E., Sr., to Carrier Corp. Absorption refrigeration systems. 2,948,124, 8-9-60, Cl. 62-104.
- Emeis, Reiner: See—  
Rummel, Theodore, Kniepkamp, and Emeis. 2,964,396.
- Emeis, Reimer, to Siemens-Schuckertwerke Aktiengesellschaft. Encapsulated semiconductor device. 2,921,244, 1-12-60, Cl. 317-234.
- Emeis, Reimer, to Siemens-Schuckertwerke Aktiengesellschaft. Production of sintered bodies from powdered crystalline materials. 2,930,098, 3-29-60, Cl. 25-157.
- Emeis, Reimer, to Siemens-Schuckertwerke Aktiengesellschaft. Method and device for producing electric semiconductor devices. 2,960,419, 11-15-60, Cl. 148-15.
- Emeis, Reimer, to Siemens-Schuckertwerke Aktiengesellschaft. Electric semiconductor device of the p-n junction type. 2,960,640, 11-15-60, Cl. 317-235.
- Emeis, Reimer, and A. Herlet, to Siemens-Schuckertwerke Aktiengesellschaft. Silicon power transistor. 2,936,410, 5-10-60, Cl. 317-235.
- Emele, Otto. Filter press mechanism. 2,932,399, 4-12-60, Cl. 210-225.
- Emeny, George B. Drainage, sewage or process pump of the vertical wet pit type. 2,934,245, 4-26-60, Cl. 222-330.
- Emerson, Charles K.: See—  
Bass, George E., Martindell, and Emerson. 2,954,010.
- Emerson & Cuming, Inc.: See—  
Hutchins, Samuel F., and Robinson. 2,943,358.
- Emerson Electric Mfg. Co., The: See—  
Lindberg, Caryl A., and Lewis. 2,954,198.  
Mitchell, Ollie B. 2,958,079.  
Palmer, John A. 2,922,439.  
Royer, Neal B. 2,960,628.
- Emerson, Gordon G., J. E. Walton, and M. J. Carpenter; said M. J. Carpenter, assor. to A. M. E. Carpenter. Safety snubber. 2,965,941, 12-27-60, Cl. 24-133.
- Emerson, Howard D.: See—  
Gregory, James B., Emerson, and Moore. 2,965,086.
- Emerson, John: See—  
Hiaft, Gordon D., and Emerson. 2,940,901.
- Emerson, John R., to Fuller & Emerson Mfg. Co. Closure cap with cam and stop. 2,920,788, 1-12-60, Cl. 220-40.
- Emerson Radio & Phonograph Corp.: See—  
Abbot, Edward A. 2,935,707.  
Falconer, David G. 2,941,654.  
Kriemelmeyer, Harry, Jr. 2,941,653.  
Pollak, Philip, Jr. 2,928,387.  
Stewart, Merrick W. 2,929,490.  
Stovall, Milton A. 2,961,085.
- Emery, A. H., Co.: See—  
Bradley, Chester D. 2,960,113.  
Tate, Malcolm C. 2,960,328.
- Emery, Edgar F., to Insuloid Mfg. Co. Ltd. Mounting devices for cables, conduits, and the like. 2,961,211, 11-22-60, Cl. 248-74.
- Emery Industries, Inc.: See—  
Myers, Latimer D., Goebel, and Barrett. 2,955,121.  
Piepmeyer, Joseph A. 2,944,964.  
Ruddick, Ronald B. 2,934,547.  
Shields, William H., and Buckley. 2,944,920.
- Emery, Leonard W., to Sinclair Oil & Gas Co. Ignition of fuel for lighting a well. 2,941,595, 6-21-60, Cl. 166-38.
- Emery, Neville R. Hydraulic slack adjusting device. 2,958,401, 11-1-60, Cl. 188-198.
- Emery, William M. Mattress extenders. 2,958,874, 11-8-60, Cl. 5-345.
- Emhart Mfg. Co.: See—  
Charron, Arthur A. 2,956,464.  
Dahms, Francis A. 2,938,626.  
Giffen, James L. Re. 24,905.  
Maxim, Hiram H. 2,925,597.  
Richey, David M. 2,940,539.  
Wythe, Frederick J. 2,950,571.
- Emico Corp., The: See—  
Schepman, Berne A. 2,960,233.
- Emile, Philip, Jr.: See—  
Talkin, Albert I., Gordon, and Emile. 2,924,786.
- Eminger, Robert J., to Fort Wayne Tool Die & Engineering Co. High speed stator winding apparatus. 2,949,789, 8-23-60, Cl. 74-23.
- Emling, Leo B. Gravity liquid fertilized distributor. 2,955,727, 10-11-60, Cl. 222-176.
- Emmerich, Claude L., to United Aircraft Corp. Digital gyroscope torquer. 2,937,532, 5-24-60, Cl. 74-5.4.
- Emmerich, Heinz, to Firma Kleinmotoren G.m.b.H. Portable spraying apparatus. 2,958,155, 11-1-60, Cl. 43-148.
- Emmerling, Ralph W., to United States Ceramic Tile Co. Saggars. 2,923,997, 2-9-60, Cl. 25-153.
- Emmerson, John O., and O. F. Polleys, to The Kaman Aircraft Corp. Mechanism for correcting lift differences in a helicopter rotor. 2,960,168, 11-15-60, Cl. 170-160.13.
- Emmert, Emery M., to Kentucky Research Foundation. Method of treating tomato plants employing a mixture of beta-naphthoxyacetic acid and boron. 2,950,182, 8-23-60, Cl. 71-2.1.
- Emmert, Ernest G.: See—  
Torstenson, Stig A., and Emmert. 2,931,977.
- Emmert, George W., to Federal Tool Corp. Tape dispenser. 2,921,493, 1-19-60, Cl. 83-611.
- Emmert, Rodger J., to General Motors Corp. Electrostatic coating apparatus with automatic self-wiping means. 2,923,272, 2-2-60, Cl. 118-4.
- Emmett, Robert C.: See—  
Dahlstrom, Donald A., and Emmett. 2,941,942.
- Emmick, Frank C., and W. J. Saco, to Caribbean Products Corp. Floation device. 2,935,751, 5-10-60, Cl. 9-339.
- Emminger, Francis J.: See—  
Fowle, Irving H., and Emminger. 2,930,516.
- Emmons, Arthur N., to The Porter-Cable Machine Co. Portable power operated router. 2,943,654, 7-5-60, Cl. 144-134.
- Emmons, Lehman G. Fireplace basket construction. 2,939,451, 6-7-60, Cl. 126-165.
- Emmons, Neal L., to Reynolds Metals Co. Portable collapsible derricks. 2,920,725, 1-12-60, Cl. 189-11.
- Emmons, Nelson, III, to The Sheffield Corp. Pneumatic gagling circuit. 2,953,014, 9-20-60, Cl. 73-37.8.
- Emmons, Nelson, III, to The Sheffield Corp. Pneumatic gagging apparatus. 2,960,774, 11-22-60, Cl. 33-147.
- Emmott, Joseph G., to Foundry Services International Ltd. Method of removing hydrogen from molten metal. 2,956,873, 10-18-60, Cl. 75-93.
- Emond, Robert E., to Esso Research and Engineering Co. Thermostable wood preservative containing pentachlorophenol. 2,955,945, 10-11-60, Cl. 106-15.
- Empire Brushes, Inc.: See—  
Brucker, John. 2,942,900.  
Schwartz, Harold H. 2,923,035.
- Empire Devices, Inc.: See—  
Lorch, Joseph. 2,932,802.
- Empire Tool & Mfg. Co., The: See—  
Schauster, Joseph A. 2,956,673.
- Empire Works: See—  
Wiederhold, Harold C. 2,965,426.
- Emrey, Charles H., to Simonds Saw and Steel Co. High temperature alloy. 2,955,934, 10-11-60, Cl. 75-134.
- Emrick, Clyde L., to Federal Paper Board Co., Inc. Display device. 2,955,706, 10-11-60, Cl. 206-45.14.
- Emrick, Dorothea A.: See—  
Emrick, Melvin H. 2,930,261.  
Emrick, Melvin H. 2,959,974.  
Emrick, Melvin H. 2,960,341.
- Emrick, Melvin H.; D. A. Emrick, executrix. High powered spindle operating unit for drilling and tapping machines. 2,930,261, 3-29-60, Cl. 77-33.5.
- Emrick, Melvin H., deceased; D. A. Emrick, executrix. Forward and reverse friction drive tapping attachment. 2,959,974, 11-15-60, Cl. 74-379.
- Emrick, Melvin H., deceased; D. A. Emrick, executrix. Universal link drive for multiple chuck heads. 2,960,341, 11-15-60, Cl. 279-1.
- Emsig Mfg. Co.: See—  
Emsig, Sidney. 2,939,191.  
Troil, William A. 2,934,032.
- Emsig, Sidney, to Emsig Mfg. Co. Button. 2,939,191, 6-7-60, Cl. 24-90.
- Emslie, Norman M., and R. E. Kronenbitter, to Philco Corp. Tape handling apparatus. 2,934,394, 4-26-60, Cl. 346-74.
- Emte, Werner: See—  
Benning, Anton, Emte, Grosskinsky, and Frubhuss. 2,966,514.
- Enander, Bengt N., to Radio Corp. of America. Traveling wave tube. 2,964,669, 12-13-60, Cl. 315-3.5.
- Enbee Transparent Specialty Co., Inc.: See—  
Engelstein, Stanley. 2,937,483.
- Enblom, Emmett A., 50% to B. M. Britt and 50% to said Enblom. Child's amusement device. 2,961,252, 11-22-60, Cl. 280-47.39.
- En Dean, Howard J., J. D. Jones, and E. Topanelian, Jr., to Gulf Research & Development Co. Pipeline surveying. 2,924,966, 2-16-60, Cl. 73-40.5.
- En Dean, Howard J., J. D. Jones, and E. Topanelian, Jr., to Gulf Research & Development Co. Pipeline leak surveying. 2,951,362, 9-6-60, Cl. 73-40.5.
- Endermann, Fritz: See—  
Neugebauer, Wilhelm, Süss, and Endermann. 2,959,482.
- Enders, Adolf: See—  
Seirig, Alfred K., Enders, and Strunck. 2,948,997.
- Enders, Edgar, and A. Müller, to Farbenfabriken Bayer Aktiengesellschaft. Coumarin derivatives and their production. 2,952,689, 9-13-60, Cl. 260-343.2.
- Enders, Max L. Structures useful in micrometer calipers. 2,932,898, 4-19-60, Cl. 33-164.
- Enders, Max L. Steering aid. 2,932,982, 4-19-60, Cl. 74-557.



- Endicott, Clarence J., W. T. Martin, and W. Lowenthal, to Abbott Laboratories. Thin film coating for tablets and the like. 2,954,323, 9-27-60, Cl. 167-82.
- Endicott Johnson Corp.: *See*—  
Sweeney, Frank B. 2,943,337.
- Endicott Machine & Tool Co. Inc.: *See*—  
Thomas, Orrin H., and Marconi. 2,938,304.
- Endlich, Rose. Combination kit and brush rack. 2,940,200, 6-14-60, Cl. 41-4.
- Endo Laboratories Inc.: *See*—  
Schlesinger, Albert, and Gordon. 2,949,470.  
Schlesinger, Albert, and Gordon. 2,954,383.  
Weiner, Nathan, and Gordon. 2,962,499.
- Endres, Berniece: *See*—  
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- Endres, Donald: *See*—  
Blocker, Leo R. 2,928,484.
- Endres, Gloria: *See*—  
Blocker, Leo R. 2,928,484.
- Endres, Herbert A., and W. F. Winters, to The Goodyear Tire & Rubber Co. Rubberized mineral-tar composition and process of making same. 2,921,919, 1-19-60, Cl. 260-28.5.
- Endres, Johann, to The Messerschmitt A.G. Free-piston compressors. 2,945,618, 7-19-60, Cl. 230-56.
- Endres, Richard O., to Radio Corp. of America. Memory systems. 2,962,899, 11-29-60, Cl. 340-174.
- Endres, Richard O., and E. Eberhard, to Radio Corp. of America. Semi-conductor oscillators. 2,931,898, 4-5-60, Cl. 250-20.
- Endres, Rodell: *See*—  
Blocker, Leo R. 2,928,484.
- Endress, Rudi: *See*—  
Dinkel, Anton, and Endress. 2,929,642.
- Endrezze, William E. Radial expanding taper formed movable fins for missiles or torpedoes. 2,959,143, 11-8-60, Cl. 114-20.
- Endrezze, William E., and E. L. Reed. Cabinet fixture apparatus for feminine hygiene. 2,922,421, 1-26-60, Cl. 128-227.
- Endsdown Co.: *See*—  
Liebowitz, Benjamin. 2,964,756.
- Endter, Friedrich, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Furnace closure. 2,922,386, 1-26-60, Cl. 110-98.
- Enell, Milton J.: *See*—  
Hughes, Wilbur B., and Enell. 2,940,301.
- Enell, Milton J., to Truckstell Products Co. Radiator cap testing device. 2,940,303, 6-14-60, Cl. 73-45.8.
- Energy Machine Co., Inc.: *See*—  
Thoele, Lawrence J. 2,962,847.
- Enerus, Erik O., to K.E. Patenter AB. Means for cleaning heating surfaces in economizers and similar equipment. 2,962,264, 11-29-60, Cl. 257-1.
- Enfield, Robert E. Spear guns. 2,957,468, 10-25-60, Cl. 124-11.
- Eng, Albert: *See*—  
Devand, Albert J., and Eng. 2,954,265.
- Eng, Jackson, and S. B. Baker, to Esso Research and Engineering Co. Process for chlorinating hydrocarbons using chlorine adsorbed on zeolite. 2,956,084, 10-11-60, Cl. 260-651.
- Engdahl, Gordon W., to Minnesota Mining and Mfg. Co. Dust cloth. 2,955,962, 10-11-60, Cl. 117-140.
- Engel, Charles F. Sheet metal shear having dual tractive cutters. 2,946,251, 7-26-60, Cl. 83-488.
- Engel, Edward. Ignition systems. 2,953,720, 9-20-60, Cl. 315-209.
- Engel, Edward W.: *See*—  
Weschler, Joseph R., Engel, and Lagally. 2,947,658.
- Engel, Eric: *See*—  
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- Engel, Howard L.: *See*—  
Adamson, Phil A., Engel, and Nelson. 2,936,116.
- Engel, James S.: *See*—  
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Pickles, Sidney B., and Engel. 2,938,208.
- Engel, John H., and C. E. Bellinger, to Phillips Petroleum Co. Distillation method and vessel. 2,938,866, 5-31-60, Cl. 208-352.
- Engel, Karl. Protection of machine tools. 2,934,861, 5-3-60, Cl. 51-2.
- Engel, Ralph D., to Air Reduction Co., Inc. Welding torch. 2,951,934, 9-6-60, Cl. 219-130.
- Engel, Royce G., Jr., to General Motors Corp. Fuel injector with pilot injection. 2,951,643, 9-6-60, Cl. 239-90.
- Engel, Willem F., and P. Krijger, to Shell Development Co. Process for decolorizing a hydrocarbon oil using an alumina adsorbent. 2,926,135, 2-23-60, Cl. 208-306.
- Engel, William J., to United-Carr Fastener Corp. Printed wire socket. 2,922,978, 1-26-60, Cl. 339-17.
- Engel, Willy, W. Breuninger, and T. W. Leitz, to J. M. Voith, Maschinenfabrik G.m.b.H. Thickening apparatus for fibrous suspensions. 2,919,751, 1-5-60, Cl. 162-308.
- Engelbach, Thomas J., to Borne Chemical Co., Inc. Solid composite propellants prepared from depolymerized rubber. 2,953,446, 9-20-60, Cl. 52-0.5.
- Engelbart, Douglas C.: *See*—  
Bennion, David R., and Engelbart. 2,936,445.
- Engelbart, Douglas C., to Digital Techniques, Inc. Electric discharge device. 2,923,853, 2-2-60, Cl. 315-84.6.
- Engelbart, Douglas C., to Digital Techniques, Inc. Luminous display device. 2,925,530, 2-16-60, Cl. 315-84.6.
- Engelbart, Douglas C., to Digital Techniques, Inc. Glow discharge devices. 2,937,317, 5-17-60, Cl. 315-84.6.
- Engelberger, Joseph F., to Manning, Maxwell & Moore, Inc. Method of assembling a limp diaphragm actuator. 2,948,060, 8-9-60, Cl. 29-454.
- Engelberger, Joseph F., J. F. Miles, and F. J. Walker, to Consolidated Controls Corp. Power booster. 2,960,070, 11-15-60, Cl. 121-41.
- Engelbrecht, Alfred F., to Pennsalt Chemicals Corp. Process for the preparation of perchloryl fluoride. 2,942,947, 6-28-60, Cl. 23-203.
- Engelfried, Otto, E. Kaspar, M. Schenck, and A. Popper, to Schering A.G. Therapeutically valuable carboxylic acid esters of 17-alkyl-19-nor-testosterone. 2,964,537, 12-13-60, Cl. 260-397.4.
- Engelgau, Willard G., to St. Regis Paper Co. Method and means of supercalendering. 2,926,600, 3-1-60, Cl. 100-41.
- Engelhard, George J., to General Motors Corp. Vibration dampening vehicle frame construction. 2,965,414, 12-20-60, Cl. 296-35.
- Engelhard, Hermann, C. Credner, and G. Renwanz. N-(2-pyridyl) - N - p - bromobenzyl - N' - methyl - N' - ethyl-ethylenediamine. 2,952,686, 9-13-60, Cl. 260-296.
- Engelhard Industries, Inc.: *See*—  
Andersen, Holger C., and Steele. 2,965,439.  
Anderson, Edward P. 2,926,320.  
Anderson, Edward P. 2,934,484.  
Anderson, Edward P. 2,934,953.  
Anderson, Edward P. 2,944,236.  
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Bird, Lester F. 2,926,287.  
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Boily, Norman E., and Mason. 2,926,326.  
Cohn, Johann G. E., Haley, and Shields. 2,927,141.  
Fish, Donald H. 2,947,829.  
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Hill, James S. 2,947,114.  
Jones, Sherwood P., and Keenan. 2,925,647.  
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Langhans, Otto W. 2,960,197.  
Lincoln, Arnold J. 2,947,623.  
Packard, George D. 2,965,007.  
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Zajcew, Mykola. 2,948,742.
- Engelhardt, William E. High temperature heat treatment of metals. 2,931,636, 4-5-60, Cl. 263-41.
- Engelhardt, Armin E. Shaft clamping devices. 2,940,783, 6-14-60, Cl. 287-56.
- Engelhardt, Edward L.: *See*—  
Sprague, James M., and Engelhardt. 2,951,082.
- Engelhardt, Heinz, to Hartmann & Braun Aktiengesellschaft. Instrument for gas analysis. 2,944,418, 7-12-60, Cl. 73-27.
- Engelhardt, Vaughn A., and H. E. Winberg, to E. I. du Pont de Nemours and Co. Copolymers of o-acrylyl phenols and chelates thereof. 2,961,426, 11-22-60, Cl. 260-47.
- Engelhardt, Walter D., to Beckman Instruments, Inc. Comb winding guide. 2,956,754, 10-18-60, Cl. 242-9.
- Engelhardt, Walter L.: *See*—  
Swenson, Oscar F. 2,940,744.
- Engelmann, Herbert F.: *See*—  
Grieg, Donald D., Engelmann, and Kostriza. 2,951,149.
- Engelmann, Herbert F., to International Telephone and Telegraph Corp. Antenna array. 2,962,716, 11-29-60, Cl. 343-720.
- Engelmann, Herbert F., and M. Arditl, to International Telephone and Telegraph Corp. Adjustable attenuator. 2,924,793, 2-9-60, Cl. 333-81.
- Engelmann, Richard H., to J. P. Hayden. Vane actuating circuitry for automatic headlighting system. 2,941,118, 6-14-60, Cl. 315-82.
- Engels, Walter, to Bommer Spring Hinge Co., Inc. Hold open devices for double acting floor hinges. 2,964,782, 12-20-60, Cl. 16-185.
- Engels, Walter, to Bommer Spring Hinge Co., Inc. Hold open devices for single acting floor hinges. 2,964,783, 12-20-60, Cl. 16-185.
- Engelsmann, Dieter, to Agfa Aktiengesellschaft. Pointer control structure for cameras having exposure meters. 2,920,542, 1-12-60, Cl. 95-10.
- Engelson, Harry E., and E. A. Hartbauer, to F. B. Redington Co. Article bunching and detecting apparatus. 2,920,737, 1-12-60, Cl. 198-29.
- Engelsted, John N. Work support having independent tilting adjustments about a plurality of axes. 2,944,858, 7-12-60, Cl. 311-38.
- Engelstein, Stanley, to Enbee Transparent Specialty Co., Inc. Automatic micro-jacket film inserter. 2,937,483, 5-24-60, Cl. 53-123.



- Enger-Kress Co.: *See*—  
Tacke, William H. P. 2,954,867.
- Engesser, Valentine, to M. Aicheler. Vibration damper for automobile doors. 2,961,692, 11-29-60, Cl. 16-86.
- Engl, Casper H. Collapsible miniature house. 2,951,312, 9-6-60, Cl. 46-19.
- Engelhardt, Richard K.: *See*—  
Alfery, Henry F., and Engelhardt. 2,966,162.
- Engelhardt, Richard K., to Erie Manufacturing Co. Direct salting system for water softeners. 2,948,398, 8-9-60, Cl. 210-130.
- Engl, Walter, to Adolf Ditting. Coffee grinder. 2,955,768, 10-11-60, Cl. 241-66.
- Engine Parts Mfg. Co., The: *See*—  
Rogers, Edmund. Re. 24,863.
- Engineered Products Co., The: *See*—  
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- Engineered Specialties Corp.: *See*—  
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- Engineering Research and Application Ltd.: *See*—  
Hodkin, David. 2,939,401.  
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- Engineering & Research Lab. Service Co.: *See*—  
Dillman, Edward E., and Ringo. 2,919,764.  
Dillman, Edward E., Ringo, and Boston. 2,919,766.  
Moore, Cecil L. 2,955,541.
- England, David C.: *See*—  
Applequist, Douglas E., and England. 2,940,984.
- Englander Co., Inc., The: *See*—  
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Koenigsberg, Max. 2,927,330.  
Koenigsberg, Max. 2,940,089.
- Engle, Charles J.: *See*—  
Marwil, Stanley J., and Engle. 2,919,898.
- Engle, Charles J., and S. J. Marwil, to Phillips Petroleum Co. Extracting and analyzing gas from well drilling mud. 2,923,151, 2-2-60, Cl. 73-153.
- Engle, Fred B., to Eaton Mfg. Co. Adjustable multiple switch mechanism. 2,958,744, 11-1-60, Cl. 200-1.
- Engle, James P., to The Dow Chemical Co. Scale removal from ferrous metal surfaces. 2,965,523, 12-20-60, Cl. 134-27.
- Engle, William E.: *See*—  
O'Keefe, John M., Engle, and Donnelly. 2,956,280.
- Englehardt, Gustave O., and R. E. Beaulac. Boat trailer. 2,944,835, 7-12-60, Cl. 280-482.
- Englehart, Oscar D.: *See*—  
Takenaka, Fred T., and Englehart. 2,945,268.
- Engleman, Henry, to Bell Telephone Laboratories, Inc. Q-meter circuit. 2,929,988, 3-22-60, Cl. 324-57.
- Engler, John F. Mowing device. 2,952,961, 9-20-60, Cl. 56-25.4.
- Engler, John F. Mower blade. 2,963,844, 12-13-60, Cl. 56-295.
- Englert, Ralph A., to Sylvania Electric Products Inc. Grid reshaping. 2,954,060, 9-27-60, Cl. 140-71.5.
- Engleson, Harry E., and E. A. Hartbauer, to F. B. Redington Co. Detector mechanism. 2,922,504, 1-26-60, Cl. 192-125.
- Engleson, Harry E., and E. D. Sramek, to F. B. Redington Co. Article detecting mechanism. 2,934,869, 5-3-60, Cl. 53-57.
- Engleson, Harry E., and E. D. Sramek, to F. B. Redington Co. Double ejector. 2,954,115, 9-27-60, Cl. 198-221.
- Engleson, Harry E., and E. D. Sramek, to F. B. Redington Co. Package liner. 2,959,335, 11-8-60, Cl. 229-14.
- Engleson, Harry E., and E. D. Sramek, to F. B. Redington Co. Carton erecting and expanding mechanism. 2,966,100, 12-27-60, Cl. 93-53.
- Englesson, John E. Hatch operating device. 2,930,434, 3-29-60, Cl. 160-188.
- Englesson, Sixten,  $\frac{1}{2}$  to AB Flygts Pumpar. Sealing device. 2,950,931, 8-30-60, Cl. 286-8.
- English, Arthur R.: *See*—  
Conover, Lloyd H., English, and Larrabee. 2,921,073.
- English, Charles L. Oil well pump. 2,943,576, 7-5-60, Cl. 103-46.
- English, Daniel R.: *See*—  
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- English Electric Co. Ltd., The: *See*—  
Creasey, Raymond F., Heath, and Walmsley. 2,956,759.  
Deriaz, Paul. 2,949,277.  
Fenimore, Alan S., and Reece. 2,920,571.  
Frankel, Adolf. 2,921,770.  
Fry, John A. 2,941,205.  
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Loret, Jerzy A., Morris, Mayne, and Bett. 2,953,414.  
Rawson, Peter J., and Chisholm. 2,964,061.  
Richards, Wilfred A., Price, and Davis. 2,963,651.  
Scorgie, Guy C. 2,932,467.  
Sharples, Geoffrey F. 2,925,968.  
Shillitto, Arthur, Watts, and Billingham. 2,930,744.  
Simmons, Anthony T. F. 2,941,373.  
Smith, John W. F. 2,924,753.  
Stubbs, John J., Watts, and Ingham. 2,949,415.  
Swanwick, Barry F. 2,938,973.  
Warrington, Albert R. V. 2,929,003.  
Willis, John. 2,953,722.
- English Electric Valve Co. Ltd.: *See*—  
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Esterson, Maurice. 2,958,005.  
Frank, Kurt J. 2,932,588.  
Kompfner, Rudolf. 2,928,979.  
Lake, Ronald E., and Menown. 2,953,716.  
Tippie, Peter M. 2,960,639.  
Turk, Walter E., and Hendry. 2,923,843.  
Weaver, Francis J. 2,965,782.
- English, Lawrence P.: *See*—  
Kelemen, Frank K., English, and Darlington. 2,938,105.
- English, Le Roy F., to Lockheed Aircraft Corp. Combined speed brake, escape hatch and baggage access door for aircraft. 2,942,813, 6-28-60, Cl. 244-129.
- English, Le Roy F., and E. C. Willoughby, Jr., to Lockheed Aircraft Corp. Vehicular rotating warning beacon light. 2,936,441, 5-10-60, Cl. 340-50.
- English Numbering Machines Ltd.: *See*—  
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- English Rose Ltd.: *See*—  
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- Englund, Arvid E., Jr., to General Electric Co. Protection arrangement in transistor circuit. 2,956,240, 10-11-60, Cl. 331-62.
- Englund, Gosta R., and M. E. Mattsson. Cash registers, accounting and like machines. 2,950,758, 8-30-60, Cl. 164-111.
- Englund, Stanley M.: *See*—  
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- Engnell, Kaute O. Wheeled support for boats. 2,966,868, 12-27-60, Cl. 280-179.
- Enquist, Arne, to Aktiebolaget Bahco. Torque wrenches. 2,934,946, 5-3-60, Cl. 73-139.
- Enquist, Arne, to Aktiebolaget Bahco. Multiple grip wrench. 2,951,405, 9-6-60, Cl. 81-53.
- Engstrand, John C. Locks for crescent wrenches. 2,955,498, 10-11-60, Cl. 81-165.
- Engstrom, Carl F., and W. J. Shevock, to United States Rubber Co. Pneumatic tire. 2,960,139, 11-15-60, Cl. 152-354.
- Engstrom, William A., to Continental Motors Corp. Automatic carburetor adjustment for burning of different fuels. 2,930,432, 3-29-60, Cl. 158-36.
- Engvall, Earl H. Potato bagging machine. 2,937,844, 5-24-60, Cl. 249-31.
- Enikeieff, Oleg C., to Harry C. Miller Co. Communication and paging system. 2,921,141, 1-12-60, Cl. 179-82.
- Enikeieff, Oleg C., to Harry C. Miller Co. Radiation signal detector. 2,963,576, 12-6-60, Cl. 250-1.
- Enk, Eduard, and J. Nickl, to Wacker-Chemie G.m.b.H. Method of producing extremely pure silicon. 2,938,772, 5-31-60, Cl. 23-223.5.
- Enka Corp.: *See*—  
Allman, Grady W., Sanford, and Henry. 2,929,178.
- Enkelmann, Walter, to Unicorn Engineering Corp. Friction drive. 2,939,700, 6-7-60, Cl. 271-2.3.
- Enkelmann, Walter, H. L. Baumbach, and A. L. Ford, to Unicorn Engineering Corp. Core type handling mechanism for photographic processing machine. 2,951,651, 9-6-60, Cl. 242-55.
- Enlow, Louis H., to Arizona Research Foundation. Wide-band transistor amplifier. 2,957,143, 10-18-60, Cl. 330-30.
- Enna-Werk Optische Anstalt Dr. Appelt K.G.: *See*—  
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- Ennis, John L., to Arthur D. Little, Inc. Corrosion inhibitors. 2,947,599, 8-2-60, Cl. 21-2.5.
- Ennor, William T.: *See*—  
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- Eno, Robert F., to North American Aviation, Inc. Magnetic modulator. 2,934,718, 4-26-60, Cl. 332-51.
- Enomoto, Hajime: *See*—  
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- Enos, John P., to The Singer Mfg. Co. Buttonhole attachment for sewing machines. 2,927,547, 3-8-60, Cl. 112-77.
- Enos, John P., to The Singer Manufacturing Co. Feed cover-plates for sewing machines. 2,948,244, 8-9-60, Cl. 112-260.
- Enrich, Henry A., to Henry A. Enrich & Co., Inc. Garment bags. 2,961,091, 11-22-60, Cl. 206-7.
- Enrich, Henry A., & Co., Inc.: *See*—  
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- Enright, Marion E. Two wheeled coaster vehicle for transporting golf clubs. 2,926,927, 3-1-60, Cl. 280-87.02.
- Enright, William F. Eye-shade and ear-plug device. 2,942,270, 6-28-60, Cl. 2-15.
- Ensaka, Isao: *See*—  
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- Ensch, Thomas B.: *See*—  
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- Ensign, Angus C.: *See*—  
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- Ensign, Angus C., Jr., and R. A. Heinrich, to Minneapolis-Honeywell Regulator Co. Alternate action arrangement. 2,956,446, 10-18-60, Cl. 74-503.
- Ensign-Bickford Co., The: *See*—  
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- Ensign, George G., and T. L. Boswell, to Elgin National Watch Co. Stacked cell assembly. 2,928,892, 3-15-60, Cl. 136-111.
- Ensinger, Raymond L.: *See*—
- Stroh, George B., Ensinger, and Cowles. 2,944,537.
- Ensink, Johannes: *See*—
- Hermes, Willem, and Ensink. 2,951,993.
- Ensink, Johannes, to North American Philips Co., Inc. Arrangement for transmitting audio-frequency signal and ringing signals below the audio-frequency band. 2,941,041, 6-14-60, Cl. 179-16.
- Ensink, Johannes, to North American Philips Co., Inc. Variable input impedance circuit arrangement. 2,952,783, 9-13-60, Cl. 307-88.5.
- Ensink, Johannes, and A. Klaassen, to North American Philips Co., Inc. Transistor push-pull amplifying circuit arrangements. 2,931,986, 4-5-60, Cl. 330-15.
- Ensink, Johannes, and J. Verhagen, to North American Philips Co., Inc. Cascade amplifier. 2,931,987, 4-5-60, Cl. 330-17.
- Ensminger, Clarence W.: *See*—
- Johnson, Axel E. F., and Ensminger. 2,958,555.
- Ensor, Alfred J. Apparatus suitable for the winding of wires and yarns. 2,955,770, 10-11-60, Cl. 242-25.
- Enster, Louis G., d.b.a. Eneco Enterprises: *See*—
- Robbins, Roy F. 2,952,028.
- Enterkin, Charles R., 33 $\frac{1}{2}$ % to O. L. Davis. Kite parachute. 2,936,545, 5-17-60, Cl. 46-86.
- Enterprise Division of General Metals Corp., The: *See*—
- Morris, Donald W. 2,939,339.
- Enterprise Machine and Development Corp.: *See*—
- Appleby, David K. 2,940,765.
- Enterprise Paint Mfg. Co.: *See*—
- Beck, Edward S. 2,952,655.
- De Beers, Franklin M., Jr. 2,923,431.
- Enterprise Railway Equipment Co.: *See*—
- Dorey, George B. 2,926,962.
- Dorey, George B. 2,926,963.
- Dorey, George B. 2,950,144.
- Dorey, George B. 2,950,145.
- Dorey, George B. 2,962,325.
- Koranda, Clarence J., and Fritz. 2,950,143.
- Oliver, Roy F. Re. 24,916.
- Envo-Bill Corp.: *See*—
- Hilliard, David P. 2,931,559.
- Eoff, William G. Refrigerator door closure preventive means. 2,927,546, 3-8-60, Cl. 109-63.5.
- Eolkin, Dave, to Gerber Products Co. Continuous viscosimeter. 2,934,944, 5-3-60, Cl. 73-55.
- Eolkin, Dave, to Gerber Products Co. Continuous consistometer and method of measuring liquiform product consistency continuously. 2,948,145, 8-9-60, Cl. 73-54.
- Eolkin, Dave, to Gerber Products Co. Continuous densitometer. 2,949,027, 8-16-60, Cl. 73-32.
- Eon Corp., The: *See*—
- Eason, Winfield S. 2,942,897.
- Epain, Raymond, P. Johannin, and B. Vodar, to Centre National de la Recherche Scientifique. Packing devices for needle valves. 2,948,556, 8-9-60, Cl. 286-26.
- Epeneter, Leon A. Dispensing holder for rolled material. 2,948,486, 8-9-60, Cl. 242-55.55.
- Epes, William R.: *See*—
- Thornburg, Harold A., Epes, and Jones. 2,936,020.
- Epperly, Jean R., H. C. Zeisig, Jr., T. R. Hopkins, and R. P. Neighbors, to Spencer Chemical Co. Compositions and methods for controlling plant rust. 2,920,994, 1-12-60, Cl. 167-30.
- Epply, Keith W.: *See*—
- Julian, Clarence L., Epply, and Norris. 2,945,923.
- Epprecht, Edward H., to American Instrument Co., Inc. Gas-liquid mixing apparatus. 2,928,665, 3-15-60, Cl. 261-87.
- Epps, Tolbert N., Jr.: *See*—
- Newell, Alfred T., Jr., and Epps. 2,938,449.
- Epsco, Inc.: *See*—
- Gordon, Bernard M. 2,925,555.
- Gordon, Bernard M. 2,926,848.
- Gordon, Bernard M. 2,927,271.
- Gordon, Bernard M. 2,938,172.
- Gordon, Bernard M. 2,939,096.
- Gordon, Bernard M. 2,951,202.
- Gordon, Bernard M. 2,951,986.
- Gordon, Bernard M., Durocher, and Sico. 2,943,313.
- Gordon, Bernard M., and Kincald. 2,962,214.
- Gordon, Bernard M., and Meyer. 2,935,704.
- Gordon, Bernard M., and Talambiras. 2,931,000.
- Lucas, Paul G. 2,941,155.
- Young, Frink M. 2,960,668.
- Young, Frink M., Gordon, and Rigby. 2,961,611.
- Epstein, Henry D., to Texas Instruments Inc. Thermostatic switch. 2,951,137, 8-30-60, Cl. 200-113.
- Epstein, Henry D., to Texas Instruments Inc. Method of making electrical heating assembly. 2,960,757, 11-22-60, Cl. 29-155.71.
- Epstein, Herman: *See*—
- Begovich, Nicholas A., Epstein, and Reed. 2,952,845.
- Innes, Frank T., Epstein, and Phelps. 2,931,688.
- Epstein, Herman, to Burroughs Corp. Binary storage means. 2,922,143, 1-19-60, Cl. 340-174.
- Epstein, Herman. Crystal driven dental tool. 2,947,082, 8-2-60, Cl. 32-46.
- Epstein, Herman, to Burroughs Corp. Page printing apparatus. 2,955,894, 10-11-60, Cl. 346-74.
- Epstein, Herman, to Burroughs Corp. Recording by means of electric charges. 2,956,852, 10-18-60, Cl. 346-74.
- Epstein, Herman, and O. B. Stram, to Burroughs Corp. Mounting for magnetic heads. 2,957,051, 10-18-60, Cl. 179-100.2.
- Epstein, Louis S.: *See*—
- Melman, George J., and Epstein. 2,958,012.
- Epstein, Melvin. Self-loading fastener means. 2,952,851, 9-20-60, Cl. 1-46.
- Epstein, Milton: *See*—
- Hachmeister, Ernest G., and Epstein. 2,961,632.
- Epstein, Saul. Hanger for triple wall vent pipe. 2,936,979, 5-17-60, Cl. 248-57.
- Epstein, Saul. Round vent pipe coupling construction. 2,936,184, 5-10-60, Cl. 285-81.
- Epstein, Saul. Construction for intermediate wall vent pipe. 2,947,303, 8-2-60, Cl. 126-307.
- Epstein, Saul. Electromagnetic fluid pressure responsive device. 2,959,962, 11-15-60, Cl. 73-398.
- Epstein, Saul. Spacer for triple wall vent pipe. 2,962,053, 11-29-60, Cl. 138-77.
- Epsylon Research & Development Co. Ltd.: *See*—
- Namenyi-Katz, Laszlo. 2,923,779.
- Namenyi-Katz, Laszlo. 2,960,611.
- Epsztejn, Bernard: *See*—
- Dohler, Oscar, and Epsztejn. 2,920,227.
- Epsztejn, Bernard, to Compagnie Generale de Telegraphie Sans Fil. Backward flow travelling wave oscillators. 2,932,760, 4-12-60, Cl. 315-3.5.
- Epsztejn, Bernard, to Compagnie Generale de Telegraphie Sans Fil. Traveling wave tube. 2,932,761, 4-12-60, Cl. 315-3.6.
- Epsztejn, Bernard, to Compagnie Generale de Telegraphie Sans Fil. Travelling wave tube amplifier. 2,942,143, 6-21-60, Cl. 315-3.5.
- Equipment Mfg., Inc.: *See*—
- Carey, Walter F., and Nagy. 2,962,250.
- Laird, Joseph P. 2,954,197.
- Wroblewski, Richard E., and Nolen. 2,948,409.
- Equitable Paper Bag Co. Inc.: *See*—
- Davis, John. 2,925,951.
- Erard, Thomas G.: *See*—
- Santelli, T. Robert, and Erard. 2,948,636.
- Erasmus, Hendrik de W., and H. Leuenberger, to Union Carbide Corp. Lime kiln. 2,933,297, 4-19-60, Cl. 263-30.
- Erath, Louis W.: *See*—
- Hefer, Friedrich W., Madeley, and Erath. 2,951,977.
- Erath, Louis W., and L. J. Stroman, to Dresser Industries, Inc. Electrostatic means for indicating voltage amplitude. 2,942,187, 6-21-60, Cl. 324-109.
- Erath, Philip D., to Hughes Aircraft Co. Electrical component lead preparation apparatus. 2,964,088, 12-13-60, Cl. 153-32.
- Erb, Ernst. Apparatus for forming yarns and thread into packages. 2,958,920, 11-8-60, Cl. 28-21.
- Erb, Karl F. Pressure relief valve. 2,932,308, 4-12-60, Cl. 137-70.
- Erbaugh, Lowell E., and J. D. Calfee, to Monsanto Chemical Co. High pressure polymerization of styrene. 2,921,932, 1-19-60, Cl. 260-85.5.
- Erbguth, Paul F. K., to Daystrom, Inc. Pneumatic system responsive to changes in a variable condition. 2,921,595, 1-19-60, Cl. 137-85.
- Erbguth, Paul F. K., to Daystrom, Inc. Pipe coupling for a pneumatic follow-up system. 2,947,553, 8-2-60, Cl. 285-133.
- Erbguth, Paul F. K., and S. M. Van Pelt, to Daystrom, Inc. Electro-pneumatic vane and bellows system with feedback arrangement. 2,921,596, 1-19-60, Cl. 137-85.
- Erbguth, Paul F. K., and S. M. Van Pelt, to Daystrom, Inc. Pneumatic system with diaphragm-operated feedback unit. 2,929,392, 3-22-60, Cl. 137-86.
- Ercoli, Alberto, to Francesco Vismara Societa per Azioni. Method for the preparation of 21-acetyloxy-17 $\alpha$ -hydroxy-3-ketosteroids. 2,935,519, 5-3-60, Cl. 260-397.4.
- Ercoli, Raffaele: *See*—
- Natta, Giulio, Ercoli, and Calderazzo. 2,940,832.
- Erdco, Inc.: *See*—
- Diesel, John W. 2,927,255.
- Diesel, John W. 2,931,954.
- Diesel, John W. 2,942,077.
- Erdelyan, Steven, to International Harvester Co. Vehicle wall conduit connector. 2,921,642, 1-19-60, Cl. 180-90.
- Erdley, Harold F.: *See*—
- Singleton, Henry E., and Erdley. 2,933,925.
- Singleton, Henry E., and Erdley. 2,949,785.
- Erdman, Arthur C., and S. A. Radley, to Industrial Nucleonics Corp. Moisture measuring system. 2,920,272, 1-5-60, Cl. 324-61.
- Erdman, Donald C., to Electrocircuits Inc. Method and apparatus for measuring wave propagation time. 2,931,978, 4-5-60, Cl. 324-68.
- Erdman, Joseph: *See*—
- Versoy, Harry N., and Erdman. 2,936,786.
- Erdmann, Hans, to Waldes Kohinoor, Inc. Apparatus for assembling open retaining rings on grooved shafts, pins or the like. 2,930,114, 3-29-60, Cl. 29-229.
- Erdmann, Hans, to Waldes Kohinoor, Inc. Tools for assembling retaining rings on shafts, pins or the like. 2,958-123, 11-1-60, Cl. 29-229.



- Erickson, Arthur B., and R. E. Duncan, to The Borden Co. Dough composition. 2,942,988, 6-28-60, Cl. 99-192.
- Erger, Dennis J.: *See*—  
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- Erhardt, Albert: *See*—  
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- Erickson, Helen H. Music note finders. 2,941,436, 6-21-60, Cl. 84-473.
- Erickson, Alfred C., E. Feenstra, and R. Cohen. Bathtub safety control system. 2,926,360, 3-1-60, Cl. 4-173.
- Erickson, Anton F., to General Motors Corp. Disk brake. 2,940,548, 6-14-60, Cl. 188-72.
- Erickson, Arthur E.: *See*—  
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- Erickson, C. E., Co., Inc.: *See*—  
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- Erickson, Carl E. Distributor for seed, fertilizer and the like. 2,940,640, 6-14-60, Cl. 222-177.
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- Erickson, Edward A., and H. J. Nieschlag, to Commercial Solvents Corp. Fine particle pulverizer and classifier. 2,958,472, 11-1-60, Cl. 241-39.
- Erickson, Ellsworth V.: *See*—  
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- Erickson, Emory T. Dual purpose dry starch indicator. 2,963,442, 12-6-60, Cl. 252-408.
- Erickson, Ernest S., to General Slicing Machine Co., Inc. Slicing machine with detachable disc blade. 2,931,407, 4-5-60, Cl. 146-102.
- Erickson, Floyd B.: *See*—  
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- Erickson, Floyd B., and E. J. Prill, to Monsanto Chemical Co. Ketones. 2,957,906, 10-25-60, Cl. 260-468.
- Erickson, Frederick L., and E. R. Wolfert, to Whirlpool Corp. Ice cube ejectors. 2,934,916, 5-3-60, Cl. 62-344.
- Erickson, Frederick L., and R. W. Fink, to Whirlpool Corp. Ice cube shuckers. 2,949,020, 8-16-60, Cl. 62-366.
- Erickson, Frederick L., and R. W. Fink, to General Motors Corp. Apparatus for making, ejecting, and storing ice cubes. 2,955,440, 10-11-60, Cl. 62-301.
- Erickson, Harold E.: *See*—  
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- Schubert, Dale L., and Erickson. 2,919,742.
- Erickson, Harold E.,  $\frac{1}{2}$  to D. L. Schubert and  $\frac{1}{2}$  to Industrial Development Co. Ram type wood reducing apparatus. 2,945,521, 7-19-60, Cl. 144-162.
- Erickson, Harold E.,  $\frac{1}{2}$  to D. L. Schubert and  $\frac{1}{2}$  to Industrial Development Co. Ram-type wood reducing apparatus with automatic feed means. 2,962,064, 11-29-60, Cl. 144-172.
- Erickson, Harold E., R. W. Riley, and D. L. Schubert,  $\frac{1}{2}$  to Industrial Development Co., and  $\frac{1}{2}$  to said D. L. Schubert. Prepressing and dividing particle mats. 2,923,968, 2-9-60, Cl. 18-4.
- Erickson, Harold E., R. W. Riley, and D. L. Schubert,  $\frac{1}{2}$  to D. L. Schubert, and  $\frac{1}{2}$  to Industrial Development Co. Prepressing and dividing particle mats. 2,923,974, 2-9-60, Cl. 18-17.
- Erickson, Harold E., N. E. and C. V. Nelson, and D. L. Schubert; said Erickson assor. to said Schubert and said N. E. and C. V. Nelson, assors. to Industrial Development Co. Mat handling method and apparatus. 2,930,474, 3-29-60, Cl. 198-31.
- Erickson, Harold E., R. W. Riley, and D. L. Schubert; said Erickson and said Riley assors. of  $\frac{1}{2}$  to said Schubert, and  $\frac{1}{2}$  to Industrial Development Co. Felting apparatus. 2,943,365, 7-5-60, Cl. 19-155.
- Erickson, Harold E., and C. J. Robinson, said Erickson assor. to D. L. Schubert, and said Robinson assor. to Industrial Development Co., Inc. Ram-type wood reducing apparatus. 2,951,519, 9-6-60, Cl. 144-172.
- Erickson, Henry: *See*—  
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- Melik, John S., and Erickson. 2,932,673.
- Erickson, Howard L.: *See*—  
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- Dahl, Robert R., and Erickson. 2,936,790.
- Erickson, John H., and B. S. Vineyard, to Southern Illinois University Foundation. Depth of cut gauge for jointer. 2,960,125, 11-15-60, Cl. 144-129.
- Erickson, Lennart G.: *See*—  
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- Erickson, Norman R. Dental appliance. 2,937,445, 5-24-60, Cl. 32-33.
- Erickson, Reginald T., and M. Loewe, to Star-Kist Foods, Inc. Method of cooling fish preparatory to canning. 2,919,987, 1-5-60, Cl. 99-111.
- Erickson, Reginald T., and M. Loewe, to Star-Kist Foods, Inc. Method of pre-cooking fish for canning. 2,919,988, 1-5-60, Cl. 99-111.
- Erickson, Robert E.: *See*—  
Buchi, George H., and Erickson. 2,942,029.
- Erickson, Roy. Stabilizing mechanism for automotive vehicle. 2,950,122, 8-23-60, Cl. 280-104.
- Erickson, Theodore F., to C. E. Erickson Co., Inc. Tray unit for display stand. 2,964,154, 12-13-60, Cl. 193-35.
- Erickson Tool Co.: *See*—  
Benjamin, Milton L. 2,965,380.
- Benjamin, Milton L., and Winnen. 2,958,532.
- Benjamin, Milton L., and Winnen. 2,958,533.
- Erickson, Wallace A., & Co.: *See*—  
Kinnavy, James W. 2,920,416.
- Kinnavy, James W. 2,920,629.
- Kinnavy, James W. 2,920,630.
- Erickson, Wendell L.: *See*—  
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- Erickson, Willard E., A. Musschoot, and F. M. Grayson, to Link-Belt Co. Grain car door opener. 2,927,770, 3-8-60, Cl. 254-84.
- Erickson, William F.: *See*—  
Helvern, James O., and Erickson. 2,928,511.
- Erico Products, Inc.: *See*—  
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- Burke, Donald J. 2,940,885.
- Ericson, Arthur R.: *See*—  
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- Ericson, Eric A., to General Electric Co. Plug-in type power take-off device with bimetallic contacts. 2,921,146, 1-12-60, Cl. 191-45.
- Ericson, Eric A., to General Electric Co. Panelboard unit. 2,937,254, 5-17-60, Cl. 200-114.
- Ericson, Eric A., to General Electric Co. Electrical connector. 2,959,765, 11-8-60, Cl. 339-270.
- Ericson, John W.: *See*—  
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- Ericson, Walter M. Ceiling with controlled ventilation. 2,920,357, 1-12-60, Cl. 20-4.
- Ericsson, Arvid I., to Signode Steel Strapping Co. Pneumatic stapling tool. 2,947,003, 8-2-60, Cl. 1-44.4.
- Ericsson, Eric K., and Solberg, to Telefonaktiebolaget L. M. Ericsson. Speed governor. 2,949,980, 8-23-60, Cl. 188-184.
- Ericsson, Lars M. Connection between the frame and spring of furniture. 2,929,077, 3-22-60, Cl. 5-260.
- Ericsson Telephones Ltd.: *See*—  
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- Douglas, William S. 2,957,075.
- Erle Mfg. Co.: *See*—  
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- Engholdt, Richard K. 2,943,398.
- Erle Mining Co.: *See*—  
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- De Vaney, Fred D., and Beggs. 2,946,469.
- Schnaitter, Edgar J., and MacLeod. 2,960,721.
- Schnaitter, Edgar J., and Mull. 2,936,085.
- Erle Resistor Corp.: *See*—  
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- Foster, James H. 2,940,058.
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- Gray, Robert B. 2,944,118.
- Gray, Robert B. 2,958,738.
- Heibel, Jerome D. 2,947,821.
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- Hupp, Ross E. 2,933,644.
- Erlez Mfg. Co.: *See*—  
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- Erikson, Erik E. Wheel assembly. 2,940,781, 6-14-60, Cl. 287-53.
- Erikson, Herman E., to Polaroid Corp. Photographic apparatus for treating photosensitive material. 2,966,103, 12-27-60, Cl. 95-13.
- Erikson, Robert W., and W. R. Kiefer, to Sundstrand Corp. Air purging apparatus for pumps. 2,931,314, 4-5-60, Cl. 103-203.
- Erikson, Ted A.: *See*—  
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- Erkert, James S., to National Lock Co. Bumper assembly for boats. 2,959,146, 11-8-60, Cl. 114-219.
- Erland af Kleen, Nils, to Jet-Heat, Inc. Pump systems. 2,954,741, 10-4-60, Cl. 103-255.
- Erlbacher, Robert W. Rubber fender structure. 2,926,904, 3-1-60, Cl. 267-1.
- Erlenmeyer, Hans. Process for the manufacture of derivatives of 4-hydroxy-isophthalic acid. 2,923,735, 2-2-60, Cl. 260-519.
- Erlenmeyer, Hans, to Ciba Pharmaceutical Products Inc. New oxazoles. 2,929,819, 3-22-60, Cl. 260-296.
- Erling, Roland W.: *See*—  
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- Erly-Fat Livestock Feed Co.: *See*—  
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- Ern, Fritz R., and P. Geldmacher, to Firma C. Friedr. Ern. Hand-actuated hair cutting apparatus. 2,951,287, 9-6-60, Cl. 30-212.
- Erno Enterprises: *See*—  
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- Erner, William E., G. A. Mills, and R. K. Smith, to Houdry Process Corp. Preparation of indole. 2,953,575, 9-20-60, Cl. 260-319.
- Ernest, Fred. Compensating spring devices. 2,924,447, 2-9-60, Cl. 267-28.
- Ernest, Frederick I. Work-holding chuck. 2,921,796, 1-19-60, Cl. 279-110.
- Ernest, William A. Automatic feeder. 2,934,037, 4-26-60, Cl. 119-56.
- Erni, Gustav A.: *See*—  
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- Ernolf, Carl O.: See—  
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- Ernst, Albert: See—  
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- Ernst, Edward W., J. R. Horsch, and J. J. Myers, to Stewart-Warner Corp. Telefilm freight car identification system. 2,956,117, 10-11-60, Cl. 178-6.8.
- Ernst, Gunther: See—  
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- Ernst, Gunther, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Stabilization device of aerodynes equipped with rotary power plants. 2,928,628, 3-15-60, Cl. 244-77.
- Ernst, Günther, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Control device for vertical landing. 2,930,549, 3-29-60, Cl. 244-77.
- Ernst, Heinrich. Self-steered toy vehicle. 2,946,153, 7-26-60, Cl. 46-202.
- Ernst, John J. Positive action low pressure pump cut-off switch attachment. 2,923,790, 2-2-60, Cl. 200-83.
- Ernst, John L.: See—  
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- Tegge, Bruce R., and Ernst. 2,927,101.
- Ernst, John L., and A. B. Small, to Esso Research and Engineering Co. Polymerization of hydrocarbons with catalyst of BF<sub>3</sub> and BCl<sub>3</sub>. 2,931,791, 4-5-60, Cl. 260-85.3.
- Ernst, John M., to American Machine & Foundry Co. Bowling ball return and storage rack. 2,937,024, 5-17-60, Cl. 273-49.
- Ernst, Josef. Muffler for silencing gases. 2,937,707, 5-24-60, Cl. 181-42.
- Ernst, Robert. Hydroxyalkyl carbamate-formaldehyde condensation products. 2,928,812, 3-15-60, Cl. 260-67.5.
- Ernst, Walter: See—  
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- Ernst, Walter, to The Commonwealth Engineering Co. of Ohio. Weighing device. 2,954,221, 9-27-60, Cl. 265-47.
- Errichello, Dominic R., and R. G. Worobey, to Motorola, Inc. Radio apparatus. 2,963,577, 12-6-60, Cl. 250-16.
- Errington, Frederick: See—  
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- Erskine, Archibald M.: See—  
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- Erskine, George B., and S. J. Gartner. Machine and method for the manufacture of studded electrodes. 2,951,933, 9-6-60, Cl. 219-79.
- Erskine, Robert A., to Vickers Inc. Power transmission. 2,932,167, 4-12-60, Cl. 60-52.
- Erstad, Tennes I.: See—  
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- Wintermantel, Norman G., and Erstad. 2,944,833.
- Erstad, Tennes I., to American Machine and Foundry Co. Self sealing tubeless bicycle tire and rim. 2,953,184, 9-20-60, Cl. 152-363.
- Ertel, Edwin H. E., and H. A. Gutknecht, to Gutert Quality Products, Inc. Fishing apparatus. 2,939,238, 6-7-60, Cl. 43-11.
- Ertel, Edwin H. E., and H. Gutknecht, to Gutert Quality Products, Inc. Antenna mounting means. 2,962,248, 11-29-60, Cl. 248-45.
- Erteszek, Olga. Foundation garment. 2,920,626, 1-12-60, Cl. 128-436.
- Erteszek, Olga. Back construction for foundation garment. 2,942,605, 6-28-60, Cl. 128-547.
- Erteszek, Olga. Elastic foundation garment. 2,950,718, 8-30-60, Cl. 128-542.
- Ervin, Guy, Jr., and H. F. G. Ueltz, to Norton Co. Process for the extraction of relatively pure chromium, molybdenum, and tungsten. 2,923,672, 2-2-60, Cl. 204-64.
- Ervin, Guy, Jr., and H. F. G. Ueltz, to Norton Co. Process for the extraction of relatively pure vanadium, niobium and tantalum. 2,947,672, 8-2-60, Cl. 204-64.
- Ervine, William D., to Esso Research and Engineering Co. Soluble oil composition. 2,941,944, 6-21-60, Cl. 252-33.3.
- Erving, Eric R. 48% to O. W. Zimmerman. Tire chain. 2,934,125, 4-26-60, Cl. 152-239.
- Erwin, Arthur F., to Allis-Chalmers Mfg. Co. Hermetically sealed pump motor unit. 2,959,133, 11-8-60, Cl. 103-87.
- Erwin, Harry M. Tool for cutting circular grooves. 2,931,262, 4-5-60, Cl. 82-2.
- Erwin, Lee R., to Carrier Corp. Thermostat sheath. 2,963,909, 12-13-60, Cl. 73-343.
- Erxleben, Richard F., to National Broach & Machine Co. Elimination of white layer in nitrided steel. 2,960,421, 11-15-60, Cl. 148-16.6.
- Erzinger, Leonard G. Dampening apparatus for offset process printing presses. 2,960,929, 11-22-60, Cl. 101-147.
- Esatow, Theodore R.: See—  
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- Esch, Howard G.: See—  
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- Segur, Asa B., and Esch. 2,955,717.
- Esch-Werke K.G.: See—  
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- Eschard, François, to Institut Francais du Pétrole. Continuous process for fabricating olefins by dehydration of alcohols in the homogeneous liquid phase. 2,957,034, 10-18-60, Cl. 260-666.
- Eschbaugh, John T.: See—  
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- Esche, Rolf, to Siemens-Schuckertwerke Aktiengesellschaft. High frequency generator. 2,937,329, 5-17-60, Cl. 321-45.
- Eschelbach, Alfred M. and N. A. Cornice bracket. 2,922,029, 1-19-60, Cl. 240-2.
- Eschelbach, Neil A.: See—  
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- Eschenburg, William A., to Yates-American Machine Co. Tension adjusting mechanism for band saws. 2,963,054, 12-6-60, Cl. 143-27.
- Eschenburg, William A., A. G. Stauber, and H. C. Marks, to Yates-American Machine Co. Twin rip saw with oppositely driven blades and power feed. 2,936,800, 5-17-60, Cl. 143-49.
- Escher Wyss Aktiengesellschaft: See—  
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- Obrist, Heinrich A. 2,945,960.
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- Escher Wyss G.m.b.H.: See—  
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- Eschinazi, Habib-Emile, to The Givaudan Corp. Process for making methyl-(4-isopropyl-1-cyclopentyl)-ketone and intermediate obtained thereby. 2,946,823, 7-26-60, Cl. 260-593.
- Eschner, Albert, Jr., to Hughes Aircraft Co. Logarithmic video amplifier. 2,935,687, 5-3-60, Cl. 328-145.
- Eschner, Albert, Jr., to Hughes Aircraft Co. Linear frequency discriminator. 2,961,613, 11-22-60, Cl. 329-137.
- Esco Corp.: See—  
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- Larsen, Paul V. 2,957,255.
- Escursell Prat, Roberto, 1/2 to J. Hostench Serra. Doffing and donning apparatus. 2,961,822, 11-29-60, Cl. 57-53.
- Eshbaugh, Jesse E., D. G. Keil, and A. H. Schmidt, to General Motors Corp. Press-on closure for filler pipes. 2,946,215, 7-26-60, Cl. 70-169.
- Esken, Robert L., to The Sheffield Corp. Assembly apparatus. 2,931,095, 4-5-60, Cl. 29-201.
- Eskenazi, Murray L., and R. M. Patrick. Vertically adjustable hand basin. 2,958,871, 11-8-60, Cl. 4-170.
- Eskew, Roderick K.: See—  
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- Eskew, Roderick K., to United States of America, Agriculture. Dehydrating coffee extract. 2,929,717, 3-22-60, Cl. 99-71.
- Eskilsson, Ewald O. P.: See—  
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- Eskin, Samuel G., and J. M. Algino, to The Dole Valve Co. Thermal responsive element. 2,966,062, 12-27-60, Cl. 73-358.
- Esmay, Donald L.: See—  
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- Esmay, Paul O. Hand-operated sprayer or the like. 2,950,153, 8-23-60, Cl. 309-23.
- Espenlaub, Walter C., to Hazeltine Research, Inc. Signal-modifying apparatus. 2,947,953, 8-2-60, Cl. 333-28.
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- Espenschied, Helmut, to National Lead Co. Method for the production of zirconium boride. 2,964,388, 12-13-60, Cl. 23-204.
- Espersen, George A., and M. Weis, to North American Philips Co., Inc. Magnetron cathode structure. 2,957,100, 10-18-60, Cl. 313-346.
- Esperseth, Maurice H.: See—  
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- Espinoza, William. Mason's chalk line holder. 2,919,489, 1-5-60, Cl. 33-85.
- Espinoza, Richard A.: See—  
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- Espy, Melvin P. Hand carried glare shield. 2,962,721, 12-6-60, Cl. 2-11.
- Esser, Alex P.: See—  
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- Esser, Leo A. and A. P. Drinking fountain attachment. 2,924,390, 2-9-60, Cl. 239-25.
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- Essex Wire Corp.: See—  
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- Essick Mfg. Co.: See—  
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- Essington, Harry M. Fluorescent material detector. 2,935,612, 5-3-60, Cl. 250-78.
- Essmann, Carl J., to Amthor Testing Instrument Co., Inc. Calibrating apparatus for gauges and like instruments. 2,957,334, 10-25-60, Cl. 73-4.



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- Ettlinger, Ralph, Jr. Cup tray and stacker. 2,941,663, 6-21-60, Cl. 206-72.
- Ettlinger, Ralph, Jr. Stacking tray for glasses. 2,965,226, 12-20-60, Cl. 206-72.
- Ettorre, James E.: *See—*
- Bullard, Edward C., Tomenceak, and Ettorre. 2,947,188.
- Ettorre, Renato: *See—*
- Maffei, Giulio, Ettorre, and Testa. 2,943,980.
- Etude et Realisation d'Outillage de Precision C. L. Godoar et Cie: *See—*
- Godar, Charles L. 2,948,194.
- Etzel, Howard W., J. H. Schulman, and J. G. Allard. Dosimeter and method of determining radiation dose. 2,934,651, 4-26-60, Cl. 250-71.
- Etzenhouser, John E., to Plas-Ties Co. Tape cutting machine with means to expose the end of the tape. 2,959,998, 11-15-60, Cl. 83-369.
- Eubanks, Floyd G., 10% to R. M. McManigal. Wire cutter and insulation stripping apparatus. 2,934,982, 5-3-60, Cl. 81-9.51.
- Eubanks, John S. Fluid pressure converter. 2,941,478, 6-21-60, Cl. 103-123.
- Eubanks, Joseph H.: *See—*
- Valentine, George E., and Eubanks. 2,932,166.
- Eubanks, Lloyd S., to Monsanto Chemical Co. Cyanogen production. 2,955,021, 10-4-60, Cl. 23-151.
- Eubanks, Lloyd S., to Monsanto Chemical Co. Cyanogen production. 2,955,022, 10-4-60, Cl. 23-151.
- Euclid Crane & Hoist Co., The: *See—*
- McIntosh, Robert B. 2,924,766.
- Euga, Arthur B. Brake system for vehicles. 2,940,551, 6-14-60, Cl. 188-106.
- Eul, Edward A., Jr., to Magnafux Corp. Conductivity measuring instrument. 2,939,073, 5-31-60, Cl. 324-34.
- Euler, Fred J., Jr., and S. C. Lane, to Westinghouse Electric Corp. X-ray apparatus. 2,937,277, 5-17-60, Cl. 250-65.
- Euler, Luis, 50% to T. Galdos. Centrifugally actuated friction clutch. 2,925,161, 2-16-60, Cl. 192-105.
- Euler, Robert D., and R. L. Tichenor, to E. I. du Pont de Nemours and Co. Acrylonitrile fibers and process for producing same. 2,948,584, 8-9-60, Cl. 18-54.
- Eureka Chemical Co.: *See—*
- Saywell, Lawrence G. 2,943,945.
- Eusepi, Martin W., to The Singer Mfg. Co. Sewing machines with adjustable flange couplings. 2,944,845, 7-12-60, Cl. 287-53.
- Eutectic Welding Alloys Corp.: *See—*
- Wasserman, Rene D., and Quaas. 2,919,984.
- Wasserman, Rene D., and Quaas. 2,927,049.
- Evander, Herbert S.: *See—*
- Chamberlin, Raymond G., and Evander. 2,941,688.
- Evans, Alfred: *See—*
- Evans, Arthur. 2,960,622.
- Evans, Andrew J., to E. A. Adams & Son, Inc. Ear clip component. 2,948,041, 8-9-60, Cl. 24-252.
- Evans, Arthur, deceased, by C. E. Betty and Alfred Evans, executors, to International Standard Electric Corp. Travelling wave tubes. 2,960,622, 11-15-60, Cl. 315-3.6.
- Evans, Arthur G.: *See—*
- Morkoski, James, Evans, and Harden. 2,943,689.
- Evans, Arthur W., W. Hughes, and J. D. Groves, to British Titan Products Co. Ltd. Preparation of titanium dioxide. 2,964,386, 12-13-60, Cl. 23-202.
- Evans, Aubrey M., to Duofold, Inc. Cold weather quilted garment. Re. 24,887, 10-18-60, Cl. 66-176.
- Evans, Aubrey M., to Duofold Inc. Knitted undergarment. 2,921,456, 1-19-60, Cl. 66-176.
- Evans, Aubrey M., to Duofold Inc. Cold weather knitted garment. 2,921,457, 1-19-60, Cl. 66-176.
- Evans, Charles T., Jr., to Universal-Cyclops Steel Corp. Non-ridging stainless steels. 2,965,479, 12-20-60, Cl. 75-126.
- Evans, Chauncey R., to A. C. Nielsen Co. Automatic audience rating systems. 2,958,766, 11-1-60, Cl. 250-2.
- Evans, Cyril G.: *See—*
- Cox, Fred W., and Evans. 2,921,358.
- Evans, Cyril G., to Deering Milliken Research Corp. Method for processing cellulose ester yarns. 2,925,641, 2-23-60, Cl. 28-72.
- Evans, Cyril G., to Deering Milliken Research Corp. Methods and apparatus for producing yarn. 2,931,089, 4-5-60, Cl. 28-1.
- Evans, Dewey: *See—*
- Umbricht, Emil, and Evans. 2,926,674.
- Evans, Dewey M.: *See—*
- Umbricht, Emil, Evans, and Johnson. 2,925,614.
- Umbricht, Emil, Steenhagen, and Evans. 2,949,285.
- Evans, Dewey M., to Ajem Laboratories, Inc. Cradle apparatus for power washing equipment. 2,926,675, 3-1-60, Cl. 134-156.
- Evans, Donald W.: *See—*
- Spielberg, Arnold M., and Evans. 2,951,234.
- Evans, Dwight J. Electrically operable puppets. 2,932,919, 4-19-60, Cl. 46-245.
- Evans, Edmond W., and C. MacSporran. Apparatus for odorizing a product without allowing the escape of the odor to the atmosphere. 2,935,931, 5-3-60, Cl. 48-195.
- Evans Enterprises, Inc.: *See—*
- Evans, Frederick H. 2,945,601.
- Evans, Frederick H. 2,960,240.
- Evans, Ersel A.: *See—*
- Roake, William E., Evans, and Brite. 2,941,933.
- Evans, Evan R., and D. E. Jackson, to E. I. du Pont de Nemours and Co. Dispersions of organic polymers and chrysotile asbestos, process of preparing film therefrom and product thereof. 2,945,831, 7-19-60, Cl. 260-29.6.
- Evans, Franklin J. Lock means for automobile door lock buttons. 2,950,614, 8-30-60, Cl. 70-181.
- Evans, Frederick H., to Evans Enterprises, Inc. Apparatus for turning round bars. 2,945,601, 7-19-60, Cl. 214-1.
- Evans, Frederick H., to Evans Enterprises, Inc. Slab-turning apparatus and self-feed means. 2,960,240, 11-15-60, Cl. 214-1.
- Evans, Frederick P., and C. F. Stearns, to United Aircraft Corp. Flow control valve for a fuel system or the like. 2,934,306, 4-28-60, Cl. 251-28.
- Evans, Frederick P., and R. K. Mason, to United Aircraft Corp. Flow rate compensator. 2,937,656, 5-24-60, Cl. 137-110.
- Evans, George, Corp., The: *See—*
- First, Harry V. 2,935,157.
- Evans, George W., Jr.: *See—*
- Worn, George A., and Evans. 2,939,685.
- Evans, Harry D., to Shell Oil Co. Fractionation and absorption process. 2,939,834, 6-7-60, Cl. 208-101.
- Evans, Howard J., to General Electric Co. Display device with storage. 2,920,232, 1-5-60, Cl. 315-71.
- Evans, Howard J., to General Electric Co. Electron shield for post acceleration cathode ray tube. 2,951,179, 8-30-60, Cl. 315-15.
- Evans, Hugh D.: *See—*
- McGee, James D., and Evans. 2,943,206.
- Evans, James A. Flexible connection for runway girders. 2,948,365, 8-9-60, Cl. 189-36.
- Evans, James H.: *See—*
- Harmer, Albanus A. 2,924,091.
- Evans, John J.: *See—*
- Cekada, Joseph A., Evans, and Stiles. 2,920,905.
- Evans, John M., and J. W. Luttrell, to Magna Power Motors, Inc. Electrical motors. 2,950,401, 8-23-60, Cl. 310-44.
- Evans, Kenneth W., Jr., to The Eastern Malleable Iron Co. Anchor mounting. 2,954,004, 9-27-60, Cl. 114-210.
- Evans, L. B., Son Co.: *See—*
- Spaulding, Earl H. 2,946,070.
- Evans, Leonard T. Journal box lubrication. 2,919,964, 1-5-60, Cl. 308-243.
- Evans, Llewellyn W.: *See—*
- Stevens, Bruce W., and Evans. 2,952,933.
- Evans, Llewellyn W. Electric target-practice apparatus with time delay fixing means. 2,928,190, 3-15-60, Cl. 35-25.
- Evans, Lyle W., to Sylvania Electric Products Inc. Processing of image display devices. 2,944,916, 7-12-60, Cl. 117-33.5.
- Evans, Martin E. Motion picture printer. 2,928,314, 3-15-60, Cl. 88-16.2.
- Evans, Martin E. Combined sound and color motion picture and television recording apparatus. 2,944,109, 7-5-60, Cl. 178-7.4.
- Evans, Martin E. Multi-system sound recording and photographic strip. 2,953,385, 9-20-60, Cl. 274-41.6.
- Evans, Norman R. Mica treated metals. 2,932,564, 4-12-60, Cl. 75-53.
- Evans, Norman R. Cast iron and process for making same. 2,932,567, 4-12-60, Cl. 75-123.
- Evans, Palmer D., to Westinghouse Electric Corp. Power plant apparatus. 2,962,597, 11-29-60, Cl. 290-2.
- Evans, Paul I.: *See—*
- Anderson, Paul E., Cromp, Evans, and Ransom. 2,933,981.
- Evans, Paul I., and M. R. Ransom, to United States of America, Army. Remote safety firing mechanism. 2,948,192, 8-9-60, Cl. 89-28.
- Evans, Peter G.: *See—*
- Swann, Geoffrey, and Evans. 2,952,647.
- Swann, Geoffrey, and Evans. 2,952,648.
- Swann, Geoffrey, and Evans. 2,956,968.
- Evans Products Co.: *See—*
- Chapman, Harvey W., and Dunlap. 2,947,262.
- Chapman, Harvey W., Dunlap, and Krokos. 2,932,530.
- Chapman, Harvey W., Dunlap, and Rigney. 2,956,517.
- Miller, Fred B. 2,939,507.
- Parker, Humphrey F., and Robins. 2,959,262.
- Schneider, George M., Sturdy, Acton, and Glomb. 2,929,339.
- Schneider, George M., Sturdy, Acton, and Glomb. 2,963,991.
- Tobin, Kenneth J. 2,919,662.
- Evans Products Co. (Delaware): *See—*
- Dulap, Henry L. 2,935,033.
- Evans, Quentin J.: *See—*
- Miner, Richard Y., and Evans. 2,922,572.
- Evans, Ralph S. Drop frame trailer. 2,957,593, 10-25-60, Cl. 214-505.
- Evans Reamer and Machine Co.: *See—*
- Barkley, Charles R. 2,957,101.
- Evans, Richard C., and W. C. Ready, to Olin Mathieson Chemical Corp. Thermocouple. 2,952,725, 9-13-60, Cl. 136-4.
- Evans, Richard E.: *See—*
- Haskell, Philip R., Evans, Ketchpel, and Connor. 2,949,898.
- Haskell, Philip R., Evans, Ketchpel, and Connor. 2,954,759.



- Evans, Richard L., to Syracuse Heat Treating Corp. Work supporting fixture. 2,954,222, 9-27-60, Cl. 266-6.
- Evans, Robert C. Dismantleable framing structures. 2,944,642, 7-12-60, Cl. 189-36.
- Evans, Robert T., to Halliburton Oil Well Cementing Co. Well apparatus. 2,946,388, 7-26-60, Cl. 166-120.
- Evans, Rupert L.: *See*—
- Kessler, Ward P., Malmrose, and Evans. 2,952,883.
- Evans, Thomas, C. W. Doering, and R. E. Beach, to Minneapolis-Moline Co. Drive mechanism. 2,942,483, 6-28-60, Cl. 74-40.
- Evans, Trevor E.: *See*—
- Beck, Loren E., and Wanamaker. 2,963,186.
- Evans, Tyndall D. Automatic electric mop. 2,930,057, 3-29-60, Cl. 15-99.
- Evans, Walter W., to Exeter Mfg. Co. Bias-cut woven glass fabric sized with a resinous material. 2,953,477, 9-20-60, Cl. 117-126.
- Evans, Walter W., L. E. Oliver, and C. R. Ronnquist, to Exeter Mfg. Co. Apparatus for dewrinkling bias cut glass cloth. 2,962,792, 12-6-60, Cl. 28-1.
- Evans, Walter W., L. E. Oliver, and C. R. Ronnquist, to Exeter Mfg. Co. Methods for producing continuous bias constructed glass textile fabric. 2,962,795, 12-6-60, Cl. 28-76.
- Evans, William C., and R. E. Neuberg. Separation of solids having different specific gravities. 2,964,188, 12-13-60, Cl. 209-453.
- Evans, William G., to Westinghouse Electric Corp. Illuminating and heating and cooling panel member. 2,932,954, 4-19-60, Cl. 62-3.
- Evans, William I., and E. Blanco. Container structure. 2,939,601, 6-7-60, Cl. 217-12.
- Evans, William R.: *See*—
- Klingler, Martin L., and Evans. 2,921,438.
- Evanson, Austin E., and M. A. Hickey. Vacuum device for picking up grass, leaves, and the like. 2,930,068, 3-29-60, Cl. 15-351.
- Evanson, Clifford E.: *See*—
- Edmonds, Harvey A., Evanson, and Gilbert. 2,933,207.
- Evanson, Clifford E., to The Dow Chemical Co. Eyeletting machine. 2,925,932, 2-23-60, Cl. 218-15.
- Evenson, Everett D. Cabinet door latch. 2,919,944, 1-5-60, Cl. 292-18.
- Evenson, Henry A. Trash bag and hanger for automobiles. 2,920,756, 1-12-60, Cl. 206-19.5.
- Everbrite Electric Signs Inc.: *See*—
- Ressel, Edward. 2,940,198.
- Wamser, Carl H. 2,939,235.
- Everest, Edward A., and E. A. Hudgpeth. Automobile mechanic's appliance. 2,957,541, 10-25-60, Cl. 182-115.
- Everett, Fred J., to Stewart-Warner Corp. Lubricant aerosol generator. 2,925,883, 2-23-60, Cl. 183-24.
- Everett & Jennings, Inc.: *See*—
- La Rue, Donald G., and Borup. 2,938,738.
- Everett, Charles V.: *See*—
- Pool, Stuart D., Everett, and Svereika. 2,954,657.
- Everett, Charles V., to International Harvester Co. Hay crushing roll construction. 2,947,130, 8-2-60, Cl. 56-1.
- Everett, Frederick J., to Stewart-Warner Corp. Water separator for compressed air lines. 2,949,925, 8-23-60, Cl. 137-195.
- Everett, Hazen F. Educational aid. 2,937,460, 5-24-60, Cl. 35-73.
- Everett, James C., 51% to C. U. Baize, and 49% to S. Baize. Triple action toothbrush. 2,932,835, 4-19-60, Cl. 15-27.
- Everett, James C. Cap. 2,964,206, 12-13-60, Cl. 215-9.
- Everett, James L.: *See*—
- Ross, Walter C. J., Everett, and Roberts. 2,944,079.
- Everett, Lilian F., to The Hairlok Co. Ltd. Preparation of foamed rubber latex containing gelatinized starch. 2,945,826, 7-19-60, Cl. 260-2.5.
- Everett, O. Ellis: *See*—
- Stone, Wallace E. 2,946,276.
- Everett, S., & R. J., & Co. Ltd.: *See*—
- Everett, Samuel J. 2,946,093.
- Everett, Samuel J., to S. & R. J. Everett & Co. Ltd. Hypodermic needles. 2,946,093, 7-26-60, Cl. 18-36.
- Everetts, Blaine K. Remote shutter tripping device. 2,935,006, 5-3-60, Cl. 95-86.
- Everhart, Harold S., to The Jeffrey Mfg. Co. Bucket elevator. 2,960,209, 11-15-60, Cl. 198-140.
- Everhart, James G.: *See*—
- Anderson, John L., and Everhart. 2,946,028.
- Everhart, Thomas E., to Hughes Aircraft Co. Traveling wave tube. 2,936,395, 5-10-60, Cl. 315-3.5.
- Everhart, Thomas E., to Hughes Aircraft Co. Broadband traveling-wave amplifier. 2,963,615, 12-6-60, Cl. 315-3.
- Evering, Bernard L.: *See*—
- Peters, Edwin F., and Evering. 2,936,291.
- Peters, Edwin F., and Evering. 2,963,447.
- Roebuck, Alan K., and Evering. 2,965,689.
- Everitt, Allen L.: *See*—
- Davis, Raymond C., Everitt, and Frederick. 2,930,640.
- Everitt, Allen L., to General Motors Corp. Wheel cushioning structure. 2,919,737, 1-5-60, Cl. 152-47.
- Everitt, Allen L., to General Motors Corp. Clutch structure. 2,927,674, 3-8-60, Cl. 192-107.
- Everlast, Inc.: *See*—
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- Evernden, Harold I. F., to General Motors Corp. Transmission. 2,939,341, 6-7-60, Cl. 74-682.
- Everpure Inc.: *See*—
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- Ever-Ready Razor Products Ltd.: *See*—
- Henley, Charles F. 2,928,531.
- Evers, Alfred: *See*—
- Cremer, Gottfried, Bolkow, and Evers. 2,952,059.
- Evers, Harry G., to Leich Electric Co. Party line paystation identification. 2,921,983, 1-19-60, Cl. 179-17.
- Evers, James D., and C. F. Stearns, to United Aircraft Corp. Pivot and sealing means. 2,929,252, 3-22-60, Cl. 74-18.1.
- Evershed, Bryan W.: *See*—
- Wallens, Anthony W., and Evershed. 2,956,270.
- Evershed & Vignoles Ltd.: *See*—
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- Eversman Mfg. Co.: *See*—
- Beck, Cecil I. 2,941,318.
- Shumaker, Lawrence E., and Beck. 2,952,324.
- Shumaker, Lawrence E., and Beck. 2,955,369.
- Eversole, Ralph M. Delivery box signal. 2,958,858, 11-1-60, Cl. 340-280.
- Everson, Howard E.: *See*—
- Pienda, Frank P., and Everson. 2,931,778.
- Evert, Lawrence L.: *See*—
- Schultze, Harold E., and Evert. 2,957,456.
- Every, Alvin V.: *See*—
- Loren, Donald A., and Every. 2,940,392.
- Evlo Plastics, Inc.: *See*—
- Didion, Gilbert W. 2,961,112.
- Evrell, Kaleb E., to Aktiebolaget Bolinder-Munktel. Device for conversion of a periodically irregular rotary motion to a regular motion or vice versa. 2,946,228, 7-26-60, Cl. 74-68.
- Ewald, Lux H. Method of welding and weld produced thereby. 2,927,193, 3-1-60, Cl. 219-100.
- Ewald, Robert F., to Bell Telephone Laboratories, Inc. Mounting and connecting apparatus. 2,936,407, 5-10-60, Cl. 317-99.
- Ewald, Robert W., and C. A. Nichols, to General Motors Corp. Air foil section. 2,954,208, 9-27-60, Cl. 253-77.
- Ewanus, Walter: *See*—
- Jones, Wesley N., and Ewanus. 2,933,623.
- Smith, Harry B., and Ewanus. 2,920,319.
- Ewen, Edward F.: *See*—
- Dawe, Garfield A., Ewen, and Sherrick. 2,931,964.
- Ewing, Clifton H., to Westinghouse Electric Corp. Food waste disposer. 2,963,231, 12-6-60, Cl. 241-194.
- Ewing Development Co.: *See*—
- Ewing, Walkley B. 2,925,634.
- Ewing, Edgar G., to Northrop Corp. Annular ring parachute. 2,929,588, 3-22-60, Cl. 244-145.
- Ewing, Frank A.: *See*—
- Cantrell, Harry N., and Ewing. 2,923,319.
- Ewing, Henry, and A. H. Gentie, to British Celanese Ltd. Fabric woven from coated yarns. 2,939,200, 6-7-60, Cl. 28-80.
- Ewing, James O. Combination evaporator-condenser plate assembly. 2,958,206, 11-1-60, Cl. 62-160.
- Ewing, James O. Combination evaporator-condenser assembly with concentric tubular construction. 2,959,027, 11-8-60, Cl. 62-160.
- Ewing, James R., to Midwest Mfg. Corp. Clip strap. 2,929,596, 3-22-60, Cl. 248-74.
- Ewing, Lynn H.: *See*—
- Nelson, Ferml N. 2,959,790.
- Nelson, Ferml N. 2,942,892.
- Ewing, Lloyd: *See*—
- Matherne, Joseph L., and L. and R. Ewing. 2,966,173.
- Ewing, Reid: *See*—
- Matherne, Joseph L., and L. and R. Ewing. 2,966,173.
- Ewing, Robert A.: *See*—
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- Ewing, Walkley B. Skylight shade. 2,958,259, 11-1-60, Cl. 88-57.5.
- Ewing, Walkley B., to Ewing Development Co. Adjustable blind for light openings. 2,925,634, 2-23-60, Cl. 20-62.
- Ewing, Wayne, and L. B. Backus, Jr., to Arrowsmith Tool & Die Corp. Expanding mandrel hydro-press. 2,943,667, 7-5-60, Cl. 153-80.
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- Alden, Carroll R. 2,925,948.
- Bauer, Russell E. 2,924,241.
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- Brady, Samuel G. 2,949,706.
- Brady, Samuel G. 2,960,804.
- Carson, Thomas H. 2,934,765.
- Earp, James F. 2,936,681.
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- Monroe, Charles Z., and Eggleston. 2,957,289.
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- Excello Paper Products Co., The: *See*—
- Shiels, Robert A. 2,928,200.
- Shiels, Robert A. 2,950,820.
- Excel-O-Therm Container Corp.: *See*—
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- Exeter Mfg. Co.: *See*—  
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- Exline, William, Inc.: *See*—  
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- Exline, William P., to William Exline, Inc. Apparatus for ejecting coins. 2,962,178, 11-29-60, Cl. 214-310.
- Exner, Frank M.: *See*—  
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- Exner, William L., and A. D. Scarbrough, to Hughes Aircraft Co. Broad bandwidth digital servo for aircraft control. 2,932,471, 4-12-60, Cl. 244-77.
- Experiment Inc.: *See*—  
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- Expert Die & Tool Co., Inc.: *See*—  
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- Eyb, Wolfgang, to Firma Dr. Ing. h.c.F. Porsche K.G. Individual wheel suspension for driven half-axes. 2,950,774, 8-30-60, Cl. 180-73.
- Eye-Beam Displays, Inc.: *See*—  
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 Stein, Elmer L. 2,939,237.
- Eyelet Specialty Division, International Silver Co., The: *See*—  
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- Eymann, Lewis C. Apparatus for ammoniation of phosphate materials. 2,946,666, 7-26-60, Cl. 23-259.1.
- Eynon, Benjamin A., and H. M. Schiefer, to Dow Corning Corp. Alkoxysilanes and their use as lubricants. 2,947,772, 8-2-60, Cl. 260-448.8.
- Eyster, Floyd E. Power turn for conveyors. 2,957,573, 10-25-60, Cl. 198-219.
- Ezaki, Reona, to Sony Corp. Semiconductor device. 2,959,719, 11-8-60, Cl. 317-235.
- Ezbelent, Georges. Pleating machine. 2,923,447, 2-2-60, Cl. 223-30.
- F.A.B. Mfg. Co.: *See*—  
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- F.lli Borletti S.p.A.: *See*—  
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- FM Engineering Co., Inc.: *See*—  
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- F.N.F. Machinery Mfg. Co. Ltd.: *See*—  
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- F.P. Research Ltd.: *See*—  
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- F-R Machine Works, Inc.: *See*—  
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- F.T. Products Ltd.: *See*—  
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- FWD Corp.: *See*—  
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- Fa. Bender-Werke G.m.b.H.: *See*—  
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- Fa. Boelkow-Entwicklungen Kommanditgesellschaft: *See*—  
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- Fa. Gustav Espey G.m.b.H., Duisburg: *See*—  
 Szlachetka, Anton. 2,962,291.
- Fa. Johannes Erhard H. Waldenmaier Erben: *See*—  
 Reppert, Karl. 2,923,522.
- Faasch, Werner, and H. Schade, to Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate. Twin lens reflex camera. 2,963,950, 12-13-60, Cl. 95-44.
- Faatz, Albert C., Jr., J. J. Lopoerto, and W. Wong, to Foster Wheeler Corp. Process for chemical reaction of fluids. 2,937,077, 5-17-60, Cl. 23-212.
- Fabbi, Anna: *See*—  
 Chiappetta, Helen A., and Fabbi. 2,931,048.
- Fabbi, Fabio: *See*—  
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- Fabbi, Fabio, and P. P. Chiappetta. Flush valves for toilet tanks. 2,940,084, 6-14-60, Cl. 4-57.
- Fabbrica Italiana Macchine Agiendali: *See*—  
 Abbondanza, Osvaldo. 2,927,676.
- Fabbrica Italiana Magneti Marelli S.p.A.: *See*—  
 Alfieri, Giuseppe. 2,962,000.  
 Alfieri, Giuseppe. 2,965,073.
- Fabbrica Italiana Valvole Radio Elettriche: *See*—  
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- Faber-Castell, A. W.: *See*—  
 Bachmann, Harald. 2,938,498.  
 Matschkal, Johann. 2,958,085.
- Faber, Edgar M., H. A. Scruton, and R. W. Peakes, to United States of America, War, trustee. Compounds for protection from vesicants. 2,920,986, 1-12-60, Cl. 117-168.
- Faber, Ernst, to Mauz & Pfeiffer. Vacuum cleaner end arrangement. 2,959,804, 11-15-60, Cl. 15-330.
- Faber, Jan W. H.: *See*—  
 Dunham, Kenneth R., Van Den Bergie, and Faber. 2,958,687.
- Faber, Lynn H., Sr.: *See*—  
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- Fabere, Raymond W., and R. C. Wegner, to Caterpillar Tractor Co. Steering linkage for wheel-type tractor. 2,948,546, 8-9-60, Cl. 280-95.
- Fabian, Leonard W., and G. W. Newton. Anesthetic vaporizer. 2,941,528, 6-21-60, Cl. 128-188.
- Fabric Research Laboratories, Inc.: *See*—  
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- Fabrica Italiana Magneti Marelli: *See*—  
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- Fabrique des Montres Solvil & Titus S.A.: *See*—  
 Vogel, Paul R. 2,938,327.
- Fabrique d'horlogerie Chs. Tissot & Fils S.A.: *See*—  
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- Fabriques Movado: *See*—  
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- Fabrizio, Nicholas: *See*—  
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- Fabula, Andrew: *See*—  
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- Fabula, Andrew, to Otis Elevator Co. Slow speed inspection device for moving stairway. 2,949,178, 8-16-60, Cl. 198-16.
- Faccou, Armand L., to Food Machinery and Chemical Corp. Swivel coupling with spring-urged ring pressing the seal. 2,927,805, 3-8-60, Cl. 285-95.
- Facer, John F., and W. L. Lyon, to United States of America, Atomic Energy Commission. Method of dissolving massive plutonium. 2,942,938, 6-28-60, Cl. 23-14.5.
- Facey, Stanley R., and P. W. P. Hancock. Piano. 2,947,210, 8-2-60, Cl. 84-177.
- Facs Mfg. Co., Inc., The: *See*—  
 Cunningham, Fred A., Klatt, Brown, and Slovacek. 2,934,001.
- Fadden, William J., Jr.: *See*—  
 Kuljian, Harry A., and Fadden. 2,941,786.
- Fader, Herbert E. Vehicle seat improvement. 2,922,416, 1-26-60, Cl. 128-57.
- Faerber, Harry W., to Time, Inc. Jogger mechanism-signatures delivered to stacking mechanism individually. 2,925,271, 2-16-60, Cl. 271-87.
- Faerber, Harry W., to Time, Inc. Safety lock structure for internal lockup printing cylinders. 2,928,342, 3-15-60, Cl. 101-378.
- Faerber, Harry W., to Time, Inc. Drive mechanism for web threading apparatus. 2,944,345, 7-12-60, Cl. 34-56.
- Faerber, Harry W., to Time, Inc. Photographic exposing apparatus. 2,947,234, 8-2-60, Cl. 95-76.
- Faerber, Harry W., to Time, Inc. Photographic developing apparatus. 2,947,235, 8-2-60, Cl. 95-93.
- Faerber, Gerhard, to Deutsche Solvay-Werke G.m.b.H. Concentration of aqueous acrylic acid. 2,922,815, 1-26-60, Cl. 260-526.
- Faerber, Gerhard, to Deutsche Solvay-Werke G.m.b.H. Process for the preparation of self-extinguishing epoxide resins. 2,959,571, 11-8-60, Cl. 260-77.5.
- Faerber, Gerhard, and F. Kälber, to Deutsche Solvay-Werke G.m.b.H. Production of concentrated acrylic acid. 2,934,562, 4-26-60, Cl. 260-533.
- Fafa, Jean, and R. Vic, to Compagnie Industrielle des Piles Electriques Cipel. Deferred-action battery energized by immersion in a liquid. 2,964,583, 12-13-60, Cl. 136-91.
- Fadick, Carl E., to Sylvania Electric Products Inc. Parasitic dipole slot antenna. 2,946,055, 7-19-60, Cl. 343-727.
- Fafnir Bearing Co., The: *See*—  
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 Van Dorn, Horace B., and Moran. 2,947,581.
- Fagan, Gordon E., and A. H. Tiefenbrunner, to General Mills, Inc. Merchandise display device. 2,941,670, 6-21-60, Cl. 211-49.
- Fagan, Louis N., to Esso Research and Engineering Co. Blowback system. 2,954,694, 10-4-60, Cl. 73-302.
- Fagan, Murray H., to American Stay Co. Support and protective receptacle for contact lens. 2,932,383, 4-12-60, Cl. 206-5.
- Fagan, Paul V.: *See*—  
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- Fagard, A. J., et Cie: *See*—  
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- Fagerlund, Yngve A. F., and B. O. Blomqvist, to Stockholms Superfosfat Fabriks Aktiebolaget. Container for storing and transport. 2,943,759, 7-5-60, Cl. 220-55.
- Fagge, Ralph D., deceased; S. A. Fagge, administratrix. Fixture-mounted spot welding gun. 2,944,525, 7-12-60, Cl. 121-38.
- Fagge, Sophie A.: *See*—  
 Fagge, Ralph D. 2,944,525.
- Fagiano, Carl R., to Borg-Warner Corp. One-way clutch and drag spring. 2,940,568, 6-14-60, Cl. 192-45.1.
- Fahland, Frank. Attaching head for a supporting cross bar. 2,950,935, 8-30-60, Cl. 287-58.
- Fahlen, Arne E.: *See*—  
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- Fahlenberg, Paul, to Compur-Werk Friedrich Deckel OHG. Photographic camera with automatic exposure setting. 2,943,545, 7-5-60, Cl. 95-10.



- Fahlman, Everett G.: *See*—  
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- Fahnoe, Frederick, and J. J. Shyne, to Vitro Corp. of America. Uranium dioxide impregnated compacts and method for making same. 2,938,839, 5-31-60, Cl. 204-1.5.
- Fahr, Morris. Dispenser for toilet lotions. 2,942,762, 6-28-60, Cl. 222-207.
- Fahrenbach, Wolfgang B., A. J. Tonna, and V. A. Sariotti, to Burgermeister Brewing Corp. Tray packing and forming machine. 2,932,929, 4-19-60, Cl. 53-159.
- Fahrni, Fred. Method for pressing boards composed of particles. 2,956,307, 10-18-60, Cl. 18-47.5.
- Faibusch, Pinkus. Airplane safety device embodying parachute and helicopter. 2,934,294, 4-26-60, Cl. 244-139.
- Failing, George E., Co.: *See*—  
Cornish, Eugene S. 2,962,906.
- Failing, Jay C. Drive for earth boring tools. 2,963,274, 12-6-60, Cl. 255-22.
- Fain, Jacob M., E. E. McDonnell, and S. Miller. Rain repellent compositions, method of application and base coated therewith. 2,962,390, 11-29-60, Cl. 117-64.
- Fainman, Morton Z., and P. C. Vienna, to Standard Oil Co. Extreme pressure lubricants. 2,941,945, 6-21-60, Cl. 252-48.6.
- Fainman, Morton Z., to Standard Oil Co. Silicone lubricating oil composition containing ester for improved lubricity and thermal stability. 2,950,250, 8-23-60, Cl. 252-49.6.
- Fair, Harry: *See*—  
Shelanski, Herman A. 2,931,777.
- Fairbairn, Eric P., to The General Electric Co. Ltd. Telecommunication systems. 2,933,560, 4-19-60, Cl. 179-15.
- Fairbairn, Robert L. Method of forming a bow side for a boat. 2,963,717, 12-13-60, Cl. 9-6.
- Fairbank, Murry N.: *See*—  
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- Herrick, George H., Prescott, and Moerk. 2,964,660.
- Rolfe, John B. 2,959,408.
- Fairbanks, Avarf F.: *See*—  
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- Fairbanks, Earl R., to United Refrigerator Co. Dispenser for beverages. 2,929,535, 3-22-60, Cl. 222-76.
- Fairbanks, Karl J., and A. K. Boyd, to Sherman Fairchild & Associates, Inc. Photographic flight analysis apparatus and system. 2,941,459, 6-21-60, Cl. 95-36.
- Fairbanks, Lyndoe E.: *See*—  
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- Fairbanks, Morse & Co.: *See*—  
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- Buss, Edward J., Fansher, Groves, and O'Donald. 2,956,189.
- Grauel, Ludwig J. 2,927,569.
- Hall, Malcolm S. 2,941,474.
- Lauler, Louis J., and Thorsson. 2,931,639.
- Lyons, Lawrence J. 2,927,784.
- Lyons, Lawrence J. 2,927,785.
- Thorsson, Matthew T. 2,936,165.
- Thorsson, Matthew T., and Lauler. 2,938,701.
- Fairchild Camera and Instrument Corp.: *See*—  
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- Doyle, Irving W., and Elliot. 2,943,209.
- Doyle, Irving W., and Hare. Re. 24,770.
- Doyle, Irving W., and Nash. 2,949,834.
- Fairchild, Sherman M. 2,924,653.
- Jones, Derrick A. 2,926,468.
- Jonke, Joseph L. 2,923,906.
- Levine, Samuel W., and Sigler. 2,919,635.
- Lindberg, Arthur F. 2,920,754.
- Lindberg, Arthur F. 2,928,467.
- Lindberg, Arthur F. 2,945,537.
- Neidle, Joel, and McCarthy. 2,948,209.
- Pollick, Berthold, and Hennessey. 2,944,476.
- Rosenthal, Adolph H. 2,943,315.
- Saykay, Joseph J. 2,939,121.
- Sigler, Harold, and Doran. 2,956,769.
- Svec, Jerry T. 2,934,948.
- Fairchild, Clem W.: *See*—  
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- Beck, Samuel J. 2,945,455.
- Fairchild, Donald H. Ball mill. 2,931,584, 4-5-60, Cl. 241-153.
- Fairchild Engine and Airplane Corp.: *See*—  
Balje, Otto E., and Dineen. 2,955,656.
- Blomquist, Albert E. 2,927,385.
- Blomquist, Albert E. 2,932,102.
- Cozzoli, Michael. 2,949,863.
- Deutsch, Edward J. 2,959,185.
- Flanagan, Robert M. 2,966,333.
- Gardner, Horace L. 2,966,332.
- Gregory, Alfred T. 2,951,631.
- Gross, Robert A. 2,963,864.
- Hunter, David U. 2,920,858.
- Hunter, David U. 2,955,745.
- Jairrett, Arthur D. 2,965,956.
- Jones, Everett E. 2,953,046.
- Kramer, Stanley I. 2,942,182.
- Lindbom, Torsten H. 2,952,217.
- Lindbom, Torsten H. 2,965,118.
- Miller, Carl D. 2,955,652.
- Mirza, Rio N. 2,938,337.
- Morrow, David, and Gregory. 2,921,645.
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- Fairchild Engine and Airplane Corp.: *See*—Continued  
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- Roccati, Arnold J. 2,964,849.
- Shube, Eugene E. 2,949,891.
- Stoner, Eugene M. 2,951,424.
- Weiler, John L. 2,936,197.
- White, James S., and Rucks. 2,931,616.
- Whitney, Vernon L., Jr., and Weiler. 2,961,847.
- Fairchild, Homer E., to E. I. du Pont de Nemours and Co. Insecticidal composition and method of destroying insects. 2,920,993, 1-12-60, Cl. 167-22.
- Fairchild, Homer E., to E. I. du Pont de Nemours and Co. Insecticidal composition comprising sesoxane and methoxychlor. 2,948,654, 8-9-60, Cl. 167-30.
- Fairchild, Merl K., C. W. Maxfield, and B. P. Brady, to North Corp. Inertia valve. 2,946,339, 7-26-60, Cl. 137-38.
- Fairchild Semiconductor Corp.: *See*—  
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- Fairchild, Sherman M., to Fairchild Camera and Instrument Corp. Apparatus for producing screened record sheets for image reproduction. 2,924,653, 2-9-60, Cl. 178-6.6.
- Fairclough, David: *See*—  
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- Fairey Aviation Ltd.: *See*—  
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- Fowler, John L. 2,956,408.
- Mattos, Frank G. 2,940,397.
- Pribram, Edwin. 2,945,641.
- Fairfax Mfg. Co., Inc.: *See*—  
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- Fairgrieve, Albert D. Foot rest, protector, and limb guard. 2,960,151, 11-15-60, Cl. 155-172.
- Fairmont Box Co.: *See*—  
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- Fairmont Railway Motors, Inc.: *See*—  
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- Fairstein, Edward, to United States of America, Atomic Energy Commission. Paralyzer for pulse height distribution analyzer. 2,922,036, 1-19-60, Cl. 250-27.
- Fairstein, Edward, to United States of America, Atomic Energy Commission. Non-blocking stabilized feed back amplifier. 2,927,165, 3-1-60, Cl. 179-171.
- Fairway Aviation Ltd.: *See*—  
Hislop, George S. 2,940,693.
- Faiveley, Louis. Current collecting device. 2,935,576, 5-3-60, Cl. 191-68.
- Faiver, Kenneth E., to General Motors Corp. Height adjuster for automobile suspension. 2,929,640, 3-22-60, Cl. 280-124.
- Faiver, Kenneth E., and R. W. Perkins, to General Motors Corp. Wheel hop damper. 2,955,841, 10-11-60, Cl. 280-124.
- Fakiris, Michael G. Equipment for the removal of phase and/or frequency modulation of a modulated oscillation. 2,922,878, 1-26-60, Cl. 250-27.
- Falatyn, Frank J.: *See*—  
Joy, Chester E., and Falatyn. 2,925,230.
- Falberg, Robert F., to General Motors Corp. Valve. 2,933,282, 4-19-60, Cl. 251-73.
- Falberg, Robert F., to General Motors Corp. Free piston engine starter. 2,956,396, 10-18-60, Cl. 60-14.
- Falcetti, Steve. Combined garden hose ground support and nozzle. 2,921,744, 1-19-60, Cl. 239-276.
- Falck-Pedersen, Kjell A., to Acme Steel Co. Coll unreeler. 2,933,261, 4-19-60, Cl. 242-78.7.
- Falco, Elvira A.: *See*—  
Hitchings, George H., Falco, and Ledig. 2,945,859.
- Hitchings, George H., Falco, and Roth. 2,953,567.
- Shore, Charles. 2,957,591.
- Falco, Eugene. Variable resistance device. 2,939,097, 5-31-60, Cl. 338-150.
- Falco, Michele. Device for molding meat balls. 2,949,629, 8-23-60, Cl. 17-32.
- Falco Products Co.: *See*—  
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- Shore, Charles, and Leshner. 2,944,625.
- Falconbridge Nickel Mines Ltd.: *See*—  
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- Thornhill, Philip G., and MacKay. 2,930,687.
- Falconer, Claude J. Diaper washing device. 2,959,046, 11-8-60, Cl. 68-181.
- Falconer, David G., to Emerson Radio & Phonograph Corp. Mail handling apparatus. 2,941,654, 6-21-60, Cl. 198-34.
- Falconer, David G., to Airtronic Inc. Pressure regulator. 2,960,107, 11-15-60, Cl. 137-484.2.
- Falconer, James D.: *See*—  
Barrer, Richard M., and Falconer. 2,934,429.
- Falendysz, Eugene L., and R. T. Lovrenich, to Sherman Products, Inc. Flow control valve. 2,926,634, 3-1-60, Cl. 121-40.
- Faler, John A.: *See*—  
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- Falge, Robert N.: *See*—  
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- Falk, Charles R. Collapsible lug wrench. 2,939,351, 6-7-60, Cl. 81-177.
- Falk, Charles T. Removable hinged covers for drums. 2,939,604, 6-7-60, Cl. 220-32.



- Falk Corp., The: *See*—  
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 Bade, Alfred G. 2,952,165.  
 Falk, Louis W., and Richardson. 2,943,504.  
 Richardson, William S. 2,952,347.  
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 Schmitter, Walter P., and Wiken. 2,926,542.  
 Wiken, Ralph. 2,920,497.  
 Wiken, Ralph. 2,952,081.
- Falk, Hans: *See*—  
 Ebneith, Harold, and Falk. 2,948,928.
- Falk, Harold W. Door closer. 2,920,338, 1-12-60, Cl. 16-66.
- Falk, Harold W. Door latch. 2,944,849, 7-12-60, Cl. 292-222.
- Falk, Joseph. Drill kit. 2,962,154, 11-29-60, Cl. 206-17.
- Falk, Klaus, and W. R. Taplin, to E. I. du Pont de Nemours and Co. Process of reacting organic compounds with sulfur trioxide. 2,923,728, 2-2-60, Cl. 260-459.
- Falk, Louis W., and W. S. Richardson, to The Falk Corp. Marine reduction gear transmission. 2,943,504, 7-5-60, Cl. 74-361.
- Falkenberg, Charles F.: *See*—  
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- Falkenburg, Fritz: *See*—  
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- Falkenstein, Louis F., to Consolidated Edison Co. of New York, Inc. Cable joint construction. 2,923,762, 2-2-60, Cl. 174-92.
- Fälker, Rudo: *See*—  
 Haupt, Günter, and Fälker. 2,926,273.
- Falkowski, Edward C., to Westinghouse Air Brake Co. Storage checking apparatus. 2,958,073, 10-25-60, Cl. 340-173.
- Fall, John F., and T. Crawford, to P. Spence. Regulating valve. 2,952,436, 9-13-60, Cl. 251-61.
- Fall, Wilfrid, to Pullman-Inc. Vehicle air conditioning and distributing apparatus. 2,923,223, 2-2-60, Cl. 98-10.
- Fallar, Frank P.: *See*—  
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- Fallen, Burke R. and J. S. Floor wax dispensing and spreading unit. 2,930,055, 3-29-60, Cl. 15-4.
- Fallen, James S.: *See*—  
 Fallen, Burke R. and J. S. 2,930,055.
- Fallert, Clifford D., to Crown Zellerbach Corp. Heavy-duty container for bulk material. 2,925,210, 2-16-60, Cl. 229-23.
- Fallert, Clifford D., to Crown Zellerbach Corp. Collapsible shipping container. 2,962,203, 11-29-60, Cl. 229-41.
- Fallin, William C., and C. D. Garcia. Automotive vehicle body construction. 2,936,842, 5-17-60, Cl. 180-69.
- Fallgatter, Wayne S.: *See*—  
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- Fallon, Joseph R., Jr., to BOMAC Laboratories Inc. Transmit-receive tube. 2,939,043, 5-31-60, Cl. 315-39.
- Falls, John J., to The Standard Electrical Tool Co. Method and apparatus for electrolytic shaping. 2,946,731, 7-26-60, Cl. 204-143.
- Falls Yarn Mills, Inc.: *See*—  
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- Falotico, Vincent L. Venetian blind. 2,920,694, 1-12-60, Cl. 160-114.
- Falstrom Co.: *See*—  
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- Faltejssek, Otto, S. Syříček, and M. Šperlin, to Sigma Lutin, narodni podnik. Devices for damping water shocks in pipelines. 2,954,047, 9-27-60, Cl. 137-494.
- Famatex G.m.b.H.: *See*—  
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- Famely, Max. Retaining clamps. 2,923,760, 2-2-60, Cl. 174-40.
- Famely, Max, and G. F. Leyonmark, to Photo Ceramics Corp. Reproduction of photographs on ceramics. 2,947,628, 8-2-60, Cl. 96-34.
- Familier, Henri: *See*—  
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- Fancher, James A.: *See*—  
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 Meyer, Curtis E., Fancher, and Schurr. 2,945,869.
- Fancher, Otis E., to Miles Laboratories, Inc. Preparation of 2-ethyl-cis-crotonylurea. 2,931,832, 4-5-60, Cl. 260-553.
- Fanders, Marten. Flush tank water level indicator. 2,947,280, 8-2-60, Cl. 116-118.
- Fangman, Donald J., to W. R. Curtis. Hydraulic crane. 2,956,691, 10-18-60, Cl. 212-35.
- Fank, Frederick B., to General Electric Co. High frequency energy interchange apparatus. 2,936,397, 5-10-60, Cl. 315-35.
- Fannen, John J., to Super Mold Corp. of California. Tire spreader. 2,923,527, 2-2-60, Cl. 254-50.3.
- Fannin, John D. Paint masking device. 2,930,348, 3-29-60, Cl. 118-505.
- Fansher, Guy R.: *See*—  
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- Fansteel Metallurgical Corp.: *See*—  
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- Fantaci, Dominic N. Hydraulic auto jack. 2,927,769, 3-8-60, Cl. 254-1.
- Fante, Harry H., and A. T. Gonla, to Rockwell-Standard Corp. Seat support. 2,920,684, 1-12-60, Cl. 155-14.
- Fante, Harry H., and A. T. Gonla, to Rockwell-Standard Corp. Machine for bending preformed sinuous wire. 2,940,480, 6-14-60, Cl. 140-71.
- Fanti, Roy A., to United Aircraft Corp. High-lift propeller blade section. 2,938,585, 5-31-60, Cl. 170-159.
- Fantozzi, Vincent J., and C. Stelmachowski, to Super-Cut, Inc. Method of and fixture for mounting abrasive segments on saw blades. 2,963,926, 12-13-60, Cl. 76-112.
- Farah, Benjamin. Baby bottle holder. 2,931,608, 4-5-60, Cl. 248-106.
- Farbenfabriken Bayer Aktiengesellschaft: *See*—  
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- Farnham, Alford G., L. Schechter, and J. Wynstra, to Union Carbide Corp. Process for preparing glycidyl polyethers of polyhydric phenols. 2,943,095, 6-28-60, Cl. 260-348.6.
- Farnham, Robert A., to California Research Corp. Radial flow reactor. 2,945,807, 7-19-60, Cl. 208-146.
- Farnham, Willard. Process of clarifying turbid water using cottrell flour and acidifying coagulant. 2,964,466, 12-13-60, Cl. 210-52.
- Farnholtz, Clarence. Ticket holder and tray. 2,931,489, 4-5-60, Cl. 206-19.5.
- Farnsworth, Frank F., H. E. Haring, and R. L. Taylor, to United States of America, Navy. Electrolytic time delay device. 2,962,965, 12-6-60, Cl. 102-16.
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- Farnsworth, Philo T., to International Telephone and Telegraph Corp. Color television receiver. 2,951,113, 8-30-60, Cl. 178-5.4.
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- Farrell, Edward G.,  $\frac{1}{2}$  to E. W. De Koning. Reclosing carton. 2,919,843, 1-5-60, Cl. 229-17.
- Farrell, Guy M., to Brandt Automatic Cashier Co. Coin changer. 2,921,591, 1-19-60, Cl. 133-2.
- Farrell, James H., and A. Pastuhov, to Constock Liquid Methane Corp. Expandable container for low-temperature fluid. 2,944,692, 7-12-60, Cl. 220-9.
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- Farrow, Benjamin J. Dowel-pin hole-boring jig. 2,928,441, 3-15-60, Cl. 144-253.
- Farrow, Carl V. Pressing-iron holder. 2,950,889, 8-30-60, Cl. 248-117.4.
- Farrow, Frederic W. R., to Siemens Edison Swan Ltd. Cathode structures for thermionic valves. 2,935,638, 5-3-60, Cl. 313-340.
- Farrow, Frederic W. R., to Siemens Edison Swan Ltd. Construction of thermionic valves. 2,960,619, 11-15-60, Cl. 313-260.
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- Farrow, John S., and C. B. Manley, Sr. Trailer hitch for car, truck or tractor. 2,940,775, 6-14-60, Cl. 280-415.
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- Fasciati, Alfred, R. Gunst, H. Riat, and K. Seitz, to Ciba Ltd. Monoazo and disazo triazine dyes. 2,945,021, 7-12-60, Cl. 260-153.
- Fasciati, Alfred, R. Gunst, H. Riat, and K. Seitz, to Ciba Ltd. Monoazo and disazo triazine dyes. 2,945,022, 7-12-60, Cl. 260-153.
- Fasoli, Leland S., and A. F. Ringwood, to General Electric Co. Process for applying numerals to neoprene wire. 2,920,384, 1-12-60, Cl. 29-407.
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- Fasoli, Paul A., to The Sandy Hill Iron & Brass Works. Paper making apparatus. 2,943,678, 7-5-60, Cl. 162-321.
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- Fassauer, Arthur L., and W. E. McClure; said Fassauer assor. to said McClure. Apparatus for forming concrete structures. 2,954,596, 10-4-60, Cl. 25-41.
- Fassero, Anthony T., and J. R. Maddox, to The James C. Heintz Co. Tire handling apparatus for retreading molds. 2,928,119, 3-15-60, Cl. 18-2.
- Fassero, James S.: *See—*
- Pierce, Maurice R., Fassero, and Wottring. 2,931,103.
- Fassoulis, Satisfis G.: *See—*
- Marks, Alvin M., M. M., and Fassoulis. 2,952,182.
- Fastener Corp.: *See—*
- Doyle, Richard H. 2,944,522.
- Wandel, Oscar A. 2,931,038.
- Wandel, Oscar A. 2,946,059.
- Wandel, Oscar A., and Mullaney. 2,953,117.
- Fastie, William G., and W. M. Sinton,  $17\frac{1}{2}\%$  to W. G. Finch. Spectroscopic device. 2,922,331, 1-26-60, Cl. 88-14.
- Fath, Douglas W., to Cutler-Hammer, Inc. Motor operated switch. 2,943,161, 6-28-60, Cl. 200-38.
- Fath, Douglas W., to Cutler-Hammer, Inc. Motor control system. 2,943,250, 6-28-60, Cl. 318-143.
- Fath, Douglas W., and C. E. Smith, to Cutler-Hammer, Inc. Graphic signaling and indicating control system. 2,932,414, 4-12-60, Cl. 214-18.
- Fath, Douglas W., and C. E. Smith, to Cutler-Hammer, Inc. Duplex scale car dumping system. 2,936,911, 5-17-60, Cl. 214-38.
- Fath, Douglas W., and C. E. Smith, to Cutler-Hammer, Inc. Material handling control system. 2,962,172, 11-29-60, Cl. 214-17.
- Fath, Douglas W., and C. E. Smith, to Cutler-Hammer, Inc. Selective system. 2,962,173, 11-29-60, Cl. 214-17.
- Fath, Douglas W., and C. E. Smith, to Cutler-Hammer, Inc. Blast furnace charging controller. 2,962,175, 11-29-60, Cl. 214-19.
- Fath, Joseph, to Heyden Newport Chemical Corp. Bimetallic organic compounds and compositions containing same. 2,934,548, 4-26-60, Cl. 260-429.7.
- Fathauer, George H., to Thompson Ramo Wooldridge, Inc. Television synchronizing pulse generator. 2,930,848, 3-29-60, Cl. 178-69.5.
- Fathauer, George H., to Thompson Ramo Wooldridge Inc. Automatic focusing circuit. 2,939,042, 5-31-60, Cl. 315-31.
- Fathauer, George H., to Thompson Ramo Wooldridge Inc. Power supply circuit. 2,963,619, 12-6-60, Cl. 315-27.



- Fathauer, George H., and R. C. Johnson, to Thompson Ramo Wooldridge Inc. Temperature compensated camera tube target supply. 2,942,148, 6-21-60, Cl. 315-31.
- Fatkin, Harry W., and R. W. Oberholtzer, to Warren-Knight Co. Surveying instruments. 2,922,225, 1-26-60, Cl. 33-46.
- Fau, Maurice. Baggage rack. 2,944,674, 7-12-60, Cl. 211-90.
- Faucher, J. A. R., and S. Dessureaux, to Technical Managers Inc. Flotation of niobium-bearing minerals. 2,959,281, 11-8-60, Cl. 209-12.
- Faughnder, Ila E. Pot and pan scraper. 2,957,192, 10-25-60, Cl. 15-236.
- Faught, Harold F., to United States of America, Navy. Stress limiting control system for an aviation gas turbine power plant. 2,926,488, 3-1-60, Cl. 60-35.6.
- Faulhaber, Fritz: *See*—  
Noack, Walter, and Faulhaber. 2,935,904.  
Trum, Franz, Seifert, and Faulhaber. 2,929,307.
- Faulhaber, Fritz, to Voigtlander Aktiengesellschaft. Device for bundling light for light measuring devices. 2,957,085, 10-18-60, Cl. 250-229.
- Faulhaber, Fritz, to Voigtlander A.G. Photoelectric exposure meter. 2,959,092, 11-8-60, Cl. 89-23.
- Faulk, Kenneth H., to Cities Service Research & Development Co. Removal of non-volatile components from a catalytic cracking feed using a reject cracking catalyst. 2,944,002, 7-5-60, Cl. 208-91.
- Faulk, Kenneth H., to Cities Service Refining Corp. Elutriation of solids. 2,949,245, 8-16-60, Cl. 241-5.
- Faulkner, Alfred H., to General Telephone Laboratories, Inc. Impulse generator with impulse relay. 2,927,254, 3-1-60, Cl. 317-142.
- Faulkner, Alfred H., to General Telephone Laboratories, Inc. Automatic electronic telephone system. 2,931,863, 4-5-60, Cl. 179-15.
- Faulkner, Alfred H., to General Telephone Laboratories, Inc. Cold cathode gas tube counting chain. 2,934,677, 4-26-60, Cl. 315-84.5.
- Faulkner, Alfred H., to General Telephone Laboratories, Inc. Electronic switching system. 2,938,961, 5-31-60, Cl. 179-18.
- Faulkner, Alfred H., to General Telephone Laboratories, Inc. Transistor trigger circuit. 2,939,018, 5-31-60, Cl. 307-88.5.
- Faulkner, Alfred H., to General Telephone Laboratories, Inc. Communication circuit. 2,939,112, 5-31-60, Cl. 340-168.
- Faulkner, Alfred H., to Automatic Electric Laboratories, Inc. Mechanical delay line. 2,946,968, 7-26-60, Cl. 333-30.
- Faulkner, Alfred H., to Automatic Electric Laboratories, Inc. Tone detector for coin control. 2,955,161, 10-4-60, Cl. 179-6.3.
- Faulkner, Alfred H., to Automatic Electric Laboratories, Inc. Transistorized stopping circuit for electromagnetic switch. 2,955,164, 10-4-60, Cl. 179-18.
- Faulkner, Charles E., to Spiegel, Inc. Automatic dispensing bin. 2,925,195, 2-16-60, Cl. 221-92.
- Faulkner, Douglas S.: *See*—  
Copland, William O., Faulkner, Merriman, and Sansum. 2,957,406.
- Faulkner, James E., to Lador, Inc. Music box assembly. 2,964,987, 12-20-60, Cl. 84-95.
- Faulkner, Thomas H.: *See*—  
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- Faulkner, Willard J.: *See*—  
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Morrison, James L. D., and Faulkner. 2,942,890.
- Faulkner, Willard J., to V-M Corp. Phonograph drive mechanism. 2,942,488, 6-28-60, Cl. 74-208.
- Faulkner, William H., Jr., and J. W. Shearer, to Tracerlab, Inc. Radiation thickness measurement. 2,922,888, 1-26-60, Cl. 250-83.6.
- Faulkner, William H., Jr., and W. R. Ellis, to Tracerlab, Inc. Hydrogen measurement. 2,966,587, 12-27-60, Cl. 250-43.5.
- Faulks, W. M. Portable electric jiffy duster. 2,944,365, 7-12-60, Cl. 43-148.
- Fauls, Everett S., Jr.: *See*—  
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- Faultless Rubber Co., The: *See*—  
Hoffman, Herbert O., and Weber. 2,927,709.
- Faure, Antoine. Loading means for concrete mixers and the like. 2,928,561, 3-15-60, Cl. 214-92.
- Faurote, Philip D.: *See*—  
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- Faust, Charles L., and J. E. Clifford, to The Cleveland Twist Drill Co. Sharpening, shaping and finishing of electrically conductive materials. 2,939,825, 6-7-60, Cl. 204-142.
- Faust, Francis S., to R. G. Wright Co., Inc. Closure for pre-mix container. 2,926,811, 3-1-60, Cl. 220-25.
- Faust, Harry C. Colled spring valve. 2,965,129, 12-20-60, Cl. 137-494.
- Faust, John A.: *See*—  
Sahyun, Melville, and Faust. 2,948,724.
- Faust, John A., and M. Sahyun, to M. Sahyun, d.b.a. Sahyun Laboratories. Pyrimidyl, imidazolyl and diazepinyl acetals and glycolates. 2,953,565, 9-20-60, Cl. 260-251.
- Faust, Ludwig: *See*—  
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- Faust, Martin H.: *See*—  
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- Faustel, Inc.: *See*—  
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- Fauth, Frederick E., to Crown Cork & Seal Co., Inc. Container inspection mechanism. 2,936,071, 5-10-60, Cl. 209-88.
- Fauth, Frederick E., to Crown Cork & Seal Co., Inc. Article feeding mechanism. 2,943,722, 7-5-60, Cl. 198-32.
- Fauth, Frederick E., to Crown Cork & Seal Co., Inc. Container sealing apparatus. 2,951,327, 9-6-60, Cl. 53-317.
- Fauth, Frederick E., to Crown Cork & Seal Co., Inc. Container inspection apparatus. 2,960,223, 11-15-60, Cl. 209-88.
- Fauvelot, Pierre E. R., to Societe Anonyme Etablissements Ed. Jaeger. Method and apparatus for measuring a magnitude such as a velocity of rotation. 2,935,683, 5-3-60, Cl. 324-70.
- Fava, Augusto. Material drier with troughing belts. 2,964,855, 12-20-60, Cl. 34-203.
- Favis, Dimitrios V., to Esso Research and Engineering Co. Selective ozone oxidation of hydrocarbons. 2,955,123, 10-4-60, Cl. 260-413.
- Favre, Robert, to Fabriques Movado. Indicating device for electronic countering circuit. 2,966,614, 12-27-60, Cl. 315-132.
- Faw, Wendell G., to Eastman Kodak Co. Bulk beamer process and apparatus for manufacturing bulk yarn. 2,956,328, 10-18-60, Cl. 28-32.
- Fawcett, Paul W.: *See*—  
Brouse, Shirley B., and Fawcett. 2,922,359.
- Fawcett, William L., to Phillips Petroleum Co. Olefin polymerization process. 2,964,514, 12-13-60, Cl. 260-94.9.
- Fawcett, William L., to Phillips Petroleum Co. Removing dispersed solids from a polymer solution. 2,965,629, 12-20-60, Cl. 260-94.9.
- Fawick Corp.: *See*—  
Banker, Oscar H. Re. 24,892.  
Weiser, Thomas D., and Bennett. 2,924,423.
- Fawkes, Donald G., to Henry Pratt Co., Inc. Butterfly valve seat. 2,923,524, 2-2-60, Cl. 251-306.
- Fawley, Harry, M. Golben, and D. J. Dube, to American Viscose Corp. Xanthate dissolver. 2,923,604, 2-2-60, Cl. 23-286.
- Faximile, Inc.: *See*—  
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Mandel, Gerald. 2,928,710.
- Fay, Bernard F.: *See*—  
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- Fay, Bernard F., to United States of America, Army. Flame-thrower. 2,952,309, 9-13-60, Cl. 158-28.
- Fay, Charles H.: *See*—  
Arbogast, James L., Fay, and Kaufman. 2,963,642.
- Fay, Clifford E., to Bell Telephone Laboratories, Inc. Magnetic tuned cavity resonator. 2,965,863, 12-20-60, Cl. 333-82.
- Fay, Homer, to Union Carbide Corp. Silent electric discharge light source. 2,943,223, 6-28-60, Cl. 313-201.
- Fay, James P. Pump. 2,919,652, 1-5-60, Cl. 103-153.
- Fay, James P. Breathing device. 2,939,456, 6-7-60, Cl. 128-142.
- Fay, James P. Breathing device. 2,939,457, 6-7-60, Cl. 128-142.
- Fay, James P. Breathing device. 2,939,471, 6-7-60, Cl. 137-64.
- Fay, John A.: *See*—  
Getchell, Robert M., Karig, and Fay. 2,965,112.
- Fay, Joseph G., and J. F. Ringelman, to Westinghouse Electric Corp. Impedance controlled magnetic amplifier. 2,964,695, 12-13-60, Cl. 323-89.
- Fay, Philip B.: *See*—  
Mosso, Isaac A., Fay, and Packman. 2,945,955.
- Fay, Philip S., and L. S. Szabo, to The Standard Oil Co. Process for producing anhydrides of heterocyclic boron compounds. 2,961,380, 11-22-60, Cl. 260-462.
- Fay, Robert B.: *See*—  
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- Fay, Rudolph J., to Peters Machinery Co. Sandwich assembly and packaging machine. 2,936,557, 5-17-60, Cl. 53-159.
- Faye, Martin, and J. B. Doughty, to West Virginia Pulp and Paper Co. Method of recovering vitamin B<sub>3</sub> with modified wood lignin. 2,958,690, 11-1-60, Cl. 260-211.5.
- Fayeton, Jean L., 25% to H. Lefaire, 25% to R. Quillery, and 25% to Schmid, Bruneton & Morin. Method of erecting buildings. 2,964,143, 12-13-60, Cl. 189-1.
- Fayhee, Paul E. Crop preserving structures and methods. 2,952,541, 9-13-60, Cl. 99-8.
- Fayolle, Marcel: *See*—  
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- Fayolle, Marius: *See*—  
Ancet, Victor M. J., and Fayolle. 2,960,118.
- Fazekas, Charles, to Pneumafil Corp. Container opening means. 2,958,942, 11-8-60, Cl. 30-6.1.
- Fazekas, Leslie J. Illuminated house number plate. 2,958,969, 11-8-60, Cl. 40-130.
- Fazenbaker, Norris E. Metal buckle and strap. 2,920,367, 1-12-60, Cl. 24-179.
- Fazio, Patsy J. Elevating tray for automobiles. 2,947,585, 8-2-60, Cl. 311-21.
- Fazio, Thomas: *See*—  
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- Fazzalari, Frank A., to Republic Steel Corp. Mechanism for supporting and spacing sheets. 2,960,325, 11-15-60, Cl. 263-47.
- Feagan, Robert A., Jr., to Pan American Petroleum Corp. Conversion of hydrogen sulfide into free sulfur. 2,919,976, 1-5-60, Cl. 23-225.
- Feagin, Robert L., and R. L. Carriel, to AFC Industries, Inc. Closure assembly. 2,954,894, 10-4-60, Cl. 220-25.
- Feagin, Robert L., and R. L. Carriel, to ACF Industries, Inc. Apparatus for opening and closing a closure. 2,959,320, 11-8-60, Cl. 220-25.
- Feagin, Frank J.: *See*—  
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- Feagin, Frank J., and C. R. Wischmeyer, to Jersey Production Research Co. Correlator for zero crossing pulses obtained from seismograms. 2,920,306, 1-5-60, Cl. 340-15.
- Feagin, Frank J., M. R. MacPhail, and W. M. Rust, Jr., to Jersey Production Research Co. Method and apparatus for interpreting geophysical data. 2,927,656, 3-8-60, Cl. 181-5.
- Feagin, Frank J., M. R. MacPhail, and W. M. Rust, Jr., to Jersey Production Research Co. Interpretation of geophysical data. 2,928,071, 3-8-60, Cl. 340-15.
- Fear, James V. D.: *See*—  
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- Fear, James V. D., to Sun Oil Co. Hydrofining followed by heat stabilizing. 2,928,787, 3-15-60, Cl. 208-212.
- Fear, James V. D., to Sun Oil Co. Centrifugal separation of wax and oil. 2,937,985, 5-24-60, Cl. 208-33.
- Fear, James V. D., to Sun Oil Co. Manufacture of lubricating oils. 2,952,610, 9-13-60, Cl. 208-36.
- Fear, James V. D., to Sun Oil Co. Removal of metals and other non-hydrocarbons by hydrogenation. 2,952,628, 9-13-60, Cl. 208-251.
- Fearn, Ronald W.: *See*—  
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- Fearnside, Kenneth, to Industrial Machinery Co. Ltd. Indicating or measuring apparatus. 2,922,884, 1-26-60, Cl. 250-71.
- Fearnside, Kenneth, to Industrial Machinery Co. Ltd. Amplifier system for radioactive monitor. 2,957,988, 10-25-60, Cl. 250-71.5.
- Fearon, John E., and F. S. Stow, to The Allen-Sherman-Hoff Pump Co. Centrifugal pump. 2,938,467, 5-31-60, Cl. 102-111.
- Fearon, Robert E.: *See*—  
Thayer, Jean M., and Fearon. 2,963,584.
- Feaster, Gene R., to Westinghouse Electric Corp. High temperature metallic joint. 2,945,295, 7-19-60, Cl. 29-494.
- Feaster, Gene R., and J. L. McIntyre, to Westinghouse Electric Corp. Electron device. 2,965,793, 12-20-60, Cl. 313-346.
- Febvre, Edmond: *See*—  
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- Febre, Roberto E., to International Harvester Co. Automatic disk shifting device for two and three disk reversible plow. 2,939,538, 6-7-60, Cl. 172-209.
- Fechheimer, Paul R.: *See*—  
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- Fechter, Edward C., to Hamilton Watch Co. Method and machine for grinding rolls. 2,934,862, 5-3-60, Cl. 51-95.
- Fechter, James L., and E. E. Stallard, to Southern California Aircraft Corp. Automatic vote-tallying machine. 2,940,663, 6-14-60, Cl. 235-56.
- Fecker, J. W., Inc.: *See*—  
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- Fedak, Elmer. Valve rocker arm guide. 2,955,581, 10-11-60, Cl. 123-90.
- Fedak, John. Fishing float attaching mechanism. 2,929,169, 3-22-60, Cl. 43-44.91.
- Fedde, George A., to Philco Corp. Signal generating circuit. 2,939,089, 5-31-60, Cl. 331-158.
- Fedde, Harry W., 50% to R. H. Sharpe. Scaffold truck. 2,959,244, 11-8-60, Cl. 182-63.
- Fedders Corp.: *See*—  
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- Kelly, Kenneth L., and Hoffman. 2,943,834.
- Fedders-Quigan Corp.: *See*—  
Mercatanti, Louis F. 2,935,007.
- Feden, Michael. Riding toy. 2,936,181, 5-10-60, Cl. 280-1184.
- Feder, Edgard. Container. 2,929,543, 3-22-60, Cl. 229-41.
- Feder, Harold M.: *See*—  
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- Knighton, James B., and Feder. 2,934,425.
- Feder, Harold M., and N. R. Chellew, to United States of America, Atomic Energy Commission. Method of protecting tantalum crucibles against reaction with molten uranium. 2,949,390, 8-16-60, Cl. 148-6.
- Federal Carton Corp.: *See*—  
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- Federal Electric Products Co.: *See*—  
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- Federal Industries, Inc.: *See*—  
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- Federal Laboratories, Inc.: *See*—  
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- Weinert, Carl R. 2,959,127.
- Federal Machine & Welder Co., The: *See*—  
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- Longfield, William F. 2,951,379.
- Federal-Mogul-Bower Bearings, Inc.: *See*—  
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- Corsi, George L. 2,950,506.
- Dovey, Arnold J. 2,919,937.
- Martin, Paul S. 2,923,795.
- McGranahan, Robert S. 2,932,428.
- Norden, Alexander R. 2,923,788.
- Peickii, Vasalie L., and Christensen. 2,926,035.
- Peickii, Vasalie L., and McCandless. 2,932,535.
- Probst, Robert L., Le Brasse, and Karp. 2,946,681.
- Federal Pacific Electric Co.: *See*—  
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- Christensen, Paul M., Landeck, and St. John. 2,950,837.
- Cole, Thomas M. 2,921,240.
- Cole, Thomas M., and Wingard. 2,944,129.
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- Federal Paper Board Co., Inc.: *See*—  
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- Arneson, Edwin L. 2,928,580.
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- Arneson, Edwin L. 2,944,719.
- Arneson, Edwin L. 2,955,737.
- Emrick, Clyde L. 2,955,706.
- Williamson, Marshall I. 2,944,718.
- Williamson, Marshall I. 2,946,436.
- Williamson, Marshall I. 2,946,498.
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- Williamson, Marshall I. 2,946,620.
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- Federal Screw Works: *See*—  
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- Federal Tool Corp.: *See*—  
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- Press, John E., and Mark. 2,937,783.
- Federico, Joseph B., to Carrier Corp. Air conditioning assembly. 2,961,846, 11-29-60, Cl. 62-261.
- Federighi, George J., and T. H. Noren. Apparatus for injecting drying agent into rinse spray of dishwashing machine. 2,941,725, 6-21-60, Cl. 239-61.
- Federighi, George J., and T. H. Noren. Automatic drying agent rinse injector for dishwashing machines. 2,948,436, 8-9-60, Cl. 222-54.
- Federighi, George J., and T. H. Noren. Dishwashing machine provided with a garbage grinder disposal unit. 2,949,120, 8-16-60, Cl. 134-115.
- Federkiel, Wilhelm: *See*—  
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- Eisele, Julius, Federkiel, Schuster, and Maier. 2,925,314.
- Federn, Klaus, to Carl Schenck Maschinenfabrik G.m.b.H. Linking device for movable parts. 2,920,498, 1-12-60, Cl. 74-470.
- Fedorka, Ernest P.: *See*—  
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- Feenstra, Eben: *See*—  
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- Fees, Thelma S. Hair divider and measurer for braiding. 2,930,385, 3-29-60, Cl. 132-45.
- Feffer, Philip C.: *See*—  
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- Fegan, Frank R., to International Telephone and Telegraph Corp. Rectifier stack and spacing contact washer therefor. 2,934,684, 4-26-60, Cl. 317-234.
- Fegely, Hugh S., to Westinghouse Electric Corp. Automatic fault finder system. 2,957,107, 10-18-60, Cl. 315-132.
- Fegley, Marian F.: *See*—  
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- Fehér, Cecil W.: *See*—  
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- Fehlborg, Chester H., and W. A. Lerg, to General Motors Corp. Adjustable suspension for vehicle driving wheels. 2,919,760, 1-5-60, Cl. 180-73.
- Fehling, Heinz, to Licentia Patent-Verwaltungs-G.m.b.H. Supplementary blow-out means for high-speed D.C. switches. 2,922,926, 1-26-60, Cl. 317-11.
- Fehling, Heinz, to Licentia Patent-Verwaltungs-G.m.b.H. High speed electromagnetic electroresponsive device. 2,941,122, 6-14-60, Cl. 317-50.
- Fehling, Heinz, to Licentia Patent-Verwaltungs-G.m.b.H. Circuit breaker. 2,945,109, 7-12-60, Cl. 200-147.
- Fehlner, Leo F. Paravane. 2,960,960, 11-22-60, Cl. 114-235.
- Fehn, Frank P., Sr.: *See*—  
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- Fehn, Frank P., Sr., to E. W. Bliss Co. Torque transmitting mechanism. 2,931,928, 4-5-60, Cl. 310-95.
- Fehn, Frank P., Sr., to E. W. Bliss Co. Control circuit for motor-clutch device. 2,941,137, 6-14-60, Cl. 318-161.
- Fehner, Robert H.: *See*—  
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- Lodge James R., and Fehner. 2,951,770.



- Fehr, Henri, to Societe Anonyme dite: Compagnie de Construction Mecanique Procèdes Sulzer. Synchronous homopolar magnetic clutch. 2,939,023, 5-31-60, Cl. 310-105.
- Fehr, Henri, to Societe Anonyme dite: Compagnie de Construction Mecanique Procèdes Sulzer. Magnetic brake. 2,951,956, 9-6-60, Cl. 310-93.
- Feibelman, Hans J., to Coro Inc., of Rhode Island. Container attachment. 2,960,256, 11-15-60, Cl. 220-85.
- Feibush, Alexander, to Alex Mfg. Corp. Safety devices for contained fluid pressure systems. 2,921,440, 1-19-60, Cl. 60-54.5.
- Feibush, Alexander, to Alex Mfg. Corp. Safety sealing device for oil brakes. 2,958,335, 11-1-60, Cl. 137-460.
- Feicht, Earl, to Stewart-Warner Corp. Valve arrangement for a fluid motor. 2,939,433, 6-7-60, Cl. 121-158.
- Feichtinger, Hans, to Ruhrchemie Aktiengesellschaft. 4.5.6. 7.10.10 - hexachloro - 4.7 - methylene - 4.7.8.9 - tetrahydroindane-sulfonic acid, salts and acid amides thereof. 2,921,958, 1-19-60, Cl. 260-501.
- Feichtinger, Hans, and H.-W. Linden, to Ruhrchemie Aktiengesellschaft. Production of insecticidally active compound. 2,921,097, 1-12-60, Cl. 260-648.
- Feichtinger, Heinrich, to Balzers Patent-und-Lizenz Anstalt. Gas conveying devices. 2,950,856, 8-30-60, Cl. 230-85.
- Feick, George, and H. F. Stedman, to Dictaphone Corp. Production of acicular iron particles. 2,936,286, 5-10-60, Cl. 252-62.5.
- Feierabend, Louis B.: See—  
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- Feiertag, Karl M.: See—  
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- Feiertag, Karl M., and L. J. Neuls, to General Electric Co. Machine mounting assembly. 2,957,665, 10-25-60, Cl. 248-19.
- Feig, Jerome H., to Marvin Electric Mfg. Co. Recessed lighting fixture. 2,929,920, 3-22-60, Cl. 240-78.
- Feigelman, Samuel. Apparatus for cleaning and drying paint brushes and rollers. 2,965,111, 12-20-60, Cl. 134-135.
- Feigheffer, Hans. Two-ring rotary bearing. 2,928,698, 3-15-60, Cl. 308-72.
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- Feigley, David A., Jr., and L. N. Ray, Jr., to Armstrong Cork Co. Controlled precipitation of rubber onto asbestos fibers. 2,940,893, 6-14-60, Cl. 162-155.
- Feil, Edward L., to The Clark Controller Co. Hand operated switch. 2,956,135, 10-11-60, Cl. 200-116.
- Feld, Alexander L., Jr., to E. I. du Pont de Nemours and Co. Molding composition and process for producing same. 2,948,627, 8-9-60, Cl. 106-38.5.
- Feld, George B., to Hercules Powder Co. Stable flameproof polyethylene composition. 2,962,464, 11-29-60, Cl. 260-28.5.
- Feiler, Leonard: See—  
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- Fein, Louis. Magnetic amplifier devices. 2,930,983, 3-29-60, Cl. 330-8.
- Fein, Martin L., and E. M. Filachione, to United States of America. Agriculture. Tanning with glutaraldehyde. 2,941,859, 6-21-60, Cl. 8-94.33.
- Feinberg, Seymour J.: See—  
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- Feindler, Ernst, to Leitz, Ernst G.m.b.H. Driving mechanism for microtome. 2,949,817, 8-23-60, Cl. 38-40.
- Feiner, Richard. Milling machine for graining panels. 2,940,489, 6-14-60, Cl. 144-136.
- Feingold, William R.: See—  
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- Feinstein, Joseph, to Bell Telephone Laboratories, Inc. Magnetron. 2,951,182, 8-30-60, Cl. 315-39.53.
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- Feinstone, Wolfe H. Silicone composition for the relief of gastro-intestinal distress and method of using same. 2,951,011, 8-30-60, Cl. 167-55.
- Feissel, Henri, to International Standard Electric Corp. Pulse code modulation demodulator. Re. 24,790, 3-8-60, Cl. 250-27.
- Felst, Anton, and D. E. Taylor, to United States Rubber Co. Curing bags for repairing tires. 2,944,290, 7-12-60, Cl. 18-45.
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- Fekete, Frank, to Union Carbide Corp. Organosilicon compounds. 2,920,094, 1-5-60, Cl. 260-448.2.
- Fekete, Frank, to Pittsburgh Plate Glass Co. Acrylyloxy triazines, method of making same, and polymerization products therefrom. 2,934,525, 4-26-60, Cl. 260-88.1.
- Fekete, Frank, to Union Carbide Corp. Silicone compounds and elastomers prepared therefrom. 2,954,357, 9-27-60, Cl. 260-29.1.
- Feketics, Frank, to Shielding, Inc. Partition in shielding construction. 2,924,638, 2-9-60, Cl. 174-35.
- Felbeck, George T. Silo unloading apparatus and process. 2,930,498, 3-29-60, Cl. 214-17.
- Felbeck, George T., to Union Carbide Corp. Strata mining-adjacent seam hardness indicator. 2,959,405, 11-8-60, Cl. 262-7.
- Felburn, John P. Trailer assembly. 2,959,428, 11-8-60, Cl. 280-426.
- Felch, Edwin P., and R. A. Sykes, to Bell Telephone Laboratories, Inc. Constant frequency source. 2,959,742, 11-8-60, Cl. 331-14.
- Feldbauer, George F., Jr., C. E. Jahnig, and N. J. Weinstein, to Esso Research and Engineering Co. Gasoline hydrocarbon separation recovery process utilizing molecular sieves. 2,920,038, 1-5-60, Cl. 208-310.
- Feldbauer, George F., Jr., C. E. Jahnig, and N. J. Weinstein, to Esso Research and Engineering Co. Gasoline hydrocarbon separation recovery process using zeolitic molecular sieves. 2,944,092, 7-5-60, Cl. 260-676.
- Felder, John L. Wall facing. 2,949,763, 8-23-60, Cl. 72-19.
- Feldhake, Herbert J. Mathematical formula demonstrator. 2,929,159, Cl. 35-34.
- Feldhausen, Cyril P., to Cutler-Hammer, Inc. Electric motor controllers. 2,947,930, 8-2-60, Cl. 318-210.
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- Feldkamp, Roland F., and Y. H. Wu, to Mead Johnson & Co. 10 - (1 - substituted - 3 - pyrrolidylmethyl) phenothiazines. 2,945,855, 7-19-60, Cl. 260-243.
- Feldman, Allan M., and E. F. Hosterman, to American Cyanamid Co. Cyanamide derivatives. 2,927,842, 3-8-60, Cl. 23-78.
- Feldman, Carl B. H.: See—  
Carbrey, Robert L., and Feldman. 2,961,492.
- Feldman, Charles, to United States of America, Navy. Method of forming thin films of barium titanate. 2,922,730, 1-26-60, Cl. 117-221.
- Feldman, Daniel J., and P. Zizan; said Zizan assor. to said Feldman. Apparatus for dispensing liquid concentrates from their original containers. 2,955,726, 10-11-60, Cl. 222-76.
- Feldman, Jacob R., H. S. Levenson, and W. V. White, to General Foods Corp. Process for preparing soluble coffee. 2,947,634, 8-2-60, Cl. 99-71.
- Feldman, Louis I.: See—  
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- Feldman, Louis I., N. E. Rigler, and A. J. Shay, to American Cyanamid Co. Process for the 1-hydroxylation of steroids by mortierella. 2,962,423, 11-29-60, Cl. 195-51.
- Feldman, Marshall H. Aerial toy. 2,927,753, 3-8-60, Cl. 244-155.
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- Feldman, Nathan W., and T. E. Jacobs, to United States of America, Army. Transistorized relay. 2,922,148, 1-19-60, Cl. 340-248.
- Feldman, Nathan W. Crosstalk cancellation in signal communication system. 2,943,272, 6-28-60, Cl. 333-1.
- Feldmann, Alfred G., and E. M. Schultz, to Deluxe Service Tool Corp. Inserted tooth saw blade. 2,965,143, 12-20-60, Cl. 143-133.
- Feldmeyer, Erich, and E. Schallus, to Knapsack-Griesheim Aktiengesellschaft. Singlephase or polyphase electric arc device for producing gas currents having a high energy density. 2,923,811, 2-2-60, Cl. 219-121.
- Feldon, O. A.: See—  
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- Feldstein, Maksymilian, and H. J. Friend. Thread pulling and winding device. 2,926,416, 3-1-60, Cl. 28-17.
- Felefax Inc.: See—  
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- Felgar, Donald N., and N. L. Dickinson, to The Babcock & Wilcox Co. Method for generating steam. 2,954,758, 10-4-60, Cl. 122-459.
- Feliks, Joseph, to Woven Arts, Inc. Elastic woven product with stiff fillers. 2,961,009, 11-22-60, Cl. 139-384.
- Felix, Ernst: See—  
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- Felix, Guy H. Tongue for trailers. 2,938,642, 5-31-60, Cl. 214-505.
- Felix, John L., to United States of America, Navy. Latch mechanism. 2,931,231, 4-5-60, Cl. 74-2.
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- Felkel, George E.: See—  
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- Felker, Jean H.: See—  
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- Felker, Jean H., to Bell Telephone Laboratories, Inc. Square root computer. 2,934,268, 4-26-60, Cl. 235-158.
- Felker, Maurice H., to Scott & Williams, Inc. Multi-feed circular knitting machine. 2,919,566, 1-5-60, Cl. 66-168.
- Fell, William B. Precision threaded adjustment. 2,940,784, 6-14-60, Cl. 287-62.
- Fellenbaum, Forrest M.: See—  
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- Feller, Arthur G. Tray mechanism for beauty operators. 2,954,955, 10-4-60, Cl. 248-226.
- Feller, Morris, to Standard Oil Co. Isomerization process. 2,960,551, 11-15-60, Cl. 260-683.2.
- Feller, Morris, and E. Field, to Standard Oil Co. Polymerization process. 2,921,058, 1-12-60, Cl. 260-94.9.



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- Feller, Robert G.: *See—*  
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- Feller, Willis E. Windshield wiper assembly. 2,936,477, 5-17-60, Cl. 15—250.19.
- Fellerman, Bernard F., to Smiths America Corp. Electrical indicators. 2,926,305, 2-23-60, Cl. 324—147.
- Felletschin, Günter, to Dehydtag, Deutsche Hydrierwerke G.m.b.H. Paraffin emulsions for protection of masonry surfaces during setting. 2,928,752, 3-15-60, Cl. 106—268.
- Fellner, Morris J.: *See—*  
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- Fellows, Charles G.: *See—*  
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- Fellows, Leslie R., to Armstrong Siddeley Motors Ltd. Drive connection between a starter motor and an engine. 2,921,473, 1-19-60, Cl. 74—7.
- Felsa, S. A.: *See—*  
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- Felsen, Leopold B., and W. K. Kahn, to Polytechnic Institute of Brooklyn. Sampling device for TEm mode in circular waveguides. 2,963,662, 12-6-60, Cl. 333—9.
- Felski, Kazimierz: *See—*  
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- Felt Products Mfg. Co.: *See—*  
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- Felters Co., The: *See—*  
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- Feltham, Charles F., Jr., to Hazeltine Research, Inc. Radar synchronizing apparatus. 2,954,554, 9-27-60, Cl. 343—100.
- Felts, Basil B. Depressible steering wheel for automotive vehicles. 2,929,262, 3-22-60, Cl. 74—493.
- Felts, Basil B. Depressible steering wheel for automotive vehicles. 2,929,263, 3-22-60, Cl. 74—493.
- Felts, Basil B. Safety curtain for automotive vehicles. 2,942,913, 6-28-60, Cl. 296—84.
- Felts, Jerome J., to Ford Motor Co. Motor vehicle wheel suspension. 2,935,334, 5-3-60, Cl. 280—96.2.
- Felts, Jerome J., to Ford Motor Co. Brake seal. 2,952,339, 9-13-60, Cl. 188—218.
- Felver, Richard I., to Westinghouse Air Brake Co. Houses. 2,963,121, 12-6-60, Cl. 189—2.
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- Fender, Orie A. Warm air register. 2,935,008, 5-3-60, Cl. 98—40.
- Fendius, Kurt, and K. Riecke, to P. Beiersdorf & Co. A.G. Process for the production of self-adhesive sheets or tapes. 2,937,956, 5-24-60, Cl. 117—76.
- Fenemore, Alan S., and A. B. J. Reece, to The English Electric Co. Ltd. Electro-magnetic devices. 2,920,571, 1-12-60, Cl. 103—1.
- Fener, Alfred, to N. Langer. Apparatus for heat sealing and severing thermoplastic films. 2,961,031, 11-22-60, Cl. 154—42.
- Fenerty, Michael J., to Aluminum Laboratories Ltd. Production of fused alumina. 2,961,296, 11-22-60, Cl. 23—142.
- Fenerty, Michael J., to Aluminum Laboratories Ltd. Process for producing alumina of low soda content. 2,961,297, 11-22-60, Cl. 23—142.
- Fenestra Inc.: *See—*  
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- Fenlak, George, A. Loria, and W. A. Reckhow, to Eastman Kodak Co. Photographic emulsions containing 5-pyrazolone coupler compounds. 2,933,391, 4-19-60, Cl. 96—100.
- Fenimore, George S. Sprayer bell. 2,928,610, 3-15-60, Cl. 239—288.
- Fenit, Robert D., and J. E. Janssen, to Minneapolis-Honeywell Regulator Co. Thaw indicator. 2,955,942, 10-11-60, Cl. 99—192.
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- Fenn, George C., and J. Trope. Bottle inspection apparatus and method. 2,945,588, 7-19-60, Cl. 209—111.
- Fenn, Lawrence E. Cigar lighter. 2,932,716, 4-12-60, Cl. 219—32.
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- Fenn, Lawrence E., to Casco Products Corp. Heating element for cigar lighters. 2,959,663, 11-8-60, Cl. 219—32.
- Fenn, Lawrence E., to Casco Products Corp. Cigar lighter heating element. 2,959,664, 11-8-60, Cl. 219—32.
- Fenn, Lawrence E., and H. G. Lehmann; said Lehmann assor, to said Fenn. Power actuated dirigible spotlight. 2,921,183, 1-12-60, Cl. 240—61.1.
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- Fenske, Douglas H., and R. T. Sorensen, to International Minerals & Chemical Corp. Cyclone separator. 2,929,501, 3-22-60, Cl. 209—144.
- Fenske, Merrell R., and W. G. Braun, to Esso Research and Engineering Co. Heat transfer method for solvent recovery and aromatic crystallization. 2,920,120, 1-5-60, Cl. 260—674.
- Fentiman, Arthur E.: *See—*  
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- Fentiman, Arthur E., to C. F., A. E., and H. G. Fentiman, trading as Triodetic Structures. Structural framework. 2,931,467, 4-5-60, Cl. 189—34.
- Fentiman, Arthur E., to C. F., A. E., and H. G. Fentiman, d.b.a. Triodetic Structures. Truss and components therefor. 2,964,147, 12-13-60, Cl. 189—34.
- Fentiman, Clarence F.: *See—*  
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- Fenton, Frank W., to Beacon Production Equipment Corp. Pattern-determining apparatus for pallet loader. 2,947,405, 8-2-60, Cl. 198—35.
- Fentress, Arthur L., to Ethyl Corp. Purification device for alkali metal cells. 2,944,955, 7-12-60, Cl. 204—245.
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- Ferguson, Rector C., to Allis-Chalmers Mfg. Co. Cotton harvester. 2,919,954, 1-5-60, Cl. 302—17.
- Ferguson, Rector C., to Allis-Chalmers Mfg. Co. Pitman. 2,941,419, 6-21-60, Cl. 74—581.
- Ferguson, Rector C., to Allis-Chalmers Mfg. Co. Load supporting structure and attachment means for a tractor. 2,957,726, 10-25-60, Cl. 298—1.
- Fergus, John H.: *See—*  
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- Ferguson, Carl, and W. A. Foley. Method for reactivating storage batteries. 2,935,675, 5-3-60, Cl. 320—4.
- Ferguson, Edgar A., Jr. Nicotinic acid substituents of barbituric acid. 2,921,072, 1-12-60, Cl. 260—256.4.
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- Ferguson, Edgar A., Jr. Nicotinoyl hydantoin. 2,945,042, 7-12-60, Cl. 260—296.
- Ferguson, Edgar A., Jr. Isobeeberine nicotinate. 2,947,741, 8-2-60, Cl. 260—236.
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- Ferguson, Elton O. Car top tent. 2,942,609, 6-28-60, Cl. 135—1.
- Ferguson, George D., to Simonds Saw and Steel Co. Bits and shanks for inserted tooth saw. 2,934,105, 4-26-60, Cl. 143—151.
- Ferguson, Harry D., Jr., to Philco Corp. Apparatus for treatment of gases. 2,925,534, 2-16-60, Cl. 317—4.
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- Ferguson, Henry A., R. C. Boyle, and E. Jedrzykowski, to International Harvester Co. Interconnected main clutch control and planetary gear lock-up release for relieving reactive force in a change-speed power transmission train. 2,945,570, 7-19-60, Cl. 192—3.6.
- Ferguson, Hugh J., to Waco-Porter Corp. Adjustable leg attachment for a shoring panel. 2,963,257, 12-6-60, Cl. 248—354.
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- Ferguson, William, to National Airoil Burner Co., Inc. Flame retention gas burner nozzles. 2,932,349, 4-12-60, Cl. 158—116.
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- Ferm, Joseph S., to Northrop Corp. Component lead former. 2,963,053, 12-6-60, Cl. 140—123.
- Ferm, Olaf G. Apparatus for feeding wires into conduits. 2,946,558, 7-26-60, Cl. 254—134.3.
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- Fermi, Enrico, to United States of America, Atomic Energy Commission. Neutronic reactor. 2,931,762, 4-5-60, Cl. 204—193.2.
- Fernald, Herbert B., to Gulf Research & Development Co. Process for removing acetylene from ethylene. 2,953,608, 9-20-60, Cl. 260—667.
- Fernald, Olaf H., to Westinghouse Electric Corp. Color television apparatus. 2,962,621, 11-29-60, Cl. 315—8.
- Fernandez, Enrique. Clutching mechanisms for washing machines including an agitator. 2,947,159, 8-2-60, Cl. 68—23.
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- Fernandez-Rivas, Luis A., and A. M. Spielberg, to Radio Corp. of America. Magnetic recording error control. 2,919,968, 1-5-60, Cl. 346—74.
- Fernberg, Eric B., to F.T. Products Ltd. Fasteners. 2,932,866, 4-19-60, Cl. 24—73.
- Fernberg, Eric B., to F.T. Products Ltd. Fastener for insignia. 2,940,145, 6-14-60, Cl. 24—81.
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- Ferneau, Richard H. Multiple position elevating cot. 2,958,873, 11-8-60, Cl. 5—86.
- Fernholz, Hans, E. Mundlos, and O. Probst, to Farbwerke Hoechst Aktiengesellschaft, vormals Meister Lucius & Bruning. Process for purifying carboxylic acids. 2,936,267, 5-10-60, Cl. 202—42.
- Fernly, Joseph E. Pad holders. 2,927,698, 3-8-60, Cl. 211—51.
- Fernö, Ove B.: *See*—  
Diczfalusy, Egon R., Fernö, Fex, Hogberg, and Linderot. 2,928,849.
- Diczfalusy, Egon R., Fernö, Högborg, Linderot, and Rosenberg. 2,962,515.
- Hogberg, Knut B., and Fernö. 2,964,552.
- Fernö, Ove B., H. J. Fex, T. O. E. Linderot, E. T. Rosenberg, and K. B. Högborg, to Aktiebolaget Leo. Polymer phosphoric acid anti-enzymatic substances. 2,962,495, 11-29-60, Cl. 260—210.
- Fernseh G.m.b.H.: *See*—  
Dillenburg, Wolfgang. 2,962,545.
- Jauernik, Edmund. 2,945,949.
- Fernsler, George L., to United States of America, Navy. Bending microwaves by means of magnetic or electric field. 2,939,142, 5-31-60, Cl. 343—754.
- Feroy, Arne, to Hydraulic Hoist Corp. Fluid motors. 2,929,365, 3-22-60, Cl. 121—86.
- Ferracuta Machine Co.: *See*—  
Bass, George E., Martindell, and Emerson. 2,954,010.
- Ferranti, Ltd.: *See*—  
Adams, John, and Dudley. 2,951,948.
- Barnes, Jeffrey W. 2,924,978.
- Freer, John A., and Scarrott. 2,963,947.
- Johnson, Kenneth C., and Scarrott. 2,934,706.
- Taylor, Maurice K. 2,929,671.
- Williamson, David T. N., and Walker. 2,951,344.
- Ferrara, Achille K. Vibratory screen apparatus. 2,964,186, 12-13-60, Cl. 209—366.5.
- Ferrara, Rudolph A., to General Motors Corp. Vehicle seat. 2,927,818, 3-8-60, Cl. 296—66.
- Ferrari, Andres, Jr., to Technicon Instruments Corp. Method of intermixing a plurality of liquids of different specific gravities. 2,933,293, 4-19-60, Cl. 259—4.
- Ferrari, Andres, Jr., and J. Isreeli, to Technicon Instruments Corp. Pumps. 2,935,028, 5-3-60, Cl. 103—149.
- Ferraris, John T.: *See*—  
Allen, Oliver L., Borkoski, Brown, and Ferraris. 2,941,222.
- Ferraro, Dominick. Weeding tool. 2,957,722, 10-25-60, Cl. 294—30.8.
- Ferre, Maurice C., to Schlumberger Well Surveying Corp. Methods and apparatus for exploring earth formations. 2,924,289, 2-9-60, Cl. 181—5.
- Ferre, Maurice C., to Schlumberger Well Surveying Corp. Apparatus for electrical well logging. 2,930,968, 3-29-60, Cl. 324—1.
- Ferré, Roy S., Sr. Shock actuated valve. 2,927,592, 3-8-60, Cl. 137—38.
- Ferree, Gertrude R.: *See*—  
Hardy, Le Grand H., Ferree, and Rittler. 2,937,567.
- Ferreira, Joseph J., to Joseph F. Corcoran Shoe Co., Inc. Welt shoe with rib-carrying sock lining. 2,921,389, 1-19-60, Cl. 36—17.
- Ferreira, Joseph J., to Joseph F. Corcoran Shoe Co., Inc. Shoe of convertible appearance. 2,934,838, 5-3-60, Cl. 36—25.
- Ferrel, Robert E.: *See*—  
Copley, Michael J., Mecham, Weinstein, and Ferrel. 2,929,725.
- Ferrell, Russell A., to H. H. Robertson Co. Wall structure. 2,949,981, 8-23-60, Cl. 189—34.
- Ferrell, Wesley, to United States Rubber Co. Heat sealing device. 2,960,147, 11-15-60, Cl. 154—42.
- Ferrell, Wesley, to United States Rubber Co. Slush molding plastisol articles. 2,964,798, 12-20-60, Cl. 18—58.
- Ferrelle, Charles H. Folding table for motor vehicles. 2,963,078, 12-6-60, Cl. 155—123.
- Ferri, Antonio, to Curtiss-Wright Corp. Turbo-jet boost augments. 2,920,843, 1-12-60, Cl. 244—15.
- Ferri, Antonio, to Curtiss-Wright Corp. Internal-ribbed exhaust nozzle for jet propulsion devices. 2,956,400, 10-18-60, Cl. 60—35.6.
- Ferrie, Franck G. M., to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Ignition devices for combustion chambers. 2,933,896, 4-26-60, Cl. 60—39.82.
- Ferrie, Franck G. M., to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Semi-vaporisation burner. 2,959,006, 11-8-60, Cl. 60—39.77.
- Ferrie, Franck G. M., and P. Negre, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Vaporisation burner device. 2,949,012, 8-16-60, Cl. 60—39.71.
- Ferrin, Kenneth S.: *See*—  
Rauch, Konrad, Jorgensen, Neubauer, Ferrin, Kneisley, Stork, and Harsch. 2,947,475.
- Ferrini, Gino P.: *See*—  
Thompson, George E., and Ferrini. 2,941,971.
- Ferris, Burton C., to Kelsey-Hayes Co. Safety control for molding machines. 2,948,029, 8-9-60, Cl. 22—35.
- Ferris, De Lacy F.: *See*—  
Sherman, Arthur, Ferris, and Lehrer. 2,919,543.
- Ferris, Ernest A., and B. A. Fulton, to Borg-Warner Corp. One-way clutch. 2,956,655, 10-18-60, Cl. 192—45.1.
- Ferris Instrument Co.: *See*—  
Tyzzer, Howard J. 2,941,497.
- Ferris, John P. Power lawn rake having material deflector and collecting basket. 2,959,904, 11-15-60, Cl. 56—27.
- Ferris, Robert G., to United States of America, Navy. Combination amplifier and oscillator unit. 2,925,776, 2-23-60, Cl. 102—70.2.
- Ferris, Seymour W.: *See*—  
Tench, John D., Ferris, and Duling. 2,951,028.
- Ferris, Seymour W., to Sun Oil Co. Wax coating compositions. 2,942,766, 6-28-60, Cl. 229—3.1.
- Ferris, Warren S., and J. R. Fisher, to Eastman Kodak Co. Source of potential for photographic flash holder. 2,952,798, 9-13-60, Cl. 315—205.
- Ferro Corp.: *See*—  
Bryant, Eugene E., and Luster. 2,961,337.
- Corban, Wilbur H., and Davidson. 2,944,315.
- Dickey, Richard C. 2,925,260.
- Dvorak, John A. 2,957,572.
- Fuchsman, Charles H., Zaremsky, and Hansen. 2,949,439.
- Hanson, Leroy C. 2,957,068.
- Judd, Donald M. 2,925,351.
- Kelly, William D. 2,953,670.
- Kelly, William D. 2,955,190.
- Moore, Lorenzo D., and Cole. 2,925,117.
- Pickles, Joseph. 2,931,242.
- Pickles, Joseph. 2,931,424.
- Robson, James T. 2,921,356.
- Ferro, Joseph A., and E. L. Markowski, to Cook Electric Co. Bi-directional incremental drive mechanism. 2,929,268, 3-22-60, Cl. 74—674.



- Ferro Stamping Co.: *See*—  
Devereaux, Richard C., and Pickles. 2,929,657.  
Pickles, Joseph. 2,925,297.  
Pickles, Joseph. 2,944,436.  
Pickles, Joseph. 2,944,437.  
Pickles, Joseph. 2,942,647.  
Pickles, Joseph. 2,961,032.  
Pickles, Joseph. 2,962,084.
- Ferron, Albert L., to American Optical Co. Ophthalmic mountings. 2,939,168, 6-7-60, Cl. 16-140.
- Ferron, William O., to Pennsalt Chemicals Corp. Liquid level gauge. 2,949,777, 8-23-60, Cl. 73-321.
- Ferry, Chamberlain, and S. S. Roby, to The Stanley Works. Electric mat switch. 2,929,893, 3-22-60, Cl. 200-86.
- Ferry, Joseph R.: *See*—  
Avedikian, Souren Z. 2,938,771.
- Ferry-Morse Seed Co.: *See*—  
Ingold, John V. 2,937,763.  
Ingold, John V. 2,937,764.
- Ferryman, Roger M., to Metalphoto Corp. Coloring of photographic images. 2,931,725, 4-5-60, Cl. 96-58.
- Ferstendig, Louis L., to California Research Corp. Production of M-aminomethylbenzoic acid. 2,924,619, 2-9-60, Cl. 260-518.
- Fertig, Raymond B.: *See*—  
Spracklen, Stanford B., Martin, Rogers, Capehart, Fertig, and Fellows. 2,933,600.
- Feryszka, Max, to Radio Corp. of America. Modulator for color television transmitters. 2,935,555, 5-3-60, Cl. 178-54.
- Fesco, John, to Studley Paper Co., Inc. Bag. 2,961,063, 11-22-60, Cl. 183-51.
- Feser, Edward J. Container racks. 2,951,590, 9-6-60, Cl. 211-75.
- Fessler, Frank, 10% to J. J. Gustat, 10% to E. W. Phillips, 10% to P. F. McDevitt, 10% to C. W. Hutchinson, 5% to A. J. Blake, and 15% to R. J. Lamb. Methods for sterilization of materials. 2,958,570, 11-1-60, Cl. 21-2.
- Fessler, Le Roy E.: *See*—  
Olsen, Owen K., and Fessler. 2,936,185.
- Fester, Amos M. Propeller guard and rudder device. 2,963,000, 12-6-60, Cl. 115-42.
- Fette, Wilhelm, Prazisionswerkzeugfabrik: *See*—  
Muller, Wolfgang, and Schmidt. 2,955,393.
- Fetterly, Lloyd C., to Shell Oil Co. Resins of poly-substituted benzenes and formaldehyde. 2,957,851, 10-25-60, Cl. 260-67.
- Fetterloh, Luther D., to Quebec Iron and Titanium Corp. Pretreatment of ilmenite ore. 2,919,982, 1-5-60, Cl. 75-1.
- Fettes, Edward M., and M. B. Berenbaum, to Thiokol Chemical Corp. Bunte salt-sulfide composition in agricultural sprays. 2,925,362, 2-16-60, Cl. 167-43.
- Fettes, Robert C., to Rohm & Haas Co. Process of polymerizing ester of acrylic or methacrylic acids. 2,956,990, 10-18-60, Cl. 260-89.5.
- Fettig, Robert F. Means for correcting ingrown toenails. 2,920,621, 1-12-60, Cl. 128-81.
- Fettweis, Alfred L. M.: *See*—  
Hinton, Raymond C. P., Dzula, and Fettweis. 2,945,221.
- Fetzer, George L., and L. M. Morrish, to General Motors Corp. Exhaust system. 2,930,440, 3-29-60, Cl. 181-54.
- Feucht, Albert: *See*—  
Feucht, Jacob E. and A. 2,955,572.
- Feucht, Jacob E., to Westinghouse Air Brake Co. Percussion drill. 2,947,519, 8-2-60, Cl. 255-44.
- Feucht, Jacob E. and A., to Westinghouse Air Brake Co. Telescopic feed leg for hydraulic tools. 2,955,572, 10-11-60, Cl. 121-69.
- Feucht, Jacob E., to Westinghouse Air Brake Co. Pneumatic tool. 2,955,573, 10-11-60, Cl. 121-32.
- Feucht, Jacob E., to Westinghouse Air Brake Co. Drill bit. 2,955,804, 10-11-60, Cl. 255-64.
- Fehr, Henry, and C. Savides, to Purdue Research Foundation. Process for preparing  $\alpha,\omega$ -dinitroalkanes. 2,963,515, 12-6-60, Cl. 260-644.
- Feuer, Seymour S., to Rohm & Haas Co. Vinyl halide polymer compositions containing polymerization products of methyl methacrylate with a butadiene-styrene copolymer. 2,943,074, 6-28-60, Cl. 260-45.5.
- Feula, James J. Football practice apparatus. 2,929,629, 3-22-60, Cl. 273-55.
- Feurt, Seldon D.: *See*—  
Crockford, Jack A., Hayes, Feurt, Jenkins, and Palmer. 2,923,243.
- Feutz, Alfred N.: *See*—  
Logie, Charles F., and Feutz. 2,940,605.  
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- Few, William, A. B. Pearson, and D. Dakers, to The Clark Controller Co. Electric relays. 2,921,166, 1-12-60, Cl. 200-104.
- Fex, Hans J.: *See*—  
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Fernö, Ove B., Fex, Linderot, Rosenberg, and Högberg. 2,962,495.
- Fexas, Achilles. Optical tool. 2,952,173, 9-13-60, Cl. 81-3.6.
- Feyzeau, Albert, to Ste Nouvelle de l'Outillage RBV et de la Radio-Industrie. Synchronization signal generator. 2,926,242, 2-23-60, Cl. 250-27.
- Flakoff, Samuel, to Camlin Laboratories. Table chime. 2,925,593, 2-16-60, Cl. 340-396.
- Fiat Societa per Azioni: *See*—  
Franzi, Riccardo. 2,920,453.  
Gianotto, Pietro. 2,953,698.  
Lampredi, Aurelio. 2,954,023.  
Zucchi, Adriano. 2,941,520.
- Fiber Controls Corp.: *See*—  
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- Fiberglass Canada Ltd.: *See*—  
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- Fiber Glass Plastic, Inc.: *See*—  
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- Fibranz, Floyd B., to Motorola, Inc. Radio receiver with automatic gain control operating over wide range. 2,929,926, 3-22-60, Cl. 250-20.
- Fibreboard Paper Products Corp.: *See*—  
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Hoover, John W. 2,927,697.  
Hoover, John W. 2,930,486.  
Moore, Norman H. 2,944,727.  
Pellaton, Ernest C. 2,922,562.  
Wagaman, Merle L. 2,948,390.
- Fibro Corp.: *See*—  
Fontenelli, John. 2,942,885.
- Fibrofelt Corp.: *See*—  
Clark, James d'A. 2,920,355.  
Clark, James d'A. 2,931,076.
- Ficara, Samuel. Device for handling bowling pins. 2,935,319, 5-3-60, Cl. 273-43.
- Ficke, John J., to Gadget-Of-The-Month Club, Inc. Holder for flower basket or flower vessel. 2,959,387, 11-8-60, Cl. 248-149.
- Fichter, Ludwig J., to Oak Mfg. Co. Electric switch. 2,943,165, 6-28-60, Cl. 200-67.
- Fichter, Ludwig J., and E. J. Mastney, to Oak Mfg. Co. Link. 2,949,043, 8-16-60, Cl. 74-469.
- Fichtel & Sachs A.G.: *See*—  
Binder, Richard, and von Bomhard. 2,924,313.  
Von Bomhard, Franz. 2,940,559.  
Von Bomhard, Franz J. 2,922,502.
- Fickbohm, Henry R. Electrical connector. 2,962,687, 11-29-60, Cl. 339-61.
- Ficker, Arthur R.: *See*—  
Ulm, Ralph E., and Ficker. 2,931,311.
- Fidel, Nellie, to Modcraft Co., Inc. Reclining chair. 2,919,746, 1-5-60, Cl. 155-106.
- Fidel, Nellie, to Modcraft Co., Inc. Adjustable reclining couch. 2,925,854, 2-23-60, Cl. 155-116.
- Fidelitone, Inc.: *See*—  
Kaspari, Albert R., H. C. Rutherford, and G. M. Avalon. 2,944,663.
- Fidelity Machine Co., Inc.: *See*—  
Haas, Paul. 2,946,209.  
Mahler, Peter A. 2,927,447.  
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Thore, Thomas J. 2,933,908.  
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- Fidelity Union Trust Co.: *See*—  
Byland, Hans-Rudolf. 2,941,991.  
Hagen, Joseph. 2,948,400.  
Hofer, Kurt. 2,925,316.
- Fidell, Louis I., to American Cyanamid Co. Diazotization in presence of developer. 2,938,762, 5-31-60, Cl. 8-48.
- Fiechter, Rene A., 1/2 to A. V. Tornek. Lubricated jeweled bearing for watch movements and other precision instruments. 2,920,441, 1-12-60, Cl. 58-140.
- Fiedler, Howard C., and R. H. Pry, to General Electric Co. Method for heat treating cube-on-edge silicon steel. 2,939,810, 6-7-60, Cl. 148-111.
- Fiedler, Martin, to Chicago Forging and Mfg. Co. Articulated hinge. 2,956,303, 10-18-60, Cl. 16-128.1.
- Fiedler, Stuart O., J. Bjorksten, and W. S. Fiedler, to Lor Corp. Production of metal foam. 2,937,938, 5-24-60, Cl. 75-20.
- Fiedler, William S.: *See*—  
Fiedler, Stuart O., Bjorksten, and Fiedler. 2,937,938.
- Fiedler, Willy A., and E. Q. Smith, to United States of America, Navy. Induced pitch launcher device. 2,924,148, 2-9-60, Cl. 89-1.7.
- Fiehl, Michael, to International Business Machines Corp. Distributing machine. 2,955,993, 10-11-60, Cl. 209-110.
- Fiehl, Michael, to International Business Machines Corp. Stacking device for cards or the like. 2,964,314, 12-13-60, Cl. 271-86.
- Fiehrer, Marcel, and A. Pages, to Commissariat a l'Energie Atomique. Pulse height analyzer. 2,927,207, 3-1-60, Cl. 250-27.
- Fiel, Peter J.: *See*—  
Burns, Erwin, and Fiel. 2,942,670.
- Fiel, Robert J., to Allied Chemical Corp. Non-cellular polyurethane coating resistant to discoloration. 2,966,472, 12-27-60, Cl. 260-18.
- Field, Charles W. Animal bed (construction). 2,936,102, 5-10-60, Cl. 229-33.
- Field, Brenton H., and J. W. Mayo, to The Patent and Licensing Corp. Multi-colored asbestos-cement product and process. 2,929,735, 3-22-60, Cl. 117-8.



- Field, Edmund: *See*—  
 Brennan, Harry M., and Field. 2,925,394.  
 Brennan, Harry M., and Field. 2,940,924.  
 Brennan, Harry M., and Field. 2,950,243.  
 Brennan, Harry M., Vander Haar, and Field. 2,959,536.  
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 Juveland, Omar O., Friedlander, and Field. 2,932,633.  
 Pilar, Frank L., Friedlander, Juveland, and Field. 2,965,626.
- Field, Edmund, O. O. Juveland, H. N. Friedlander, and F. L. Pilar, to Standard Oil Co. Ethylene polymerization process. 2,965,627, 12-20-60, Cl. 260—94.9.
- Field, Edwin G., to Food Machinery and Chemical Corp. Apparatus for handling articles. 2,963,143, 12-6-60, Cl. 198—33.
- Field, Ellis K., and A. E. Brehm, to Standard Oil Co. Stabilized motor fuel. 2,933,379, 4-19-60, Cl. 44—63.
- Field, Eugene T.: *See*—  
 Czaplinski, Frank H., and Field. 2,933,815.
- Field, Everett J., to I-T-E Circuit Breaker Co. Dielectric barrier for oil interrupter. 2,928,919, 3-15-60, Cl. 200—150.
- Field, Frank C., to Carnation Co. Dispenser with rotary measuring valve. 2,920,796, 1-12-60, Cl. 222—185.
- Field, Frank H., and S. H. Hastings, to Esso Research and Engineering Co. Analysis method. 2,962,588, 11-29-60, Cl. 250—41.9.
- Field, Frederick C., Jr., to E. I. du Pont de Nemours and Co. Textile apparatus. 2,931,090, 4-5-60, Cl. 28—1.
- Field, Frederick C., Jr., to E. I. du Pont de Nemours and Co. Method of producing elastic yarn and product. 2,962,794, 12-6-60, Cl. 28—72.
- Field, Howard, Jr.: *See*—  
 Moore, Dwight M., and Field. 2,932,971.
- Field, James H., and C. L. Vogt, to Roylyn Inc. Slip-tube gauge. 2,949,776, 8-23-60, Cl. 73—290.
- Field, Jesse P., to The Williamson Co. Sheet metal fittings. 2,963,783, 12-13-60, Cl. 29—190.
- Field, Oscar S., to General Railway Signal Co. Terminal wire connectors and mounting means therefor. 2,924,807, 2-9-60, Cl. 339—176.
- Field Queen, Inc.: *See*—  
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- Field, Thomas O., to Dale Products, Inc. Gap-type lightning arrestors. 2,958,805, 11-1-60, Cl. 315—59.
- Field, Ventris E.: *See*—  
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- Fieldcrest Mills, Inc.: *See*—  
 Martin, Raymond S. 2,957,498.
- Fielden, Marvel L.: *See*—  
 Leake, Norman H., and Fielden. 2,928,833.
- Fielder, Alexander R.: *See*—  
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- Fielding, Francis W., to Lengsfeld Brothers, Inc. Carton. 2,928,541, 3-15-60, Cl. 206—65.
- Fielding, Harold C.: *See*—  
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- Fielding & Platt Ltd.: *See*—  
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- Fields, Arnold C., to Westinghouse Electric Corp. Electrostatic precipitators. 2,932,359, 4-12-60, Cl. 183—7.
- Fields, Charles M., and H. K. Mallett, to Continental Can Co., Inc. Extrusion die for two-ply seamless plastic tubing. 2,957,201, 10-25-60, Cl. 18—13.
- Fields, Clesent O., to Peabody Seating Co., Inc. Understructure for a table or similar member. 2,940,806, 6-14-60, Cl. 311—110.
- Fields, Clesent O., to Peabody Seating Co., Inc. Understructure for a desk top, study top, table or similar member. 2,951,733, 9-6-60, Cl. 311—110.
- Fields, Ellis K.: *See*—  
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- Fields, Ellis K., to Standard Oil Co. Process for the preparation of isonicotinic acid. 2,946,800, 7-26-60, Cl. 260—295.
- Fields, Ellis K., to Standard Oil Co. Production of pyridine carboxylic acids. 2,946,801, 7-26-60, Cl. 260—295.
- Fields, Ellis K., to Standard Oil Co. Lubricant compositions. 2,948,680, 8-9-60, Cl. 252—32.7.
- Fields, Ellis K., to Standard Oil Co. Novel derivatives of hexachlorocyclopentadiene. 2,952,710, 9-13-60, Cl. 260—648.
- Fields, Ellis K., to Standard Oil Co. Oleaginous compositions containing phosphorus sulfide derivatives of hexachlorocyclopentadiene-polyolefin adducts. 2,963,435, 12-6-60, Cl. 252—46.7.
- Fields, Ellis K., to Standard Oil Co. Production of naphthalene dicarboxylic acids. 2,966,513, 12-27-60, Cl. 260—523.
- Fields, George C., to Philco Corp. Drive mechanism. 2,924,086, 2-9-60, Cl. 68—23.
- Fields, George C., to Philco Corp. Washing machines. 2,933,913, 4-26-60, Cl. 68—23.
- Fields, Joseph E., to Monsanto Chemical Co. Liquid mixtures of adducts of alkyl benzene and acrylic acid esters and method of preparing them. 2,930,811, 3-29-60, Cl. 260—475.
- Fields, Joseph E., and G. W. Zopf, Jr., to Monsanto Chemical Co. Non-corrosive fuels. 2,921,843, 1-19-60, Cl. 44—77.
- Fields, Joseph E., and J. H. Johnson, to Monsanto Chemical Co. Preparation of copolymer diamides. 2,921,928, 1-19-60, Cl. 260—78.
- Fields, Melvin: *See*—  
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- Fields, Reuben T., to E. I. du Pont de Nemours and Co. Polytetrafluoroethylene adhesive tape. 2,946,710, 7-26-60, Cl. 154—2.6.
- Fields, Roger Q.: *See*—  
 Brieger, Emmet F., and Fields. 2,965,176.
- Fields, Roger Q., to Schlumberger Well Surveying Corp. Apparatus for investigating earth formations. 2,923,530, 2-2-60, Cl. 255—1.4.
- Fields, William L., and C. Y. Cain, to R. R. Donnelley & Sons Co. Signature feed device. 2,949,293, 8-16-60, Cl. 279—56.
- Fienuip, William F. J., to R. C. Can Co. Can with telescopic cover and method of making same. 2,966,101, 12-27-60, Cl. 93—94.
- Fierce, William L.: *See*—  
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- Fierce, William L., and W. J. Sandner, to The Pure Oil Co. Method of preparing hydrogen cyanide from oxamide and ammonium oxalate. 2,942,946, 6-28-60, Cl. 23—151.
- Fierce, William L., and W. J. Sandner, to The Pure Oil Co. Method of preparing cyanogen. 2,951,744, 9-6-60, Cl. 23—157.
- Fierce, William L., and W. J. Sandner, to The Pure Oil Co. Method of preparing cyanogen. 2,953,435, 9-20-60, Cl. 23—151.
- Fierce, William L., and W. J. Sandner, to The Pure Oil Co. Preparation of nitriles from hydrogen cyanide and ketones. 2,953,593, 9-20-60, Cl. 260—465.
- Fierce, William L., and W. J. Sandner, to The Pure Oil Co. Preparation of nitriles by catalyzed reaction of cyanogen and ketones. 2,953,594, 9-20-60, Cl. 260—465.
- Fierce, William L., and W. J. Sandner, to The Pure Oil Co. Phosphonate lubricants. 2,965,570, 12-20-60, Cl. 252—49.8.
- Fierce, William L., and W. J. Sandner, to The Pure Oil Co. Preparation of tertiary hydrocarbon derivatives of oxamide. 2,965,676, 12-20-60, Cl. 260—561.
- Fierke, Scheuring S., and H. W. J. Cressman, to Eastman Kodak Co. Multilayer print film having incorporated coloring material. 2,947,628, 8-2-60, Cl. 98—74.
- Fieroh, Otto E., to Crane Co. Method and apparatus for assembling body seat rings. 2,925,651, 2-23-60, Cl. 29—240.
- Fierston, Stanley A., to Sylvania Electric Products Inc. Shift register. 2,924,747, 2-9-60, Cl. 315—84.5.
- Fies, Norman W., to American Cyanamid Co. Spirit soluble yellow dye. 2,937,165, 5-17-60, Cl. 260—145.
- Fiet, Owen O., and R. H. Wright, to United States of America, Air Force. R.F. constant impedance end seal. 2,958,721, 11-1-60, Cl. 174—77.
- Fifarek, Charles E. Saw tooth shield. 2,948,315, 8-9-60, Cl. 145—35.
- Fifer, Robert A. Aquatic device. 2,940,091, 6-14-60, Cl. 9—310.
- Figaszewski, Steve J.: *See*—  
 Kennedy, Hugh H. 2,934,369.
- Figdor, Sanford K., and G. D. Laubach, to Chas. Pfizer & Co., Inc. Steroid haloaldehyds and process therefor. 2,937,975, 5-24-60, Cl. 167—65.
- Figert, Donald M., M. G. Grant, and W. Eichelberger, to The Briggs Filtration Co. Filter and dehydrator. 2,959,289, 11-8-60, Cl. 210—307.
- Figge, Carroll C. Complete roofing method and apparatus. 2,922,539, 1-26-60, Cl. 216—20.
- Figge, Carroll C. Safety hoist. 2,928,564, 3-15-60, Cl. 214—628.
- Figge, Carroll C. Roofing method and apparatus. 2,949,206, 8-16-60, Cl. 216—20.
- Figgins, Norman K., and J. A. Rose. Model airplane launcher. 2,957,651, 10-25-60, Cl. 244—63.
- Fihe, Albert J. Folding game table. 2,931,650, 4-5-60, Cl. 273—30.
- Fihe, Paul B.: *See*—  
 D'Arcey, Gerard W., and Ryan. 2,922,357.
- Fike, Elmer A., to Monsanto Chemical Co. Coating for de-icing aircraft. 2,933,419, 4-19-60, Cl. 117—161.
- Fike, Elmer A., to Monsanto Chemical Co. Preparing sulfonated products from sulfur trioxide. 2,940,936, 6-14-60, Cl. 252—161.
- Fike, Eugene K.: *See*—  
 Roper, Ralph E., and Fike. 2,955,556.
- Fike, Harold L., to International Minerals & Chemical Corp. Resolution of DL-glutamic acid. 2,929,842, 3-22-60, Cl. 260—534.
- Fike, Harold L., to International Minerals & Chemical Corp. Resolution of DL-glutamic acid. 2,937,200, 5-17-60, Cl. 260—534.
- Fike, Harold L., to International Minerals & Chemical Corp. Glutamic acid recovery. 2,952,705, 9-13-60, Cl. 260—527.
- Fike, Louis T. Tire capping apparatus. 2,932,853, 4-19-60, Cl. 18—38.
- Fike, Louis T. Tire spreader. 2,966,335, 12-27-60, Cl. 254—50.3.
- Fike, Russell R., and A. J. Pilous, to Borg-Warner Corp. Process of bonding carbon to aluminum. 2,920,385, 1-12-60, Cl. 29—472.7.
- Fikentscher, Hans, and K. Herrle, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Bulk polymerization comprising polymerizing a liquid monomer in the presence of a polymer powder. 2,961,432, 11-22-60, Cl. 260—87.1.



- Fikse, Tyman H., to Stewart-Warner Corp. Free piston engine. 2,944,535, 7-12-60, Cl. 123-46.
- Fikuart, Joshua. Toggle type latch. 2,939,735, 6-7-60, Cl. 292-70.
- Filachione, Edward M.: *See*—  
Fein, Martin L., and Filachione. 2,941,859.  
Harris, Edward H., Jr., and Filachione. 2,938,763.
- Filar, Leo J., to Hercules Powder Co. Cross-linking of ethylene polymers with peroxide catalyst and composition therefor. 2,938,012, 5-24-60, Cl. 260-41.
- Filar, Leo J., to Hercules Powder Co. Purification of phenol by adsorption of impurities. 2,948,758, 8-9-60, Cl. 260-621.
- Filberich, Ludwig, to Siemens-Schuckertwerke Aktiengesellschaft. Control circuitry. 2,924,749, 2-9-60, Cl. 315-146.
- Filbey, Allen H.: *See*—  
Coffield, Thomas H., and Filbey. 2,944,086.
- Filbey, Allen H., to Ethyl Corp. Organic materials containing 3,5-dialkyl-4-hydroxybenzyl ethers as antioxidants. 2,954,345, 9-27-60, Cl. 252-52.
- Filbrey, Emery T.: *See*—  
Dugan, Le Roy, Jr., and Kraybill. 2,926,092.
- Files & McMurchie: *See*—  
Franks, Ernest M. 2,930,287.
- Files, Thomas T.: *See*—  
Franks, Ernest M. 2,930,287.
- Filigranbau Stefan Keller, Kommanditgesellschaft: *See*—  
Hurler, Eberhard. 2,933,629.
- Filipkowski, Roman J.: *See*—  
Alig, Georges, and Filipkowski. 2,930,439.
- Filipowicz, Edwin A.: *See*—  
Hope, David G., Filipowicz, Renard, and Wiggins. 2,932,426.
- Filipowsky, Richard F. J., to Companhia Portuguesa Radio Marconi, S.A. R.L. Redundancy reducing pulse communications system. 2,920,143, 1-5-60, Cl. 179-15.
- Filiti, Anthony J.: *See*—  
Filiti, Anthony J., and Gilchrist. 2,950,693.
- Filiti, Anthony J., and J. Gilchrist; said Gilchrist assor. to said Filiti, trading as Delco Quality Foods. Apparatus for forming dough products. 2,950,693, 8-30-60, Cl. 107-4.
- Filler, Edward Z., and J. J. Kelter. Massage and brush type single-use toothbrush. 2,946,072, 7-26-60, Cl. 15-110.
- Filler, Isadore J. Dough-processing machine. 2,938,474, 5-31-60, Cl. 107-69.
- Fille, Everett R., to Texaco Inc. Well bore hold logging. 2,942,461, 6-28-60, Cl. 73-151.
- Fillette, Raymond L., to La Telemecanique Electrique (Societe Anonyme). Contactor switch device. 2,929,899, 3-22-60, Cl. 200-104.
- Fillette, Raymond L., to La Telemecanique Electrique. Electrical switches or contactors. 2,929,903, 3-22-60, Cl. 200-166.
- Fillion, Stanley H., to Waugh Equipment Co. Car bolster constructions. 2,919,660, 1-5-60, Cl. 105-226.
- Fillion, Stanley H., and A. E. Schaefer, to Waugh Equipment Co. Snubbing devices. 2,950,017, 8-23-60, Cl. 213-8.
- Fillman, Robert T., to United States of America. Army. Single hook bomb release and ejector. 2,925,754, 2-23-60, Cl. 89-15.
- Fillmann, Karl, and H. Stephan, to Firma Fr. Hesser, Maschinenfabrik-Aktiengesellschaft. Device for splicing ends of webs by means of a plurality of longitudinal tapes. 2,930,427, 3-29-60, Cl. 154-42.3.
- Fillmann, Karl, and H. Stephan, to Firma Fr. Hesser, Maschinenfabrik-Aktiengesellschaft. Device for continuously feeding a web from supply rolls. 2,961,181, 11-22-60, Cl. 242-58.6.
- Fillmore, Robert L.: *See*—  
Rudolf, John J., Jr., and Fillmore. 2,962,645.
- Filmer, James C.: *See*—  
Walter, Richard L., Filmer, and Hiestand. 2,944,187.
- Filmsto-Projektion Johannes Jost: *See*—  
Krull, Ernst. 2,959,882.
- Filon Plastics Corp.: *See*—  
Shorts, Calhoun. Re. 24,804.
- Huisman, George R., and Shorts. 2,927,623.
- Filper Corp.: *See*—  
Anderson, Earl R. 2,943,659.  
McClelland, Etheridge R. 2,929,488.
- Filtex Corp.: *See*—  
Stevens, Clarence. 2,921,331.
- Filtor S.A.: *See*—  
Mazar Barnett, Jose. 2,955,602.
- Filtrol Corp.: *See*—  
Secor, Robert B., and Peer. 2,935,463.
- Filtron Co., Inc.: *See*—  
Milton, Leonard, and Lory. 2,955,179.
- Filtrox-Werk A.G.: *See*—  
Stengele, Willi. 2,923,430.  
Welz, Alfred. 2,946,447.
- Fimbel, Edward, Jr., to Overhead Door Corp. Extra wide vertically sliding doors. 2,966,212, 12-27-60, Cl. 160-193.
- Fin Del Co.: *See*—  
Orozco, Gilbert H. 2,964,887.
- Finberg, Joseph, to ERB-Tobacco Products Co., Inc. Smoking composition. 2,930,719, 3-29-60, Cl. 131-17.
- Finberg, Joseph, to ERB-Tobacco Products Co., Inc. Smoking composition. 2,930,720, 3-29-60, Cl. 131-17.
- Finch, Gaylord K.: *See*—  
Watson, Richard M., and Finch. 2,945,058.
- Finch, Gaylord K., to Eastman Kodak Co. Process of making para-cresol. 2,928,881, 3-15-60, Cl. 260-621.
- Finch, Gaylord K., and C. D. Stringer, to Eastman Kodak Co. Process for the manufacture of unsaturated acids and salts from  $\beta$ -lactones. 2,947,767, 8-2-60, Cl. 260-414.
- Finch, Harry de V.: *See*—  
La France, Donald S., Finch, and Hearne. 2,935,452.
- Finch, Horace T.: *See*—  
Weller, Robert A., and Finch. 2,939,542.
- Finch, Lowell C., 1/2 to D. S. Woodward. Timer and removing unit. 2,958,510, 11-1-60, Cl. 254-173.
- Finch, Walter G.: *See*—  
Fastie, William G., and Sinton. 2,922,331.
- Fincher, Homer D., to Anderson, Clayton & Co. Pelletizing cottonseed meal. 2,928,737, 3-15-60, Cl. 99-2.
- Finchler, Arthur, to Chase Chemical Co. Recovery of cobalamins. 2,957,865, 10-25-60, Cl. 260-211.5.
- Finck, Frederick P., Jr.: *See*—  
Roper, Charles G., Gilchrist, and Finck. 2,957,627.
- Finck, Johan C. J., to North American Phillips Co., Inc. Water-tight case for electrical apparatus. 2,947,799, 8-2-60, Cl. 174-50.62.
- Finckel, Robert E., Jr.: *See*—  
Stone, Franz T., III, and Finckel. 2,929,564.
- Findeisen, Walter, to The American Fabrics Co. Shoulder strap. 2,923,011, 2-2-60, Cl. 2-325.
- Findlay, Gordon R., to National Research Corp. Pump. 2,928,349, 3-15-60, Cl. 103-1.
- Findlay, Robert A., to Phillips Petroleum Co. Recovery of hydrogen halide from isomerization catalyst. 2,927,139, 3-1-60, Cl. 260-666.
- Findlay, Robert A., to Phillips Petroleum Co. Combined isomerization process. 2,938,935, 5-31-60, Cl. 260-683.67.
- Findlay, Robert A., to Phillips Petroleum Co. Fractional crystallization process and apparatus. 2,945,903, 7-19-60, Cl. 260-674.
- Findlay, Robert A., to Phillips Petroleum Co. Process for removing carbon dioxide from ammonia. 2,955,910, 10-11-60, Cl. 23-2.
- Findler, Leopold. Bipartite casing for pneumatic tire. 2,921,617, 1-19-60, Cl. 152-176.
- Findley, Glenn E., and W. B. Newsome. Process for improving yeast-leavened baked products and compositions therefor. 2,941,887, 6-21-60, Cl. 99-91.
- Findley, Joseph D., Jr., and R. C. Van Sickle, to Westinghouse Electric Corp. Circuit breaker. 2,939,931, 6-7-60, Cl. 200-104.
- Findley, Thomas W., to Swift & Co. Improvements in irradiation polymerization. 2,964,454, 12-13-60, Cl. 204-154.
- Findley, Thomas W., to Swift & Co. Phosphorated oils. 2,965,657, 12-20-60, Cl. 260-403.
- Findley, Thomas W., and K. J. Moulton, to Swift & Co. Vapor phase reaction vessel. 2,952,527, 9-13-60, Cl. 23-288.
- Findley, Thomas W., and J. L. Ohlson, to Swift & Co. Cross-linked reaction product of an epoxidized fatty acid ester and polyvinyl halide or cellulose nitrate. 2,964,484, 12-13-60, Cl. 260-23.
- Fine, Bernard M. Color radiographs, methods and articles. 2,931,904, 4-5-60, Cl. 250-65.
- Fine, James A.: *See*—  
Weisman, Sam, and Fine. 2,930,396.
- Fine, Samuel: *See*—  
Hendee, Charles F., Brown, and Fine. 2,959,532.  
Hendee, Charles F., and Fine. 2,924,715.
- Fine Organics Inc.: *See*—  
Mashio, Fujio, and Kato. 2,955,996.
- Fineo, Vincent P. Container for milk bottles. 2,948,433, 8-9-60, Cl. 220-102.
- Finestone, Arnold B., to Westinghouse Electric Corp. Process for curing glycidyl polyethers and products produced thereby. 2,953,545, 9-20-60, Cl. 260-47.
- Finfrock, Robert J. D. Prestressed reinforced concrete mast. 2,920,476, 1-12-60, Cl. 72-85.
- Finger, Earle W. Cradle attachment. 2,961,666, 11-29-60, Cl. 5-109.
- Finger, George A.: *See*—  
Sperzel, Robert H., and Finger. 2,952,830.
- Finger, Joseph S., to Johns-Manville Fiber Glass Inc. Decorative surface thermosetting plastics. 2,959,511, 11-8-60, Cl. 154-106.
- Finger, Joseph S., and R. W. Meyer, to L-O-F Glass Fibers Co. Reinforced translucent panel. 2,948,950, 8-16-60, Cl. 28-80.
- Fingerman, Albert, and J. Simaner, to Atlas International Co. Folding top construction. 2,954,999, 10-4-60, Cl. 296-107.
- Fingerprint Identification Service Co.: *See*—  
Lyon, Clifford B. 2,952,862.
- Fingold, Mildred F.: *See*—  
Seymour, William D. and S. S. 2,937,023.
- Finholt, Albert E., 1/4 each to M. L. Finholt, H. I. Schlesinger, and E. M. Schlesinger, deceased (H. I. Schlesinger, executor). Method of making aluminum containing hydrides. 2,920,935, 1-12-60, Cl. 23-14.
- Finholt, Marion L.: *See*—  
Finholt, Albert E. 2,920,935.
- Finigan, Charles M.: *See*—  
Kupa, Peter C., and Finigan. 2,944,095.
- Finigan, Charles M., to Polymer Corp. Ltd. Polymer removal. 2,960,549, 11-15-60, Cl. 260-681.5.



- Fink, August A. Automatic electrical teaching device. 2,953,859, 9-27-60, Cl. 35-9.
- Fink, Daniel J., to Allied Research Associates, Inc. Anti-vibration mount. 2,924,420, 2-9-60, Cl. 248-358.
- Fink, Don G.,  $\frac{1}{2}$  to C. Deacon. Key container. 2,961,867, 11-29-60, Cl. 70-456.
- Fink, Martin K., to United Aircraft Corp. Pressure-contoured spinner. 2,934,150, 4-26-60, Cl. 170-159.
- Fink, Raymond E., to The New Haven Board and Carton Co. Carriers for a plurality of articles. 2,937,747, 5-24-60, Cl. 206-80.
- Fink, Robert E.: *See*—  
Scott, John F., Fleming, and Fink. 2,937,454.
- Fink, Robert W.: *See*—  
Erickson, Frederick L., and Fink. 2,949,020.  
Erickson, Frederick L., and Fink. 2,955,440.
- Fink, Theodore R.: *See*—  
Demers, Francois X., Jr., and Fink. 2,938,054.
- Fink, Trevor: *See*—  
Green, Thomas A., Gorrie, Shanonn, and Fink. 2,945,120.
- Fink, William C., and M. Nordstrom, to Sylvania Electric Products Inc. Photoflash lamp. 2,955,447, 10-11-60, Cl. 67-31.
- Finke, Arno, to Windmoller & Holscher. Handle for carrier bags. 2,955,740, 10-11-60, Cl. 229-54.
- Finke, Ernst A., to Windmoller & Holscher. Method and apparatus for making bags of thermoplastic tubing. 2,952,299, 9-13-60, Cl. 154-42.
- Finkel, Leonard, to American Bosch Arma Corp. Back-to-back zener diode bridge gating circuit. 2,965,771, 12-20-60, Cl. 307-88.5.
- Finkel, Leonard, and C. J. Weidknecht, to American Bosch Arma Corp. Temperature compensation circuit. 2,950,448, 8-23-60, Cl. 332-28.
- Finkel, Leonard, and H. Kaplan, to American Bosch Arma Corp. Pulse converter. 2,956,244, 10-11-60, Cl. 332-1.
- Finkel, Seymour I.: *See*—  
Shirley, John M., and Finkel. 2,950,076.
- Finkeldei, Hans-Joachim. Drilling tool. 2,960,132, 11-15-60, Cl. 145-53.
- Finkelstein, David, to United States of America, Atomic Energy Commission. Ion-stabilized electron induction accelerator. 2,929,951, 3-22-60, Cl. 313-157.
- Finkelstein, Manuel: *See*—  
Petersen, Raymond C., Ross, and Finkelstein. 2,965,690.
- Finkelstein, Morris B., and H. C. Goodrich, to Radio Corp. of America. Sawtooth wave generator. 2,926,284, 2-23-60, Cl. 315-27.
- Finkelstein, Sab, to Philadelphia Handle Co. Collapsible flat-lying luggage handle. 2,962,138, 11-29-60, Cl. 190-57.
- Finken, Walter S.: *See*—  
Frieder, Leonard P., and Finken. 2,920,008.  
Frieder, Leonard P., and Finken. 2,925,098.  
Frieder, Leonard P., and Finken. 2,925,141.  
Frieder, Leonard P., and Finken. 2,957,657.
- Finken, Walter S., to L. P. Frieder. Headband rigging for safety helmets. 2,926,355, 3-1-60, Cl. 2-3.
- Finken, Walter S., to Gentex Corp. Readily releasable buckle. 2,954,594, 10-4-60, Cl. 24-170.
- Finken, Walter S., and W. C. Forkel, to Gentex Corp. Adjustable buckle. 2,919,481, 1-5-60, Cl. 24-196.
- Finkenzeller, Johann: *See*—  
Berger, Helmut, and Finkenzeller. 2,921,202.
- Finkl, Karl, to Compur-Werk Friedrich Deckel OHG. Iris diaphragm. 2,949,076, 8-16-60, Cl. 95-64.
- Finlay, Alexander C.: *See*—  
Davisson, Jacob W., Tanner, Finlay, and Kane. 2,963,401.
- Finlayson, Donald: *See*—  
Dickie, William A., Krzesinski, and Finlayson. 2,923,034.  
Young, Harry E. B., and Finlayson. 2,922,187.
- Finlayson, Donald, and R. W. Fearn, to British Celanese Ltd. Treatment of yarns. 2,963,848, 12-13-60, Cl. 57-34.
- Finlayson, Thomas R., to Gleason Reel Corp. Shelter and method of making same. 2,962,034, 11-29-60, Cl. 135-4.
- Finley, Frederick A.,  $\frac{1}{2}$  to C. R. Geddert, Sr. Adjustable bracket construction. 2,955,793, 10-11-60, Cl. 248-226.
- Finley, John R., and R. J. Sem, to Kearney & Trecker Corp. Control system. 2,925,002, 2-16-60, Cl. 77-32.3.
- Finley, Joseph P.: *See*—  
Bundy, Oswald M., and Finley. 2,947,827.
- Finley, Samuel P., and R. A. Johnson, to Pittsburgh Steel Co. Reinforcement and form sheets for concrete. 2,926,518, 3-1-60, Cl. 72-116.
- Finn, Charles O., to The Finn Equipment Co. Apparatus for vertical mulching of soil and other purposes. 2,949,871, 8-23-60, Cl. 111-1.
- Finn, Charles O., to The Finn Equipment Co. Beater and feeder for automatically controlling delivery of mulch fibres to a blower. 2,952,492, 9-13-60, Cl. 302-36.
- Finn, Charles O., to The Finn Equipment Co. Beater and feeder for automatically controlling delivery of mulch fibres to a blower. 2,952,493, 9-13-60, Cl. 302-37.
- Finn, Elizabeth A. Phonograph record holder. 2,922,527, 1-26-60, Cl. 211-40.
- Finn Equipment Co., The: *See*—  
Finn, Charles O. 2,949,871.  
Finn, Charles O. 2,952,492.  
Finn, Charles O. 2,952,493.
- Finn, George B., Jr.: *See*—  
Eannarino, George, and Finn. 2,930,948.
- Finn, George B., Jr., to Sarkes Tarzian, Inc. Diode. 2,946,935, 7-26-60, Cl. 317-234.
- Finn, John M., Jr., L. M. Litz, and M. N. Plooster, to Union Carbide Corp. Electrolytic preparation of calcium carbide. 2,952,591, 9-13-60, Cl. 204-61.
- Finn, Matthew M. Cushioned handball mitt. 2,952,021, 9-13-60, Cl. 2-20.
- Finn, Richard F.: *See*—  
Kolfenbach, John J., and Finn. 2,938,330.  
Lynch, Charles S., and Finn. 2,932,614.
- Finneburgh, Lewis H., Jr. Multi-band radio frequency antennas. 2,941,206, 6-14-60, Cl. 343-814.
- Finneburgh, Lewis H., Jr. Antenna mounting structure. 2,963,125, 12-6-60, Cl. 189-33.
- Finnegan, James F., to Dunbar Kapple, Inc. Method of and apparatus for conditioning grain. 2,929,154, 3-22-60, Cl. 34-92.
- Finnegan, Larry P., and V. A. Miller, to International Latex Corp. Flexible reinforced fibrous sheeting. 2,961,348, 11-22-60, Cl. 117-155.
- Finnegan, William B., J. N. Huff, and G. A. Wilson, to Cutler-Hammer, Inc. Gear gaging. 2,949,876, 8-23-60, Cl. 33-179.5.
- Finney, William J., and H. L. Peterson. Signal demodulator (envelope). 2,955,203, 10-4-60, Cl. 250-27.
- Finocchiaro, Joseph, and Bro.: *See*—  
Finocchiaro, Sebastiano P. 2,964,896.
- Finocchiaro, Sebastiano P., to Joseph Finocchiaro & Bro. Debris-gathering apparatus. 2,964,896, 12-20-60, Cl. 56-157.
- Finsterwalder, Ulrich, to Dyckerhoff & Widmann Kommanditgesellschaft. Constructing a prestressed concrete bridge. 2,963,764, 12-13-60, Cl. 25-154.
- Finston, Victor, to The Meaker Co. Electroprocessing apparatus. 2,928,401, 3-15-60, Cl. 134-58.
- Finston, Victor, to The Meaker Co. Work transfer apparatus. 2,928,519, 3-15-60, Cl. 198-27.
- Finston, Victor, and W. Kostner, to The Meaker Co. Electroprocessing apparatus. 2,928,402, 3-15-60, Cl. 134-76.
- Floravanti, Jean. Conveyor system. 2,956,668, 10-18-60, Cl. 198-153.
- Fiore, Joseph P.: *See*—  
Amdursky, Mark E., and Fiore. 2,961,313.  
Amdursky, Mark E., and Fiore. 2,961,314.
- Florillo, Vincent. Arch support. 2,933,833, 4-26-60, Cl. 36-8.5.
- Florini, Sestilio, to Breda Meccannica Bresciana S.p.A. Magazine holder for the feeding of firearms, machine guns, cannons and the like. 2,951,423, 9-6-60, Cl. 89-34.
- Fire Boss, Inc.: *See*—  
Porter, Henry T. 2,923,360.
- Fire, Philip, to Sylvania Electric Products Inc. Image suppressed superheterodyne receiver. 2,964,622, 12-13-60, Cl. 250-20.
- Firestone, Gustave A., and R. J. Rusch, to The United Tool & Die Co. Adjustable positioning and supporting device. 2,933,198, 4-19-60, Cl. 212-128.
- Firestone, Tibor A. Detachable tide tread. 2,948,318, 8-9-60, Cl. 152-175.
- Firestone Tire & Rubber Co., The: *See*—  
Albert, Harry E. 2,929,797.  
Albert, Harry E. 2,956,981.  
Ambelang, Joseph C. 2,929,796.  
Ambelang, Joseph C. 2,939,861.  
Ambelang, Joseph C. 2,939,867.  
Ambelang, Joseph C. 2,947,724.  
Ambelang, Joseph C. 2,947,789.  
Bank, Thomas A. 2,929,231.  
Bank, Thomas A. 2,959,817.  
Christensen, Norman B. 2,947,322.  
Christensen, Norman B. 2,947,532.  
Cline, Delbert C. 2,923,305.  
Davis, Ralph C. 2,929,101.  
Davis, Ralph C. 2,947,530.  
Davis, Ralph C. 2,955,325.  
Deist, Herbert H. 2,947,531.  
Deist, Herbert H., and Hollis. 2,929,103.  
Eberly, Kenneth C. 2,947,793.  
French, Robert W. 2,947,340.  
Hausch, Walter R. 2,955,708.  
Hayes, Robert A., and Boutsicaris. 2,929,835.  
Hershey, Melvin P. 2,947,341.  
Hollis, Jack L. 2,929,435.  
Holloway, Harold S. 2,947,342.  
Howe, Donald E. 2,955,345.  
Prettyman, Irvn B. 2,955,344.  
Reid, Robert J., and Conard. 2,929,795.  
Reid, Robert J., and Werner. 2,947,338.  
Reid, Robert J., and Werner. 2,956,041.  
Russell, John R., and Forster. 2,929,429.  
Siedow, George F. 2,933,119.  
Siedow, George F. 2,933,120.  
Siedow, George F. 2,933,121.  
Sjothun, Irvin J. 2,947,343.  
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- Kidd, Frederick and T. D. 2,942,721.
- Maddock-Clegg, Lawrence H. 2,938,366.
- Fisher, Lyman C. Discriminating fuze. 2,960,029, 11-15-60, Cl. 102-7.
- Fisher, Mark E.: See—
- Tuck, Robert M., and Fisher. 2,929,478.
- Fisher, Mark E., R. M. Tuck, and R. H. Schaefer, to General Motors Corp. Transmission clutch control system. 2,933-172, 4-19-60, Cl. 132-87.
- Fisher, Morris A.: See—
- Appel, Arthur V., Betz, Fisher, Fochtman, Katz, Lieberman, Alexander, Murphy, Maxwell, and Lewis. 2,920,525.
- Fisher, Patricia T.: See—
- Anderson, Ralph S., and Fisher. 2,957,843.
- Fisher-Price Toys, Inc.: See—
- Crawford, Ralph W. 2,937,475.
- Fisher, Richard A.: See—
- Bronstien, Edward L., Jr., and Fisher. 2,920,588.
- Fisher, Richard A., to Anderson Machine and Tool Works, Inc. Washing machine. 2,959,403, 11-8-60, Cl. 259-75.
- Fisher, Richard A., and F. W. Gaudette, to The United States Bedding Co. Automatic mattress machinery. 2,935,220, 5-3-60, Cl. 218-5.
- Fisher, Richard T., and G. M. Pahud, to Sigma Instruments, Inc. Sensitive relay. 2,960,583, 11-15-60, Cl. 200-87.
- Fisher, Robert D., J. S. Sallo, and I. Tsu, to The National Cash Register Co. Magnetic data storage devices. 2,945,217, 7-12-60, Cl. 340-174.
- Fisher, Robert E.: See—
- Funk, Walter F., Ockels, and Fisher. 2,964,122.
- Ream, Joseph T., Jr., and Fisher. 2,956,478.
- Fisher, Robert P., to Microson Equipment Corp. Bearing. 2,947,580, 8-2-60, Cl. 308-203.
- Fisher, Roy S., C. F. Otis, and H. S. Vasilevskis, to Philco Corp. Beam centering and deflection correction means for cathode ray tubes. 2,963,609, 12-6-60, Cl. 313-84.
- Fisher Scientific Co.: See—
- Taylor, Billy W. 2,942,655.
- Fisher, Walter F., to E. I. du Pont de Nemours and Co. Polymerization process. 2,933,476, 4-19-60, Cl. 260-75.
- Fisher, Webster E., and J. E. O'Brian, to Eastman Kodak Co. Reduction of silver loss in burning photographic waste. 2,944,886, 7-12-60, Cl. 75-83.
- Fisher, Webster E., and F. E. Fox, Jr., to Eastman Kodak Co. Gel-point indicator. 2,952,152, 9-13-60, Cl. 73-17.
- Fisher, William C., to Phillips Petroleum Co. Anti-drip trap for loading spout. 2,957,489, 10-25-60, Cl. 137-142.
- Fisher, William H. Accelerator pedal lock. 2,931,207, 4-5-60, Cl. 70-181.
- Fisher, Willis A., and W. R. Demler, to Allied Chemical Corp. Method of brominating dibenzopyrene-dione. 2,921,943, 1-19-60, Cl. 260-362.
- Fishlove, H., & Co.: See—
- Coleman, Edward J. 2,964,872.
- Fishman, Louis. License plate holder. 2,921,395, 1-19-60, Cl. 40-209.
- Fishman, Sherman S., 25% to Sayles St. Sales Co. Electrical switch. 2,935,579, 5-3-60, Cl. 200-33.
- Fishman, Sherman S. Container. 2,948,387, 8-9-60, Cl. 206-5.
- Fisions Ltd.: See—
- Bradley, John K., Brown, and Sheldrick. 2,954,286.
- Fisk, James C. Axially shiftable vane pump. 2,957,429, 10-25-60, Cl. 103-139.
- Fiske, Milan D.: See—
- Schmitt, Roland W., and Fiske. 2,935,694.
- Fisons Pest Control Ltd.: See—
- Crouch, Alan E., and Pound. 2,959,608.
- Fissel, Russell J. Multi-stage projectile. 2,923,089, 2-2-60, Cl. 46-74.
- Fitch, Clyde J., to International Business Machines Corp. Electrostatic clutch. 2,923,390, 2-2-60, Cl. 192-84.
- Fitch, Clyde J., to International Business Machines Corp. Information storage device. 2,923,920, 2-2-60, Cl. 340-173.
- Fitch, Clyde J., and E. A. Barber, Jr., to International Business Machines Corp. Sensing negative and positive photo-records. 2,933,245, 4-19-60, Cl. 235-61.11.
- Fitch, Clyde J., to International Business Machines Corp. Indicator. 2,946,954, 7-26-60, Cl. 324-97.
- Fitch, Leonard W. Gripper with plastic housing for liquid containing cartons. 2,928,570, 3-15-60, Cl. 220-85.
- Fitch, Milton C. Article dispenser. 2,937,735, 5-24-60, Cl. 194-2.
- Fitch, Richard A., to United Kingdom Atomic Energy Authority. Spark-gap circuits. 2,946,923, 7-26-60, Cl. 315-163.
- Fitch Textile Co., Inc.: See—
- Johnson, Edwin H. 2,929,127.
- Fitch, Theodore R. Tire bead breaker. 2,922,468, 1-26-60, Cl. 157-122.
- Fitchburg Engineering Corp.: See—
- Dustan, Frank. 2,960,978.
- Fitchett, Gilmer T.: See—
- Song, John, and Fitchett. 2,966,495.
- Fitchette, James, to Phillips Petroleum Co. Measuring device. 2,957,159, 10-18-60, Cl. 340-18.
- Fite, Charles C., Jr.: See—
- Nikitin, Alexander A., Fite, and Gary. 2,950,183.
- Fite, Luther S. Weight distributing truck bed attachment. 2,943,865, 7-5-60, Cl. 280-104.5.
- Fite, Wade L., to General Dynamics Corp. Cold trap. 2,949,015, 8-16-60, Cl. 62-40.
- Fiteny, Louis M.: See—
- Chimko, John, and Fiteny. 2,965,189.
- Fites, Cyril B., to Wagner Electric Corp. System and method of lubricating air compressors and the like. 2,951,633, 9-6-60, Cl. 230-207.
- Fitkin, Glenn L., Jr. Caster for a mechanic's creeper or the like. 2,948,914, 8-16-60, Cl. 16-45.
- Fitt, Peter W., to Normalair Ltd. Breathing apparatus. 2,948,292, 8-9-60, Cl. 137-64.
- Fitterman, Max. Ventilator construction. 2,923,228, 2-2-60, Cl. 98-121.
- Fitzer, Erich: See—
- Kaufmann, Waldemar, Ragoss, Fitzer, and Gress. 2,957,716.
- Fitz, Harold C., Jr. Bottle cap. 2,949,205, 8-16-60, Cl. 215-45.
- Fitzer, Erich. Method for the heat treatment of alloys. 2,936,255, 5-10-60, Cl. 148-13.1.
- Fitzgerald, Albert J., to General Electric Co. Framing apparatus. 2,923,038, 2-2-60, Cl. 20-56.4.
- Fitzgerald, Clinton H.: See—
- Pharo, Lawrence C., and Fitzgerald. 2,960,866.
- Fitzgerald, Dean B., to Pittsburgh Plate Glass Co. Apparatus for laminating. 2,943,962, 7-5-60, Cl. 154-2.7.
- Fitzgerald, Harold J., to Supurdisplay, Inc. Cooling tray for food products and beverages. 2,962,874, 12-6-60, Cl. 62-251.
- Fitzpatrick, John T.: See—
- Tinsley, Samuel W., and Fitzpatrick. 2,938,058.
- Fitzgerald, Joseph J., and C. G. Detwiler, Jr., to United States of America, Atomic Energy Commission. Personnel neutron dosimeter. 2,958,121, 5-24-60, Cl. 250-83.1.
- Fitzgerald, Paul G. Fruit harvester with pivoted knives. 2,925,701, 2-23-60, Cl. 56-336.
- Fitzgerald, Reginald P., to Pneumatic Drop Hammer Co. Power operated hammers. 2,942,503, 6-28-60, Cl. 78-25.



- Fitzgerald, Thomas C., C. R. G. Stewart, and J. R. Weigel, to Western Electric Co., Inc. Apparatus for controlling the rotation of a reel. 2,923,493, 2-2-60, Cl. 242-156.
- Fitzgerald, William P. Hand grip and container supporting attachment for stepladders. 2,954,093, 9-27-60, Cl. 182-129.
- Fitzgerald, William P., F. W. Banes, and A. W. Hubbard, to Esso Research and Engineering Co. Tubeless tire. 2,949,952, 8-23-60, Cl. 152-330.
- FitzGerald, William P., A. H. Gleason, A. J. Morway, and A. H. Matuszak, to Esso Research and Engineering Co. Lubricating oil compositions containing polymers of bis(beta chloroethyl) vinyl phosphonate. 2,956,952, 10-18-60, Cl. 252-49.9.
- Fitzgibbon, Maurice. Process for applying pest control substances to seeds. 2,948,585, 8-9-60, Cl. 21-57.
- Fitzpatrick, James P., to General Electric Co. Light sensitive system. 2,926,264, 2-23-60, Cl. 250-214.
- Fitzpatrick, James P., to United States of America, Air Force. Time delay circuit for camera. 2,960,636, 11-15-60, Cl. 317-141.
- Fitzpatrick, John T.: *See*—  
Bailey, Frederick E., Jr., and Fitzpatrick. 2,941,963.
- Fitzsimmons, Harold C., to The Sharples Corp. Centrifuges. 2,924,378, 2-9-60, Cl. 233-46.
- Fitzsimmons, Vincent G.: *See*—  
Zisman, William A., and Fitzsimmons. 2,928,348.
- Fitzward, Bruce E., to L-M Equipment Co. Annular debarking mechanism and control. 2,925,107, 2-16-60, Cl. 144-208.
- Fivel, Milton J., to Standard & Poor's Corp. Code converter. 2,921,132, 1-12-60, Cl. 178-26.
- Fixari, Fred: *See*—  
Conley, Weld E., and Fixari. 2,924,272.
- Fixen, Martin O. Map meter. 2,926,425, 3-1-60, Cl. 33-143.
- Fixen, Martin O. Toy for making pictures and designs. 2,950,537, 8-30-60, Cl. 33-174.
- Fixture Hardware Corp.: *See*—  
Keil, Henry P. 2,937,021.
- Fizdale, Jack. Drop-leaf table construction. 2,933,359, 4-19-60, Cl. 311-60.
- Fjellstedt, Thorsten A., R. F. Jones, W. Kowalski, and J. J. Sequist, to McGraw-Edison Co. Electric switch. 2,948,794, 8-9-60, Cl. 200-166.
- Flach, Curtis L.: *See*—  
Landau, Alfred, and Flach. 2,962,908.
- Flachbarth, Charles T., to Walker Brothers. Fittings for floor duct systems. 2,932,683, 4-12-60, Cl. 174-48.
- Flack, Walter E., to Food Machinery and Chemical Corp. High-speed weigh-type filling system. 2,951,514, 9-8-60, Cl. 141-132.
- Flader, Fredric, to Peerless Turbine Corp. Turbine rotor. 2,921,769, 1-19-60, Cl. 253-39.
- Fladmark, Thor. Arrangement in stationary luffing and slewing jib crane. 2,929,516, 3-22-60, Cl. 212-70.
- Flagg-Utica Corp.: *See*—  
Blackburn, Harry F., and Hanback. 2,936,602.
- Flagler, Harold G., deceased, J. Flagler, executrix. Sheet material forming apparatus. 2,950,697, 8-30-60, Cl. 113-54.
- Flagler, Juanita: *See*—  
Flagler, Harold G. 2,950,697.
- Flaith, George D.: *See*—  
Hamilton, Charles M., Hine, and Flaith. 2,933,090.
- Flajole, Henry J., Jr., and R. M. Fox, to General Motors Corp. Windshield wiper clutch. 2,941,826, 6-21-60, Cl. 287-53.
- Flajole, William J. Seat construction. 2,938,570, 5-31-60, Cl. 155-5.
- Flam, Alfred: *See*—  
Kahr, Kurt, and Flam. 2,947,783.
- Flamand, Maurice R., to Draper Corp. Loom selvage motion. 2,924,247, 2-9-60, Cl. 139-55.
- Flamand, Maurice R., to Draper Corp. Filling carrier for shuttleless looms. 2,928,427, 3-15-60, Cl. 139-123.
- Flamand, Maurice R., to Draper Corp. Loom selvage motion. 2,955,619, 10-11-60, Cl. 139-55.
- Flambeau Plastics Corp.: *See*—  
Hulterstrum, Harold D. 2,946,207.
- Saucy, William R. 2,928,530.
- Flamisch, John: *See*—  
Flamisch, Joseph and J. 2,927,393.
- Flamisch, Joseph and J. Live bait holder. 2,927,393, 3-8-60, Cl. 43-44.2.
- Flamm, Gerald A. Piston. 2,926,644, 3-1-60, Cl. 123-65.
- Flan, Anthony, and H. N. Miller. Control system for magnetic recordings. 2,938,677, 5-31-60, Cl. 242-55.12.
- Flanagan, Charles D., to Texas Instruments Inc. Control device. 2,953,723, 9-20-60, Cl. 317-37.
- Flanagan, James H. Self-lubricating trepanning drill. 2,947,206, 8-2-60, Cl. 77-55.
- Flanagan, James L., to Bell Telephone Laboratories, Inc. Artificial transformer. 2,923,784, 2-2-60, Cl. 179-171.
- Flanagan, James L., to United States of America, Air Force. Spectrum segmentation system for the automatic extraction of formant frequencies from human speech. 2,938,079, 5-24-60, Cl. 179-15.55.
- Flanagan, John C. Tapping aptitude testing methods and devices. 2,945,306, 7-19-60, Cl. 35-22.
- Flanagan, Pat W. K., to Continental Oil Co. Preparation of dialkyl sulfoxides. 2,947,787, 8-2-60, Cl. 260-607.
- Flanagan, Robert M., to Bendix Aviation Corp. Self contained power plant using liquid decomposed into gaseous products. 2,926,492, 3-1-60, Cl. 60-37.
- Flanagan, Robert M., to Fairchild Engine and Airplane Corp. Overspeed safety device for turbine wheels. 2,966,333, 12-27-60, Cl. 253-59.
- Flanagan, Thomas P. Hosiery boarding apparatus. 2,936,529, 5-17-60, Cl. 34-103.
- Flanagan, William H., Jr., to United-Carr Fastener Corp. Electrical connector with torsion contacts. 2,926,328, 2-23-60, Cl. 339-192.
- Flanagan, William H., Jr. Electrical assembly. 2,958,065, 10-25-60, Cl. 339-17.
- Flanders, Donald A.: *See*—  
Alexander, James H., Burks, and Flanders. 2,936,115.
- Flanders, Ernest V., to Jones & Lamson Machine Co. Grinding wheel dressing device. 2,930,371, 3-29-60, Cl. 125-11.
- Flanders Filter, Inc.: *See*—  
Bush, Louis. 2,952,333.
- Flanders Mill, Inc.: *See*—  
Tuthill, William A. 2,949,976.
- Flanigan, Edwin B., and K. H. Cleansing cloth. 2,932,839, 4-19-60, Cl. 15-122.
- Flanigan, Eugene E.: *See*—  
Creswick, Frederick A., Flanigan, and Quinn. 2,938,338.
- Flanigan, Katharine H.: *See*—  
Flanigan, Edwin B. and K. H. 2,932,839.
- Flannery and Associates, Inc.: *See*—  
Riedmaier, Edward H., and Feutz. 2,940,603.
- Flannery, Eugene J., and T. Leonard, to Hughes Aircraft Co. Self-aligning traveling wave tube and method. 2,957,102, 10-18-60, Cl. 315-3.5.
- Flannery, John F.: *See*—  
Busse, Francis A., Flannery, and Stone. 2,964,684.
- Flansberg, John W.: *See*—  
Miller, Joseph F. 2,923,437.
- Flaschen, Steward S., and A. D. Pearson, to Bell Telephone Laboratories, Inc. Glass coating of circuit elements. 2,961,350, 11-22-60, Cl. 117-200.
- Flatau, Alfred L. Bale lifter. 2,927,815, 3-8-60, Cl. 294-76.
- Flatau, Alfred L. Bale lifter. 2,960,366, 11-15-60, Cl. 294-74.
- Flatland, Lloyd P. Dental hand piece transmission. 2,949,671, 8-23-60, Cl. 32-26.
- Flat Steel Mfg. Co.: *See*—  
Mueller, Peter W. 2,923,448.
- Flatlum, Leon H.: *See*—  
Fischer, Paul M., and Flatlum. 2,925,493.
- Flaugh, Oren F.: *See*—  
Brandes, Roy H., and Flaugh. 2,940,426.
- Flaugh, Oren F., R. A. Hirsch, and J. R. Mansfield, to General Motors Corp. Propeller mechanical low pitch stop. 2,957,528, 10-25-60, Cl. 170-160.33.
- Flavin, Thomas C.: *See*—  
Dean, Lloyd E., Groebe, Ivey, and Flavin. 2,953,606.
- Flaws, Robert W.: *See*—  
Keil, Havard L., Hagen, and Flaws. 2,953,462.
- Flax, Valer. Process for the production of plastic containers filled with fluid material. 2,940,230, 6-14-60, Cl. 53-39.
- Flax, Valer. Method of filling plastic containers with fluid material. 2,958,169, 11-1-60, Cl. 53-37.
- Flechsig, Alfred, 1/2 to P. O. Tobeler, d.b.a. Trans-Oceanic. Method of making fodder from chopped straw. 2,940,858, 6-14-60, Cl. 99-9.
- Flechtner, Donald, and C. C. Eckel, to Radio Corp. of America. Printer control system. 2,941,188, 6-14-60, Cl. 340-174.
- Fleck, Fritz, to Sandoz Ltd. Brightening agents. 2,956,898, 10-18-60, Cl. 117-33.5.
- Fleck, Henry. Electrical probe. 2,924,213, 2-9-60, Cl. 128-2.1.
- Fleck, Raymond N., to Union Oil Co. of California. Vanadium hydrocarbon conversion catalysts. 2,945,824, 7-19-60, Cl. 252-455.
- Fleck, Raymond N., and C. G. Wight, to Union Oil Co. of California. Fractionation process. 2,921,026, 1-12-60, Cl. 208-310.
- Fleck, Raymond N., and C. G. Wight, to Union Oil Co. of California. Fluid diffusion fractionation. 2,924,630, 2-9-60, Cl. 260-676.
- Fleck, Raymond N., and C. G. Wight, to Union Oil Co. of California. Hydrocarbon refining and conversion process including removal of organic nitrogen compounds with a zeolite. 2,925,375, 2-16-60, Cl. 208-89.
- Fleck, Raymond N., and C. G. Wight, to Union Oil Co. of California. Hydrocarbon denitrogenation. 2,925,379, 2-16-60, Cl. 208-254.
- Fleck, Raymond N., and C. G. Wight, to Union Oil Co. of California. Separation of organic nitrogen compounds from admixture with hydrocarbons. 2,925,380, 2-16-60, Cl. 208-254.
- Fleck, Raymond N., and C. G. Wight, to Union Oil Co. of California. Removal of organic nitrogen compounds from hydrocarbons with a zeolite. 2,925,381, 2-16-60, Cl. 208-254.
- Fleck, Raymond N., and C. G. Wight, to Union Oil Co. of California. Fractionation process using zeolitic molecular sieves. 2,935,467, 5-3-60, Cl. 208-310.
- Fleck, Raymond N., and C. G. Wight, to Union Oil Co. of California. Separation of hydrocarbons by dual solvent extraction. 2,952,717, 9-13-60, Cl. 260-676.



- Fleck, Raymond N., C. G. Wight, and E. L. Wiseman, to Union Oil Co. of California. Separation of isomeric halogenated aromatic compounds. 2,958,708, 11-1-60, Cl. 260-650.
- Fleck, Raymond N., and C. G. Wight, to Union Oil Co. of California. Hydrocarbon cracking process and catalyst. 2,962,435, 11-29-60, Cl. 208-119.
- Fleckenstein, Hans, and K. Lesch, to Licentia Patent-Verwaltungs-G.m.b.H. Means for holding a stack of laminations for use in electric machines and the like apparatus. 2,952,483, 9-13-60, Cl. 287-52.
- Fleeman, John C.: *See—*
- Vaughan, Andrew E., Jr., and Fleeman. 2,963,206.
- Fleenor, Bert A.,  $\frac{1}{2}$  to L. V. A. Hiteman. Gaseous pressure producing device. 2,922,498, 1-26-60, Cl. 188-106.
- Fleer, Frank H., Corp.: *See—*
- Mustin, Frank H., and Mulcey. 2,933,378.
- Flegle, Jack L. Matchbook and extinguisher. 2,963,028, 12-6-60, Cl. 131-256.
- Fleischer, Julius: *See—*
- Marchfield, Rudolph L., and Fleischer. 2,936,771.
- Fleischer, Paul. Folding bed. 2,953,792, 9-27-60, Cl. 5-9.
- Fleischhacker, Desider, and N. Barsel, to International Hormones, Inc. Hemostatic composition. 2,961,376, 11-22-60, Cl. 167-65.
- Fleischman, David. Floor drain flushing device. 2,921,599, 1-19-60, Cl. 137-240.
- Fleischman, Martin M. Apparatus for handling barrels. 2,937,836, 5-24-60, Cl. 248-141.
- Fleischman, Martin M. Apparatus for handling carboys. 2,937,840, 5-24-60, Cl. 248-291.
- Fleischmann, Lester K. Carbon paper pack. 2,939,726, 6-7-60, Cl. 282-19.
- Fleissner & Co. G.m.b.H.: *See—*
- Fleissner, Johann E. 2,939,182.
- Fleissner, Gerold, to Fleissner & Sohn Maschinenfabrik. Apparatus for producing a uniform bat of fibrous material. 2,941,264, 6-21-60, Cl. 19-156.
- Fleissner, Gerold, to Fleissner & Sohn Maschinenfabrik. Willow driers. 2,950,540, 8-30-60, Cl. 34-115.
- Fleissner, Hans, to Fleissner & Sohn. Sieve drum drying machine. 2,919,496, 1-5-60, Cl. 34-115.
- Fleissner, Heinrich,  $\frac{1}{2}$  to P. C. Tobeler, d.b.a. Trans-Oceanic. Rotating jet aircraft with lifting disc wing and centrifugal tanks. 2,939,648, 6-7-60, Cl. 244-12.
- Fleissner, Johann E., to Gleissner & Co. G.m.b.H. Box feeder, in particular for passing textile fibres to machines and the like for their subsequent processing. 2,939,182, 6-7-60, Cl. 19-79.
- Fleissner & Sohn: *See—*
- Fleissner, Hans. 2,919,496.
- Fleissner & Sohn Maschinenfabrik: *See—*
- Fleissner, Gerold. 2,941,264.
- Fleissner, Gerold. 2,950,540.
- Fleming, Edward N., to H. H. Robertson Co. Control apparatus for domestic water distribution system. 2,931,387, 4-5-60, Cl. 137-608.
- Fleming, Howard M., Jr., to Monroe Calculating Machine Co. Binary to decimal radix conversion apparatus. 2,928,600, 3-15-60, Cl. 235-155.
- Fleming, Harold W., and W. R. Gutmann, to Catalysts and Chemicals Inc. Purification of olefins. 2,959,627, 11-8-60, Cl. 260-677.
- Fleming, Jack F., to Sterling Plastics Co. Clipboard. 2,943-372, 7-5-60, Cl. 24-66.
- Fleming, John S. Abrading machines. 2,966,012, 12-27-60, Cl. 51-78.
- Fleming, Lawrence. Electrically variable impedance. 2,929,015, 3-15-60, Cl. 323-24.
- Fleming, Lawrence T., to Dresser Industries, Inc. Vibration responsive switch. 2,930,871, 3-29-60, Cl. 200-110.
- Fleming, Myron T.: *See—*
- Scott, John F., Fleming, and Fink. 2,937,454.
- Fleming, Richard, and R. C. Jagel, to Sun Oil Co. Reforming gasoline range hydrocarbons in the presence of ammonia. 2,956,945, 10-18-60, Cl. 208-65.
- Fleming, Robert S.: *See—*
- Smith, John E., Fleming, De Claire, and Stroh. 2,953,167.
- Fleming Sales Co., Inc.: *See—*
- Bornemann, William C. 2,946,154.
- Fleming & Sons, Inc.: *See—*
- Holden, Thomas M. 2,940,513.
- Fleming, Walter H., and V. H. Matson, Jr., to Microloc Corp. Manually operable impulse generator. 2,930,910, 3-29-60, Cl. 310-15.
- Flemmert, Gösta L.: *See—*
- Ågren, Per H. W., and Flemmert. 2,949,378.
- Flenner, Albert L., to E. I. du Pont de Nemours and Co. Non-dusty water-dispersible fungicidal composition. 2,948,655, 8-9-60, Cl. 167-42.
- Flessate, Clarence L., and A. H. Luedicke, Jr., to Blackhawk Mfg. Co. Hydraulic ram. 2,955,578, 10-11-60, Cl. 121-46.
- Fletch-Aire Co., Inc.: *See—*
- Fletcher, Charles J. 2,937,823.
- Fletcher, Charles J. 2,949,737.
- Fletcher, Charles J. and R. A. 2,952,422.
- Fletcher, Alfred L.: *See—*
- Fletcher, George H. 2,921,207.
- Fletcher, Charles J., to Fletch-Aire Co., Inc. Vertical rising convertiplane having tilting wing channel boundary layer control system. 2,937,823, 5-24-60, Cl. 244-12.
- Fletcher, Charles J., to Fletch-Aire Co., Inc. Helicopter including a jet driven rotor and drive system. 2,949,737, 8-23-60, Cl. 60-39-35.
- Fletcher, Charles J. and R. A., to Fletch-Aire Co., Inc. Annular wing aircraft. 2,952,422, 9-13-60, Cl. 244-12.
- Fletcher, Edward D., deceased; J. D. Fletcher, executrix. Valves. 2,925,247, 2-16-60, Cl. 251-192.
- Fletcher, Edward H.: *See—*
- Mack, Michael J., Fletcher, and Harvey. 2,953,935.
- Fletcher, George H., deceased; H. G. and A. L. Fletcher, executors. Dynamo electric machines. 2,921,207, 1-12-60, Cl. 310-206.
- Fletcher, Harold K., W. Seamone, and M. P. Wolpin, to Bell Aerospace Corp. Manual and automatic hydraulic servo-mechanism. 2,950,703, 8-30-60, Cl. 121-41.
- Fletcher, Helen G.: *See—*
- Fletcher, George H. 2,921,207.
- Fletcher, Jane D.: *See—*
- Fletcher, Edward D. 2,925,247.
- Fletcher, Peter S., to A. Lorenz. Adjustable chairs. 2,925,853, 2-23-60, Cl. 155-106.
- Fletcher, Peter S., to A. Lorenz. Adjustable chairs. 2,927,629, 3-8-60, Cl. 155-106.
- Fletcher, Peter S., to A. Lorenz. Multiple-position chair. 2,940,509, 6-14-60, Cl. 155-106.
- Fletcher, Peter S., to A. Lorenz. Article of repose for supporting the body of a person. 2,941,581, 6-21-60, Cl. 155-106.
- Fletcher, Peter S., to A. Lorenz. Improved leg-rest and actuating mechanism. 2,945,533, 7-19-60, Cl. 155-106.
- Fletcher, Peter S., to A. Lorenz. Adjustable chair. 2,951-529, 9-6-60, Cl. 155-106.
- Fletcher, Peter S., to A. Lorenz. Article of repose for supporting the body of a person. 2,953,192, 9-20-60, Cl. 155-106.
- Fletcher, Peter S., to A. Lorenz. Adjustable chairs. 2,958-371, 11-1-60, Cl. 155-106.
- Fletcher, Peter S., to A. Lorenz. Article of repose for supporting the body of a person. 2,965,157, 12-20-60, Cl. 155-106.
- Fletcher, Peter S., to A. Lorenz. Leg-rest and self actuating control arrangement for reclining chair. 2,965,158, 12-20-60, Cl. 155-106.
- Fletcher, Raymond A.: *See—*
- Fletcher, Charles J. and R. A. 2,952,422.
- Fletcher, Stewart G.: *See—*
- Hughes, David P., and Fletcher. 2,949,358.
- Fletcher, Wendell S., and B. L. Shannon, said Shannon assor. to said Fletcher. Amphibious vehicle. 2,923,268, 2-2-60, Cl. 115-1.
- Fletcher, William A.: *See—*
- Nichols, Charles A., Clevenger, Fletcher, and Zion. 2,920,378.
- Fletcher, William A., and M. E. Todd, to General Motors Corp. Conveyor system. 2,934,200, 4-26-60, Cl. 198-203.
- Flett, William J., to United States of America, Navy. Antenna and mounting means therefor. 2,920,567, 1-12-60, Cl. 102-70.
- Flett, William J., to United States of America, Navy. Fuze. 2,943,572, 7-5-60, Cl. 102-70.
- Flexible Products, Inc.: *See—*
- Perretz, Clarence H. 2,937,386.
- Flexible Sewertool Corp.: *See—*
- Prange, Charles J. Re. 24,908.
- Flexible Steel Lacing Co.: *See—*
- Beach, Milton B. 2,962,782.
- Flexibox Ltd.: *See—*
- Porges, Frederick B. 2,951,719.
- Flexicore Co., Inc.: *See—*
- Henry, John B., and Price. 2,956,375.
- Wise, Mark J. 2,927,468.
- Flexigrip, Inc.: *See—*
- Svec, Emil F. 2,941,027.
- Flexi-Van, Inc.: *See—*
- Bohlen, Charles I. 2,950,690.
- Mellam, Leo L. 2,929,520.
- Mellam, Leo L. 2,933,052.
- Mellam, Leo L. 2,933,053.
- Flex-O-Glass, Inc.: *See—*
- Warp, Harold. 2,934,465.
- Warp, Harold. 2,962,075.
- Flex-O-Lators, Inc.: *See—*
- Platt, John G. 2,928,458.
- Platt, John G. 2,935,124.
- Flex-O-Lite Mfg. Corp.: *See—*
- Bland, Charles C. 2,965,921.
- Duval d'Adrian, Vincent L. 2,950,985.
- Flexonics Corp.: *See—*
- Carpenter, Robert H. 2,944,841.
- Farrar, John E. P. 2,936,791.
- Olsen, Owen K., and Fessler. 2,936,185.
- Sabel, Richard H. 2,962,091.
- Schindler, Frank S., and Titus. 2,965,961.
- Flexsleev, Inc.: *See—*
- Clyne, Joseph. 2,943,330.
- Fleysher, Maurice H., to Allied Chemical Corp. Method for conditioning vat dye filter cakes. 2,930,792, 3-29-60, Cl. 260-265.



- Flick, Francis S., to Flick-Reedy Corp. Actuator for service in piston and cylinder devices. 2,949,098, 8-16-60, Cl. 121-148.
- Flick, Francis S., to Flick-Reedy Corp. Valve operator unit. 2,954,754, 10-4-60, Cl. 121-38.
- Flick, Francis S., and W. J. Kudlaty, to Flick-Reedy Corp. Head structure for a piston and cylinder device. 2,923,276, 2-2-60, Cl. 121-38.
- Flick, Francis S., and J. O. Olsen. Port fitting. 2,953,118, 9-20-60, Cl. 121-38.
- Flick, Howard S., to B J Service, Inc. Differential volume computer. 2,931,565, 4-5-60, Cl. 235-61.
- Flick-Reedy Corp.: *See*—  
Flick, Francis S. 2,949,098.  
Flick, Francis S. 2,954,754.  
Flick, Francis S., and Kudlaty. 2,923,276.
- Flick, Robert H.: *See*—  
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Strother, Russell C., and Flick. 2,937,252.
- Flicker, Max. Folded one-piece carton. 2,939,576, 6-7-60, Cl. 206-46.
- Flieder, Emil W. Toilet tank flush valve. 2,927,327, 3-8-60, Cl. 4-57.
- Flieg, Oskar: *See*—  
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- Flieg, Werner, and I. Jaspay, to Invac Corp. Data processing apparatus. 2,957,523, 10-25-60, Cl. 164-112.
- Fliegner, Horst, to International Standard Electric Corp. System for separating and conveying flat articles. 2,952,457, 9-13-60, Cl. 271-12.
- Flight Refuelling Ltd.: *See*—  
Cobham, Alan J., Latimer-Needham, Smith, and Macgregor. 2,953,332.
- Flight Research, Inc.: *See*—  
Quick, Robert G. 2,935,661.  
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- Flighter Fabrics, Inc.: *See*—  
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- Flinchbaugh, Paul H., and J. H. Kercher. Hay tedders. 2,956,387, 10-18-60, Cl. 56-372.
- Flink, Axel B.: *See*—  
Gerholm, Tor V., and Flink. 2,966,008.
- Flinn, George E.: *See*—  
Harrison, William V., and Flinn. 2,938,403.
- Flinn, George E., to Borg-Warner Corp. Transmission. 2,930,258, 3-29-60, Cl. 74-763.
- Flinn, George E., to Borg-Warner Corp. Accessory drive. 2,959,070, 11-8-60, Cl. 74-664.
- Flinn, George E., to Borg-Warner Corp. Rear mounted transmission. 2,960,888, 11-22-60, Cl. 74-700.
- Flinn, Richard A.: *See*—  
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- Flint, Ellis G. Clothes washing machine. 2,948,136, 3-9-60, Cl. 68-132.
- Flint, Erlon W., to Bell Telephone Laboratories, Inc. Visual display for complex systems. 2,939,630, 6-7-60, Cl. 235-61.6.
- Flint, George N., to The International Nickel Co., Inc. Corrosion resistant nickel-molybdenum alloys. 2,959,480, 11-8-60, Cl. 75-170.
- Flint, Hyland C. Unison action seat. 2,925,120, 2-16-60, Cl. 155-53.
- Flint, John A., to Power Jets (Research and Development) Ltd. Jet deflectors for aircraft. 2,947,501, 8-2-60, Cl. 244-51.
- Flint, Kenneth C.: *See*—  
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- Flint, Ole D. Poultry nesting assembly. 2,927,555, 3-8-60, Cl. 119-45.
- Flint, Rinard W., and R. R. Tice, to U M & F Mfg. Corp. Modular electrical chassis. 2,940,016, 6-7-60, Cl. 317-101.
- Flint, Russell C., to LCN Closers, Inc. Door closing and checking device. 2,942,291, 6-28-60, Cl. 16-49.
- Flipse, Johannes: *See*—  
Marks, Christian P., and Flipse. 2,933,427.
- Flitcraft, Richard K., W. B. Satkowski, P. J. Schauer, and R. L. Liss, to Monsanto Chemical Co. Process for control of product density of spray dried detergent compositions. 2,925,390, 2-16-60, Cl. 252-116.
- Floberg, George J.: *See*—  
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- Floerchinger, Hans: *See*—  
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- Flohr, William P., Jr., to Landis Tool Co. Crank clamping and locating device. 2,940,227, 6-14-60, Cl. 51-237.
- Flomenhoft, Hubert I. Hydrofoil craft. 2,930,338, 3-29-60, Cl. 114-66.5.
- Flood, Clarence L.: *See*—  
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- Flood, John E., and A. G. Simms, to Siemens Edison Swan Ltd. Time division multiplex transmission systems. 2,928,899, 3-15-60, Cl. 179-15.
- Flor-Heat Sales, Inc.: *See*—  
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- Flora, John W., to North American Aviation, Inc. Laboratory reactor. 2,937,127, 5-17-60, Cl. 204-193.2.
- Flora, Laurence H., to Tinnerman Products, Inc. Method of assembling a fastening device. 2,948,958, 8-16-60, Cl. 29-432.
- Florence, Gilbert: *See*—  
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Berezny, Mischa N. 2,964,140.
- Florentino, Robert M.: *See*—  
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- Floria, Vernon D., to The Dow Chemical Co. Preparation of 2-chloroethyl thiocyanate. 2,939,875, 6-7-60, Cl. 260-45.4.
- Florida, Charles D.: *See*—  
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- Florida Cracker, Inc.: *See*—  
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- Florida Lightweight Products Co.: *See*—  
Gooch, William R., and Dobson. 2,947,418.
- Floros, Theodore G., to International Business Machines Corp. Deskewing system. 2,921,296, 1-12-60, Cl. 340-174.
- Florsheim, Richard A. Radar planning device. 2,940,072, 6-7-60, Cl. 343-5.
- Flory, Leslie E.: *See*—  
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- Flötgen, Rudolf, to Licentia Patent-Verwaltungs-G.m.b.H. Phonograph records. 2,932,521, 4-12-60, Cl. 274-42.
- Flottmann, Friedrich H., and O. Heinrich, to Ingenieurbüro Dipl.-Ing. Friedrich Heinrich Flottmann. Device for mixing and homogenizing. 2,965,362, 12-20-60, Cl. 259-8.
- Flour, William, to Stewart-Warner Corp. Method and apparatus for assembling and inter-connecting electronic apparatus. 2,945,162, 7-12-60, Cl. 317-101.
- Flournoy, Harold H., Jr., and J. L. Bodkin, to Illinois Tool Works. Method for coating modules with a heat curable protective coating material. 2,949,388, 8-16-60, Cl. 117-212.
- Flower, Archibald T.: *See*—  
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- Flower, Archibald T. Anode connector for conductor wires. 2,926,128, 2-23-60, Cl. 204-196.
- Flower, Archibald T. Spreader bars. 2,927,147, 3-1-60, Cl. 174-41.
- Flower, Archibald T. Spreader for conductor wires. 2,928,636, 3-15-60, Cl. 248-61.
- Flower, Archibald T. Spreaders for conductor wires. 2,934,594, 4-26-60, Cl. 174-146.
- Flowers, Alfred A., and G. A. Mitchell, to Western Electric Co., Inc. Methods of and apparatus for testing articles. 2,923,878, 2-2-60, Cl. 324-26.
- Flowers, Edward: *See*—  
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- Flowers, Leonard B., and V. F. Okuniewski. Conveyor. 2,964,155, 12-13-60, Cl. 193-35.
- Flowers, Thomas H., and F. Scowen, to Her Majesty's Postmaster General. Time division multiplex transmission systems. 2,938,954, 5-31-60, Cl. 179-15.
- Floyd, Clarence J. Nail cleaner. 2,935,988, 5-10-60, Cl. 132-73.
- Floyd, Don E., and W. J. Ward, to General Mills, Inc. Plastic solder compound. 2,944,036, 7-5-60, Cl. 260-18.
- Floyd, Edwin, Jr., to A M P Inc. Insulated terminal and die for making same. 2,930,836, 3-29-60, Cl. 174-84.
- Floyd, Frederick K.: *See*—  
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- Floyd, James J., and C. Spannello, to Schering Corp. Stamping attachment for capping machines. 2,963,839, 12-13-60, Cl. 53-131.
- Floyd, John D., to Hercules Powder Co. Process for preventing shrinkage and felting of wool. 2,961,347, 11-22-60, Cl. 117-141.
- Flubacker, Charles H., and V. E. Adrig, to Cook Electric Co. Aircraft ice detection system. 2,947,835, 8-2-60, Cl. 200-83.
- Fluck, Linton A.: *See*—  
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- Fluegel, Dale A.: *See*—  
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- Fluegel, Walter, and A. Durst, to Sandoz Ltd. Printing and pad-dyeing of polyacrylonitrile articles. 2,955,010, 10-4-60, Cl. 88-62.
- Fluhr, Frederick R., to United States of America, Navy. Switching circuit. 2,959,690, 11-8-60, Cl. 307-88.5.
- Fluhrer, Robert C.: *See*—  
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- Fluidwick Co., Inc.: *See*—  
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- Flury, T. R.: *See*—  
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- Fluskey, Edward E., and H. U. Brueckner, to Revere Camera Co. Method and apparatus for manufacturing precision lenses. 2,932,138, 4-12-60, Cl. 51—209.
- Fluster, Alfred. Pencil point cleaning device. 2,923,020, 2-2-60, Cl. 15—210.
- Fly, Paul C.,  $\frac{1}{2}$  to H. E. Newell. Lifting apparatus for use with vehicles or the like. 2,935,214, 5-3-60, Cl. 214—77.
- Flynn, Floyd W.: *See*—  
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- Flynn, Floyd W., and N. C. Schutt, to Powers Chemco, Inc. Roll film magazine. 2,949,248, 8-16-60, Cl. 242—55.3.
- Flynn, James P., to The Dow Chemical Co. Recovery of thorium and rare earths from metallurgical sludges. 2,932,555, 4-12-60, Cl. 23—14.5.
- Flynn, Loren T., and H. E. Fox, to General Motors Corp. Transmission. 2,932,988, 4-19-60, Cl. 74—745.
- Flynn, Michael, Mfg. Co.: *See*—  
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- Flynn, Richard J. Wiper blade. 2,926,375, 3-1-60, Cl. 15—245.
- Flynn, Stanley F. Egg crate or case fillers or trays. 2,951,605, 9-6-60, Cl. 217—35.
- Flynn, Thomas J., and W. G. Sylvester, to Specialties Development Corp. Method of welding. 2,945,942, 7-19-60, Cl. 219—137.
- Fobian, George W., to Westinghouse Air Brake Co. Rotary compressor. 2,961,151, 11-22-60, Cl. 230—158.
- Fobiano, Frank E., to Premier Carton Co. Sandwich package. 2,947,637, 8-2-60, Cl. 99—171.
- Föbus, Walter. Chaplets. 2,958,106, 11-1-60, Cl. 22—184.
- Focht, Frank T.: *See*—  
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- Focht, John R., to Precision Valve Corp. Dispensing cap for pressure packed materials. 2,921,722, 1-19-60, Cl. 222—394.
- Focht, John R., to Precision Valve Corp. Machine for filling and charging an aerosol container and for sealing the latter. 2,947,126, 8-2-60, Cl. 53—88.
- Focht, John R., to Precision Valve Corp. Machine for supplying a charge of propellant to an aerosol container and for sealing the latter. 2,947,904, 8-2-60, Cl. 53—37.
- Fochtman, Edward G.: *See*—  
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- Focosi, Joseph W.: *See*—  
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- Focosi, Joseph W., Electrical plug connectors. 2,954,544, 9-27-60, Cl. 339—182.
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- Foehr, Edward G., and N. W. Furby, to California Research Corp. Lubricant composition. 2,960,468, 11-15-60, Cl. 252—32.7.
- Foerster, Friedrich M. O. Cathode ray tube circuits. 2,921,229, 1-12-60, Cl. 315—22.
- Foerster, Friedrich. Measuring and testing instruments. 2,928,043, 3-8-60, Cl. 324—34.
- Foerster, Friedrich M. O. Coil assembly for testing of rods or tubes. 2,939,071, 5-31-60, Cl. 324—34.
- Foerster, Friedrich M. O. Apparatus for non-destructive testing. 2,944,213, 7-5-60, Cl. 324—34.
- Foerster, Hans-Joachim M., to Daimler-Benz Aktiengesellschaft. Transmission with fluid coupling. 2,956,449, 10-18-60, Cl. 74—730.
- Fogal, Gordon L., to United States of America, Navy. Fin stabilized parachute pack. 2,934,011, 4-26-60, Cl. 102—4.
- Fogal, Gordon L., R. E. Froehlich, S. E. West, and M. Brock. Stabilizing system for mine dropped from aircraft. 2,942,545, 6-28-60, Cl. 102—4.
- Fogarty, Laurence E., to Link Aviation, Inc. Aircraft trainer apparatus. 2,925,667, 2-23-60, Cl. 35—12.
- Fogarty, Laurence E., to General Precision, Inc. Grounded aircraft trainer. 2,930,144, 3-29-60, Cl. 35—12.
- Fogarty, Laurence E., to General Precision, Inc. Method and means for focusing sound caused by aircraft. 2,938,682, 5-31-60, Cl. 244—77.
- Fogarty, Laurence E., to General Precision Inc. Computer function generator. 2,949,233, 8-16-60, Cl. 235—186.
- Fogarty Mfg. Co., The: *See*—  
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- Fogel, Lawrence J. System for improving intelligibility. 2,920,138, 1-5-60, Cl. 179—1.
- Fogel, Lawrence J., to General Dynamics Corp. Advanced flight control instrumentation and control system. 2,960,906, 11-22-60, Cl. 88—1.
- Fogel, Lawrence J. Apparatus for improving intelligence under high ambient noise levels. 2,966,549, 12-27-60, Cl. 171—1.
- Fogel, Robert L.: *See*—  
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- Fogle, Merald C., to Gulf Research & Development Co. Process and apparatus for the destructive hydrogenation of hydrocarbon oils in two states. 2,959,534, 11-8-60, Cl. 208—59.
- Fogle, Merald C., R. G. Goldthwait, S. J. Kwolek, and T. Rice, to Gulf Research & Development Co. Process for isomerizing normal paraffins. 2,944,093, 7-5-60, Cl. 260—683.68.
- Fogle, William B.: *See*—  
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- Fogle, William B., to The Black and Decker Mfg. Co. Pole mounting means for portable electric vacuum cleaner. 2,959,388, 11-8-60, Cl. 248—231.
- Foglia, Andrew J., to American Cyanamid Co. Process for making orthopedic cast. 2,954,766, 10-4-60, Cl. 128—91.
- Fohr, Matthias, to Werkzeugmaschinenfabrik Oerlikon Bührle & Co., Abt., Elektrodienfabrik. Method of producing containers from thermoplastic material. 2,947,653, 8-2-60, Cl. 154—83.
- Fohrhaltz, Howard A., R. F. Hasko, and R. A. Ochs, to General Electric Co. Means for clamping tubular members. 2,927,781, 3-8-60, Cl. 257—248.
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- Folster, Clay & Ward Ltd.: *See*—  
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- Folberth, Otto: *See*—  
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- Folberth, Otto G.: *See*—  
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- Folberth, Otto G., to Siemens-Schuckertwerke Aktiengesellschaft. Method for producing and re-melting compounds having high vapor pressure at the melting point. 2,944,975, 7-12-60, Cl. 252—62.3.
- Földi, Zoltan: *See*—  
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- Foley, Daniel E., and F. H. Hanley, to American Telephone and Telegraph Co. Telegraph repeater system. 2,929,970, 3-22-60, Cl. 317—152.
- Foley, Daniel M., to West Coast Steel Products Co. Liquid fuel heater. 2,941,586, 6-21-60, Cl. 158—91.
- Foley, Dennis D., to Texas Power & Light Co., and Texas and Aluminum Co. of America. Solvent extraction of low-temperature tar and products therefrom. 2,955,079, 10-4-60, Cl. 208—22.
- Foley, John R., to United Aircraft Corp. Sweep back in blading. 2,962,260, 11-29-60, Cl. 253—78.
- Foley, John R., and C. B. Smith, to United Aircraft Corp. Induction and discharge means for effective camber control. 2,944,729, 7-12-60, Cl. 230—122.
- Foley, Leroy E., Jr., and R. R. Watson, to General Electric Co. Coil wrapping machine. 2,962,236, 11-29-60, Cl. 242—6.
- Foley Mfg. Co.: *See*—  
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- Foley, Michael P., to Joy Mfg. Co. Apparatus for controlling electrical precipitators. 2,935,155, 5-3-60, Cl. 183—7.
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- Foley, Thomas P., to General Electric Co. Magnetic sealing gasket. 2,928,145, 3-15-60, Cl. 20—69.
- Foley, Thomas P., to General Electric Co. Magnetic door latching arrangement for refrigerator. 2,932,545, 4-12-60, Cl. 312—296.
- Foley, William A.: *See*—  
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- Folkers, Karl A., and C. H. Hoffman, to Merck & Co., Inc. Phosphates of 2,3-dimethoxy-5-methyl hydroquinones. 2,962,519, 11-29-60, Cl. 260—461.
- Folkerts, Walter E., to Chrysler Corp. Ball bearing recirculating device. 2,925,744, 2-23-60, Cl. 74—459.
- Folkerts, Walter E., to Chrysler Corp. Power boosting mechanism with feel-back pressure limiting valve. 2,930,358, 3-29-60, Cl. 121—41.
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- Folkerts, Walter E., to Chrysler Corp. Resilient ball return. 2,945,392, 7-19-60, Cl. 74—459.
- Folkerts, Walter E., to Chrysler Corp. Vehicle steering mechanism. 2,958,236, 11-1-60, Cl. 74—499.



- Folkerts, Walter E., to Chrysler Corp. Sealing device. 2,962,331, 11-29-60, Cl. 309-29.
- Folkins, Hillis O.: *See—*  
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 Holm, Le Roy W., and Folkins. 2,921,025.  
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- Folkins, Hillis O., to The Pure Oil Co. Production of jet fuel hydrocarbons. 2,956,002, 10-11-60, Cl. 208-59.
- Folkins, Hillis O., E. L. Miller, and C. T. O'Malley, to The Pure Oil Co. Hydrocatalytic refining of lubricating oils and catalyst therefor. 2,921,024, 1-12-60, Cl. 208-264.
- Folkins, Hillis O., E. L. Miller, and K. E. Lucas, to The Pure Oil Co. Process and catalyst for the isomerization of hydrocarbons. 2,925,453, 2-16-60, Cl. 260-683.65.
- Folkins, Hillis O., and M. J. Geerts, to The Pure Oil Co. Isomerization catalysts and process. 2,926,207, 2-23-60, Cl. 260-683.65.
- Folkins, Hillis O., and E. L. Miller, to The Pure Oil Co. Catalyst comprising palladium on silica-alumina treated with a carboxylic acid, method of preparation, and isomerization process using same. 2,937,214, 5-17-60, Cl. 260-683.65.
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- Folkins, Hillis O., and E. L. Miller, to The Pure Oil Co. Catalysts and process for the preparation of alkyl sulfides. 2,951,872, 9-6-60, Cl. 260-609.
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- Folmar, Arthur J.: *See—*  
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- Folse, Kenneth H. Method of demagnetizing a magnetic record. 2,962,560, 11-29-60, Cl. 179-100.2.
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- Folta, Andrew, to Precision Paper Tube Co. Method for making bobbins. 2,950,527, 8-30-60, Cl. 29-458.
- Foltyn, John S.: *See—*  
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- Foltyn, John S., to Motorola, Inc. Combined transistor heat sink and panel. 2,964,621, 12-13-60, Cl. 250-16.
- Foltz, Cecil R.: *See—*  
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- Foltz, Thomas R., Jr., to Lockport Felt Co., Inc. Paper-maker's felt. 2,943,379, 7-5-60, Cl. 28-79.
- Folz, John M.: *See—*  
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- Folz, John M., to Phillips Petroleum Co. Polymer skimmer. 2,929,508, 3-22-60, Cl. 210-512.
- Folz, John M., to Phillips Petroleum Co. Ethylene purification. 2,942,042, 6-21-60, Cl. 260-677.
- Folz, John M., and C. A. Bretz, to Phillips Petroleum Co. Method of supplying a catalyst to a reactor and apparatus therefor. 2,963,525, 12-6-60, Cl. 260-683.15.
- Folz, Samuel, to The Brundage Co. Safety collar. 2,951,720, 9-6-60, Cl. 287-52.
- Fomenko, S. M., to Litton Industries, Inc. Pliant disk magnetic recording apparatus. 2,950,353, 8-23-60, Cl. 179-100.2.
- Fonda-Bonardi, Giusto. Microwave devices employing quantum transition resonance phenomena. 2,950,444, 8-23-60, Cl. 331-3.
- Fonda Investment Corp.: *See—*  
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- Fondazione Emanuele Paterno: *See—*  
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- Foner, Simon. Magnetic test apparatus. 2,946,948, 7-26-60, Cl. 324-34.
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- Fong, Samuel G., to International Telephone and Telegraph Corp. Radiation sensitive device. 2,951,944, 9-6-60, Cl. 250-83.3.
- Fong, Wing H. Combined accelerator and brake control for motor vehicles. 2,919,773, 1-5-60, Cl. 192-3.
- Fonken, Gunther S., to The Upjohn Co. 11 $\beta$ -hydroxy-11 $\alpha$ -lower-alkylpregnane-3,20-diones. 2,944,069, 7-5-60, Cl. 260-397.45.
- Fontaine, Guy T.: *See—*  
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- Fontaine, John G., to Automatic Phone Recorder Co. Ltd. Telephone answering recorder. 2,925,279, 2-16-60, Cl. 274-1.
- Fontaine, Marc F.: *See—*  
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- Fontaine, Robert R., C. M. Whitby, and H. D. White, Jr., to ACF Industries, Inc. Hydraulic pressure simulation. 2,944,347, 7-12-60, Cl. 35-12.
- Fontana, Beppino J.: *See—*  
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- Fontana, Beppino J., to California Research Corp. Gasoline composition. 2,936,224, 5-10-60, Cl. 44-69.
- Fontein, Freerk J., to Stamicarbon N.V. Apparatus for wet screening. 2,942,730, 6-28-60, Cl. 209-274.
- Fontenelli, John, to Fibro Corp. Game pieces. 2,942,885, 6-28-60, Cl. 273-82.
- Fonyo, Aladar, to Wm. J. Stange Co. Hop flavoring material and method of preparing same. 2,952,546, 9-13-60, Cl. 99-50.5.
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- Foos, Raymond A.: *See—*  
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- Foos, Raymond A., to National Distillers and Chemical Corp. Recovery of tantalum values. 2,950,966, 8-30-60, Cl. 75-121.



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- Foos, Raymond A., and H. F. Gemperline, to Union Carbide Corp. Columbium and tantalum separation. 2,962,372, 11-29-60, Cl. 75-121.
- Foot, Allan E., to Container Corp. of America. Container for loose or packaged bottles. 2,955,707, 10-11-60, Cl. 206-65.
- Foot, Daniel J., and N. L. Berkowitz, to Master Lock Co. Padlock display cards. 2,949,185, 8-16-60, Cl. 206-80.
- Foot, Frank G., to United States of America, Atomic Energy Commission. Ternary alloys of uranium, columbium, and zirconium. 2,947,621, 8-2-60, Cl. 75-122.7.
- Foot, James E., to Diamond National Corp. Charcoal package. 2,955,029, 10-4-60, Cl. 44-40.
- Foot, Lawrence R., to General Electric Co. Control system for alternating current motor. 2,958,814, 11-1-60, Cl. 318-207.
- Foot Mineral Co.: See—  
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- Foot, Vernon S., Jr., to United States of America, Navy. Weapon component carrier. 2,948,562, 8-9-60, Cl. 294-67.
- Foraker, Robert W., to National Lead Co. Ceramic glaze. 2,929,728, 3-22-60, Cl. 106-54.
- Forbath, Frank P., and J. M. Hansen, to Hughes Aircraft Co. Computer register. 2,928,938, 3-15-60, Cl. 250-27.
- Forbes, Donald H. S., and J. A. Mathams, to Ethicon, Inc. Sutures. 2,928,395, 3-15-60, Cl. 128-335.5.
- Forbes, Sydney, to Columbia-Southern Chemical Corp. Electrolytic cell series. 2,920,028, 1-5-60, Cl. 204-253.
- Forbush, Dellis R. Electric fan propelled merry-go-round. 2,950,109, 8-23-60, Cl. 272-41.
- Forbush, Lothrop M.: See—  
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- Forbush, Lothrop M., and R. V. Hutchinson, to General Motors Corp. Power actuator for hydraulic brakes. 2,955,426, 10-11-60, Cl. 60-54.6.
- Forbush, Lothrop M., V. A. Rusnack, G. Stofflet, and J. S. Wroby, to General Motors Corp. Wheel hub assembly. 2,956,632, 10-18-60, Cl. 180-73.
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- Ford, Barton H.,  $\frac{1}{2}$  to International Paper Co., and  $\frac{1}{2}$  to The Stanley Works. Unitary car door closure. 2,925,632, 2-23-60, Cl. 20-27.
- Ford, Barton H.,  $\frac{1}{2}$  to International Paper Co., and  $\frac{1}{2}$  to The Stanley Works. Freight car bulkhead. 2,949,866, 8-23-60, Cl. 105-369.
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- Ford, Francis P., to Esso Research and Engineering Co. Vulcanized butyl rubber with highly unsaturated rubbers by amino compounds. 2,948,320, 8-9-60, Cl. 152-330.
- Ford, Francis P., G. E. Jasper, J. F. Nelson, and L. M. Welch, to Esso Research and Engineering Co. Polyvinyl chloride composition containing hydrocarbon tar. 2,946,695, 8-9-60, Cl. 260-28.5.
- Ford, Francis P., and J. R. Lovett, Esso Research and Engineering Co. Stabilization of polypropylene with combined materials. 2,965,606, 12-20-60, Cl. 260-45.75.
- Ford, Fred A., and P. D. May, to The American Oil Co. Alpha-methylstyrene resin preparation. 2,941,989, 6-21-60, Cl. 260-93.5.
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- Ford, Gerald M., to United States of America, Navy. Stable semiconductor amplifier for direct-current signals. 2,930,984, 3-29-60, Cl. 330-9.
- Ford, Gerald M., to General Motors Corp. Transistorized ignition system. 2,941,119, 6-14-60, Cl. 315-92.
- Ford, Harold H., to General Motors Corp. Automotive vehicle optical system. 2,953,063, 9-20-60, Cl. 88-86.
- Ford, Harry S., to Johns-Manville Corp. Fastener holding tool. 2,935,314, 5-3-60, Cl. 269-115.
- Ford, James G., to Westinghouse Electric Corp. Electrical coil. 2,942,217, 6-21-60, Cl. 336-205.
- Ford, James R., to Hycon Mfg. Co. Airborne scintillation counter. 2,956,164, 10-11-60, Cl. 250-71.5.
- Ford, John C. Dough cutting and shaping mechanism. 2,928,557, 3-1-60, Cl. 83-623.
- Ford, John H., to McGraw-Edison Co. Load pickup repeating circuit interrupter. 2,961,582, 11-22-60, Cl. 317-22.
- Ford, John R., I. D. Kruger, and H. Perkel, to Radio Corp. of America. Rotating radar antenna. 2,947,989, 8-2-60, Cl. 343-757.
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- Ford, Paul H. Fireplace grate. 2,926,657, 3-1-60, Cl. 126-165.
- Ford, Ralph E., to W. A. Ternes. Door. 2,943,675, 7-5-60, Cl. 160-206.
- Ford, Robert S. Hand and power operated marine and aircraft steering gear. 2,928,377, 3-15-60, Cl. 121-41.
- Ford, Walter B., II, and A. Keller, to Dura Corp. Vehicle body with separately retractable top and rear window. 2,957,725, 10-25-60, Cl. 296-107.
- Ford, William E.: See—  
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- Fordeck, William A., to The Magnavox Co. Coll winding apparatus. 2,923,485, 2-2-60, Cl. 242-4.
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- Fordyce, David B., C. L. Levesque, and W. D. Niederhauser, to Rohm & Haas Co. Pigment pastes containing water-soluble diisobutylene-maleic anhydride copolymer salts. 2,930,775, 3-29-60, Cl. 260-29.6.



- Foreman, Robert W.: *See*—  
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- Foreman, Robert W., to The Standard Oil Co. Percolation process for the recovery of naphthalene using silica gel impregnated with picric acid. 2,941,018, 6-14-60, Cl. 260-674.
- Foreman, Robert W., and A. F. Miller, to The Standard Oil Co. Extractive crystallization process for the recovery of naphthalene from hydrocarbon stocks utilizing polynitro aromatic compounds as complexors. 2,941,019, 6-14-60, Cl. 260-674.
- Foremost Dairies, Inc.: *See*—  
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- Forest, Alexander R. Insurance program computer. 2,925,668, 2-23-60, Cl. 35-24.
- Forest, Alexander R. Graphic exhibitor. 2,925,669, 2-23-60, Cl. 35-24.
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- Forgacs, Robert L., to Ford Motor Co. Flash producing circuit. 2,931,948, 4-5-60, Cl. 315-241.
- Forges et Ateliers de Constructions Electriques de Jeumont: *See*—  
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- Forge, John G., and G. C. Koons, to Martin Aircraft Tool Co. Anchoring sleeve for rotary tool. 2,937,544, 5-24-60, Cl. 77-55.
- Forkardt, Paul, Kommanditgesellschaft: *See*—  
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- Forkel, William C.: *See*—  
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- Forkner, John H. Dredge construction. 2,952,083, 9-13-60, Cl. 37-71.
- Form-A-Top Products Co.: *See*—  
Fisco, Fred G. 2,951,299.
- Forman, Benjamin G. Narrow diameter non-conductive fastener. 2,935,552, 5-3-60, Cl. 174-138.
- Forman, Milton, and H. D. Urdanoff, to Alpha Tank Co., Inc. Fluid filtering apparatus with removable filter holder. 2,921,686, 1-19-60, Cl. 210-323.
- Forman, Ralph, to United States of America, Commerce. Electrostatically-controlled resistance tube. 2,935,624, 5-3-60, Cl. 307-88.5.
- Formby, John A. Record controlled recording apparatus. 2,940,065, 6-7-60, Cl. 340-174.
- Formetal, Inc.: *See*—  
Almendinger, Robert V. 2,933,757.
- Formfit Co., The: *See*—  
Paveza, Charles. 2,949,916.  
Pucci, Emilio. 2,928,397.  
Williamson, Anne O. 2,920,627.
- Forming Machine Co. of America, Inc., The: *See*—  
Simpson, Alvan D. 2,960,162.
- Formsprag Co.: *See*—  
Lund, Johan. 2,954,855.  
Moule, Rex E., and Fairbanks. 2,965,206.
- Fornas, Levi L., to Hollywood Plastics, Inc. Stackable plastic container. 2,960,134, 11-15-60, Cl. 150-5.
- Fornell, Bertil S.: *See*—  
Fornell, David E. and B. S. 2,922,640.
- Fornell, David E. and B. S. Collating machine. 2,922,640, 1-26-60, Cl. 270-58.
- Forney, Charles D., Jr. Method and means for measuring silver production. 2,925,630, 2-23-60, Cl. 19-159.
- Forney Generators, Inc.: *See*—  
Forney, James D. 2,950,923.
- Forney, Harry B., and L. Greiner, to Experiment Inc. Method for the decomposition of ethylene oxide. 2,927,850, 3-8-60, Cl. 52-5.
- Forney, James D., to Forney Generators, Inc. Sled. 2,950,923, 8-30-60, Cl. 280-12.
- Fornitt, Philip M., to Hupp Corp. Gas burners. 2,936,751, 5-17-60, Cl. 126-92.
- Fornstrom, Carl T.: *See*—  
Hamilton, Edward R., and Fornstrom. 2,930,220.
- Forrer, Hans, to Aktiengesellschaft Brown Boveri & Cie. Apparatus for annealing bar-like steel bodies. 2,931,641, 4-5-60, Cl. 266-5.
- Forrer, Homer W., to Mead Packaging, Inc. Paperboard carrier incorporating a removable indicia panel. 2,919,829, 1-5-60, Cl. 220-115.
- Forrer, Homer W., to Mead Packaging, Inc. Tray structure for bottles and other articles. 2,961,143, 11-22-60, Cl. 229-28.
- Forrest, Effie E. Invalid transfer apparatus. 2,963,713, 12-13-60, Cl. 5-317.
- Forrest, Frank R., to Allis-Chalmers Mfg. Co. Lubrication device for antifriction bearings. 2,950,943, 8-30-60, Cl. 308-187.
- Forrest, Harry D.: *See*—  
Stemmons, Charles O., and Forrest. 2,953,345.
- Forrest, Hugh S., J. E. Myers, and C. Van Baalen, to D. R. Bullard, C. M. Malone, W. T. Doherty, and J. Andrews, trustees. Glucoside of 2-amino-4-hydroxy-6-(1',2'-dihydroxypropyl)-pteridine. 2,940,966, 6-14-60, Cl. 260-210.
- Forrest, Walter A., to The Pure Oil Co. Detonation responsive apparatus. 2,964,939, 12-20-60, Cl. 73-35.
- Forrest, Wilfrid, to Automatic Electric Laboratories, Inc. Trunk-connected private automatic branch exchange. 2,958,734, 11-1-60, Cl. 179-18.
- Forrester, John S., and E. M. Charlet, to Esso Research and Engineering Co. Method for determining the presence of aldehydes in mixtures. 2,923,823, 2-2-60, Cl. 250-43.5.
- Forrester, Robert E., and F. K. Sturgis, to Aero Supply Mfg. Co., Inc. Fluid sensing device. 2,966,160, 12-27-60, Cl. 137-43.
- Fors, Carl I. Chain saw blade. 2,928,440, 3-15-60, Cl. 143-135.
- Forsberg, Arthur R. Gravity separator. 2,928,545, 3-15-60, Cl. 209-467.
- Forsberg, Arthur R. Roughing down machine for cleaning grain, beans and the like. 2,950,006, 8-23-60, Cl. 209-138.
- Forse Corp.: *See*—  
De Furia, Harry. 2,924,557.
- Forsgard, Frederick C.: *See*—  
Blake, Ralph K., Forsgard, and Hunt. 2,952,537.
- Forsgard, Frederick C., to E. I. du Pont de Nemours and Co. Silver halide emulsions. 2,937,087, 5-17-60, Cl. 98-87.
- Forshaw, James R., to Power Jets (Research and Development) Ltd. Multi-stage aerofoil-bladed compressors. 2,958,456, 11-1-60, Cl. 230-114.
- Forshee, Morton E. Balance control water screen. 2,936,074, 5-10-60, Cl. 210-116.
- Forshey, Charles S. Latch mechanism. 2,924,477, 2-9-60, Cl. 292-216.
- Forshey, William O., Jr., to E. I. du Pont de Nemours and Co. Process for preparing carbon tetrafluoride of at least 90% purity. 2,924,624, 2-9-60, Cl. 260-653.
- Forshey, William O., Jr., to E. I. du Pont de Nemours and Co. Process for preparing carbon tetrafluoride of high degree of purity from reactants heated in carbon electric arc. 2,924,625, 2-9-60, Cl. 260-653.
- Forshey, William O., Jr., to E. I. du Pont de Nemours and Co. Preparation of tetrafluoroethylene. 2,941,012, 6-14-60, Cl. 260-653.3.
- Forssén, Zeth E.: *See*—  
Rosenqvist, Per O., and Forssén. 2,949,247.
- Forst, David D., and L. D. Merkl, to Mayville Metal Products Co. Vending apparatus. 2,936,931, 5-17-60, Cl. 221-90.
- Forster, Albert, to Gesellschaft der Ludw. von Roll'schen Eisenwerke AG. Four-roll rolling mill. 2,922,325, 1-26-60, Cl. 80-38.
- Forster, Donald C.: *See*—  
Currie, Malcolm R., and Forster. 2,936,393.
- Forster, Eric O.: *See*—  
Black, James F., and Forster. 2,936,377.
- Forster, George A., and C. H. Sump, to Armour Research Foundation of Illinois Institute of Technology. Electrical brush. 2,939,977, 6-7-60, Cl. 310-248.
- Förster, Hans-Joachim M., to Daimler-Benz Aktiengesellschaft. Method of controlling and ratio changing mechanism for a speed change transmission. 2,920,496, 1-12-60, Cl. 74-357.
- Förster, Hans-Joachim M., to Daimler-Benz Aktiengesellschaft. Transmission, particularly for automotive purposes. 2,920,728, 1-12-60, Cl. 192-3.2.
- Forster, Hans-Joachim M., to Daimler-Benz Aktiengesellschaft. Magnetic particle and friction clutch with low inertia output member. 2,921,658, 1-19-60, Cl. 192-21.5.
- Förster, Hans-Joachim M., to Daimler-Benz Aktiengesellschaft. Pump means for hydraulic servo systems. 2,935,951, 5-10-60, Cl. 103-4.
- Förster, Hans-Joachim M., to Daimler-Benz Aktiengesellschaft. Speed change transmission. 2,937,543, 5-24-60, Cl. 74-688.
- Förster, Hans-Joachim M., to Daimler-Benz Aktiengesellschaft. Automobile transmission. 2,943,503, 7-5-60, Cl. 74-359.
- Förster, Hans-Joachim M., to Daimler-Benz Aktiengesellschaft. Method for sensing and amplifying the power for steering vehicles and power steering mechanism for practicing such method. 2,961,886, 11-29-60, Cl. 74-388.
- Forster, Henry A. R., to Albert Pemberton & Co. Ltd. Means for feeding shoe stiffener blanks into machines for moulding the same. 2,953,795, 9-27-60, Cl. 12-66.
- Forster, Lloyd M.: *See*—  
Cole, Norman W., and Forster. 2,962,808.
- Forster, Michael J.: *See*—  
Russell, John R., and Forster. 2,929,429.
- Forster, Peter E., and A. E. Pirman, to The Motch & Merryweather Machinery Co. Multi-station live spindle indexing machine. 2,965,208, 12-20-60, Cl. 192-342.
- Forster, Warren S.: *See*—  
Hardy, William B., Forster, and Coleman. 2,962,533.
- Forstner, Egon, to Dr. Ing. h. c. F. Porsche KG. Valve control arrangement for internal combustion engines. 2,954,017, 9-27-60, Cl. 123-90.
- Förstner, Pál: *See*—  
Harmos, Ferenc, Förstner, Csapody, Deutsch, and Lukacs. 2,959,893.
- Forsvarets fabriksstyrelse (Directorate of Swedish Defence Factories): *See*—  
Abramson, Hugo, and Akselson. 2,927,535.



- Forsyth, John S., to Willson & Co., Inc. Method of preparing canned food product. 2,940,862, 6-14-60, Cl. 99—187.
- Forsyth, Leslie M. X-ray filter grid assembly and actuating means therefor. 2,938,120, 5-24-60, Cl. 250—62.
- Forsythe, Alan K., to Armstrong Cork Co. Tall oil fatty acid containing linoleum cement. 2,937,103, 5-17-60, Cl. 106—123.
- Forsythe, Alan K., to Armstrong Cork Co. Method of controlling the gelation of filled diisocyanate modified polyester. 2,943,072, 6-28-60, Cl. 260—40.
- Fort, Russell M.: *See—*
- Reddick, Leonard L., Fort, Baldi, Harmon, and Ziegelbein. 2,925,223.
- Fort, Anthony. Reversible necktie and method of making the same. 2,957,178, 10-25-60, Cl. 2—146.
- Fort, Michael D., to Radio Corp. of America. Eyeleted bulk spacer assembly. 2,943,224, 6-28-60, Cl. 313—269.
- Forter, Willy, and F. Kehr, to Sandoz A.G. Water-insoluble disazo dyestuffs. 2,936,305, 5-10-60, Cl. 260—175.
- Forter, Willy, and F. Kehr, to Sandoz Ltd. Mixtures of water-insoluble disazo dyestuffs. 2,941,858, 6-21-60, Cl. 8—26.
- Fortess, Fred, and F. Best, to Celanese Corp. of America. Process for the production of patterned tone-on-tone effects on a thermoplastic material. 2,954,269, 9-27-60, Cl. 8—14.
- Forth, Murray W., to Deere & Co. Conveyor for crop driers. 2,962,818, 12-6-60, Cl. 34—167.
- Fort Howard Paper Co.: *See—*
- Hope, David G., Filipowicz, Renard, and Wiggins. 2,932,426.
- Sobota, John T. 2,930,229.
- Fortier, Harley E.: *See—*
- Pierce, Earl W., and Fortier. 2,939,983.
- Fortis, John C. Drive unit for portable rotisserie. 2,961,588, 11-22-60, Cl. 318—139.
- Fortmann, William E.: *See—*
- Porter, Robert D., Harner, and Fortmann. 2,936,584.
- Fortmann, William E., to United Aircraft Corp. Fuel control for a split turbine type power plant. 2,923,128, 2-2-60, Cl. 60—39.16.
- Fortna, Henry F.: *See—*
- Cootes, Harold E., Folkenroth, Fortna, Fuller, and Ullman. 2,954,599.
- Ullman, Robert, Fortna, Middleton, Schwalm, and Tritt. 2,961,027.
- Fortner, Cecil P., to Plax Corp. Blow molding machine and process. 2,952,034, 9-13-60, Cl. 18—5.
- Fortner, Cecil P., and C. G. Reber, to Plax Corp. Process and apparatus for manufacturing polyethylene tubing. 2,955,321, 10-11-60, Cl. 18—14.
- Fortner & Perrin, Inc.: *See—*
- Ruzicka, Stanley O. 2,961,134.
- Fortuna Werke Spezialmaschinenfabrik A.G.: *See—*
- Braun, Dieter. 2,935,158.
- Braun, Dieter. 2,938,369.
- Fortune, Donald A. Propeller shroud. 2,949,092, 8-16-60, Cl. 115—18.
- Fortune, Donald A. Propeller shroud. 2,962,999, 12-6-60, Cl. 115—18.
- Fort Wayne Tool Die & Engineering Co.: *See—*
- Eminger, Robert J. 2,949,789.
- Lill, John F. 2,928,617.
- Fort Worth Steel and Machinery Co.: *See—*
- Burnham, Willets M. 2,930,448.
- Forwald, Haakon, to Allmanna Svenska Elektriska Aktiebolaget. High tension air blast circuit breaker comprising a number of breaking units with breaking contacts arranged inside air containers carried by insulator pillars. 2,921,168, 1-12-60, Cl. 200—145.
- Forwald, Haakon, to Allmanna Svenska Elektriska Aktiebolaget. Oil circuit breakers. 2,948,790, 8-9-60, Cl. 200—150.
- Forward, Frank A., H. Veltman, and A. I. Vizsolyi, to Sherritt Gordon Mines Ltd. Process for the production of lead. 2,950,964, 8-30-60, Cl. 75—103.
- Forward, Philip: *See—*
- Scragg, Frederick, and Forward. 2,921,430.
- Fosberry, Ronald A. C., and Z. Holubecki, to National Research Development Corp. Vibration damping devices for use with drum brakes. 2,941,631, 6-21-60, Cl. 188—218.
- Fosdal, Alfred. Dental instrument for immobilizing tissue. 2,945,496, 7-19-60, Cl. 128—297.
- Fosdick, Gaynard H., B. F. Hubbard, and J. C. McMillan. Function programmers. 2,921,284, 1-12-60, Cl. 338—116.
- Fosdick Machine Tool Co., The: *See—*
- Knosp, Robert N. 2,932,088.
- Foskett, Kenneth H., to Basic Products Corp. Socket for plug-in meters. 2,921,154, 1-12-60, Cl. 200—51.1.
- Foss, Burdette W.: *See—*
- Hankel, Melvin C., and Foss. 2,922,376.
- Wright, George W., Kerr, and Foss. 2,962,035.
- Foss, Curtis D. Dust guard and seal for journal box. 2,959,431, 11-8-60, Cl. 286—6.
- Foss, David W., to Bomac Laboratories Inc. Tunable cavity resonator. 2,949,790, 8-23-60, Cl. 74—89.
- Foss, Frederic A., to International Business Machines Corp. High speed lister with automatic verification of listing accuracy. 2,932,249, 4-12-60, Cl. 101—93.
- Foss, Frederic A., to International Business Machines Corp. Control systems. 2,966,670, 12-27-60, Cl. 340—347.
- Foss, George J., and H. W. Unger, to Continental Can Co., Inc. Sealing gasket composition and method of making tubular gasket stock therefrom. 2,930,082, 3-29-60, Cl. 18—47.5.
- Foss, Marvin W., 10% to S. S. Reibin. Pivoted inner jaw wrench. 2,957,378, 10-25-60, Cl. 81—97.
- Foss, Norman, to G. Greene. Multiple coin ejector. 2,952,372, 9-13-60, Cl. 214—310.
- Foss, Norman H.: *See—*
- Kasson, Glendon F., and Foss. 2,962,925.
- Fossan, Kare R.: *See—*
- Wetterholm, Gustav A., and Fossan. 2,921,648.
- Fossati, Mario. Hinged rods mechanism for recline arm-chairs. 2,954,072, 9-27-60, Cl. 155—106.
- Fossey, Nigel F.: *See—*
- Wright, Esmond P. G., Rice, and Fossey. 2,958,726.
- Fossum, John K., to Shield Chair Co., Inc. Convertible sofa-bed. 2,937,384, 5-24-60, Cl. 5—18.
- Foster, Alan: *See—*
- Burtner, Richard L., and Timms. 2,932,392.
- Littlehale, Bradner M. 2,953,956.
- Timms, Ross L. 2,950,799.
- Timms, Ross L. 2,951,164.
- Foster, Allan D., to Almor Corp. Price tag molding. 2,950,554, 8-30-60, Cl. 40—16.
- Foster, Arthur G., to Western Electric Co., Inc. Cut-over mechanism for advancing strands. 2,944,755, 7-12-60, Cl. 242—80.
- Foster, Berry W.: *See—*
- Shapiro, Henry, Martin, and Foster. 2,928,652.
- Foster, Berry W. Engine compressor. 2,928,584, 3-15-60, Cl. 230—56.
- Foster, Berry W. Two-stage gas turbine and centrifugal compressor compounded with a compressed gas generator. 2,933,884, 4-26-60, Cl. 60—13.
- Foster, Berry W. Pump. 2,938,658, 5-31-60, Cl. 230—95.
- Foster, Berry W. Free piston compressed gas generator. 2,943,610, 7-5-60, Cl. 123—46.
- Foster, Boutwell H., and N. Haddad, to United States Rubber Co. Pile fabric and method of making same. 2,921,360, 1-19-60, Cl. 28—74.
- Foster Brothers Mfg. Co.: *See—*
- Helton, William J. 2,947,997.
- Helton, William J. 2,948,904.
- Foster, Carroll C. Bar accessory. 2,936,163, 5-10-60, Cl. 265—27.
- Foster, Chamberlain B. Sr. Toy rocking horse. 2,928,674, 3-15-60, Cl. 272—53.2.
- Foster, Charlie E. Tractor with fender and cab defining tanks. 2,946,598, 7-26-60, Cl. 280—5.
- Foster, Claud: *See—*
- Strang, John M., and Foster. 2,946,257.
- Foster, Dolores J., & Associates: *See—*
- Eidson, Gordon R. and B. G., and Mercer. 2,953,084.
- Foster, Douglas L.: *See—*
- Gresky, Alan T., Nurmi, Foster, Wischow, and Savolainen. 2,931,706.
- Foster, Edwin E., to Majik-Ironers, Inc. Iron supporting linkage. 2,939,229, 6-7-60, Cl. 38—30.
- Foster, Edwin E., to Majik-Ironers, Inc. Ironing apparatus. 2,939,230, 6-7-60, Cl. 38—30.
- Foster, Edwin E., to Majik-Ironers, Inc. Ironing apparatus. 2,954,619, 10-4-60, Cl. 38—30.
- Foster, Edwin E. Spring. 2,956,795, 10-18-60, Cl. 267—1.
- Foster, Edwin E. Pressing apparatus. 2,961,784, 11-29-60, Cl. 38—28.
- Foster, Elmer C., F. O., and L., to Fremlee Development Corp. Pot cleaning devices. 2,944,271, 7-12-60, Cl. 15—28.
- Foster, Elton G.: *See—*
- Anderson, Elmer A., Foster, Gable, and Hood. 2,960,447.
- Foster, Florin G., P. S. Collie, and I. O. Lashley. Tire removing tool. 2,960,153, 11-15-60, Cl. 157—126.
- Foster, Frances O.: *See—*
- Foster, Elmer C., F. O., and L. 2,944,271.
- Foster, Geoffrey L., and P. F. Nicks, to Imperial Chemical Industries Ltd. Process for curing polymerizable esters in presence of organic hydroperoxide and metallic driers. 2,928,804, 3-15-60, Cl. 260—45.4.
- Foster, George: *See—*
- Judge, Edward T., and Foster. 2,929,280.
- Foster, George B., to Industrial Nucleonics Corp. Measuring system. 2,964,631, 12-13-60, Cl. 250—83.3.
- Foster, George B., and W. H. Canter, Jr., to Industrial Nucleonics Corp. Electromagnetic radiation device. 2,933,606, 4-19-60, Cl. 250—83.3.
- Foster, George B., and W. R. Clore, to Industrial Nucleonics Corp. Cascade standardization. 2,951,161, 8-30-60, Cl. 250—83.3.
- Foster Grant Co. Inc.: *See—*
- Baum, Sidney J. 2,957,833.
- Bloch, Jack. 2,936,897.
- D'Alelio, Gaetano F., and Silberberg. 2,948,710.
- Laughton, Malcolm. 2,923,414.
- Foster, Harry C., to Olin Mathieson Chemical Corp. Target throwing apparatus. 2,925,812, 2-23-60, Cl. 124—8.
- Foster, Harry R., and E. E. Crump, to Ohmega Laboratories. Wave generating apparatus. 2,921,268, 1-12-60, Cl. 331—55.
- Foster, Harry R., and E. E. Crump, to Ohmega Laboratories. Vacuum tube voltmeter. 2,929,024, 3-15-60, Cl. 324—115.
- Foster, Harry R., and E. E. Crump, to Ohmega Laboratories. Means for producing color signal waves. 2,939,085, 5-31-60, Cl. 328—187.



- Foster, Herbert G., Jr., and R. H. Mroch, to Swift & Co. Electrostatic precipitation of antimycotics. 2,965,495, 12-20-60, Cl. 99—162.
- Foster, Hoyt K., to S. W. Farber Inc. Detachable temperature regulating connector for electrically heated devices. 2,926,230, 2-23-60, Cl. 200—136.5.
- Foster, Jack J.: *See*—  
Maag, Raymond H., and Foster. 2,923,613.
- Foster, Jackson W. Microbiological preparation of meso-tartaric acid. 2,947,665, 8-2-60, Cl. 195—36.
- Foster, James H., to Erie Resistor Corp. Multiple unit feed through filter. 2,940,058, 6-7-60, Cl. 333—79.
- Foster, James L.: *See*—  
Henda, Frank P., and Foster. 2,926,098.
- Foster, James L. Well explosive devices. 2,919,646, 1-5-60, Cl. 102—20.
- Foster, John C.: *See*—  
Chase, Henry V., Jr., Foster, and Jorlin. 2,953,093.
- Foster, John E. Machine for rewinding film or tape. 2,965,323, 12-20-60, Cl. 242—55—12.
- Foster, John J., to Jones & Laughlin Steel Corp. Apparatus for controlling sheared lengths of elongated material. 2,958,243, 11-1-60, Cl. 80—3.
- Foster, John J. Mfg. Co.: *See*—  
Anspach, Roy L., 2,951,145.
- Foster, John S., Jr., to United States of America, Atomic Energy Commission. Neutron source. 2,933,611, 4-19-60, Cl. 250—84.5.
- Foster, Karl: *See*—  
Pavlovic, Dusan, and Foster. 2,937,115.
- Foster, Kenneth, and A. P. C. Thiele, to A. C. Cossor Ltd. Electromagnetic wave radiators. 2,933,731, 4-19-60, Cl. 343—756.
- Foster, Laurence H.: *See*—  
Blanding, Wendell S., Foster, and Spremulli. 2,949,702.
- Foster, Leigh C., to Kaiser Industries Corp. Electronic device. 2,945,982, 7-19-60, Cl. 315—21.
- Foster, Leo: *See*—  
Foster, Elmer C., F. O., and L. 2,944,271.
- Foster, Luther M., and G. Long, to Aluminum Co. of America. Process for concentrating gallium oxide. 2,962,370, 11-29-60, Cl. 75—1.
- Foster Metal Products Inc.: *See*—  
Boots, William C., 2,953,833.
- Foster, Mitchell E., to Packing Material Co., Inc. Pallet container. 2,965,276, 12-20-60, Cl. 229—23.
- Foster, Paul L. Holder for spectacles. 2,958,495, 11-1-60, Cl. 248—176.
- Foster, Raymond O.: *See*—  
Rosner, Lawrence, and Foster. 2,930,695.
- Foster Refrigerator Corp.: *See*—  
Dickinson, Jack R., and Bush. 2,938,363.  
Dickinson, Jack R., and Bush. 2,940,632.
- Foster, Robert E.: *See*—  
Arnold, Herrick R., and Foster. 2,943,066.
- Foster, Seymour R., to E. I. du Pont de Nemours and Co. Spray application of foamable polyurethane materials. 2,955,058, 10-4-60, Cl. 117—104.
- Foster, Theodore, to American Steel Foundries. Spherical turning device. 2,942,509, 6-28-60, Cl. 82—11.
- Foster, Theodore, and W. T. Hake, to American Steel Foundries. Feed box transmission. 2,947,189, 8-2-60, Cl. 74—342.
- Foster, Thomas W., and F. W. Hackman, to Container Corp. of America. Band type can carrier. 2,963,198, 12-6-60, Cl. 220—112.
- Foster, Vincent F., to Inductosyn Corp. Wiring for slider of position measuring transformer. 2,924,798, 2-9-60, Cl. 336—115.
- Foster, Walter E.: *See*—  
Ashby, Eugene C., Foster, Mangham, and Pearson. 2,961,443.  
Frank, Charles E., and Foster. 2,960,533.
- Foster, Walter W. Vertical load suspension and adjusting mechanism. 2,930,582, 3-29-60, Cl. 254—93.
- Foster Wheeler Corp.: *See*—  
Artsay, Nicholas C., 2,959,014.  
Bell, Alan, 2,937,520.  
Bell, Alan, 2,956,433.  
Bell, Alan, 2,956,553.  
Bliss, Charles, and Wagner. 2,951,685.  
Blizard, John. 2,946,323.  
Faatz, Albert C., Jr., Loporoto, and Wong. 2,937,077.  
Frisch, Martin, Cartinhou, Tinbergen, Stern, and Tidd. 2,944,532.  
West, John M. 2,946,570.  
West, John M. 2,959,322.  
Zoschak, Robert J., and Ray. 2,946,187.
- Foster Wheeler Ltd.: *See*—  
Wood, Leo K. D. 2,921,004.
- Foster, William B. Plastic film bag and method of filling the same. 2,966,414, 12-27-60, Cl. 99—174.
- Foster, William C. Traversing apparatus. 2,959,138, 11-8-60, Cl. 104—151.
- Foster, William H., W. F. Tackett, and A. I. Morrison, to Electronic Engineering Co. of California. Modulatable transistor oscillator. 2,962,670, 11-29-60, Cl. 332—23.
- Foster, William J., to General Motors Corp. Mechanical control device. 2,924,122, 2-9-60, Cl. 74—674.
- Foster, William J., to General Motors Corp. Servo control mechanism. 2,932,987, 4-19-60, Cl. 74—674.
- Foster, William P., to James G. Biddle Co. Method and apparatus for measuring apparent corona charge. 2,948,849, 8-9-60, Cl. 324—54.
- Fostey, James W.: *See*—  
Boyer, Watson F., and Fostey. 2,943,616.
- Fostoria Corp.: *See*—  
Carter, Richard H. 2,957,157.  
Carter, Richard H. 2,958,296.  
White, Howard T. 2,956,188.  
White, Howard T. 2,963,980.
- Foth, Emery J. Jack for building material panels. 2,964,293, 12-13-60, Cl. 254—4.
- Fotheringham, Douglas. Aircraft towing device. 2,944,837, 7-12-60, Cl. 280—503.
- Foti, Eva. Automobile headlamp. 2,963,613, 12-6-60, Cl. 313—117.
- Fotis, Peter, Jr., D. L. Esmay, and P. Hill, to Standard Oil Co. Process for the polymerization of ethylene, catalytic composition therefor, and process of preparation thereof. 2,924,592, 2-9-60, Cl. 260—94.9.
- Fotland, Richard A., to Horizons Inc. Ultrasonic inspection device. 2,919,574, 1-5-60, Cl. 73—67.6.
- Fotland, Richard A., to Horizons Inc. Radiation detection. 2,966,612, 12-27-60, Cl. 315—10.
- Fotsch, Laverne P.: *See*—  
Ziegler, George E., and Fotsch. 2,923,659.
- Fouassin, Marcel L., to Ateliers de Constructions Electriques de Charleroi. Electric remote controlled positioning system. 2,929,007, 3-15-60, Cl. 318—30.
- Foulkes, Arthur J. Paint brush. 2,938,224, 5-31-60, Cl. 15—246.
- Foulkes, Margaret M. Sofa. 2,966,203, 12-27-60, Cl. 155—112.
- Foulks, Robert B., to Kaiser Aluminum & Chemical Corp. Cylinder registering mechanism. 2,957,409, 10-25-60, Cl. 101—23.
- Fouletier, Louis: *See*—  
Sanlaville, Joseph, and Fouletier. 2,920,941.
- Foundry Equipment Co.: *See*—  
Barnett, Charles H., and Bevil. 2,926,008.  
Barnett, Charles H., and Teagle. 2,926,897.  
Teagle, Richard E. 2,937,860.
- Foundry Equipment Ltd.: *See*—  
Beech, Austin S. 2,944,308.
- Foundry Services International Ltd.: *See*—  
Cherry, George J. N., and Thomas. 2,944,307.  
Emmott, Joseph G. 2,956,873.  
Kondic, Voya, and Watson. 2,965,477.  
Morgan, Hugh M. 2,937,425.
- Foundry Services Ltd.: *See*—  
Edmonds, Robert C., and Keyworth. 2,925,637.
- Fountain, Henry: *See*—  
Martin, Devereaux, Fountain, and Thompson. 2,927,601.
- Fouquet, Eugene. Grinding machine with tool dressing means. 2,950,578, 8-30-60, Cl. 51—95.
- Foures, Andre. Endoscopic camera system. 2,949,071, 8-16-60, Cl. 95—11.
- Fourestier, Max, J. Vulmiere, H. Vulmiere (born Grangaud), and A. J. Gladu, to Centre National de la Recherche Scientifique. Lighting devices for endoscopes. 2,932,294, 4-12-60, Cl. 128—6.
- Fourmanoit, Robert, to Johns-Manville Corp. Machine for the continuous manufacture of asbestos-cement pipes. 2,929,447, 3-22-60, Cl. 162—284.
- Fourmanoit, Robert, to Eternit Societa per Azioni. Method for producing sockets on pipes. 2,962,408, 11-29-60, Cl. 154—116.
- Fournier, Damien. Water skis. 2,940,090, 6-14-60, Cl. 9—310.
- Fournier, Louis P., to International Paper Co. Core shaft remover for paper unwinding apparatus. 2,940,681, 6-14-60, Cl. 242—68.
- Fouse, Frederick Z., to Anchor Hocking Glass Corp. Container handling mechanism. 2,926,801, 3-1-60, Cl. 214—147.
- Fouse, Frederick Z., to Anchor Hocking Glass Corp. Article spacing mechanism. 2,942,720, 6-28-60, Cl. 198—34.
- Foust, Dwight. Leak tester for automobile tires. 2,949,767, 8-23-60, Cl. 73—45.6.
- Fowkes, Frederick M., and F. G. Bollo, to Shell Oil Co. Jet fuel compositions. 2,933,382, 4-19-60, Cl. 52—5.
- Fowle, George D., Jr., and H. A. Kraftson, to Leeds and Northrup Co. Flue gas sampling system. 2,930,237, 3-29-60, Cl. 73—421.5.
- Fowle, Irving H., to General Aniline & Film Corp. Color slide viewing accessory. 2,948,975, 8-16-60, Cl. 40—106.1.
- Fowle, Irving H., and F. J. Emminger, to General Aniline & Film Corp. Paperboard container. 2,930,516, 3-29-60, Cl. 229—7.
- Fowler, Albert K.: *See*—  
Kuecken, John A., and Fowler. 2,961,623.
- Fowler, Andrew H., and G. B. Seaborn, Jr., to United States of America, Atomic Energy Commission. Range increaser for pneumatic gauges. 2,953,918, 9-27-60, Cl. 73—37.5.
- Fowler, Benjamin T.: *See*—  
Hoare, Michael F., Fowler, and Krischal. 2,956,954.
- Fowler, Eileen H. Thimble. 2,953,286, 9-20-60, Cl. 223—101.
- Fowler, Frank E., and R. J. Minder. Cracker-sandwich filler mechanism. 2,941,698, 6-21-60, Cl. 222—216.
- Fowler, Franklin H., Jr., to Sperry Rand Corp. Serial coincidence detector. 2,921,190, 1-12-60, Cl. 250—27.



- Fowler, George W., D. G. Crosby, and W. R. Proops, to Union Carbide Corp. Preparation of 2,5-dimethylpiperazine. 2,920,076, 1-5-60, Cl. 260-268.
- Fowler, Harlan D. Slip stream deflector for convertible aircraft. 2,950,878, 8-30-60, Cl. 244-12.
- Fowler, Jesse C. Boom attachment for lift trucks for loading narrow-door boxcars. 2,941,683, 6-21-60, Cl. 214-620.
- Fowler, John L., to Fairey Aviation Ltd. Hydraulic flying control systems for aircraft. 2,956,408, 10-18-60, Cl. 60-97.
- Fowler, Kirk, M. A. Brown, and E. M. Deters, to Red Jacket Mfg. Co. System for detecting leaks in pipe lines and the like. 2,952,387, 9-13-60, Cl. 222-52.
- Fowler, Kirk, M. A. Brown, and E. M. Deters, to Red Jacket Mfg. Co. Leak detecting apparatus. 2,952,389, 9-13-60, Cl. 222-52.
- Fowler, Kirk, M. A. Brown, and E. M. Deters, to Red Jacket Mfg. Co. Leak detecting system. 2,952,390, 9-13-60, Cl. 222-63.
- Fowler, Lambuth G. Cotton stripping comb. 2,934,877, 5-3-60, Cl. 56-34.
- Fowler, Lambuth G. Cotton harvester elevator. 2,947,408, 8-2-60, Cl. 198-122.
- Fowler, Leslie L., to Inflico Inc. Magnetic clarifier drum. 2,959,288, 11-8-60, Cl. 210-222.
- Fowler, Robert M.: See—
- Wright, Sheldon G., and Fowler. 2,942,951.
- Fowler, William A., and P. W. Ingham; said Fowler assor. to said Ingham—Device for retrieving and storing and dispensing golf balls. 2,962,321, 11-29-60, Cl. 294-19.
- Fowler, William F., Jr.: See—
- Gerhardt, James S., and Fowler. 2,947,650.
- Laakso, Thomas M., and Fowler. 2,928,736.
- Fowle, Wallace R., to A. B. Dick Co. Repellent system for lithographic duplicators. 2,929,316, 3-22-60, Cl. 101-148.
- Fowle, Wallace R., to A. B. Dick Co. Resetting mechanism for numbering machines. 2,966,301, 12-27-60, Cl. 235-152.
- Fowle, Wallace R., J. L. Tregay, and E. H. DuBois, to A. B. Dick Co. Sheet feed mechanism for duplicators. 2,942,877, 6-28-60, Cl. 271-31.
- Fox, Alden E., H. M. Maxwell, and O. A. Tyler, 1/2 to The Crompton & Knowles Loom Works, and 1/2 to Fruehauf Trailer Co. Plaster panel with metal edges. 2,966,436, 12-27-60, Cl. 154-45.9.
- Fox, Arthur G., to Bell Telephone Laboratories, Inc. Non-reciprocal electromagnetic wave medium. 2,923,903, 2-2-60, Cl. 333-98.
- Fox, Arthur G., to Bell Telephone Laboratories, Inc. Phase shifter. 2,952,821, 9-13-60, Cl. 333-31.
- Fox, Benjamin. Electrical connector for printed circuit board. 2,935,725, 5-3-60, Cl. 339-184.
- Fox, Benjamin. Locking and aligning a plurality of detachable electrical connectors. 2,964,724, 12-13-60, Cl. 339-45.
- Fox, Benjamin, deceased (B. E. Fox, executrix), to B. E. Fox. Electronic apparatus and method for measuring distance. 2,966,676, 12-27-60, Cl. 343-14.
- Fox, Bessie E.: See—
- Fox, Benjamin. 2,966,676.
- Fox, Daniel W.: See—
- Precopio, Frank M., and Fox. 2,936,296.
- Fox, Daniel W., and A. F. Zavist, to General Electric Co. Polyester-polyisocyanate insulating materials. 2,935,487, 5-3-60, Cl. 260-45.4.
- Fox, David W., and R. M. Rivello, to United States of America Navy. Airborne evaporative cooling system. 2,922,291, 1-26-60, Cl. 62-171.
- Fox, Donald L. Electric shaver with vacuum collector. 2,950,530, 8-30-60, Cl. 30-41.5.
- Fox, Ervin F. Automatic machine for cutting hypodermic needles from steel tubes. 2,950,579, 8-30-60, Cl. 61-98.
- Fox, Francis E., Jr.: See—
- Fisher, Webster E., and Fox. 2,952,152.
- Fox, Gerald B.: See—
- Green, George W. A., Fox and New. 2,951,493.
- Fox, Gerald B., and C. F. Stoddard, to The Hobart Mfg. Co. Dishwasher. 2,947,311, 8-2-60, Cl. 134-58.
- Fox, Harold E.: See—
- Flynn, Loren T., and Fox. 2,932,988.
- Fox, Herman H., to Hoffmann-La Roche Inc. Isonicotinic acid, benzyl and p-methoxybenzyl hydrazides. 2,923,713, 2-2-60, Cl. 260-295.
- Fox, Homer M., to Phillips Petroleum Co. Composite rocket-ram jet fuel. 2,926,613, 3-1-60, Cl. 102-98.
- Fox, Homer M., to Phillips Petroleum Co. Means and method for starting rocket motors. 2,939,278, 6-7-60, Cl. 60-35.6.
- Fox, Homer M., to Phillips Petroleum Co. Aerodynamic braking of jet engine aircraft. 2,944,393, 7-12-60, Cl. 60-35.54.
- Fox, Homer M., to Phillips Petroleum Co. Fuel system for ducted rocket ram-jet power plants. 2,952,122, 9-13-60, Cl. 60-35.6.
- Fox, Homer M., to Phillips Petroleum Co. Process and apparatus for the improved combustion of liquid fuels. 2,960,823, 11-22-60, Cl. 60-39.06.
- Fox Howard Corp.: See—
- Fox, Richard E. 2,924,918.
- Fox, John E.: See—
- Reinhard, Raymond H., and Fox. 2,951,831.
- Fox, John J., to Westinghouse Electric Corp. Heating apparatus. 2,947,846, 8-2-60, Cl. 219-38.
- Fox, John J., to Westinghouse Electric Corp. Heating apparatus. 2,951,929, 9-6-60, Cl. 219-38.
- Fox, John L. Can and bottle opener. 2,925,237, 2-16-60, Cl. 248-293.
- Fox, Joseph H. Composite wood and concrete pile and connector for the same. 2,932,952, 4-19-60, Cl. 61-53.
- Fox, Lois J.: See—
- Magnuson, Roy M. 2,937,737.
- Magnuson, Roy M. 2,940,528.
- Magnuson, Roy M., and Smith. 2,936,012.
- Smith, Traver J., and Daugherty. 2,950,424.
- Fox, Martin, to The Seng Co. Sofa-bed. 2,939,156, 6-7-60, Cl. 5-37.
- Fox, Martin, to The Seng Co. Folding double bed frame with anti-sag device. 2,964,760, 12-20-60, Cl. 5-13.
- Fox, Martin, and C. O. Buher, to The Seng Co. Davenport bed. 2,960,699, 11-22-60, Cl. 5-13.
- Fox, Philip E.: See—
- Dickinson, Arthur H., and Fox. 2,933,251.
- Fox, Philip E., J. E. Bartelt, D. J. Crawford, and N. Rochester, to International Business Machines Corp. Electronic data processing machine. 2,950,465, 8-23-60, Cl. 340-173.
- Fox Products Co.: See—
- Godshalk, James B., and Medlar. 2,922,104.
- Fox, Richard D.: See—
- Skog, Henry A., and Fox. 2,946,361.
- Fox, Richard E., to Fox Howard Corp. Sharpener for cutting blades. 2,924,918, 2-16-60, Cl. 51-241.
- Fox River Tractor Co.: See—
- Saiberlich, Erwin W. 2,954,982.
- Fox, Robert B., to United States of America, Navy. Phosphorus containing polyurethanes. 2,948,690, 8-9-60, Cl. 260-2.2.
- Fox, Robert E., to W. R. Ames Co. Gate valve. 2,925,244, 2-16-60, Cl. 251-145.
- Fox, Robert M.: See—
- Flajole, Henry J., Jr., and Fox. 2,941,826.
- Fox, Robert P., to Clyde Iron Works, Inc. Cargo cranes. 2,933,197, 4-19-60, Cl. 212-58.
- Fox, Robert S., to General Electric Co. Instant start discharge lamp. 2,957,995, 10-25-60, Cl. 313-109.
- Fox, Samuel S., R. E. Hull, E. A. Odegaard, and C. W. Bristol, Jr., to United States of America, Navy. Gradual bleed control. 2,958,457, 11-1-60, Cl. 230-115.
- Fox, Sherm.: See—
- Gage, Ennals R. 1,975.
- Fox, Thomas M. Simulated stone product and method of forming same. 2,953,469, 9-20-60, Cl. 117-9.
- Fox, Wilbur E., and W. A. Los, to Sinclair Refining Co. Production of cold mixed asphaltic paving compositions. 2,939,800, 6-7-60, Cl. 106-280.
- Fox, William P., to Merriman Bros., Inc. Remote controlled movable light unit. 2,947,856, 8-2-60, Cl. 240-61.13.
- Fox, William P., to Merriman Bros., Inc. Fairlead. 2,956,780, 10-18-60, Cl. 254-190.
- Fox, William R., to General Motors Corp. Droop control for governor mechanism. 2,929,616, 3-22-60, Cl. 264-3.
- Foxboro Co., The: See—
- Bowditch, Hoel L. 2,930,231.
- Bowditch, Hoel L. 2,930,389.
- Bowditch, Hoel L. 2,938,151.
- Bowditch, Hoel L. 2,963,633.
- Cushman, Robert W. 2,956,167.
- Darling, Horace E. 2,963,639.
- Fuller, David H. 2,951,361.
- Fuller, David H. 2,964,938.
- Haraden, George A. 2,955,711.
- Olsen, Everett O. 2,956,234.
- Olsen, Everett O., and Bowditch. 2,956,212.
- Sturgeon, Stocker S. 2,929,247.
- Sturgeon, Stocker S. 2,949,551.
- Sturgeon, Stocker S. 2,957,710.
- Sweet, Stuart W., and Anderson. 2,951,745.
- Foy, James L., to Gilfillan Bros., Inc. Identification system. 2,935,744, 5-3-60, Cl. 343-11.
- Foy, William J.: See—
- Glueckstein, Henry J., Foy, and Stephan. 2,949,522.
- Foye, Allen B.: See—
- Alholm, Wayne L., Campbell, Foye, Lynn, and Shanklin. 2,964,246.
- Foye, Allen B., to W. R. Grace & Co. Twist-off closures. 2,920,778, 1-12-60, Cl. 215-40.
- Fracker, Benjamin C. Shovel-type hand tool for sifting light material. 2,960,230, 11-15-60, Cl. 209-419.
- Fradd, Ogle. Sliding and swinging hinge. 2,961,695, 11-29-60, Cl. 16-179.
- Fradenburgh, John, to United States Automatic Box Machinery Co., Inc. Slat conveyor for pill-counting apparatus. 2,920,743, 1-12-60, Cl. 198-54.
- Fraebel, Robert J., to The Garrett Corp. Impact absorption device. 2,958,487, 11-1-60, Cl. 244-138.
- Fraenkel, Stephen J., to Standard Railway Equipment Mfg. Co. Container car. 2,925,792, 2-23-60, Cl. 105-366.
- Fraesdorf, William O., Jr. Meat conditioning composition. 2,961,324, 11-22-60, Cl. 99-222.
- Fraga, John B., to Gadget-of-the-Month Club, Inc. Traffic counting cable. 2,953,760, 9-20-60, Cl. 338-36.
- Fraim, Clinton W.: See—
- Huntley, Frederick H., and Fraim. 2,944,598.
- Fraintner, Richard J., to Union Carbide Corp. Process and apparatus for separating gaseous mixtures by rectification. 2,940,269, 6-14-60, Cl. 62-11.



- Fram Corp.: *See*—  
Belgarde, Leo. 2,929,506.  
Dow, Leslie A., and Paton. 2,965,197.  
Fredrickson, Arthur R. 2,960,234.  
Paton, Joseph H., and Vander Pyl. 2,927,782.  
Rohr, Frank G. 2,933,191.
- Frame, Darold R.: *See*—  
La Pier, Rae T., and Frame. 2,928,438.
- Frame, Jesse S. Fisherman's tool. 2,961,670, 11-29-60, Cl. 7-5.5.
- Frame, John W.: *See*—  
Blickwede, Donald J., Frame, and Mayer. 2,956,906.
- Frampton, Vernon L.: *See*—  
King, William H., Frampton, and Altschul. 2,934,432.  
King, William H., and Frampton. 2,950,198.
- France, Earl W., to Redi-Knot, Inc. Neckties and holders. 2,931,045, 4-5-60, Cl. 2-153.
- France, George, to Welwyn Canada Ltd. Apparatus for the measurement of resistors. 2,949,577, 8-16-60, Cl. 324-62.
- France, Harold, A. Lambert, and T. J. Meyrick, to Imperial Chemical Industries Ltd. Polyisocyanate compositions. 2,950,307, 8-23-60, Cl. 260-453.
- France, Matthew W.: *See*—  
Wasserbach, Theodore B., and France. 2,952,969.
- Francesco Vismara Società per Azioni: *See*—  
Cavallini, Guido, and Massarani. 2,960,537.  
Ercoli, Alberto. 2,935,519.  
Justoni, Romeo, and Pessina. 2,945,046.  
Justoni, Romeo, and Pessina. 2,947,757.
- Franch, Charles J., to Sheridan Park Mfg. Co., Inc. Needle valve test instrument. 2,959,050, 11-8-60, Cl. 73-46.
- Franchett's Crullers, Inc.: *See*—  
Porambo, Francis E. 2,926,597.
- Franchi, Louis J.: *See*—  
Eisen, Theodore, Masel, and Franchi. 2,955,215.
- Francis, Alex W., Jr.: *See*—  
Glasgow, Clarence O., and Francis. 2,921,774.
- Francis, Carleton S., Jr., to American Viscose Corp. Fiber-mixing and fabricating apparatus. 2,953,187, 9-20-60, Cl. 154-29.
- Francis, Charles B., to Puriron and Chemicals, Inc. Treatment of ferrous sulfate and the production of iron powder. 2,927,016, 3-1-60, Cl. 75-5.
- Francis, Charles B., to Puriron and Chemicals, Inc. Production of new sulfuric acid from waste pickle liquor. 2,946,659, 7-26-60, Cl. 23-172.
- Francis, Charles E., to Shell Oil Co. Emulsion lubricant and hydraulic fluid. 2,961,404, 11-22-60, Cl. 252-33.3.
- Francis Earle Laboratories, Inc.: *See*—  
Suchow, Lawrence. 2,945,770.
- Francis, Eric W. R.: *See*—  
Haine, Michael E., Bloomer, and Francis. 2,957,619.
- Francis, Frederick G., and R. J. Moulton, to Caribonum Ltd. Duplicating machines. 2,934,007, 4-26-60, Cl. 101-131.
- Francis, Frederick G., and J. A. Seaward, to Caribonum Ltd. Transfer sheets for forming thermosensitive copies. 2,936,247, 5-10-60, Cl. 117-36.
- Francis, Frederick G., and R. J. Moulton, to Caribonum Ltd. Electrophotographic copying apparatus. 2,961,932, 11-29-60, Cl. 95-17.
- Francis, Gerald A., and A. A. Underwood, to M. Hill. Nomenclographic device for determining the length of coiled material. 2,926,843, 3-1-60, Cl. 235-61.
- Francis, Gerald A., H. C. Davis, and C. E. Smith, to Hurd Lock & Mfg. Co. Assembly apparatus. 2,944,333, 7-12-60, Cl. 29-211.
- Francis, Howard T., and F. H. Roebuck, to National Steel Corp. Process for treating metals and product. 2,964,432, 12-13-60, Cl. 148-6.2.
- Francis, Howard T., and F. H. Roebuck, to National Steel Corp. Process for inhibiting corrosion and product. 2,964,433, 12-13-60, Cl. 148-6.2.
- Francis, John A. Fishing rod with radio in handle. 2,927,995, 3-8-60, Cl. 250-14.
- Francis, John E.: *See*—  
Bell, Persa R., and Francis. 2,942,109.
- Francis, John G., Jr., to Thomas Steel Forms, Inc. Collapsible core form. 2,946,111, 7-26-60, Cl. 25-128.
- Francis, John P. Automobile windshield weather awning. 2,926,678, 3-1-60, Cl. 135-5.
- Francis, John P. Automobile windshield weather canopy. 2,926,679, 3-1-60, Cl. 135-7.1.
- Francis, Joseph E.: *See*—  
Stern, Melvin F., Smitley, and Francis. 2,956,558.
- Francis, Paul R.: *See*—  
Weisgerber, Charles F. 2,920,827.
- Francis, Philip L.: *See*—  
Steinhagan, William K., Francis, De Wilde, Popinski, and Hart. 2,932,286.
- Francis, Richard E.: *See*—  
Reckman, Albert C., Francis, and Barklage. 2,965,948.
- Francis, Stanley A., to Texaco Inc. Fuel-air ratio determination by infra-red analysis of exhaust gases. 2,957,076, 10-18-60, Cl. 250-43.5.
- Francis, Thomas A.: *See*—  
Rausch, Maurice K., and Francis. 2,943,990.
- Francis, Wallace R.: *See*—  
Debner, Sandy A., and Francis. 2,942,314.
- Francis, Wallace R., G. C. Mapelsden, and C. W. Feher, to General Electric Co. Receptacle for electrical connector. 2,947,966, 8-2-60, Cl. 339-188.
- Francis, William J. Anticorrosive shipbottom paint. 2,921,041, 1-12-60, Cl. 260-19.
- Francisco, Herbert H., H. G. Ressler, and G. W. Ward, to Bethlehem Steel Co. Electrodeposition of tin. 2,930,740, 3-29-60, Cl. 204-54.
- Francisco, Marshall E. Mirror mounting apparatus. 2,940-361, 6-14-60, Cl. 85-98.
- Francis, George, and H. Guggenheim, to General Foods Corp. Process for producing a concentrated coffee extract. 2,931,728, 4-5-60, Cl. 99-71.
- Francis, George E., to The Imperial Brass Mfg. Co. Tube plug. 2,923,323, 2-2-60, Cl. 138-89.
- Francis, George E., to The Imperial Brass Mfg. Co. Quick connect fitting. 2,926,700, 3-1-60, Cl. 138-89.
- Francis, George E., to The Imperial Brass Mfg. Co. Double flare tool on a shaft threaded in a sleeve threaded in a support and arranged for two speed advancement of said tool. 2,932,338, 4-12-60, Cl. 153-79.
- Francis, George E., to Imperial Brass Mfg. Co. Dehydrator. 2,934,209, 4-26-60, Cl. 210-266.
- Francis, George E., to The Imperial Brass Mfg. Co. Tube connector having torque resisting means. 2,934,362, 4-26-60, Cl. 285-341.
- Francis, George E., to The Imperial Brass Mfg. Co. Tube flaring tool. 2,936,810, 5-17-60, Cl. 153-81.
- Francis, Pierre, to Societe dite: "Alkan & Sinay." Rotary-cam switch control device. 2,939,924, 6-7-60, Cl. 200-38.
- Franci, Josef, and J. S. Logiudice, to Owens-Illinois Glass Co. Metallic decorating of glass. 2,962,383, 11-29-60, Cl. 117-37.
- Franco, George A., to General Dynamics Corp. Detectors. 2,937,273, 5-17-60, Cl. 250-27.
- Franco, Louis B.: *See*—  
Stein, Jack C., and Franco. 2,921,390.
- Francois, Marcel, to Hotchkiss-Brandt. Device for loading a letter or other document in a moving cup or other compartment. 2,940,580, 6-14-60, Cl. 198-26.
- Francois, Marcel, to Hotchkiss-Brandt. Selective actuating device for indexing and other operations. 2,942,477, 6-28-60, Cl. 74-1.
- Francolino, Giuseppe. Dental kit. 2,960,092, 11-15-60, Cl. 132-84.
- Francotay, Leonard G.: *See*—  
Braconier, Frederic F. A., and Francotay. 2,936,829.
- Frang, Walfred E. Venetian blind slat washer. 2,933,746, 4-26-60, Cl. 15-4.
- Frank, Albert R., to American Cyanamid Co. Method of improvement of calcium cyanamide. 2,964,395, 12-13-60, Cl. 71-64.
- Frank, Anton R., and W. H. Giles, to Van Buren Machine Corp. Article feeding mechanism. 2,931,487, 4-5-60, Cl. 198-232.
- Frank, Anton R., and W. H. Giles, to Van Buren Machine Corp. Article aligning and feeding mechanism. 2,948,394, 8-9-60, Cl. 209-97.
- Frank, Arne, to The Trane Co. Reciprocating compressor. 2,948,461, 8-9-60, Cl. 230-232.
- Frank, Ben E. Hanger bar supporting clip. 2,962,252, 11-29-60, Cl. 248-226.
- Frank, Carl A., and J. A. Lynch, said Lynch assor. to said Frank. Sealing mechanism for packaging machines. 2,923-115, 2-2-60, Cl. 53-180.
- Frank, Charles E.: *See*—  
Hansley, Virgil L., Frank, and Nobis. 2,966,526.  
Nobis, John F., Frank, and McFadyen. 2,954,388.  
Nobis, John F., Frank, and McFadyen. 2,954,389.
- Frank, Charles E., V. L. Hansley, and J. F. Nobis, to National Distillers and Chemical Corp. Metalation process. 2,954,410, 9-27-60, Cl. 260-665.
- Frank, Charles E., and J. R. Leebrick, to National Distillers and Chemical Corp. Preparation of hydrocarbons. 2,956-086, 10-11-60, Cl. 260-668.
- Frank, Charles E., and J. S. Swinehart, to National Distillers and Chemical Corp. Dimerization of vinyl aromatic compounds. 2,956,087, 10-11-60, Cl. 260-670.
- Frank, Charles E., and W. E. Foster, to National Distillers and Chemical Corp. Separation process for sebacic acid. 2,960,533, 11-15-60, Cl. 260-537.
- Frank, Edward J., to General Electric Co. Electric switch. 2,931,869, 4-5-60, Cl. 200-67.
- Frank, George E., and S. G. Measamer, to E. I. du Pont de Nemours and Co. Liquid mass and viscosity determination. 2,953,682, 9-20-60, Cl. 250-43.5.
- Frank, Gunter: *See*—  
Andres, Karlheinz, Wegler, and Frank. 2,921,037.
- Frank, Jacob. Method of molding a plastic article having a cellular body and a protective skin. 2,950,505, 8-30-60, Cl. 18-59.
- Frank, John P.: *See*—  
Gerbe, John F. 2,958,303.
- Frank, Kurt J., to English Electric Valve Co. Ltd. Methods of manufacturing thin films of refractory dielectric materials. 2,932,588, 4-12-60, Cl. 117-106.
- Frank, Mark H., to General Motors Corp. Engine cooling system. 2,936,745, 5-17-60, Cl. 123-41.29.
- Frank, Paul A., to Curtis Automotive Devices, Inc. Resonant pulse jet engine having an engine valve antechamber. 2,950,592, 8-30-60, Cl. 60-35.6.
- Frank, Reinhard P. Transmission for tractor power take-off shafts. 2,926,532, 3-1-60, Cl. 74-15.4.
- Frank, Richard J., to Gold Medal Folding Furniture Co. Folding chair. 2,962,085, 11-29-60, Cl. 155-140.
- Frank, Robert G., to United States of America, Air Force. Turbine bucket blades. 2,958,505, 11-1-60, Cl. 253-39.15.



- Frank, Robert L., to Sperry Rand Corp. Course plotter. 2,922,159, 1-19-60, Cl. 343-112.
- Frank, Robert L., to Sperry Rand Corp. Plural speed data receiver. 2,922,991, 1-26-60, Cl. 340-187.
- Frank, Robert L., to Sperry Rand Corp. Course plotter. 2,945,956, 7-19-60, Cl. 250-202.
- Frank, Robert L., to Sperry Rand Corp. Phase comparator circuits. 2,946,004, 7-19-60, Cl. 324-83.
- Frank, Robert L., to Sperry Rand Corp. Pulse synchronizing system. 2,946,019, 7-19-60, Cl. 331-18.
- Frank, Rudolf: *See*—
- Witzig, Emil, and Frank. 2,953,949.
- Frank, Walter N.: *See*—
- Beardslee, Mark L., Frank, and Stone. 2,955,327.
- Frank, Wilbert W.: *See*—
- Speer, Cleaver C., and Frank. 2,944,327.
- Frank, William A., to National Water Main Cleaning Co. Expandable pipe cleaner. 2,930,059, 3-29-60, Cl. 15-104.18.
- Frank, William H.: *See*—
- Platz, Elwood T., and Frank. 2,943,244.
- Platz, Elwood T., Messing, and Frank. 2,924,802.
- Frank, William H., and E. T. Platz, to I-T-E Circuit Breaker Co. Electric distribution system. 2,924,804, 2-9-60, Cl. 339-21.
- Franke, Claude E., to Braham Industries, Inc. Circuit breaker mechanism. 2,944,132, 7-5-60, Cl. 200-172.
- Franke, Edmund: *See*—
- Hullman, Julius F. 2,954,146.
- Franke, Edward L., Jr., to Western Electric Co., Inc. Apparatus for forming spring cords. 2,920,348, 1-12-60, Cl. 18-19.
- Franke, Franz, to Firma Hermann Pfauter. Worm gear. 2,959,977, 11-15-60, Cl. 74-458.
- Franke, Gerhard E., and O. Elwert, to Klockner-Humboldt-Deutz Aktiengesellschaft. Fuel injection internal combustion engine. 2,935,054, 5-3-60, Cl. 123-32.
- Franke, Harald, to F. X. Meiller. Vessel with individually dumpable containers for bulk material. 2,938,487, 5-31-60, Cl. 114-32.
- Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate: *See*—
- Albrecht, Hermann F. 2,926,577.
- Bethmann, Gustav. 2,926,574.
- Bethmann, Gustav. 2,937,587.
- Bretthauer, Hermann. 2,949,831.
- Bretthauer, Hermann, Mäde, and Kröger. 2,926,562.
- Bretthauer, Hermann, and Rander. 2,938,440.
- Faasch, Werner, and Schade. 2,963,950.
- Knauf, Wilhelm. 2,926,580.
- Rander, Karl, and Falkenburg. 2,937,568.
- Sommermeier, Friedrich. 2,937,586.
- Weiss, Richard. 2,926,424.
- Weiss, Richard. 2,926,572.
- Weiss, Richard. 2,926,573.
- Weiss, Richard. 2,949,073.
- Franke, Joachim I. Plane concentric field-effect transistors. 2,952,804, 9-13-60, Cl. 317-235.
- Franke, Norman W.: *See*—
- Brown, George P., Jr., Elder, and Franke. 2,960,520.
- Franke, Norman W., C. M. Selwitz, and A. C. Whitaker, to Gulf Research & Development Co. Oxidation process. 2,945,050, 7-12-60, Cl. 260-413.
- Franke, Walter: *See*—
- Weber, Heinrich, Strache, Broich, Franke, and Kiepert. 2,935,501.
- Ziegenbein, Willi, Franke, and Striebeck. 2,937,201.
- Franked, Enver, to Aktiebolaget Anderssons Barkmaskin. Sealing device for sealing between cooperating machine elements rotatable relative each other. 2,945,706, 7-19-60, Cl. 285-96.
- Frankel, Adolf, to The English Electric Co. Ltd. Fixing of rotor blades of elastic fluid turbo machines. 2,921,770, 1-19-60, Cl. 253-77.
- Frankel, Adolf, to Richardson, Westgarth & Co., Ltd. Flash evaporator. 2,944,599, 7-12-60, Cl. 159-2.
- Frankel, Harry: *See*—
- Moskovitz, Milton A. 2,924,469.
- Moskovitz, Milton A. 2,934,365.
- Moskovitz, Milton A. 2,934,366.
- Moskovitz, Milton A. 2,936,188.
- Moskovitz, Milton A., and Collier. 2,953,401.
- Frankel, Milton B., to Aerojet-General Corp. Polynitroamine salts. 2,934,565, 4-26-60, Cl. 260-583.
- Frankel, Milton B., and K. Klager, to Aerojet-General Corp. Nitramine nitriles and preparation thereof. 2,933,518, 4-19-60, Cl. 260-465.5.
- Frankel, Milton B., and G. B. Linden, to Aerojet-General Corp. Nitrazalkylnitrates. 2,934,558, 4-26-60, Cl. 260-467.
- Frankel, Samuel R., H. C. Hunt, K. C. Haas, and C. M. Wenrich, to American Safety Table Co., Inc. Automatic needle positioning mechanism. 2,958,302, 11-1-60, Cl. 112-219.
- Frankel, Samuel R., H. C. Hunt, K. C. Haas, and C. M. Wenrich, to American Safety Table Co., Inc. Automatic needle positioning mechanism. 2,961,591, 11-22-60, Cl. 318-468.
- Frankel, Sidney: *See*—
- Labin, Emile, and Frankel. 2,958,767.
- Franken, Wilhelm: *See*—
- Schwank, Gunther. 2,952,308.
- Frankenburg, Peter E., and A. H. Frazer, to E. I. du Pont de Nemours and Co. Elastomers derived from hydrazine. 2,957,852, 10-25-60, Cl. 260-57.
- Frankenburg, Walter G., and P. H. Waltz, to General Cigar Co., Inc. Manufacture of tobacco smoking products. 2,953,601, 10-11-60, Cl. 131-133.
- Frankenfield, Andrew D. Paper doll cut-outs. 2,942,271, 6-28-60, Cl. 2-74.
- Frankenfield, Bruce E., to Western Electric Co., Inc. Jogging apparatus for wire working machines. 2,928,527, 3-15-60, Cl. 205-16.
- Frankenfield, Bruce E., to Western Electric Co., Inc. Variable time interval system. 2,941,126, 6-14-60, Cl. 317-142.
- Frankenfield, Bruce E., and A. Wennerberg, to Western Electric Co., Inc. Multi-spindle automatic drilling machine. 2,956,453, 10-18-60, Cl. 77-21.
- Frankenhoff, Charles A. Recovery of diatomaceous earth. 2,946,755, 7-26-60, Cl. 252-416.
- Frankenstein, Edgar L., to Herman Pneumatic Machine Co. Foundry mold forming. 2,959,828, 11-15-60, Cl. 22-45.
- Frankenstein, William P. Carton. 2,924,371, 2-9-60, Cl. 229-31.
- Frankenstein, William P. Carton. 2,925,211, 2-16-60, Cl. 229-34.
- Frankenstein, William P. Carton. 2,948,455, 8-9-60, Cl. 229-36.
- Frankenstein, William P. Cartons. 2,949,219, 8-16-60, Cl. 229-31.
- Frankenthal, Robert P., to United States Steel Corp. Electrolytic cell. 2,960,455, 11-15-60, Cl. 204-195.
- Frankfort, Jacob H., to Associated Nucleonics, Inc. Atomic explosion shelter. 2,955,549, 10-11-60, Cl. 109-1.
- Franklin, Arthur W., and J. B. Barber, to The International Nickel Co., Inc. Titanium-hardened nickel-cobalt-iron alloys. 2,941,882, 6-21-60, Cl. 75-123.
- Franklin, Edmond G.: *See*—
- Blixrud, John O., Johnson, and Franklin. 2,950,668.
- Franklin, Ernest, to United Kingdom Atomic Energy Authority. Indicating systems for ring scaling circuits. 2,966,665, 12-27-60, Cl. 340-174.
- Franklin, Henry A.: *See*—
- Ryser, Leo W., White, Brown, and Franklin. 2,920,455.
- Franklin Institute, The: *See*—
- Coleman, Robert P., and Stubbs. 2,962,243.
- Loeb, Alfred M. 2,938,756.
- Franklin, John J.: *See*—
- Slater, Howard W., and Franklin. 2,928,512.
- Franklin, John N.: *See*—
- Underhay, George F., Franklin, and Wells. 2,919,495.
- Franklin, Leon H. Unit for receiving disposed cigarettes, cigars, papers and the like. 2,928,568, 3-15-60, Cl. 220-17.
- Franklin, Leroy H.: *See*—
- Keeler, Ralph P., and Franklin. 2,958,061.
- Franklin Mfg. Co.: *See*—
- Dawkins, Kenneth. 2,951,199.
- Dawkins, Kenneth, and James. 2,924,817.
- Franklin, Maurice, Mfg. Co.: *See*—
- Prager, Maurice. 2,930,309.
- Franklin, Philip J.: *See*—
- Davies, Edith M., and Franklin. 2,937,410.
- Franklin Research Corp.: *See*—
- Davis, Benjamin H., and Laplant. 2,930,537.
- Dunbar, Alver, Hausmann, and Johnson. 2,934,885.
- Dunbar, Alver, Hausmann, and Johnson. 2,935,416.
- Nelson, Alden W. 2,932,462.
- Franklin, Richard E.: *See*—
- McWilliams, James B., and Franklin. 2,925,048.
- Franks, David C.: *See*—
- Hildebrand, George, and Franks. 2,924,406.
- Franks, Edward E., Jr., to The Torrington Mfg. Co. Length measuring and cutting means for spring coiling machine provided with two selectively useable drive mechanisms for the feed rolls. 2,923,343, 2-2-60, Cl. 153-65.
- Franks, Edward E., Jr., to The Torrington Mfg. Co. Spring coiling machine with means permitting removal of terminal portion of wire. 2,925,115, 2-16-60, Cl. 153-65.
- Franks, Ernest M., 20% to T. T. Files, and D. W. McMurchie, d.b.a. Files & McMurchie. Microscope with catoptric elements. 2,930,287, 3-29-60, Cl. 88-39.
- Franks, Norvin H., to Union Asbestos & Rubber Co. Pallet stacker. 2,932,477, 4-12-60, Cl. 248-120.
- Franks, Stanley K.: *See*—
- Ward, Wendell B., and Franks. 2,933,998.
- Ward, Wendell B., and Franks. 2,933,999.
- Franks, William M., to Nonco Chemical Co. Wire drawing lubricant containing a diamide, hydrated lime and a normal calcium soap. 2,956,017, 10-11-60, Cl. 252-18.
- Frant, Martin S.: *See*—
- Cohen, Sylvan I., Frant, and Sowa. 2,938,814.
- Cohen, Sylvan I., Frant, and Sowa. 2,965,912.
- Frantti, Edsel W., R. S. Lackey, and J. D. Meess, to Westinghouse Electric Corp. Thermoelectric heating and cooling. 2,959,925, 11-15-60, Cl. 62-3.
- Frantz, Frederick H., to General Aniline & Film Corp. Dyeotype printing and developing apparatus. 2,921,513, 1-19-60, Cl. 95-77.5.
- Frantz, Frederick H., to General Aniline & Film Corp. Altitude control servosystem for automatic pilot controlled device. 2,963,635, 12-6-60, Cl. 318-481.



- Frantz, Nicholas: *See*—  
Gloviak, Stanley, and Frantz. 2,942,074.
- Frantz, Nicholas, and S. Gloviak, to Carter Parts Co. Push button switch. 2,951,926, 9-6-60, Cl. 200—159.
- Frantz, Verne L., to Johnson & Johnson. Pressure sensitive adhesive composition and tape coated therewith. 2,947,710, 8-2-60, Cl. 260—5.
- Frantz, Virgil L. Shell molding process and means. 2,940,140, 6-14-60, Cl. 22—20.
- Frantz, Virgil L., to Graham-White Sales Corp. Control valve. 2,940,465, 6-14-60, Cl. 137—271.
- Frantz, Virgil L., to Graham-White Sales Corp. Bracketed valve. 2,965,135, 12-20-60, Cl. 137—625.27.
- Frantz, Wilbert P.: *See*—  
Durbin, Edward, and Frantz. 2,932,022.
- Frank, Cornelius, to North American Philips Co., Inc. Piezo-electric quartz crystal of elongated shape. 2,925,502, 2-16-60, Cl. 310—9.5.
- Franz, Earl E., and E. E. Franz, Jr. Clip for bathroom fixtures. 2,946,157, 7-26-60, Cl. 50—22.
- Franz, Earl E., Jr.: *See*—  
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- Franz, Henry H. Extendible conveyor. 2,961,088, 11-22-60, Cl. 198—66.
- Franz, Henry H., and L. D. Pierce, to Sealright-Oswego Falls Corp. Cap applying apparatus. 2,947,128, 8-2-60, Cl. 53—310.
- Franz, Henry W.: *See*—  
Pick, Hans H., Brandt, and Franz. 2,925,940.
- Franz, John E., and M. W. Farrar, to Monsanto Chemical Co. Addition of chloroxyloxyacetic acid to alkenes in the presence of boron trifluoride. 2,960,531, 11-15-60, Cl. 260—473.
- Fränz, Kurt, to Telefunken G.m.b.H. Pulse counting system. 2,957,136, 10-18-60, Cl. 324—78.
- Franz, Raymond A.: *See*—  
Applegath, Fred, and Franz. 2,966,516.
- Franz, Wilhelm K.G.: *See*—  
Kuhl, Walter K. 2,923,369.
- Franz, William J., to Western Electric Co., Inc. High-voltage testing apparatus. 2,922,084, 1-19-60, Cl. 317—135.
- Franzel, Richard M., to Minneapolis-Honeywell Regulator Co. Liquid level measuring capacitor. 2,945,165, 7-12-60, Cl. 317—246.
- Franzen, Frederick L., and M. S. Gaspardo. Stump destroyer. 2,927,613, 3-8-60, Cl. 144—2.
- Franzen, Henry C. Root saving cultivator. 2,924,286, 2-9-60, Cl. 172—194.
- Franzi, Riccardo, to Fiat Societa per Azioni. Wheel cylinder for hydraulic brakes. 2,920,453, 1-12-60, Cl. 60—54.6.
- Franzreb, John K. Shielded valve. 2,931,618, 4-5-60, Cl. 251—88.
- Franzus, Boris: *See*—  
Pritchard, James E., and Franzus. 2,939,886.
- Frasch, Jean: *See*—  
Freud, Herbert M., dit Jean Frasc. 2,952,580.
- Fraser, Donald W., and W. B. Warren, Jr., to Georgia Tech Research Institute, Georgia Institute of Technology. Synchronized oscillator with electron-coupled reference timing source. 2,953,049, 10-25-60, Cl. 331—55.
- Fraser, Edith F. Cutting board construction. 2,942,922, 6-28-60, Cl. 311—106.
- Fraser, Hugh, and W. G. Cantlay. Automatically releasing cable suspension clamp. 2,931,606, 4-5-60, Cl. 248—64.
- Fraser, Hugh D., and M. C. Ungert, to Westinghouse Electric Corp. Arc tube mount. 2,951,959, 9-6-60, Cl. 313—25.
- Fraser, James, to The Speakman Co. Vacuum breaker. 2,938,532, 5-31-60, Cl. 137—218.
- Fraser, James, and E. S. McLean, to Speakman Co. Flow control device. 2,939,487, 6-7-60, Cl. 138—45.
- Fraser, James, to Speakman Co. Flow control unit. 2,948,300, 8-9-60, Cl. 138—45.
- Fraser, James, to The Speakman Co. Automatic shower head. 2,948,477, 8-9-60, Cl. 239—109.
- Fraser, Kenneth G.: *See*—  
Stillwagon, George B., Jr. 2,953,047.
- Fraser, Reginald P. Fuel combustion apparatus. 2,923,348, 2-2-60, Cl. 158—4.
- Fraser, Reginald P. Fuel combustion apparatus and the production of controlled gaseous effluents therefrom. 2,927,632, 3-8-60, Cl. 158—4.
- Fraser, Robert W., to United-Carr Fastener Corp. Lamp socket. 2,925,488, 2-16-60, Cl. 240—52.1.
- Fraser, Robert W., and V. R. Herterick, to United-Carr Fastener Corp. Electrical apparatus. 2,936,437, 5-10-60, Cl. 339—17.
- Fraser, Robert W., and V. R. Herterick, to United-Carr Fastener Corp. Electrical socket assembly. 2,941,181, 6-14-60, Cl. 339—119.
- Fraser, W. J., & Co. Ltd.: *See*—  
Etheridge, Geoffrey. 2,953,110.
- Frasure, James W. Artificial fishing bait. 2,933,847, 4-26-60, Cl. 43—42.74.
- Frate, Domenico C., to Western Electric Co., Inc. Strand distributing apparatus. 2,919,868, 1-5-60, Cl. 242—158.3.
- Frater, George G. and M. A., to G. B. Lewis Co. Stackable and nestable container. 2,939,607, 6-7-60, Cl. 220—97.
- Frater, Milton A.: *See*—  
Frater, George G. and M. A. 2,939,607.
- Fraula, William S., and W. J. Olson, to American Brake Shoe Co. Molding presses. 2,943,353, 7-5-60, Cl. 18—17.
- Fraula, William S., and H. M. King, to American Brake Shoe Co. Presses for thermosetting compositions. 2,946,091, 7-26-60, Cl. 18—17.
- Frauwirth, Sidney, to Normandie Bedspread Co. Satin terry weave fabric. 2,932,327, 4-12-60, Cl. 139—396.
- Frazer, August H.: *See*—  
Frankenburg, Peter E., and Frazer. 2,957,852.
- Frazer, August H., and J. C. Shivers, Jr., to E. I. du Pont de Nemours and Co. Elastic copolyureas from secondary diamines and process for making the same. 2,929,803, 3-22-60, Cl. 260—77.5.
- Frazer, Joseph H.: *See*—  
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- Frazier, David, to The Standard Oil Co. System for measuring mass flow rate by radiation. 2,953,681, 9-20-60, Cl. 250—43.5.
- Frazier, Henry D., to Standard Coil Products Co., Inc. Temperature compensating resistor. 2,921,036, 1-12-60, Cl. 252—506.
- Frazier, Richard E.: *See*—  
Durst, Kenneth R., and Frazier. 2,924,301.
- Frazza, Everett J., and L. Rapoport. O,O-dialkyl- $\beta$ -cyano-vinyl phosphonates. 2,920,097, 1-5-60, Cl. 260—461.
- Frebel, Kurt, to Carl Schenck Maschinenfabrik G.m.b.H. Method of and apparatus for feeding liquid to flowing material. 2,925,197, 2-16-60, Cl. 222—1.
- Freche, John C., to United States of America, Navy. Liquid-spray cooling method. 2,956,772, 10-18-60, Cl. 253—39.1.
- Frechette, Jean P. Ironing board. 2,963,804, 12-13-60, Cl. 38—127.
- Frechette, Leo P., Jr., to Royal McBee Corp. Keyboard lock mechanism. 2,945,577, 7-19-60, Cl. 197—17.
- Freecourt, Albert H., to Louis S. Poursin. Safety device for apparatus using fuel gases. 2,950,755, 8-30-60, Cl. 158—136.
- Fred, Walter, to Norton Co. Work positioning mechanism for machine tools. 2,955,391, 10-11-60, Cl. 51—165.
- Fredd, John V.: *See*—  
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- Fredd, John V., to Otis Engineering Corp. Surface caliper. 2,920,896, 1-12-60, Cl. 33—178.
- Fredd, John V., to Otis Engineering Corp. Well devices. 2,920,704, 1-12-60, Cl. 166—125.
- Fredd, John V., to Otis Engineering Corp. Removable stop for well tools. 2,940,525, 6-14-60, Cl. 166—219.
- Fredd, John V., to Otis Engineering Corp. Stop for well tubing. 2,948,339, 8-9-60, Cl. 166—215.
- Fredd, John V., to Otis Engineering Corp. Offset circulating nipple and tools. 2,948,341, 8-9-60, Cl. 166—218.
- Fredendall, Gordon L., to Radio Corp. of America. Color television. 2,933,554, 4-19-60, Cl. 178—5.4.
- Fredendall, Gordon L., to Radio Corp. of America. Variable delay line. 2,951,206, 8-30-60, Cl. 328—177.
- Frederick, Albert F., and R. J. Rabel, to The Cincinnati Milling Machine Co. Indexing mechanism. 2,949,796, 8-23-60, Cl. 74—823.
- Frederick, Alton K. Counting device. 2,961,158, 11-22-60, Cl. 235—92.
- Frederick, Edward R.: *See*—  
Malmberg, Paul R., and Frederick. 2,941,575.
- Frederick, James E.: *See*—  
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- Frederick, Leonard L., to McKiernan-Terry Corp. Pile drive cap. 2,931,186, 4-5-60, Cl. 61—77.
- Frederick, Leonard L., to McKiernan-Terry Corp. Readily applicable, shock proof end fitting for heavy duty flexible tubing. 2,935,339, 5-3-60, Cl. 285—4.
- Frederick, Stanley H., to Bell & Gossett Co. Universal centrifugal pump. 2,945,448, 7-19-60, Cl. 103—113.
- Fredricks, Zygmont S., to The Cyril Bath Co. Stretch forming machine with tension control. 2,924,261, 2-9-60, Cl. 153—40.
- Frederico, Blossy D.: *See*—  
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- Frederik, Willem S. Instrument for measuring the static coefficient of friction of a surface. 2,955,453, 10-11-60, Cl. 73—9.
- Fredriksen, Robert O. Demand delivery watering device for domestic house animals. 2,939,424, 6-7-60, Cl. 119—72.5.
- Fredette, Joseph H.: *See*—  
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- Fredette, Raymond O., and J. L. Musil, to Cook Electric Co. Aerial missile. 2,922,365, 1-26-60, Cl. 102—50.
- Fredhold, Allan B., Jr., to Aeroquip Corp. Shock absorbent fitting. 2,966,200, 12-27-60, Cl. 155—9.
- Fredhold, Allan B., Jr., and R. Hoffmann, to Aeroquip Corp. Hook mounting. 2,962,322, 11-29-60, Cl. 294—82.
- Frediani, James F.: *See*—  
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- Fredrick, Russell E., R. W. Fritts, and C. R. Manser, to Minnesota Mining and Mfg. Co. Semiconductor elements. 2,956,023, 10-11-60, Cl. 252—62.3.
- Fredrickson, Arthur R., to Fram Corp. Water separator cartridges. 2,960,234, 11-15-60, Cl. 210—457.
- Fredrickson, Einar H.: *See*—  
Yarrick, Charles J., and Fredrickson. 2,961,068.
- Fredrickson, Gustav O.: *See*—  
Snowdon, Arthur E., and Fredrickson. 2,931,929.
- Fredrickson, Gustav O., to The Superior Electric Co. Winding and core therefor. 2,947,960, 8-2-60, Cl. 336—212.
- Fredriksen, Clara J. P. M.: *See*—  
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- Fredriksson, John L., to Norton Co. Process of making recrystallized silicon carbide articles. 2,964,823, 12-26-60, Cl. 25-156.
- Fredriksson, Oke A.: See—  
Klein, Walter W., Jr., Grannemann, and Fredriksson. 2,952,812.
- Fredriksson, Tord, to Allmanna Svenska Elektriska Aktiebolaget. Electric stirring winding. 2,960,556, 11-15-60, Cl. 13-26.
- Freeberg, Lois R. Kit structure. 2,954,898, 10-4-60, Cl. 220-102.
- Freeburg, Walter S., to Allen-Bradley Co. Electrical circuit component and method of producing same en masse. 2,953,840, 9-27-60, Cl. 29-2542.
- Freeburg, Walter S., to Allen-Bradley Co. Electrical circuit component and method of producing same en masse. 2,954,117, 9-27-60, Cl. 206-56.
- Freed, Jacob B., to The Duriron Co., Inc. Lined valve. 2,951,214, 11-22-60, Cl. 251-314.
- Freed, Jacob B., and R. F. Sharpe, to The Duriron Co., Inc. Pump rotary seal assembly and method of assembling and servicing same. 2,945,709, 7-19-60, Cl. 286-7.
- Freed, Jacob B., and R. F. Sharpe, to The Duriron Co., Inc. Pumps. 2,945,710, 7-19-60, Cl. 286-8.
- Freed, Meier E.: See—  
Seifter, Joseph, Hanslick, and Freed. 2,945,041.
- Freed, Meier E., to American Home Products Corp. Fatty acid amide derivatives. 2,952,666, 4-12-60, Cl. 260-559.
- Freeding, John W., G. M. Hincz, and H. J. Varhanik, to Boeing Airplane Co. Aircraft engine installation. 2,944,766, 7-12-60, Cl. 244-54.
- Freeman Aircraft Engineering Corp.: See—  
Freeman, Gordon L. 2,928,553.
- Shapiro, Seymour L., and Freedman. 2,921,074.
- Shapiro, Seymour L., and Freedman. 2,921,091.
- Shapiro, Seymour L., and Freedman. 2,921,093.
- Shapiro, Seymour L., and Freedman. 2,921,094.
- Shapiro, Seymour L., and Freedman. 2,928,840.
- Shapiro, Seymour L., and Freedman. 2,928,872.
- Shapiro, Seymour L., and Freedman. 2,928,873.
- Shapiro, Seymour L., and Freedman. 2,928,874.
- Shapiro, Seymour L., Freedman, and Parrino. 2,926,165.
- Shapiro, Seymour L., Freedman, and Soloway. 2,921,075.
- Shapiro, Seymour L., Freedman, and Soloway. 2,928,834.
- Shapiro, Seymour L., Freedman, and Soloway. 2,928,845.
- Freeman, Arthur J., to Standard Oil Co. Cleaning oily hard surfaces. 2,952,571, 9-13-60, Cl. 134-22.
- Freeman, Bernard, to Monsanto Chemical Co. Shell molding compositions. 2,943,068, 6-28-60, Cl. 260-19.
- Freeman, George, to Raytheon Co. Electrode connections to semiconductive bodies. 2,948,836, 8-9-60, Cl. 317-235.
- Freeman, Gordon L., to Freeman Aircraft Engineering Corp. Adjustable divider for display racks. 2,928,553, 3-15-60, Cl. 211-137.
- Freeman, Larry A., and R. N. Rhodes, to Radio Corp. of America. Television receivers. 2,950,346, 8-23-60, Cl. 178-75.
- Freeman, Louis: See—  
Merritt, A. Jay, and Freedman. 2,952,674.
- Shapiro, Seymour L., and Freedman. 2,937,170.
- Shapiro, Seymour L., and Freedman. 2,937,173.
- Shapiro, Seymour L., and Freedman. 2,954,381.
- Shapiro, Seymour L., and Freedman. 2,954,395.
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- Shapiro, Seymour L., and Freedman. 2,961,377.
- Shapiro, Seymour L., Freedman, and Parrino. 2,937,172.
- Shapiro, Seymour L., Freedman, and Soloway. 2,937,179.
- Shapiro, Seymour L., Freedman, and Soloway. 2,954,373.
- Shapiro, Seymour L., Freedman, and Soloway. 2,954,380.
- Shapiro, Seymour L., Freedman, and Soloway. 2,958,697.
- Freeman, Louis H. Speed warning for linear speedometer. 2,964,741, 12-13-60, Cl. 340-263.
- Freeman, Louis, M. Blitz, D. B. Sabine, and E. Eigen, to U. S. Vitamin and Pharmaceutical Corp. Stable solutions containing vitamin B<sub>12</sub>. 2,939,821, 6-7-60, Cl. 167-81.
- Freeman, Nathan, and K. T. Larkin, to United States of America, Navy. System for compressing bandwidth. 2,939,918, 6-7-60, Cl. 179-1555.
- Freeman, Norman S., to Radio Corp. of America. Method of making stem assembly for ultrahigh frequency electron tubes. 2,941,279, 6-21-60, Cl. 29-15555.
- Freeman, Samuel, to Chemalloy-Electronics Corp. Multipurpose alloys of controlled homogeneity. 2,927,856, 3-8-60, Cl. 75-178.
- Fredson, Joseph, to Addressograph-Multigraph Corp. Printing device work holder. 2,944,649, 7-12-60, Cl. 197-6.6.
- Freeman, Arnold B., B. D. Raffel, and R. A. Tripp, to Good-year Aircraft Corp. Method of manufacturing fibrous material slab. 2,943,968, 7-5-60, Cl. 154-90.
- Freeman, Arnold B., B. D. Raffel, and R. A. Tripp, to Good-year Aircraft Corp. Method of making a dome-like body of plastic reinforced fibers. 2,958,621, 11-1-60, Cl. 154-110.
- Freeman, Arthur H., to General Electric Co. Electrical switch mechanism for toaster or the like. 2,954,451, 9-27-60, Cl. 200-164.
- Freeman, Claude C., to Container Corp. of America. Bottle carrier. 2,932,425, 4-12-60, Cl. 220-113.
- Freeman, David A.: See—  
Schultz, Roy M. 2,942,763.
- Schultz, Roy M. 2,948,441.
- Freeman, Dennis B.: See—  
Jenkins, Herbert A. H., Freeman, and King. 2,955,061.
- Freeman, Eben W., to S. D. Warren Co. Method of producing drum-finished coated paper. 2,950,989, 8-30-60, Cl. 117-64.
- Freeman, Horace, and J. D. Boadway, to Nichols Engineering and Research Corp. Apparatus for separating and deaerating pump suspension. 2,920,761, 1-12-60, Cl. 209-211.
- Freeman, Horace, and J. D. Boadway, to Nichols Engineering and Research Corp. Cleaning of paper pulp suspensions. 2,927,693, 3-8-60, Cl. 209-211.
- Freeman, Howard G., and O. R. Vaudreuil, to Jamesbury Corp. Ball valve. 2,945,666, 7-19-60, Cl. 251-172.
- Freeman, Leo, to Gruender Crusher and Pulverizer Co. Shredding machines. 2,954,937, 10-4-60, Cl. 241-186.
- Freeman, Marshall E., to International Business Machines Corp. Discrete positioning mechanism. 2,948,264, 8-9-60, Cl. 121-38.
- Freeman, Norris, to The Siegler Corp. Adjustable dado cutter. 2,925,108, 2-16-60, Cl. 144-239.
- Freeman, Peter F. M., and R. Ghosh, to Imperial Chemical Industries Ltd. Preparation of 2,2'-bipyridyl. 2,962,502, 11-29-60, Cl. 260-296.
- Freeman, Philip. Automatic web indexing and cut-off apparatus for plastic blister forming machine. 2,960,722, 11-22-60, Cl. 18-4.
- Freeman, Robert L., and H. A. Rahmel, to A. C. Nielsen Co. Monitoring systems for determining listening habits of wave signal receiver uses. 2,957,046, 10-18-60, Cl. 179-2.
- Freeman, Robert W., to Union Carbide Corp. Inoculants for cast iron. 2,955,933, 10-11-60, Cl. 75-123.
- Freeman, Roland A.: See—  
Scott, James G., Freeman, and Houston. 2,933,144.
- Freeman, Samuel. Hair curler. 2,924,225, 2-9-60, Cl. 132-34.
- Freeman, Stephen. Mouth washing device. 2,957,476, 10-25-60, Cl. 128-229.
- Freeman, Walter R. Starting circuit. 2,930,901, 3-29-60, Cl. 290-38.
- Freeman, William P., Jr., to John E. Mitchell Co. Liquid petroleum gas vaporizer system. 2,922,289, 1-26-60, Cl. 62-22.
- Freeport Sulphur Co.: See—  
Axelrad, Bernard A. 2,947,690.
- Brogdon, Vas H., Jr. 2,937,624.
- Brogdon, Vas H., Jr., and Olsen. 2,941,868.
- Cain, Gordon A. 2,947,689.
- Lipps, Delbert A. 2,921,600.
- Matson, Raphael F. 2,933,370.
- Freer, John A., and G. G. Scarrott, to Ferranti, Ltd. Devices for high speed printing. 2,963,947, 12-13-60, Cl. 95-45.
- Freese, Royce G., and H. Wittcoff, to General Mills, Inc. Detergent compositions composed of alkylaryl sulfonates and N-alkyl  $\beta$ -aminopropionates. 2,929,788, 3-22-60, Cl. 252-137.
- Freeze, Harley E. Display device. 2,935,814, 5-10-60, Cl. 46-35.
- Freeze, William L., to Cocker Machine and Foundry Co. Slashers and the like. 2,963,767, 12-13-60, Cl. 28-28.
- Frehner, Leon. Landscape terrace construction and planter block therefor. 2,960,797, 11-22-60, Cl. 47-33.
- Frehe, Walter C., to The General Tire & Rubber Co. Sealing strip for closures. 2,952,053, 9-13-60, Cl. 20-69.
- Frei, Arthur J., to General Motors Corp. Freezing device power unit. 2,928,280, 3-15-60, Cl. 73-368.
- Frei, Max, to Schweizerische Industrie-Gesellschaft. Intercommunication passage for railway coaches. 2,925,049, 2-16-60, Cl. 105-8.
- Freiberger, James M., to Pittsburgh Plate Glass Co. Apparatus for supporting a glass sheet. 2,920,422, 1-12-60, Cl. 49-45.
- Freiberger, Herman, to Elwood Research Co., a division of Audiger, Inc. Method and apparatus for crimping filaments. 2,943,377, 7-5-60, Cl. 28-1.
- Freiberger, Herman, to The Elwood Research Co., a Division of Audiger, Inc. Apparatus for crimping synthetic filaments. 2,945,282, 7-19-60, Cl. 28-1.
- Freifelder, Morris, G. M. Illich, Jr., and R. M. Robinson, to Abbott Laboratories. Chemical process. 2,923,715, 2-2-60, Cl. 260-295.5.
- Freifelder, Morris, and I. W. Sangrelet, to Abbott Laboratories. Nicotinamide process. 2,932,648, 4-12-60, Cl. 260-295.5.
- Freimark, Leo, to Vibro Mfg. Co., Inc. Compressing tool with release means for the full stroke compelling mechanism. 2,959,993, 11-15-60, Cl. 81-15.
- Freimaier, Sam. Reed sounding unit. 2,938,301, 5-31-60, Cl. 46-117.
- Freimiller, Louis R.: See—  
McKeever, Charles H., and Freimiller. 2,952,703.
- Freise, William G.: See—  
Arnett, Leslie, and Freise. 2,935,010.
- Arnett, Leslie, and Freise. 2,949,137.
- Arnett, Leslie, and Freise. 2,953,171.
- Freismuth, John S., to American Radiator & Standard Sanitary Corp. Thermal valve for cooling system. 2,931,576, 4-5-60, Cl. 236-34.
- Freitag, Auguste M. A., to De Spa & Fils, Societe en Commandite par Actions. Arrangements for milling the bearing surfaces of card flats. 2,958,265, 11-1-60, Cl. 90-20.
- Freitag, Byron E., F. Burgraf, Jr., and O. M. Porter, to General Electric Co. Adjustable grille. 2,920,549, 1-12-60, Cl. 98-40.



- Frellsen, Carlton B., to Joy Mfg. Co. Hydraulic control and system for a movable vehicle. 2,964,022, 12-13-60, Cl. 121-46.5.
- Fremlee Development Corp.: *See*—  
Foster, Elmer C., F. O., and L. 2,944,271.
- Fremont, Robert S., to Halo Lighting Products, Inc. Lighting fixtures for recessed ceiling mounting. 2,935,602, 5-3-60, Cl. 240-78.
- French, Alfred G., Jr., to Houdaille Industries, Inc. Means for simultaneous fixed and variable displacement of fluid. 2,962,969, 12-6-60, Cl. 103-4.
- French, Damas. Harrow drag cart. 2,966,219, 12-27-60, Cl. 172-289.
- French, George F. Reading rate controller. 2,925,670, 2-23-60, Cl. 35-35.
- French, Glenn A. Tray mount. 2,942,920, 6-28-60, Cl. 311-21.
- French, Howard V.: *See*—  
Hahn, Richard H., and French. 2,942,622.
- French, James A. T., to Postmaster General, Her Majesty's. Decoding equipment. 2,960,682, 11-15-60, Cl. 340-166.
- French, John H.: *See*—  
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- French, John L., to Deere & Co. Bulldozer. 2,950,550, 8-30-60, Cl. 37-144.
- French, Michael J., to D. Napier, & Son Ltd. Cooled hollow turbine blades. 2,956,773, 10-18-60, Cl. 253-39.15.
- French Oil Mill Machinery Co., The: *See*—  
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- French, R. T., Co., The: *See*—  
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- French, Richard S.: *See*—  
Weiss, Alexander C. H., and French. 2,959,130.
- French, Robert L., and R. F. Casey, to Monroe Calculating Machine Co. Noise rejection circuit. 2,925,494, 2-16-60, Cl. 250-27.
- French, Robert W., to The Firestone Tire & Rubber Co. Tubeless tire and chafer therefor. 2,947,340, 8-2-60, Cl. 152-362.
- French, Webber C., Manufacturer: *See*—  
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- Frenchtown Porcelain Co.: *See*—  
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- Freneck, Harold. Anchor and davit. 2,932,273, 4-12-60, Cl. 114-210.
- Freneau, Philip, to Southwestern Engineering Co. Controlling gases in solution. 2,954,840, 10-4-60, Cl. 183-2.5.
- Frenkel, Josephine. Ticket holder. 2,948,072, 8-9-60, Cl. 40-10.
- Frentzel, Herman C.: *See*—  
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- Frenz, Daniel C. Wheelbarrow. 2,940,770, 6-14-60, Cl. 280-47.26.
- Frenzel, Alfion O., to Phillips Petroleum Co. Sample cell for radiation analyzer. 2,954,472, 9-27-60, Cl. 250-43.5.
- Frenzel, Wilbur G. Traveling hydraulic crane structure. 2,925,922, 2-23-60, Cl. 212-35.
- Fresard, Marcel: *See*—  
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- Fresard, Marcel, E. Fluckiger, and G. Prelat, to Mefina S.A. Control mechanism for the displacements of a machine part. 2,924,107, 2-9-60, Cl. 74-99.
- Frese, Albert C., Jr. Slip-proof sock lining for shoes. 2,959,875, 11-15-60, Cl. 36-71.
- Frese, Robert H., Jr.: *See*—  
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- Freter, Roy J. Work piece transporting mechanism for broaching machine. 2,955,516, 10-11-60, Cl. 90-56.
- Freud, Herbert M., dit Jean Frasch. Process for the modification of fibrous materials. 2,952,580, 9-13-60, Cl. 162-158.
- Freudenthaler, Hermine: *See*—  
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- Freund, Dean H.: *See*—  
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- Freund, Ernest H., and E. N. Danes, Jr., to National Dairy Products Corp. Method of improving the properties of meat and composition therefor. 2,957,770, 10-25-60, Cl. 99-107.
- Freund, Gustav, II, and J. J. Grabauskas, to Union Carbide Corp. Casings, method of, and apparatus for producing same. 2,949,371, 8-16-60, Cl. 99-176.
- Freund, Karl. Multiple exposure camera. 2,921,509, 1-19-60, Cl. 95-18.
- Freundlich, Albert, to Freundlich-Gomez Machinery Corp. Lampshades and apparatus for assembling the same. 2,948,198, 8-9-60, Cl. 93-1.
- Freundlich, Albert, to Freundlich-Gomez Machinery Corp. Machine for making helical binders and binding loose leaf books therewith. 2,961,012, 11-22-60, Cl. 140-92.3.
- Freundlich-Gomez Machinery Corp.: *See*—  
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Freundlich, Albert. 2,961,012.
- Freundt, Edmund J., to G. E. Freundt. Magnetic device. 2,934,619, 4-26-60, Cl. 200-87.
- Freundt, Gladys E.: *See*—  
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- Freure, Benjamin T., to Union Carbide Corp. Method for the purification of N,N-dimethyl-acetamide. 2,953,503, 9-20-60, Cl. 202-42.
- Frewer, William C., to T. J. Doran. Door closer. 2,937,397, 5-24-60, Cl. 16-51.
- Frey, Albert: *See*—  
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- Frey, Christoph, to Ciba Ltd. Dioxazine dyestuffs. 2,948,721, 8-9-60, Cl. 260-246.
- Frey, Cleon F., to Standard Coil Products Co., Inc. Manual control having rotatable and tiltable stepped cam for television tuner. 2,922,881, 1-26-60, Cl. 250-40.
- Frey, Cleon F., to Standard Coil Products Co., Inc. Convertible VHF television tuner. 2,955,198, 10-4-60, Cl. 250-20.
- Frey, Cleon F., and M. F. Melvin. Circuit breaker with safety reset. 2,943,787, 8-9-60, Cl. 200-116.
- Frey, Edward, S. J. Mollet III, E. J. Kies, and G. L. Huey, to The Massillon-Cleveland-Akron Sign Co. Horizontal banner mounting construction. 2,960,784, 11-22-60, Cl. 40-125.
- Frey, Edward J., to General Motors Corp. Laundry apparatus. 2,921,458, 1-19-60, Cl. 68-12.
- Frey, Edward J., to General Motors Corp. Vibration responsive mechanism for a domestic appliance. 2,941,390, 6-21-60, Cl. 68-24.
- Frey, Edward J., to General Motors Corp. Domestic appliance. 2,961,865, 11-29-60, Cl. 68-207.
- Frey, Edward J., and T. E. Davidson, to General Motors Corp. Laundry control system. 2,928,267, 3-15-60, Cl. 68-12.
- Frey, Edward J., and W. R. Guy, to American Motors Corp. Temperature indicating device. 2,939,320, 6-7-60, Cl. 73-378.3.
- Frey, Hugh B., Jr., and C. Goodman, to Schlumberger Well Surveying Corp. Method and apparatus for logging earth formations. 2,951,946, 9-6-60, Cl. 250-84.5.
- Frey, Jean-Marie: *See*—  
Jirou, Marcel, and Frey. 2,920,070.
- Frey, Louis E., to Duo-Bed Corp. Caster. 2,964,778, 12-20-60, Cl. 16-21.
- Frey, Otto: *See*—  
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- Frey, Robert J., Jr., and M. H. Roth, to Monsanto Chemical Co. Novel styrene latices. 2,961,420, 11-22-60, Cl. 260-27.
- Freyermuth, Harlan B.: *See*—  
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Normington, James B., Hort, and Freyermuth. 2,964,561.  
Williams, William W., and Freyermuth. 2,927,866.
- Freyermuth, Harlan B., and C. L. Lawsberg, to General Aniline & Film Corp. Preparation of phenylphenol dyeing assistant compositions. 2,926,987, 3-1-60, Cl. 8-93.
- Freyler, Adalbert. Frictional shock absorber. 2,940,552, 6-14-60, Cl. 188-129.
- Freytag, Donald R., to J. M. Lekmann Co., Inc. Knife blade holder ejector mechanism. 2,929,091, 3-22-60, Cl. 15-256.5.
- Freytag, Helmut: *See*—  
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- Frezieres, Grant E. Ladder construction. 2,966,229, 12-27-60, Cl. 182-219.
- Friberg, Arthur N.: *See*—  
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- Frick, Charles E., and C. G. Fellows, to Union Carbide Corp. Beam-chopper means for radiant energy beams. 2,922,045, 1-19-60, Cl. 250-43.5.
- Frick Co.: *See*—  
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Garland, Milton W. 2,952,391.
- Frick, John G., Jr., and R. L. Arceneaux, to United States of America, Agriculture. N-epoxypropyl phosphoramides and method of producing the same. 2,939,849, 6-7-60, Cl. 260-2.
- Frick, William H. Mobile carrier and dispenser in combination with a food service unit. 2,941,856, 6-21-60, Cl. 312-277.
- Fricke, Edwin A., Jr.: *See*—  
Hoffmann, Paul R., Kelchner, Moore, and Fricke. 2,949,846.
- Fricks, Richard E., to Alden Products Co. Method and apparatus for generating facsimile signals. 2,962,549, 11-29-60, Cl. 178-7.1.
- Friday, Charles H., 1/2 to J. M. Housley. Remote controlled rear view mirror. 2,928,318, 3-15-60, Cl. 88-93.
- Friden, Inc.: *See*—  
Chall, Harold J. 2,954,922.  
Chall, Harold J., and Malavazos. 2,935,253.  
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- Friden, John H., to American Can Co. Method of and apparatus for making plastic containers. 2,919,462, 1-3-60, Cl. 18—5.
- Friden, John H. Profiling tool. 2,933,800, 4-26-60, Cl. 29—76.
- Fridolph, Annette E. to Folding furniture. 2,965,159, 12-20-60, Cl. 155—153.
- Friedrich, Elmer G., and P. A. Dell, to General Electric Co. Electroluminescent lamp and manufacture thereof. 2,945,976, 7-19-60, Cl. 313—108.
- Frie, George: See—  
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- Frieborg, Nelson R., and O. F. Larsen, to The National Cash Register Co. Calculating machines. 2,923,394, 2-2-60, Cl. 197—66.
- Frieberg, John L. Side delivery hay rake. 2,944,377, 7-12-60, Cl. 56—376.
- Fried, Benjamin. Needle cylinder for sinker-type circular knitting machines. 2,945,368, 7-19-60, Cl. 66—115.
- Fried, Joh H.: See—  
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- Fried, Josef: See—  
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Thomas, Gordon H., and Fried. 2,963,496.
- Fried, Josef, to Olin Mathieson Chemical Corp. 11a-sulfonyloxy steroids of the pregnane series. 2,930,804, 3-29-60, Cl. 260—397.3.
- Fried, Josef, to Olin Mathieson Chemical Corp. 16a,17a-acetal and ketal derivatives of 16a,17a-dihydroxyprogesterone. 2,941,997, 6-21-60, Cl. 260—239.55.
- Fried, Josef, to Olin Mathieson Chemical Corp. 16a,17a-halo containing acetal and ketal derivatives of 16a,17a-dihydroxyprogesterone. 2,941,998, 6-21-60, Cl. 260—239.55.
- Fried, Josef, to Olin Mathieson Chemical Corp. Process of cleaving 9,11 oxido steroids with alcohols and organic acids. 2,949,478, 8-16-60, Cl. 260—397.45.
- Fried, Josef, to Olin Mathieson Chemical Corp. 12a-halo- $\Delta^9(1)$ -pregnenes. 2,952,691, 9-13-60, Cl. 260—397.3.
- Fried, Josef, to Olin Mathieson Chemical Corp. 12a halo steroids of the androstane series. 2,953,583, 9-20-60, Cl. 260—397.3.
- Fried, Josef, to Olin Mathieson Chemical Corp. 4-hydroxyprogesterone and intermediate therefor. 2,959,584, 11-8-60, Cl. 260—239.5.
- Fried, Josef, and J. E. Herz, to Olin Mathieson Chemical Corp. 21-nitrones of 9-halo-pregnenes. 2,920,084, 1-5-60, Cl. 260—397.45.
- Fried, Josef, and G. H. Thomas, to Olin Mathieson Chemical Corp. 3,20 diketals derivatives of 9a-halo 16-hydroxyhydrocortisone and cortisone. 2,929,814, 3-22-60, Cl. 260—239.55.
- Fried, Josef, and R. W. Thoma, to Olin Mathieson Chemical Corp. 11-oxygenated-1-dehydrotestololactones. 2,946,807, 7-26-60, Cl. 260—343.2.
- Fried, Josef, and G. H. Thomas, to Olin Mathieson Chemical Corp. Synthesis of steroids. 2,946,812, 7-26-60, Cl. 260—397.45.
- Fried, Josef, and J. E. Herz, to Olin Mathieson Chemical Corp. 12a-halo-11-oxygenated progesterones. 2,963,492, 12-6-60, Cl. 260—397.3.
- Fried, Josef, and J. E. Herz, to Olin Mathieson Chemical Corp. 12a-halo-3,11-oxygenated-17a-hydroxy-20 oxo steroids of the pregnane series. 2,963,495, 12-6-60, Cl. 260—397.45.
- Fried, Josef, and R. W. Thoma, to Olin Mathieson Chemical Corp. Synthesis of steroids. 2,964,450, 12-13-60, Cl. 195—51.
- Fried, Josef, and R. W. Thomas, to Olin Mathieson Chemical Corp.  $\Delta^4$ -Pregnene-9 $\beta$ , 11 $\beta$ -oxido-6 $\beta$ , 12a-diol-3, 20-dione. 2,964,523, 12-13-60, Cl. 260—239.55.
- Fried, Marvin R.: See—  
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- Fried, Robert P., to Modern Machine & Tool Co., Inc. Ice cream scoop. 2,926,620, 3-1-60, Cl. 107—48.
- Friedberg, Harry, to Waste King Corp. Barometric stack dilution device. 2,959,139, 11-8-60, Cl. 110—18.
- Friedberg, Harry, to Waste King Corp. Smokeless and odorless incinerator. 2,959,140, 11-8-60, Cl. 110—18.
- Friedel, Murray, to Statmaster Corp. Printing frame. 2,949,077, 8-16-60, Cl. 95—77.
- Friedel, Richard T. Automatic light changer for motion picture printers. 2,933,031, 4-19-60, Cl. 95—75.
- Friedell, Morley V.: See—  
Wilson, Jesse A., Jr., and Friedell. 2,966,312.
- Friedenreich, Stanley M. Reversible top collapsible table. 2,947,583, 8-2-60, Cl. 311—83.
- Frieder, Leonard P.: See—  
Finken, Walter S. 2,928,355.  
Luisada, August G. 2,936,458.
- Frieder, Leonard P., and W. S. Finken, to Gentex Corp. Laminated protective sole. 2,920,008, 1-5-60, Cl. 154—46.
- Frieder, Leonard P., and W. S. Finken, to Gentex Corp. Ballistic fabric. 2,925,093, 2-16-60, Cl. 139—408.
- Frieder, Leonard P., and W. S. Finken, said Finken assor. to said Frieder. Ladder net. 2,925,141, 2-16-60, Cl. 182—196.
- Frieder, Leonard P., and W. S. Finken; said Finken assor. to said Frieder. Aircraft net barrier. 2,957,657, 10-25-60, Cl. 244—110.
- Friederich, Herbert: See—  
Minsinger, Manfred, and Friederich. 2,954,398.  
Steinhofer, Adolf, Minsinger, and Friederich. 2,945,893.
- Friedheim, Franz A.: See—  
Hutchinson, Irving N., Burns, and Friedheim. 2,961,203.
- Friedl, Leander F. Faced block molding device. 2,925,638, 2-23-60, Cl. 25—66.
- Friedland, Irwin, and C. B. Hatfield. Pneumatic subcaliber mortar trainer. 2,955,585, 10-11-60, Cl. 124—11.
- Friedlander, Henry Z.: See—  
Thomas, Walter M., and Friedlander. 2,953,546.
- Friedlander, Herbert N.: See—  
Field, Edmund, Juveland, Friedlander, and Pilar. 2,965,627.  
Juveland, Omar O., Friedlander, and Field. 2,932,633.  
Ke, Bacon, and Friedlander. 2,946,778.  
Pilar, Frank L., Friedlander, Juveland, and Field. 2,965,626.
- Friedlander, William, to Mono-Cam Ltd. Fuel injection pumps. 2,919,687, 1-5-60, Cl. 123—139.
- Friedman, Alex. Method of molding resin and fiber compositions. 2,924,550, 2-9-60, Cl. 162—224.
- Friedman, Allan. Apparatus for varying set widths in a photocomposing system. 2,924,157, 2-9-60, Cl. 95—4.5.
- Friedman, Barry: See—  
Friedman, Philip and G. J. 2,929,651.  
Friedman, Philip and G. J. 2,931,206.
- Friedman, Bernard S., to Sinclair Refining Co. Process for the production of naphthalene from a petroleum oil. 2,920,115, 1-5-60, Cl. 260—668.
- Friedman, Bernard S., to Sinclair Refining Co. Method of producing a high octane gasoline by reforming a naphtha in two stages. 2,947,682, 8-2-60, Cl. 208—65.
- Friedman, Bernard S., to Sinclair Refining Co. Two-stage catalytic conversion process for producing naphthalene and an aromatic gasoline from cycle oils. 2,958,643, 11-1-60, Cl. 208—60.
- Friedman, Burman I.: See—  
Newburn, Floyd A., Cannova, and Friedman. 2,938,482.  
Newburn, Floyd A., Cannova, and Friedman. 2,949,877.
- Friedman, Donald, to United States of America, Navy. Inertia actuated gyro uncaging mechanism. 2,924,104, 2-9-60, Cl. 74—5.12.
- Friedman, Donald, and B. L. Sandberg, to United States of America, Navy. Centrifugally actuated gyro uncaging mechanism. 2,921,472, 1-19-60, Cl. 74—5.1.
- Friedman, Donald, and B. L. Sandberg, to United States of America, Navy. Photosensitive cell support. 2,952,158, 9-13-60, Cl. 74—5.
- Friedman, George J.: See—  
Friedman, Philip and G. J. 2,929,651.  
Friedman, Philip and G. J. 2,931,206.
- Friedman, Herbert. Apparatus for gas analysis. 2,922,911, 1-26-60, Cl. 313—93.
- Friedman, Herbert. Method of measuring the thickness of thin coatings. 2,926,257, 2-23-60, Cl. 250—53.
- Friedman, Herbert, to J. J. Maguire, d.b.a. J. J. Maguire Co. Elongated liquid level gauge. 2,933,601, 4-19-60, Cl. 250—43.5.
- Friedman, Herbert, to J. J. Maguire, d.b.a. J. J. Maguire Co. Radiation displacement gauge with remote indication. 2,933,607, 4-19-60, Cl. 250—83.3.
- Friedman, Herbert. Apparatus for determining the composition and thickness of thin layers. 2,947,871, 8-2-60, Cl. 250—83.6.
- Friedman, Herbert, T. A. Chubb, and J. E. Kupperian, Jr. Coincidence-glow radiation detector. 2,964,632, 12-13-60, Cl. 250—83.6.
- Friedman, Ira J., E. G. Martin, and R. J. Taylor, to Chas. Pfizer & Co., Inc. Ion exchange purification of basic antibiotics. 2,960,437, 11-15-60, Cl. 167—65.
- Friedman, Ira J., E. G. Martin, R. J. Taylor, and R. L. Wagner, Jr., to Chas. Pfizer & Co., Inc. Purification of carbomycin. 2,960,438, 11-15-60, Cl. 167—65.
- Friedman, Iris: See—  
Friedman, Philip and G. J. 2,929,651.  
Friedman, Philip and G. J. 2,931,206.
- Friedman, Jerome D. Semi-automatic code sender. 2,951,122, 8-30-60, Cl. 178—84.
- Friedman, Marvin A.: See—  
Chang, Stephen S., De Vore, and Friedman. 2,966,410.
- Friedman, Merrill P., to Identification, Inc. Garment sorting apparatus. 2,946,427, 7-26-60, Cl. 198—38.
- Friedman, Messrs. Alex., Kommandit-Gesellschaft: See—  
Lipinski, Johann. 2,960,112.
- Friedman, Norman, to Soundolby, Inc. Loudspeaker baffle assembly. 2,949,163, 8-16-60, Cl. 181—31.
- Friedman, Philip, deceased (I. Friedman and H. Orenstein, executors, to R. Grossman, R. Stein, I. Friedman, and H. Orenstein, as trustees for B. Friedman and I. Friedman and H. Orenstein, as trustees for R. Friedman, doing business as G.F.S. Investing Co.), and G. J. Friedman. Door lock and closure assembly. 2,929,651, 3-22-60, Cl. 292—228.
- Friedman, Philip, deceased, and G. J., I. Friedman and H. Orenstein, executors of said P. Friedman, to R. Grossman, R. Stein, I. Friedman, and H. Orenstein, as trustees for B. Friedman, and I. Friedman and H. Orenstein, as trustees for R. Friedman, d.b.a. G.F.S. Investing Co. Door closure and assembly. 2,931,206, 4-5-60, Cl. 70—146.
- Friedman, Robert: See—  
Friedman, Philip and G. J. 2,929,651.  
Friedman, Philip and G. J. 2,931,206.



- Friedman, Robert G., to The National Machinery Co. Hot forging machine having stock descaling means operatively driven by stock shear means. 2,925,610, 2-23-60, Cl. 10-76.
- Friedman, Samuel, to Re-Ly-On Metal Products, Inc. Convertible furniture piece. 2,936,896, 5-17-60, Cl. 211-2.
- Friedman, Sidney L.: *See*—  
Dickinson, Donald L., and Friedman. 2,963,202.
- Friedrich & Dimmock, Inc.: *See*—  
Plumbo, Robert A. 2,928,121.
- Friedrich, Kevin F.: *See*—  
Kaiser, Francis D., and Friedrich. 2,958,817.
- Friedrich, Robert E., and R. N. Yeckley, to Westinghouse Electric Corp. Circuit interrupters. 2,933,576, 4-19-60, Cl. 200-148.
- Friedrich, Siegfried: *See*—  
Hannewald, Erich, and Friedrich. 2,959,749.
- Friedrich, Wilhelm: *See*—  
Bernhauer, Konrad, and Friedrich. 2,937,167.  
Bernhauer, Konrad, Friedrich, Gross, and Spaude. 2,943,983.
- Friel, James C., and C. W. Pettengill. Razor of the self-honing type. 2,933,808, 4-26-60, Cl. 30-37.
- Friel, M. Craig: *See*—  
Barnhill, George B. 2,946,155.
- Friel, Roy L., and W. E. Kloepper. Personal-check imprinting machine. 2,934,008, 4-26-60, Cl. 101-232.
- Friello, Dominick R.: *See*—  
Sprague, Robert H., and Friello. 2,940,866.
- Friend, Harry J.: *See*—  
Feldstein, Maksymilian, and Friend. 2,926,416.
- Friend, Homer C. Apparatus for giving hydrotherapeutic treatments. 2,938,517, 5-31-60, Cl. 128-66.
- Fries, Bernard A.: *See*—  
Barrick, James G., and Fries. 2,954,273.
- Fries, Bernard A., to United States of America, Atomic Energy Commission. Concentration of Pu using an iodate precipitate. 2,926,067, 2-23-60, Cl. 23-14.5.
- Fries, John H., Jr., to General Electric Co. Water heating and cooling system. 2,950,607, 8-30-60, Cl. 62-324.
- Friese, George F., and J. P. Winkin, to The Babcock & Wilcox Co. Heat exchange apparatus. 2,961,221, 11-22-60, Cl. 257-227.
- Friese, Thomas: *See*—  
Metzmeier, Erwin, and Friese. 2,961,872.
- Friesseke and Hoepfner, G.m.b.H.: *See*—  
Bosch, Julius. 2,964,630.  
Bosch, Julius. 2,966,628.
- Friesen, Herbert A.: *See*—  
Herider, Elmer A., and Friesen. 2,951,383.
- Friesen, Peter D., to Modern Hydraulics, Inc. Hydraulic lifting apparatus. 2,942,848, 6-28-60, Cl. 254-89.
- Friesen, Wilmer J.: *See*—  
Wood, Straud K., and Friesen. 2,963,851.
- Friess, Hans, to Siemens and Halske Aktiengesellschaft Berlin and Munich. Magnetogram system and apparatus for picture and sound recording. 2,952,737, 9-13-60, Cl. 178-5.6.
- Friess, Robert. Meat comminuting apparatus. 2,953,179, 9-20-60, Cl. 146-192.
- Frigo, John M.: *See*—  
Rambo, Elvind M., and Frigo. 2,929,142.
- Frihart, Henry N., to Motorola, Inc. Wave signal tuner with removable switch wafers. 2,920,197, 1-5-60, Cl. 250-40.
- Friis, Harald T., to Bell Telephone Laboratories, Inc. Diversity system. 2,956,276, 10-11-60, Cl. 343-100.
- Friis, Harald T., and S. D. Robertson, to Bell Telephone Laboratories, Inc. Finline coupler. 2,921,272, 1-12-60, Cl. 333-6.
- Friis, Harald T., and W. D. Warters, to Bell Telephone Laboratories, Inc. Circular electric wave transmission. 2,922,969, 1-26-60, Cl. 333-81.
- Frind, Horst, to J. P. Bemberg Aktiengesellschaft. Process of producing cuprammonium cellulose articles. 2,930,671, 3-29-60, Cl. 18-54.
- Frink, Russell E., to Westinghouse Electric Corp. Circuit interrupters. 2,933,574, 4-19-60, Cl. 200-144.
- Frink Sno-Plows, Inc.: *See*—  
Kenyon, George W. 2,932,416.
- Frint, William R., to Food Machinery and Chemical Corp. Drilling muds useful in drilling trona beds. 2,957,822, 10-25-60, Cl. 252-8.5.
- Frisbie, Clare L. Magnetic compass. 2,941,307, 6-21-60, Cl. 33-223.
- Frisch, David M.: *See*—  
Kloetzel, Milton C., and Frisch. 2,930,800.
- Frisch, Martin, J. W. Cartinhour, W. Tinbergen, T. Stern, and G. W. Tidd, to Foster Wheeler Corp. Vapor generator. 2,944,532, 7-12-60, Cl. 122-235.
- Frise, John A., to Gilbert & Barker Mfg. Co. Gasoline dispensing nozzles. 2,934,103, 4-26-60, Cl. 141-208.
- Frisk, Knut O. Hydraulic crane device. 2,956,690, 10-18-60, Cl. 212-35.
- Fritch, Junior L., to Kent-Moore Organizations, Inc. Tube cutter. 2,941,291, 6-21-60, Cl. 30-102.
- Fritch, Robert F. Oil seal. 2,938,744, 5-31-60, Cl. 288-3.
- Fritsch, Daniel, to Hamilton Watch Co. Index mechanism. 2,926,534, 3-1-60, Cl. 74-126.
- Fritsch, Werner: *See*—  
Ruschig, Heinrich, Fritsch, and Lindner. 2,932,641.
- Fritsche, Paul A.: *See*—  
Pieronek, Valentine R., and Fritsche. 2,956,726.
- Fritschy, John M.: *See*—  
Schoeld, Edmund A., and Fritschy. 2,934,208.  
Schoeld, Edmund A., and Fritschy. 2,952,358.  
Schoeld, Edmund A., Fritschy, and Nabors. 2,937,751.
- Fritts, Lois L., to The Dow Chemical Co. Composition and method for controlling plant viruses. 2,952,583, 9-13-60, Cl. 167-30.
- Fritts, Morris, to Bell Telephone Laboratories, Inc. Antenna mechanism. 2,952,018, 9-6-60, Cl. 343-781.
- Fritts, Robert W.: *See*—  
Fredrick, Russell E., Fritts, and Manser. 2,956,023.
- Fritts, Robert W., to Minnesota Mining and Mfg. Co. Combination fluid heater and dehumidifier. 2,919,553, 1-5-60, Cl. 62-3.
- Fritts, Robert W., to Minnesota Mining and Mfg. Co. Temperature modifying means for semiconductor device. 2,930,904, 3-29-60, Cl. 307-88.5.
- Fritts, Robert W., to Minnesota Mining and Mfg. Co. Thermoelectric dehumidifying apparatus. 2,944,404, 7-12-60, Cl. 62-3.
- Fritts, Robert W., to Minnesota Mining and Mfg. Co. Constant energy source. 2,952,724, 9-13-60, Cl. 136-4.
- Fritts, Robert W., to Minnesota Mining and Mfg. Co. Thermoelectric generator. 2,961,474, 11-22-60, Cl. 136-4.
- Fritts, Robert W., and S. Karrer, to Minnesota Mining and Mfg. Co. Low voltage control apparatus. 2,922,082, 1-19-60, Cl. 317-133.5.
- Fritts, Robert W., and S. Karrer, to Minnesota Mining and Mfg. Co. Low voltage control apparatus. 2,922,083, 1-19-60, Cl. 317-133.5.
- Fritts, Robert W., and S. Karrer, to Minnesota Mining and Mfg. Co. Zone refining apparatus. 2,937,216, 5-17-60, Cl. 13-1.
- Fritz, Bernhard. Spring floors. 2,919,476, 1-5-60, Cl. 20-6.
- Fritz, Carroll S. Dental handpiece. 2,945,299, 7-19-60, Cl. 32-27.
- Fritz, Conrad M., to Keystone Engineering Co. Vehicle with vertically adjustable cargo platform. 2,935,218, 5-3-60, Cl. 214-512.
- Fritz, Earle: *See*—  
Steiner, Charles S., Fritz, Becktel, and Kloster. 2,931,780.
- Fritz, Gerhard: *See*—  
Schnell, Hermann, and Fritz. 2,946,766.
- Fritz, Karl. Galvanizing furnace. 2,958,520, 11-1-60, Cl. 263-11.
- Fritz, Paul L. Child's place setting tray. 2,935,209, 5-3-60, Cl. 211-86.
- Fritz, William E.: *See*—  
Koranda, Clarence J., and Fritz. 2,950,143.
- Fritz, William E., to General Motors Corp. Program timer. 2,964,933, 12-20-60, Cl. 68-12.
- Fritze, Edgar H., and H. M. Schweighofer, to Collins Radio Co. Flight director aircraft instrument. 2,943,482, 7-5-60, Cl. 73-178.
- Fritze, Ulrich: *See*—  
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- Fritzinger, George H., to McGraw-Edison Co. Sheet record machine. 2,926,983, 3-1-60, Cl. 346-138.
- Fritzinger, George H., to McGraw-Edison Co. Sheet record machines. 2,935,370, 5-3-60, Cl. 346-138.
- Fritzinger, George H., to McGraw-Edison Co. Index marking means for sheet record machines. 2,955,896, 10-11-60, Cl. 346-103.
- Fritzinger, George H., to McGraw-Edison Co. Sheet record machine. 2,966,357, 12-27-60, Cl. 274-4.
- Fritzlen, Thomas L., R. J. Leipertz, and J. O. McLean, to Reynolds Metals Co. Protective system. 2,955,886, 10-11-60, Cl. 309-4.
- Fritzmeier, Georg. Roof and windshield arrangement for vehicles. 2,943,884, 7-5-60, Cl. 296-90.
- Fritzmeier, Georg. Adjustable support means for a roof of a vehicle. 2,943,885, 7-5-60, Cl. 296-102.
- Fritzsche, Bernhard: *See*—  
Hartmann, Adolf, and Fritzsche. 2,962,762.
- Friz, Walter: *See*—  
Klein, Werner, and Friz. 2,921,225.
- Froede, Walter, F. Wankel, and E. Hoepfner, to NSU Werke Aktiengesellschaft, and F. Wankel. Method of cooling rotary piston internal combustion engines. 2,956,554, 10-18-60, Cl. 123-8.
- Froede, Walter G., to NSU Werke Aktiengesellschaft, and Wankel G.m.b.H. Heat generating rotary internal combustion engine. 2,947,290, 8-2-60, Cl. 123-8.
- Froehlich, Harry W. Brassiere. 2,954,031, 9-27-60, Cl. 128-472.
- Froehlich, Kurt, to Nordberg Mfg. Co. Piston or cylinder head structure. 2,966,145, 12-27-60, Cl. 123-32.
- Froehlich, Richard E.: *See*—  
Fogal, Gordon L., Froehlich, West, and Brock. 2,942,545.
- Froelich, Donald F., and E. B. Wagner, to Lockheed Aircraft Corp. Airplane propeller spinner attachment device. 2,949,964, 8-23-60, Cl. 170-159.
- Froelich, Gustave H., to The Torrington Mfg. Co. Pay off reel for wire or the like. 2,946,536, 7-26-60, Cl. 242-128.
- Froelich, Herman C., to General Electric Co. Preparation of electroluminescent phosphors. 2,950,257, 8-23-60, Cl. 252-301.6.
- Froemke, Gerald W.: *See*—  
Coopersmith, Rudolph. 2,947,006.
- Frog, Switch & Mfg. Co., The: *See*—  
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- Froggatt, Alfred W., and G. L. Parsons, to Ruston & Hornsby Ltd. Fuel control for internal combustion engines. 2,938,510, 5-31-60, Cl. 123-140.
- Froggatt, Robert J., to Electric & Musical Industries Ltd. Electrically controlled multiple character printers. 2,939,388, 6-7-60, Cl. 101-93.
- Froggatt, Robert J., and N. D. Robinson, to Electric & Musical Industries Ltd. Data storage devices. 2,958,855, 11-1-60, Cl. 340-174.
- Frogge, Clayton E.: See—
- Carr, Victor H., Frogge, and Klee. 2,942,049.
- Fröhlich, Adolf, to The Cleveland Trust Co., as trustee. Pneumatic tire building apparatus. 2,939,508, 6-7-60, Cl. 154-10.
- Fröhlich, Adolf, to The Cleveland Trust Co. Pneumatic tire building apparatus. 2,953,186, 9-20-60, Cl. 154-10.
- Fröhlich, Adolf, and E. J. Harris, to The Cleveland Trust Co., as trustee. Two-way expandable inner bead forming ring for vulcanizing presses. 2,939,175, 6-7-60, Cl. 18-17.
- Fröhlich, Adolf, and E. J. Harris, to The Cleveland Trust Co., as trustee. Tire buffing machine. 2,939,520, 6-7-60, Cl. 157-13.
- Fröhlich, Adolf, and E. J. Harris, to The Cleveland Trust Co. Pneumatic tire. 2,953,183, 9-20-60, Cl. 152-354.
- Fröhlich, Adolf H., to The Cleveland Trust Co., trustee. Method and apparatus for making pneumatic tires. 2,954,818, 10-4-60, Cl. 154-10.
- Fröhlich, Adolf H., and E. J. Harris, to The Cleveland Trust Co., trustee. Automatic sealing ring for bagless vulcanizing presses. 2,921,337, 1-19-60, Cl. 18-17.
- Fröhlich, Adolf, and E. J. Harris, to The Cleveland Trust Co., trustee. Building ply for pneumatic tires. 2,939,503, 6-7-60, Cl. 152-354.
- Fröhlich, Hans, to Brommer Spring Hinge Co. Inc. Hold open devices for swinging doors and the like. 2,935,761, 5-10-60, Cl. 16-139.
- Fröhlich, Heinz: See—
- Paul, Wolfgang, Reinhard, and Fröhlich. 2,950,389.
- Frohman, Stanley H., C. B. Rowe, and J. A. Selvaag, to Research Products Corp. Gravity water distributor. 2,947,452, 8-2-60, Cl. 222-187.
- Frohman, Stanley H., to Research Products Corp. Mineral coated liquid-gas contact pad. 2,955,064, 10-4-60, Cl. 154-46.
- Frojd, Gustav A., to Borg-Warner Corp. Method of making universal joint spiders. 2,961,764, 11-29-60, Cl. 29-558.
- Frola, Joseph F.: See—
- May, Harry C., and Frola. 2,945,690.
- Frola, Joseph F., to Westinghouse Air Brake Co. Hydro-pneumatic type tread brake unit for railway cars. 2,926,758, 3-1-60, Cl. 188-153.
- From, Owen C., to International Telephone and Telegraph Corp. Magnetic field detecting device. 2,930,974, 3-29-60, Cl. 324-48.
- Fromageries Bel La Vache Qui Rit: See—
- Vrignaud, Yves G. 2,940,859.
- Fromberg, Aaron J., to Fromberg, Inc. Key rack with gauge. 2,940,183, 6-14-60, Cl. 35-50.
- Fromberg, Inc.: See—
- Fromberg, Aaron J. 2,940,183.
- Frome, Leonard, to Simmonds Precision Products, Inc. Capacitor for conductive liquids. 2,950,426, 8-23-60, Cl. 317-246.
- Fromer, Stephen. Suntan control device. 2,949,880, 8-23-60, Cl. 116-114.
- Fromm Bros. Inc.: See—
- Fromm, Herbert A. and J. A. 2,937,678.
- Fromm, Ellsworth H.: See—
- Schirmer, Robert M., and Fromm. 2,930,191.
- Fromm, Herbert A. Fruit juice extractor. 2,920,669, 1-12-60, Cl. 146-3.
- Fromm, Herbert A. and J. A., to Fromm Bros. Inc. Fruit juice extractor. 2,937,678, 5-24-60, Cl. 146-3.
- Fromm, John A.: See—
- Fromm, Herbert A. and J. A. 2,937,678.
- Fromm, Kenneth N., to International Telephone and Telegraph Corp. Frequency determining system. 2,926,304, 2-23-60, Cl. 324-79.
- Fromm, Kenneth N., and N. A. Blake, to International Telephone and Telegraph Corp. Flat-copy scanner. 2,941,033, 6-14-60, Cl. 178-7.1.
- Fromme, Earl F. Heater. 2,957,473, 10-25-60, Cl. 126-110.
- Frommelt, Horace A.: See—
- Frommelt, Horace A., and Aberlin. 2,950,523.
- Frommelt, Horace A., and F. Aberlin, to John A. Bitterli, W. G. Hessler, and H. A. Frommelt, trustees. Cutting tool and method of making. 2,950,523, 8-30-60, Cl. 29-95.
- Frommelt, Horace A., and F. Aberlin, to John A. Bitterli, W. G. Hessler, and H. A. Frommelt, trustees. Means for mounting cutter bits or blades. 2,950,524, 8-30-60, Cl. 29-96.
- Fromson, Howard A. Decorative aluminum product. 2,941,282, 6-21-60, Cl. 29-195.
- Fronczak, Ernest T.: See—
- Brennan, Elmer W., Fronczak, and Martinek. 2,965,567.
- Martinek, Thomas W., Brennan, and Fronczak. 2,959,543.
- Martinek, Thomas W., Brennan, and Fronczak. 2,960,467.
- Millikan, Allen F., and Fronczak. 2,963,434.
- Remes, Nathaniel L., Martinek, and Fronczak. 2,921,900.
- Fronczak, Ernest T., to The Pure Oil Co. Silica-thickened grease containing alkylene carbonate dispersant. 2,939,840, 6-7-60, Cl. 252-28.
- Fronek, Louis B. Indexing apparatus. 2,961,771, 11-29-60, Cl. 33-174.
- Frontier Development Co.: See—
- Beeston, John T., Jr. 2,924,059.
- Beeston, John T., Jr. 2,932,147.
- Fröse, Wilfried: See—
- Puhr-Westerheide, Jürgen, and Fröse. 2,956,680.
- Frosile, Leonard E., to Chrysler Corp. Speed responsive gear shift blocker. 2,924,124, 2-9-60, Cl. 74-754.
- Frost, Arthur L., to Atlas Powder Co. Electric match assembly. 2,935,718, 5-3-60, Cl. 338-329.
- Frost, Charles E., & Co.: See—
- Levi, Irving. 2,951,876.
- Frost, George H., to Westinghouse Electric Corp. Blanket control. 2,943,596, 7-5-60, Cl. 116-124.
- Frost, Harold L.: See—
- Townley, Eustace R., and Frost. 2,961,938.
- Frost, Lawrence W., and M. A. Mendelsohn, to Westinghouse Electric Corp. High temperature alkyd resin varnish. 2,945,829, 7-19-60, Cl. 260-21.
- Frost, Leonard F.: See—
- Delapena, Leslie S., Frost, and Jones. 2,958,524.
- Frost, Leonard F., to Delapena & Son Ltd. Method and apparatus for heat treating teeth of gears and the like by induction heating. 2,958,619, 11-1-60, Cl. 148-147.
- Frost, Louis H. Electromagnet construction. 2,942,164, 6-21-60, Cl. 317-184.
- Frost, Paul, to Agfa Aktiengesellschaft. Exposure control device for photographic cameras. 2,949,070, 8-16-60, Cl. 95-10.
- Frost, Paul, and W. Kaden, to Agfa Aktiengesellschaft. Pointer arrangement for meters. 2,948,259, 8-9-60, Cl. 116-136.5.
- Frostick, Frederick C., Jr., and B. Phillips, to Union Carbide Corp. Selective epoxidation process for producing esters of epoxy alcohols and alkenoic acids. 2,935,516, 5-3-60, Cl. 260-348.5.
- Frostick, Frederick C., Jr., and B. Phillips, to Union Carbide Corp. Copolymers of vinyl chloride and alkenyl esters of 3,4-epoxycyclohexane-1,1-dimethanol. 2,953,550, 9-20-60, Cl. 260-86.3.
- Frouws, Simon M., to North American Philips Co., Inc. Glow-discharge tube. 2,936,389, 5-10-60, Cl. 313-197.
- Fruehauf Trailer Co.: See—
- Fox, Alden E., Maxwell, and Tyler. 2,966,436.
- Locker, Hans. 2,920,903.
- Schonrock, Edwin A. 2,930,653.
- Warren, Roy D. 2,934,371.
- Fruendt, Adel J. Actuating mechanism for expanding an inflatable article. 2,944,268, 7-12-60, Cl. 9-8.
- Fruengel, Frank. System for signaling by light impulses. 2,921,184, 1-12-60, Cl. 250-7.
- Fruengel, Frank. Method and device for electrically sterilizing and cleaning milking machines or the like. 2,931,947, 4-5-60, Cl. 315-111.
- Fruengel, Frank. Receiver for light-flash signaling system. 2,941,084, 6-14-60, Cl. 250-214.
- Fruengel, Frank. Long-lived impulse transformer. 2,942,214, 6-21-60, Cl. 336-61.
- Fruengel, Frank. System for probing materials by shock wave signals. 2,946,217, 7-26-60, Cl. 73-67.5.
- Fruengel, Frank. Combined electric lamp for illumination and signaling. 2,956,273, 10-11-60, Cl. 340-366.
- Fruengel, Frank. Lamp for emitting light flashes of extremely short duration. 2,965,807, 12-20-60, Cl. 315-233.
- Fruh, Leslie M.: See—
- Broberg, Dewey O., Jr., and Fruh. 2,928,067.
- Fruhbusch, Heinrich: See—
- Benning, Anton, Emte, Grosskinsky, and Fruhbuss. 2,966,514.
- Fruhworth, Otto, and E. Pichl, to Wacker-Chemie G.m.b.H. Process for the storage of acetylene. 2,965,684, 12-20-60, Cl. 260-665.
- Frumkin, Raphael, to Societe Metallurgique Technique et Commerciale. Induction welding apparatus. 2,964,607, 12-13-60, Cl. 219-8.5.
- Frushour, George V., and D. R. Olinger, to J. I. Case Co. Article supporting device. 2,930,494, 3-29-60, Cl. 214-5.5.
- Frutchey Bean Co.: See—
- Warner, Wilmer H. 2,929,500.
- Fry, Arthur C.: See—
- Still, Michael H., Wooderson, and Fry. 2,960,877.
- Fry, Benjamin W., to National Vendors, Inc. Vending machine. 2,919,831, 1-5-60, Cl. 221-225.
- Fry, Carroll B. Magnetic switch. 2,923,792, 2-2-60, Cl. 200-93.
- Fry, Ethel H.: See—
- Fry, Lloyd C. and E. H. 2,933,225.
- Fry, George H. Bag handling machines. 2,925,695, 2-23-60, Cl. 53-45.
- Fry, Harry M.: See—
- Penman, Montgomery B., and Fry. 2,939,179.
- Fry, Henry J., to Melpar, Inc. Antenna support. 2,960,693, 11-15-60, Cl. 343-765.
- Fry, Horace P., Jr., to American Viscose Corp. Apparatus for finishing cellophane. 2,920,399, 1-12-60, Cl. 34-159.



- Fry, Horace P., Jr., to American Viscose Corp. Sheet coating means with safety clutch. 2,932,276, 4-12-60, Cl. 118-33.
- Fry, Horace P., Jr., and L. B. Cundiff, to American Viscose Corp. Drying apparatus for sheet material. 2,929,153, 3-22-60, Cl. 34-72.
- Fry, John A., to The English Electric Co. Directional aerial systems. 2,941,205, 6-14-60, Cl. 343-778.
- Fry, Lloyd C. and E. H. Litterbag holder. 2,933,225, 4-19-60, Cl. 224-42.6.
- Fry, Lyle L., to Lockwood Graders. Seed potato cutter. 2,956,601, 10-18-60, Cl. 146-78.
- Fry, Millard E., to General Motors Corp. Domestic appliance. 2,921,575, 1-19-60, Cl. 126-191.
- Fry, Millard E., to General Motors Corp. Control shaft. 2,939,731, 6-7-60, Cl. 287-53.
- Fry, Millard E., to General Motors Corp. Domestic appliance. 2,951,435, 9-6-60, Cl. 99-340.
- Fry, Millard E., to General Motors Corp. Domestic appliance. 2,955,189, 10-4-60, Cl. 219-37.
- Fry, Walter L., Sr., M. W. Pittard, Jr., and L. Easterman. Fluid conduit article of manufacture and combination article of manufacture. 2,931,286, 4-5-60, Cl. 98-2.
- Fryar, Ken, and L. Diamond, to Conant Ball Co. Drop-leaf hinges. 2,946,083, 7-26-60, Cl. 160-135.
- Frydrychowicz, Roman. Button holder and button. 2,940,146, 6-14-60, Cl. 24-107.
- Frye, Norman V. Farrowing pen. 2,940,423, 6-14-60, Cl. 119-20.
- Fryklund, Robert A., to Raytheon Co. Echo ranging system. 2,939,105, 5-31-60, Cl. 340-1.
- Fryklund, Robert A., to Raytheon Co. Sonic apparatus for measuring the level of stored materials. 2,943,296, 6-28-60, Cl. 340-1.
- Fryklund, Robert A., to Raytheon Co. Depth sounder recorders. 2,963,334, 12-6-60, Cl. 346-74.
- Frykman, Robert W.: See—  
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- Frykman, Robert W., to General Mills, Inc. Absorption spectrometry apparatus. 2,941,444, 6-21-60, Cl. 88-14.
- Fryonic Corp.: See—  
Kanaga, Amos R. 2,939,383.
- Fubini, Eugene G., to Cutler-Hammer, Inc. Microwave circuits. 2,921,276, 1-12-60, Cl. 333-95.
- Fuchs, Abraham M., to The Bendix Corp. Slaving system and method. 2,964,266, 12-13-60, Cl. 244-14.
- Fuchs, Friedrich, to Westfalendruck G.m.b.H. & Co. Kommandit-Gesellschaft. Pressure control mechanism for doctor blades. 2,920,557, 1-12-60, Cl. 101-157.
- Fuchs, Friedrich, to Westfalendruck G.m.b.H. & Co. Kommandit-Gesellschaft. Doctor blade mechanism. 2,947,248, 8-2-60, Cl. 101-157.
- Fuchs, Francis J., Jr., and C. L. Saunders, to Western Electric Co., Inc. Lubricating apparatus. 2,930,265, 3-29-60, Cl. 78-103.
- Fuchs, Francis J., Jr., and R. C. Taylor, to Western Electric Co., Inc. Apparatus for forming and dimpling angular bends in rectangular tubing. 2,932,335, 4-12-60, Cl. 153-3.
- Fuchs, Henry O., to Wire Abrasives Co., d.b.a. Metal Improvement Equipment Co. Gantry type peen forming machine. 2,933,802, 4-26-60, Cl. 29-90.
- Fuchs, Martin: See—  
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- Fuchs, Otto: See—  
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- Fuchs, Otto, and E. Junghanns, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for improving polyolefins. 2,955,105, 10-4-60, Cl. 260-88.2.
- Fuchs, Otto, and R. Deubel, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Ortho-hydroxy-azo-dyestuffs. 2,961,438, 11-22-60, Cl. 260-152.
- Fuchsmann, Charles H., to Columbia-Southern Chemical Corp. Novel flotation process. 2,921,678, 1-19-60, Cl. 209-166.
- Fuchsmann, Charles H., B. Zaremsky, and F. R. Hansen, to Ferro Corp. Vinyl chloride resins stabilized with boric acid-polyhydric alcohol reaction products. 2,949,439, 8-16-60, Cl. 260-45.95.
- Fučík, Karel, to Spofa, spojené farmaceutické závody, národní podnik. Method of preparing 1-(chromonyl-3)-1-(4-hydroxycoumarinyl-3)-methane and its derivatives. 2,938,039, 5-24-60, Cl. 260-343.2.
- Fucinari, Angelo M., and E. L. King, to The H. A. Montgomery Co. Drawing lubricant coating methods and compositions. 2,966,425, 12-27-60, Cl. 117-49.
- Fueg, Heinz R., and K. Kahr, to Inventa, A.-G., für Forschung und Patentverwertung Luzern. Process for removing the volatile organic impurities from lactams. 2,939,865, 6-7-60, Cl. 260-239.3.
- Fuehrer, George H., to Thor Power Tool Co. Working tool retainer mechanism. 2,958,534, 11-1-60, Cl. 279-19.1.
- Fuelling, Charles W.: See—  
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McBride, Lee F. 2,928,357.
- Fuente, Benjamin, to Cleveland Pneumatic Industries, Inc. Hydraulic valve with controlled bypass to reduce operational sensitivity. 2,964,058, 12-13-60, Cl. 137-622.
- Fuerst, Carl: See—  
Gleitsman, Harold, and Fuerst. 2,950,753.
- Fuerst, Carl C., to Eastman Kodak Co. Camera shutter. 2,940,374, 6-14-60, Cl. 95-60.
- Fuerst, Carl C., to Eastman Kodak Co. Impact shutter. 2,952,198, 9-13-60, Cl. 95-62.
- Fuford Mfg. Co.: See—  
Paynor, Melvin. 2,936,533.
- Fugassi, James P.: See—  
McKinney, David S., and Fugassi. 2,961,384.
- Fugate, James A.: See—  
Hill, Arthur M., Howard, and Fugate. 2,958,884.
- Fugmann, Robert: See—  
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- Fuhrmann, John, and J. B. Stauss. Lift cart. 2,926,804, 3-1-60, Cl. 214-390.
- Fuhro, Marcel: See—  
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- Fuhs, James S.: See—  
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- Fujii, Kinjiro, and Y. Ishido. Method for making insulating refractories. 2,921,357, 1-19-60, Cl. 25-156.
- Fujii, Tadakuni, to International Standard Electric Corp. Reflex klystrons. 2,950,415, 8-23-60, Cl. 315-5.18.
- Fujio, Bunzo: See—  
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- Fuketa, Masahiko, and S. Murakami, to Nippon Kogaku K.K. Range finder of the overlapping image type for cameras and the like. 2,945,416, 7-19-60, Cl. 88-2.4.
- Fukuin Denki Kabushiki Kaisha (known as Fukuin Electric Works, Ltd.): See—  
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- Fukuin Electric Works, Ltd.: See—  
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- Fukuoka, Takeharu: See—  
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- Fulcher, Charles A., F. J. Heuser, D. M. Roberts, R. L. Rynearson, and C. H. Waldhauer, Jr., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,954,691, 10-4-60, Cl. 73-178.
- Fuldnier, Herbert M., J. M. Morgan, Jr., J. A. Rave, Jr., and H. J. Baldwin, to The Cincinnati Milling Machine Co. Pattern controlled milling machine. 2,946,265, 7-26-60, Cl. 90-13.5.
- Fulfillment Corp. of America: See—  
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Ward, Wendell B., and Franks. 2,933,999.
- Fulghum, Robert L. Tension responsive drive control mechanism. 2,944,179, 9-27-60, Cl. 242-75.5.
- Fulke, Frank L. Beach cabana. 2,934,076, 4-26-60, Cl. 135-5.
- Fullam, John P., and S. Gyurik, to Jarry Hydraulics. Double stage oleo-pneumatic shock absorber. 2,959,410, 11-8-60, Cl. 267-64.
- Fullaway, Richard M., to Superior Tank & Construction Co. Wash tank, and oil, water and gas separator. 2,947,350, 8-2-60, Cl. 183-2.7.
- Fullemann, John: See—  
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- Fuller Co.: See—  
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- Fuller, David H., to The Foxboro Co. Gas chromatography analysis system. 2,951,361, 9-6-60, Cl. 73-23.
- Fuller, David H., to The Foxboro Co. Chromatographic gas analysis sample control system. 2,964,938, 12-20-60, Cl. 73-23.
- Fuller, Dennis Q., to Pye Ltd. Television distribution system. 2,921,127, 1-12-60, Cl. 178-6.8.
- Fuller Displays, Inc.: See—  
Marsh, William T. 2,942,726.
- Fuller, Edward D.: See—  
Underwood, William F., and Fuller. 2,956,042.
- Fuller, Edward J.: See—  
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- Fuller & Emerson Mfg. Co.: See—  
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- Fuller, Glenwood A.: See—  
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- Fuller, Glenwood A., to AMP Inc. Indenting dies for electrical terminals. 2,921,618, 1-19-60, Cl. 153-1.
- Fuller, Glenwood A., to AMP Inc. Multi-action crimping tool. 2,928,299, 3-15-60, Cl. 81-15.
- Fuller, Harrison W.: See—  
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- Fuller, Homer H., 1/4 to Asphalt Equipment and Engineering Co., 1/4 to E. O. Sider, and 1/4 to Container Corp. of America. Machine for wrapping thick butt shingles. 2,952,107, 9-13-60, Cl. 53-209.
- Fuller, John K. Inflator. 2,960,122, 11-15-60, Cl. 141-317.
- Fuller, John L., and R. L. Dangler, to Curtiss-Wright Corp. Fluid operated reciprocating motors. 2,935,051, 5-3-60, Cl. 121-157.
- Fuller, Lawrence J. Apparatus for protecting bearings and lubrication system. 2,941,852, 6-21-60, Cl. 308-187.1.
- Fuller, Lawrence J. Method for cleaning jet and gas turbine engines. 2,948,092, 8-9-60, Cl. 51-282.
- Fuller, Mack F., to E. I. du Pont de Nemours and Co. N-tertiary-alkyl amides of terephthalic, isophthalic and trimelic acids. 2,937,203, 5-17-60, Cl. 260-558.



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 Fulop, Charles. Torque limiting pulley. 2,955,443, 10-11-60, Cl. 64-28.  
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 Fulton, Arthur P. Bubble producing toy. 2,928,205, 3-15-60, Cl. 46-6.  
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 Furey, Lawrence M., to United States of America, Army. Adjustable apparatus for shifting and stowing cargo. 2,942,702, 6-28-60, Cl. 189-37.  
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- Fuss, Albert: See—  
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- Fuss, Jarvis R.: See—  
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- Gabor, William D., to C.G.S. Laboratories, Inc. Variable frequency signal generator. 2,926,311, 2-23-60, Cl. 331-16.
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- Gabrielson, Samuel, to General Electric Co. Resettable demand recorder. 2,922,689, 1-26-60, Cl. 346-98.
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- Gaertner, Van R., to Monsanto Chemical Co. Surface-active agents. 2,934,552, 4-26-60, Cl. 260-453.
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- Gage, Ennals R., to S. Fox. Apple tree. 1,975, 10-4-60, Cl. 47-62.
- Gage, Lonnie L. Plugging apparatus for well tubing. 2,921,631, 1-19-60, Cl. 166-192.
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- Gagliardi, Domenick D., and W. J. Jutras, Jr., to Argus Chemical Corp. Condensation products of formaldehyde with ievulinic hydantoin. 2,955,057, 10-4-60, Cl. 117-103.
- Gagliardi, Gagliardo. Armature winding machine. 2,964,253, 12-13-60, Cl. 242-13.
- Gagliardi, George N., to American Cyanamid Co. Crystallization of N-alkyl guanidine salts. 2,966,512, 12-27-60, Cl. 260-501.
- Gagliardi Research Corp.: See—  
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- Gagliardo, John P., to The Gamewell Co. Selector valve. 2,933,140, 4-19-60, Cl. 169-15.
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- Gagnon, Maurice A. Separable plastic links. 2,928,100, 3-15-60, Cl. 2-339.
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- Gailliot, Paul, J. Baget, and P. Sarret, to Societe des Usines Chimiques Rhone-Poulenc. Aza-bicyclo-(3,2,1)-octanes. 2,927,115, 3-1-60, Cl. 260-293.
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- Gailliot, Paul, and J. A. Robert, to Societe des Usines Chimiques Rhone-Poulenc. 16-amino-steroid derivatives. 2,945,026, 7-12-60, Cl. 260-239.5.
- Gaines, George L., Jr., and A. M. Bueche, to General Electric Co. Mica paper. 2,948,329, 8-9-60, Cl. 154-2.6.
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- Gaines, John M., to Union Carbide Corp. Preparation of alkyl orthosilicates by attrition milling. 2,927,937, 3-8-60, Cl. 260-448.8.
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- Gaiser, Romey A., to Libbey-Owens-Ford Glass Co. Electrically conductive windshield. 2,944,926, 7-12-60, Cl. 154-2.73.
- Gaiser, Romey A., to Libbey-Owens-Ford Glass Co. Electrically conducting bent glass windshield and method of producing the same. 2,954,454, 9-27-60, Cl. 219-19.
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- Galas, Charles P. Meat press. 2,932,246, 4-12-60, Cl. 100-232.
- Galassi, Francis J., to R. E. Maintain. Shelving assembly. 2,956,688, 10-18-60, Cl. 211-148.
- Galassi, Francis J., to R. E. Maintain. Shelf supporting bracket. 2,956,766, 10-18-60, Cl. 243-243.
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- Galba, Edward P., to California Almond Orchards, Inc. Almond halving apparatus. 2,953,177, 9-20-60, Cl. 146-73.
- Galba, Edward P., F. P. Slate, A. T. Hampton, and C. C. Slate, to California Almond Orchards, Inc. Apparatus for halving almonds. 2,953,176, 9-20-60, Cl. 146-72.
- Galbraith, Donald C., to Milseco Mfg. Co. Air spring supported seat. 2,961,033, 11-22-60, Cl. 155-51.
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- Gale, Alfred J., to High Voltage Engineering Corp. Compact neutron source. 2,960,610, 11-15-60, Cl. 250-84.5.
- Gale, Bernard M.: See—  
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- Galimberti, Paolo, V. Gerosa, and M. M. Melandri, to Societa Italiana Prodotti Schering. Oestra-1,3,5 (10)-triene-17 $\beta$ -ol-3-yl- $\alpha$ -oxyisobutyric acid and process for the production thereof. 2,963,491, 12-6-60, Cl. 260-397.1.
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- Mombert, James W., Gall, and Krzesiewski. 2,930,446.
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- Gallacher, James I. Irrigation control system. 2,965,117, 12-20-60, Cl. 137-78.
- Gallagher, Carol M. Doll holder. 2,919,877, 1-5-60, Cl. 248-125.
- Gallagher, Charles E. Gyroscope caging mechanism. 2,937,531, 5-24-60, Cl. 74-5.1.
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- Gallagher, Charles J., to General Electric Co. Method of applying contacts to silicon. 2,957,974, 10-25-60, Cl. 219-74.
- Gallagher, Cornelius A., and W. M. Pelino, to Servo Corp. of America. Hot-box detector. 2,947,857, 8-2-60, Cl. 246-169.
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- Gallagher, Harry, to J. Brooksbank Ltd. Fluid valves. 2,945,669, 7-19-60, Cl. 251-309.
- Gallagher, James D., and J. L. McKibben, to United States of America. Atomic Energy Commission. Multi-channel electric pulse height analyzer with binary coded decimal display. 2,961,159, 11-22-60, Cl. 235-151.
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- Gallee, Stanislaus, to International Standard Electric Corp. Switch controlled counting system. 2,927,206, 3-1-60, Cl. 250-27.
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- Gallet, Georges, and J. E. Picquendar, to Compagnie Française Thomson-Houston. Electric discharge device. 2,953,706, 9-20-60, Cl. 313-299.
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- Galletta, Leo T. and E. B. Trailer. 2,923,425, 2-2-60, Cl. 214-506.
- Galletti, Remo, to Marconi Italiana S.p.A. Oscillator tuned automatically to match crystal frequency. 2,930,993, 3-29-60, Cl. 331-177.
- Galley, Fred C., to American Radiator & Standard Sanitary Corp. Valve. 2,956,770, 10-18-60, Cl. 251-30.
- Galley, Hollis T., and F. B. Spelbrink, to Eastman Kodak Co. Mechanism for wrapping roll paper. 2,936,559, 5-17-60, Cl. 53-211.
- Gallichotte, John H., to International Business Machines Corp. Addition circuits utilizing electrical delay lines. 2,920,821, 1-12-60, Cl. 235-173.
- Gallichotte, John H., to International Business Machines Corp. Subtraction circuits utilizing electrical delay lines. 2,920,822, 1-12-60, Cl. 235-173.
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- Gallinger, Clyde T., to E. I. du Pont de Nemours and Co. Fused salt electrolysis. 2,924,558, 2-9-60, Cl. 204-68.
- Gallo, Ella A.: *See*—  
Biehl, Richard E., and Gallo. 2,923,127.
- Gallo, Ella A., D. B. Clark, and E. W. Schwartz, to United States of America, Army. Telescoping ram jet construction. 2,935,946, 5-10-60, Cl. 102-49.
- Gallo, Joseph E., to Curtiss-Wright Corp. Simulated synchrophasing propeller system. 2,932,094, 4-12-60, Cl. 35-12.
- Gallo, Mario: *See*—  
Guttinger, Paul, Guanella, Weber, and Gallo. 2,954,555.
- Gallop, John W., to National Research Development Corp. Linear particle accelerator. 2,926,279, 2-23-60, Cl. 315-3.5.
- Galloway, Frederick M., to H. K. Porter Co., Inc. Heavy duty discharge hose splice. 2,930,406, 3-29-60, Cl. 138-55.
- Galloway, Harold B. Outlet box support. 2,964,279, 12-13-60, Cl. 248-16.
- Galloway, Ralph M. Dual sofa bed. 2,965,908, 12-27-60, Cl. 5-18.
- Galloway, Raymond A., to P. H. Griffith. Anchors. 2,959,145, 11-8-60, Cl. 114-208.
- Galloway, Robert K., to Food Machinery and Chemical Corp. Automatic carton feeding and set-up machine. 2,927,511, 3-8-60, Cl. 93-53.
- Galloway, Robert K., to Food Machinery and Chemical Corp. Carton closure tab crimping device. 2,953,884, 9-27-60, Cl. 53-374.
- Galloway, Robert K., to Food Machinery and Chemical Corp. Carton feeding device. 2,954,227, 9-27-60, Cl. 271-31.
- Gallowhur Chemical Corp.: *See*—  
Andersen, Carl N. 2,955,125.  
Cohen, Sylvan I., Frant, and Sowa. 2,938,814.  
Cohen, Sylvan I., Frant, and Sowa. 2,965,912.  
Rebold, Rudolph. 2,958,625.
- Gallousis, George: *See*—  
Breth, James C., and Gallousis. 2,929,037.
- Gallup, John L., to Radio Corp. of America. Tip-off apparatus for electron tubes. 2,934,860, 5-3-60, Cl. 49-2.
- Gallup, William A.: *See*—  
Mills, Ivor W., and Gallup. 2,928,814.
- Gallup, William A., and H. L. Myers, to Sun Oil Co. Process and apparatus for breaking foam when treating petroleum or derivatives thereof with alkaline material. 2,920,036, 1-5-60, Cl. 208-284.
- Galpin, Gerald G. Fish lures. 2,948,982, 8-16-60, Cl. 43-42.15.
- Galstaun, Lionel S., L. D. Rampino, and W. A. Vandenburg, to Tidewater Oil Co. Anti-knock gasoline manufacture. 2,932,612, 4-12-60, Cl. 208-96.
- Galuska, Charles W., 50% to L. Edwards. Turbine. 2,955,428, 10-11-60, Cl. 60-60.
- Galvin, Andre, P. Besson, P. Brun, and P. Thirion, to Societe Industrielle des Derives de l'Acetylene (S.I.D.A.). Manufacture of methylethylketone. 2,944,083, 7-5-60, Cl. 260-596.
- Galvin, Ralph B., to Hi-Ro Heating Corp. High temperature conduit radiant overhead heating. 2,946,510, 7-26-60, Cl. 237-70.
- Galy, André J.: *See*—  
Ménégoz, Charles D., and Galy. 2,931,719.
- Gam, Ben-Zion: *See*—  
Germann, Werner. 2,920,395.
- Gama, Armando R., and W. G. Markham, to B J Service, Inc. Cement composition. 2,945,769, 7-19-60, Cl. 106-98.
- Gamarekian, Sooren E.: *See*—  
Kenney, John T., and Gamrekian. 2,925,715.
- Gambill, Wallace R., and N. D. Greene, to United States of America, Atomic Energy Commission. Heat transfer method. 2,950,604, 8-30-60, Cl. 62-5.
- Gamble Co., Inc., The: *See*—  
Cochrane, Reuel A. 2,929,749.
- Gamble, James G.: *See*—  
Keeler, Lawrence M., Vincent, and Gamble. 2,926,483.  
Strang, Peter M., and Gamble. 2,944,381.
- Gamble, Leon W., A. W. Langer, Jr., and A. H. Neal, to Esso Research and Engineering Co. Preparing of titanium chloride polymerization catalyst. 2,951,045, 8-30-60, Cl. 252-429.
- Gamer, Louis J.-M., to La Precision Industrielle (Societe Anonyme). Hydraulic multi-valve power unit. 2,930,402, 3-29-60, Cl. 137-622.
- Gamewell Co., The: *See*—  
Gagliardo, John P. 2,933,140.  
Hagen, Paul A. 2,946,902.  
Ruth, Edward S. 2,933,656.  
Vacha, Fred P. 2,922,973.
- Gammache, Richard J. Universal furniture foot construction. 2,954,636, 10-4-60, Cl. 45-137.
- Gammel, Walter A., Sr., to Essex Wire Corp. Electrical connector for printed circuit boards. 2,928,063, 8-8-60, Cl. 339-17.
- Gams, Theodore C., and P. J. Kiefer, Jr., to Curtiss-Wright Corp. Tape feeding means. 2,941,124, 6-14-60, Cl. 317-123.
- Ganahl, Alfred, to Heinrich Schmid vormals A. Schmid & Sohn. Resilient couplings for oscillatory tools. 2,935,861, 5-10-60, Cl. 64-11.
- Gandl, Robert A.: *See*—  
Buono, Frank S., and Gandi. 2,953,618.
- Gandrud, Ebenhard S. Spreader with folding frame. 2,929,634, 3-22-60, Cl. 275-2.
- Gandrud, Ebenhard S. Structure for mounting auxiliary apparatus on agricultural implements. 2,936,726, 5-17-60, Cl. 111-80.
- Gang, Herman, to Monroe Calculating Machine Co. Factor entering means. 2,931,568, 4-5-60, Cl. 235-62.
- Gang, Herman, to Monroe Calculating Machine Co. Product transfer mechanism. 2,931,569, 4-5-60, Cl. 235-63.
- Gang, Herman, to Monroe Calculating Machine Co. Selectively operable stopping means for calculating machines in multiplication. 2,947,476, 8-2-60, Cl. 235-63.
- Gang, Herman, to Monroe Calculating Machine Co. Value selection control for calculating machines. 2,947,477, 8-2-60, Cl. 235-79.
- Ganger, Jesse R.: *See*—  
Christian, Raymond A., Colley, Ganger, and Williams. 2,930,523.  
Christian, Raymond A., Crawford, Ganger, and Stockler. 2,931,564.
- Gangi, Sebastian, to Cidega Machine Mfg. Co., Inc. Apparatus for manufacturing ice cream. 2,949,748, 8-23-60, Cl. 62-132.
- Ganguin, Karl O., and D. W. C. Ramsay, to Imperial Chemical Industries Ltd. Photographic materials containing N-substituted phthalimide compounds. 2,930,693, 3-29-60, Cl. 96-66.
- Ganley, Bruce F. Mobile hoppers for distributing finely divided materials. 2,965,379, 12-20-60, Cl. 275-8.
- Gannon, James: *See*—  
Katz, Leon, Gannon, and Brouillard. 2,930,796.
- Gannon, Thomas P., A. R. Miller, and T. W. Crook. Support bracket. 2,954,200, 9-27-60, Cl. 248-228.
- Ganske, Kingston E., and R. F. Anderson, to Arvin Industries, Inc. Electric terminal and method of making the same. 2,945,083, 7-12-60, Cl. 174-68.5.
- Gant, Preston L.: *See*—  
Bourne, Henry A., Gant, and Reynolds. 2,945,952.
- Gantert, Raymond A.: *See*—  
Buxton, James E., and Gantert. 2,933,926.
- Ganther, Robert J., H. F. Peterssen, and H. E. Riordan, to General Precision, Inc. Velocity responsive means. 2,960,871, 11-22-60, Cl. 73-503.
- Gantner, Edward G., to Gantner Industries, Inc. Dispensing fixture and mounting bracket. 2,954,956, 10-4-60, Cl. 248-276.
- Gantner Industries, Inc.: *See*—  
Gantner, Edward G. 2,954,956.
- Ganton, Joseph E. Wall construction. 2,963,827, 12-13-60, Cl. 50-370.
- Gants, William A., to Davol Rubber Co. Positive pressure catheter. 2,936,760, 5-17-60, Cl. 128-349.



- Gantschnigg, Gottfried K., to The Martin Co. Bombing apparatus. 2,937,573, 5-24-60, Cl. 89-1.5.
- Gantschnigg, Gottfried K., L. Muehlberger, and A. C. Hake, to The Martin Co. Article suspension arrangement for aircraft. 2,949,060, 8-16-60, Cl. 89-1.5.
- Gantz, Emmett J. Removable runners for vehicles. 2,950,924, 8-30-60, Cl. 280-14.
- Ganz, Daniel M. Display rack divider. 2,938,634, 5-31-60, Cl. 211-184.
- Ganz, Henry, to Johnson & Johnson. Surgical dressing. 2,928,389, 3-15-60, Cl. 128-156.
- Ganz, Robert H., to Continental Can Co., Inc. Carton. 2,950,854, 8-30-60, Cl. 229-40.
- Ganz, Rudolph V. Method of making casting molds for ceramic forms. 2,941,277, 6-21-60, Cl. 25-156.
- Ganz Vagon es Gepgyar: See—  
Botka, Imre. 2,943,509.
- Ganze, Ronald A., to F. B. Pease Co. Apple paring machine. 2,964,081, 12-13-60, Cl. 146-39.
- Gapp, Roland H., to Townsend Co. Rivets and method of riveting. 2,931,532, 4-5-60, Cl. 218-29.
- Garand, Albert, and H. Labonte. Gutter cleaner for dairy barns. 2,925,169, 2-16-60, Cl. 198-224.
- Garapolo, Orlando, to Wilson & Co., Inc. Hydraulic multi-contact sliced bacon slice variation control. 2,966,186, 12-27-60, Cl. 146-95.
- Garapolo, Orlando, and E. J. Robertson, to Wilson & Co., Inc. Machine for packaging ham. 2,924,924, 2-16-60, Cl. 53-112.
- Garbarini, John: See—  
Bernstein, Seymour, Garbarini, Lenhard, and Smith. 2,938,917.
- Garbarini, Robert F.: See—  
Wheeler, Lisle L., and Garbarini. 2,935,356.
- Wing, Willis G., Garbarini, Wendt, and Rawitz. 2,936,927.
- Garbarino, Americo F., to Lewis-Shepard Co. Reinforced pallet. 2,923,511, 2-2-60, Cl. 248-120.
- Garber, Daniel C., to Thompson Ramo Wooldridge Inc. Error compensated servo-mechanism. 2,937,325, 5-17-60, Cl. 318-28.
- Garber, John A.: See—  
Myers, William H., and Garber. 2,961,805.
- Garber, John D., and R. E. Jones, to Merck & Co., Inc. Production of 5-hydroxymethyl-furfural. 2,929,823, 3-22-60, Cl. 260-347.8.
- Garber, John D., and H. C. Reynolds, to Merck & Co., Inc. Protection of growing plants. 2,956,922, 10-18-60, Cl. 167-42.
- Garber, Samuel M., Jr., B. G. Walker, and T. T. True, to General Electric Co. Skew servo for multiple channel recording system. 2,937,239, 5-17-60, Cl. 179-100.2.
- Garberding, Waldo L. Means for infedding a centerless grinder. 2,921,414, 1-19-60, Cl. 51-103.
- Garberding, Waldo L. Cutting tool. 2,936,659, 5-17-60, Cl. 77-72.
- Garberding, Waldo L. Automatic work gripping chuck. 2,948,540, 8-9-60, Cl. 279-4.
- Garbin, Giralomo: See—  
Toniole, Luciano, and Garbin. 2,937,701.
- Garbuny, Max: See—  
Vogl, Thomas P., McIntosh, and Garbuny. 2,966,592.
- Garbuny, Max, to United States of America, Air Force. Apparatus for reducing spurious signals in thermal image converters. 2,920,137, 1-5-60, Cl. 178-7.2.
- Garbuny, Max, and W. E. Horn, to Westinghouse Electric Corp. Photothermionic image converter with retarding fields. 2,938,141, 5-24-60, Cl. 315-11.
- Garceau, Bertram J., and C. A. Robinson, to Arnold, Hoffman & Co., Inc. Amido carboxylic acids. 2,936,251, 5-10-60, Cl. 117-139.5.
- Garceau, Roger M. H., to S. N. Marep. Packings and the like. 2,950,152, 8-23-60, Cl. 309-23.
- Garcelon, George F., to Crompton & Knowles Corp. Azo dyes. 2,935,507, 5-3-60, Cl. 260-166.
- Garcia, Clarence D.: See—  
Fallin, William C., and Garcia. 2,936,842.
- Garcia, Mario F., 33½% to A. C. Nolte, Jr. Cooling system. 2,953,125, 9-20-60, Cl. 123-41.18.
- Gard, George E., to Armstrong Cork Co. Edge heaters for thermoplastic dielectric workpieces. 2,926,232, 2-23-60, Cl. 219-10.43.
- Gard, George E., to Armstrong Cork Co. Shorting strap. 2,934,740, 4-26-60, Cl. 339-222.
- Gard, George E., to Armstrong Cork Co. Breaker device. 2,936,909, 5-17-60, Cl. 214-8.5.
- Gard, George E., to Armstrong Cork Co. Electrical coupling. 2,937,229, 5-17-60, Cl. 174-94.
- Garday, Louis J., to Bendix Aviation Corp. Fuel injection apparatus. 2,922,581, 1-26-60, Cl. 239-5.
- Gardberg, Joseph. Bi-directional counting circuit. 2,921,233, 1-12-60, Cl. 315-84.6.
- Gardberg, Joseph. Oscillator and filter circuits. 2,927,282, 3-1-60, Cl. 331-142.
- Gardberg, Joseph, to Teletype Corp. Start-stop telegraph signal generator with two oscillators. 2,945,092, 7-12-60, Cl. 178-53.1.
- Gardeen, Carl J. Excitation indicator for generators. 2,935,620, 5-3-60, Cl. 307-57.
- Gardella, Adriano. Adjustable pressure devices for double endless tape sliver draft units. 2,926,393, 3-1-60, Cl. 19-135.
- Gardella, Adriano. Centrifugal can spinning frames. 2,957,301, 10-25-60, Cl. 57-36.
- Garden City Plating & Mfg. Co.: See—  
Arnit, Fred H. 2,941,775.
- Braviak, Albert. 2,927,666.
- McLean, James. 2,921,693.
- Garden Photoengraving Co., Inc.: See—  
Standley, Lloyd W. 2,925,332.
- Gardiner, Charles W., to Laboratory for Electronics, Inc. Data translating apparatus. 2,961,644, 11-22-60, Cl. 340-174.
- Gardiner, Duncan B., to Vickers Inc. Power transmission. 2,919,651, 1-5-60, Cl. 103-136.
- Gardiner, Emmett G., to General Electric Co. Bearing for a rotary shaft. 2,955,350, 10-11-60, Cl. 29-149.5.
- Gardiner, Frank J., to I-T-E Circuit Breaker Co. Speed control eddy current brake. 2,922,099, 1-19-60, Cl. 318-302.
- Gardiner, Fred E.: See—  
Nicolodi, Robert E. 2,931,349.
- Gardner, Bernard C., and G. F. Reyling, to Varian Associates. Electron tube apparatus. 2,965,794, 12-20-60, Cl. 315-5.
- Gardner, Charles, Jr. Clothes hanger. 2,945,595, 7-19-60, Cl. 211-105.3.
- Gardner-Denver Co.: See—  
Bent, John H. 2,930,262.
- Bos, John R. 2,938,584.
- Bos, John R., and Shulters. 2,926,859.
- Bottje, John D., and Shulters. 2,939,431.
- Burton, John W. 2,919,769.
- Burton, John W., and Erickson. 2,934,104.
- Huffman, Mervin C., Gustafson, and Pearson. 2,942,578.
- Robinson, Claude L., and Shulters. 2,927,486.
- Shulters, Robert B. 2,960,676.
- Smith, Ralph E., and Workman. 2,924,430.
- Gardner, Edgar J. Work indexing mechanism. 2,944,496, 7-12-60, Cl. 112-65.
- Gardner, Eris K., and L. M. Calhoun. Sampling apparatus. 2,959,397, 11-8-60, Cl. 255-1.4.
- Gardner, Frederick H.: See—  
Elms, James C., and Gardner. 2,944,736.
- Gardner, Harris L., and W. Argereu, ½ to W. B. MacKenzie. Hockey stick end buffer. 2,957,208, 10-25-60, Cl. 18-59.
- Gardner, Horace L., to Fairchild Engine and Airplane Corp. Overspeed control for turbine rotor. 2,966,332, 12-27-60, Cl. 253-59.
- Gardner, Howard S.: See—  
Green, Edward, Graham, Gardner, and Holmes. 2,958,606.
- Gardner, James H.: See—  
Baer, Charles A., Gardner, and Raymond. 2,952,569.
- Gardner, James M. Tube bending device. 2,932,225, 4-12-60, Cl. 81-15.
- Gardner, James W. Machine for blanching peanuts and the like. 2,964,080, 12-13-60, Cl. 146-32.
- Gardner, John B., to The British Oxygen Co. Ltd. Cooling selective acetylene solvent by heat exchange with vaporizing liquid methane. 2,965,688, 12-20-60, Cl. 260-679.
- Gardner, John M.: See—  
Harrop, Raymond N., and Gardner. 2,950,942.
- Gardner, Karl A., to The Grisco-Russell Co. Steam generator construction. 2,920,874, 1-12-60, Cl. 257-239.
- Gardner, Lawrence H. Valve. 2,948,298, 8-9-60, Cl. 137-620.
- Gardner, Lawrence H. Positive displacement pump. 2,955,539, 10-11-60, Cl. 103-38.
- Gardner, Lloyd E., to Phillips Petroleum Co. Hydrocracking of hydrocarbon oil with a copper oxide-chromium oxide catalyst on an alumina-fluorine support. 2,953,516, 9-20-60, Cl. 208-112.
- Gardner, Lloyd E., to Phillips Petroleum Co. Hydrocracking hydrocarbon oils with a catalyst composite, comprising chromium sesquioxide and reduced cupric oxide. 2,965,562, 12-20-60, Cl. 208-112.
- Gardner, Lloyd E., and R. J. Hogan, to Phillips Petroleum Co. Catalyst conditioning for catalytic selective removal of acetylenic compounds from fluids containing same. 2,939,892, 6-7-60, Cl. 260-677.
- Gardner, Lloyd E., and R. J. Hogan, to Phillips Petroleum Co. Hydrocracking a gas oil with a presulfided catalyst consisting of oxides of vanadium, cobalt and molybdenum on gamma alumina. 2,946,738, 7-26-60, Cl. 208-112.
- Gardner, Lloyd E., and R. J. Hogan, to Phillips Petroleum Co. Hydrocracking catalyst and process. 2,946,739, 7-26-60, Cl. 208-112.
- Gardner Machine Co.: See—  
Dunn, Elman R. 2,920,427.
- Dunn, Elman R. 2,926,466.
- Kubsh, Leroy M. 2,926,469.
- Price, Ralph E. 2,962,841.
- Price, Ralph E., and Dunn. 2,931,144.
- Gardner Machines, Inc.: See—  
Osborn, Leonard C. 2,958,246.
- Gardner, Marvin A., and J. H. Ludwig, to M. S. Abbey and J. H. Ludwig. Apparatus for filling cartons with cottage cheese and the like. 2,932,329, 4-12-60, Cl. 141-132.
- Gardner, Roland C.: See—  
Western, Arthur W., and Gardner. 2,928,464.
- Gardner, Roland M., E. E. Yeo, and D. P. Drown, to Sylvania Electric Products Inc. Lamp mount transfer. 2,960,205, 11-15-60, Cl. 198-21.
- Gardner, Thomas E. Relay construction. 2,955,240, 10-4-60, Cl. 317-176.



- Gardner, Thomas P., to Texaco Inc. Stacking means. 2,952,233, 9-13-60, Cl. 113-114.
- Gardner, Thomas S., J. Lee, E. Wenis, and W. Wenner, to Hoffmann-La Roche Inc. 1-picolinoyl-2-benzyl hydrazine and salts. 2,923,714, 2-2-60, Cl. 260-295.
- Gardner, Thomas S., J. Lee, and E. Wenis, to Hoffmann-La Roche Inc. 1-picolinoyl-2-benzylhydrazine lower alkyl halides. 2,957,882, 10-25-60, Cl. 260-295.
- Gardner, Thomas S., J. Lee, and E. Wenis, to Hoffmann-La Roche Inc. Pyridylmethylidibenzylamines. 2,965,646, 12-20-60, Cl. 260-296.
- Gardon, John L., and B. Leopold, to Canadian International Paper Co. Manufacture of lignin derivatives. 2,934,531, 4-26-60, Cl. 260-124.
- Gareis, Erich, to Firma bi-flex Birkenstock K.G. Polishing bodies of vegetable fibrous material, in particular polishing wheels, grindstones and sliding contact discs. 2,945,750, 7-19-60, Cl. 51-295.
- Garey, Albert J.: See—
- Eisenhart, Arlin C. and Garey. 2,962,188.
- Garey, Albert J., to U.S. Electrical Motors, Inc. Adjustable drive coupling for pump shafts. 2,953,403, 9-20-60, Cl. 287-130.
- Garey, Albert J., to U.S. Electrical Motors, Inc. Oil turbidity indicator. 2,963,939, 12-13-60, Cl. 88-14.
- Garey, Albert J., to U.S. Electrical Motors, Inc. Shaft adjusting mechanism. 2,964,015, 12-13-60, Cl. 121-40.
- Garey, Raymond M. Test tube holder. 2,956,686, 10-18-60, Cl. 211-74.
- Garfield, Lavern F., and W. W. Williams, to Lear, Inc. Actuator. 2,945,476, 7-19-60, Cl. 121-39.
- Gargini, Eric J., to Electric & Musical Industries Ltd. Amplitude and phase modulation of single carrier by brightness and color signals. 2,923,765, 2-2-60, Cl. 178-5.2.
- Gargini, Eric J., to Electric & Musical Industries Ltd. Wired electrical signal distributing systems. 2,938,075, 5-24-60, Cl. 178-6.
- Gargini, Eric J., to Electric & Musical Industries Ltd. Television relay systems. 2,950,345, 8-23-60, Cl. 178-7.5.
- Gargini, Eric J., to Electric & Musical Industries Ltd. Colour television receivers, and reproducing tubes therefor. 2,966,544, 12-27-60, Cl. 178-5.4.
- Garibaldi, John A.: See—
- Lewis, James C., Ijichi, Thompson, and Garibaldi. 2,942,977.
- Garipey, Henry J. Swivel hinge support. 2,964,094, 12-13-60, Cl. 155-169.
- Garis, Gordon O.: See—
- Graff, Alan R., Garis, Butts, and Juergens. 2,947,187.
- Williamson, Archie O., Garis, and Boone. 2,954,088.
- Garizio, John E.: See—
- Beekman, Stewart M., and Garizio. 2,945,783.
- Garland, Charles, to C. Garland. Low-lift pump. 2,954,736, 10-4-60, Cl. 103-1.
- Garland, Christopher: See—
- Garland, Charles. 2,954,736.
- Garland, David C., to United States of America, Navy. Torpedo loading band. 2,938,484, 5-31-60, Cl. 114-20.
- Garland, John: See—
- London, Joseph C., and Garland. 2,930,249.
- Garland Mfg. Co.: See—
- O'Neil, Frederick L. 2,930,061.
- Garland, Milton W., to Frick Co. Refrigeration. 2,937,508, 5-24-60, Cl. 62-137.
- Garland, Milton W., to Frick Co. Ice holder and dispenser. 2,952,391, 9-13-60, Cl. 222-80.
- Garlanda, Tiziano: See—
- Baroni, Alessandro, and Garlanda. 2,950,173.
- Garlet, Robert, to Office National Industriel de l'Azote. Process for the preparation of highly dispersed metallic oxides, particularly zinc oxide. 2,956,861, 10-18-60, Cl. 23-147.
- Garlington, William D., to E. I. du Pont de Nemours and Co. Process for modifying foam structures. 2,926,389, 3-1-60, Cl. 18-48.
- Garlock, Inc.: See—
- Closs, George F. 2,949,322.
- Garmaise, David L.: See—
- McKay, Arthur F., and Garmaise. 2,943,106.
- Garmaise, David L., and J. Colucci, to Monsanto Chemical Co. Resolution procedures and apparatus therefor. 2,957,886, 10-25-60, Cl. 260-326.3.
- Garmaise, David L., and J. Colucci, to Monsanto Chemical Co. Resolution of organic compounds and apparatus therefor. 2,957,917, 10-25-60, Cl. 260-583.
- Garman, Donald F., to Prestole Corp. Motor mounting bracket. 2,952,430, 9-13-60, Cl. 248-26.
- Garman, Donald F., to Prestole Corp. Molding fastener. 2,958,109, 11-1-60, Cl. 24-73.
- Garman, Edward B., to Owens-Illinois Glass Co. Carton construction. 2,920,757, 1-12-60, Cl. 206-45.21.
- Garman, Floyd A., and W. V. Magee, to United States Steel Corp. Rod bundle unloader. 2,953,239, 9-20-60, Cl. 198-177.
- Garman, Harold G., to The Upjohn Co. Process for a stable oil suspension. 2,951,014, 8-30-60, Cl. 167-82.
- Garman, James A. Tractor tandem hitch. 2,962,300, 11-29-60, Cl. 280-400.
- Garman, John A.: See—
- Jones, Howard A., Garman, and Dickinson. 2,945,780.
- Jones, Howard A., Garman, and Dickinson. 2,946,718.
- Jones, Howard A., Garman, and Dickinson. 2,946,719.
- Jones, Howard A., Garman, and Dickinson. 2,955,069.
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- Jones, Howard A., Garman, and Dickinson. 2,960,431.
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- Jones, Howard A., Garman, and Dickinson. 2,961,369.
- Jones, Howard A., Garman, and Dickinson. 2,961,370.
- Jones, Howard A., Garman, and Dickinson. 2,961,371.
- Jones, Howard A., Garman, and Dickinson. 2,963,398.
- Garmy, Robert J., to Republic Steel Corp. Cooling arrangement for electric furnace. 2,950,094, 8-23-60, Cl. 259-208.
- Garmy, Robert J., to Republic Steel Corp. Apparatus for controlling the atmosphere in an electric furnace. 2,952,723, 9-13-60, Cl. 13-33.
- Garn, Paul D., and L. H. Sharpe, to Bell Telephone Laboratories, Inc. Etching bath for copper and regeneration thereof. 2,964,453, 12-13-60, Cl. 204-130.
- Garner, Abel E. Cake server. 2,965,430, 12-20-60, Cl. 312-284.
- Garner, Albert Y., to Monsanto Chemical Co. Phosphonic acid phosphates. 2,953,591, 9-20-60, Cl. 260-461.
- Garner, George B., to Norden Laboratories, Inc. Method of producing a growth regulator for rumen organisms in treatment of rumen dysfunctions. 2,931,726, 4-5-60, Cl. 99-2.
- Garner, Herman L. Fish lure. 2,933,846, 4-26-60, Cl. 43-42.35.
- Garner, John L. E., Sr., and W. T. Scott. Lawn edge trimmer attachment for a power drill. 2,932,144, 4-12-60, Cl. 56-25.4.
- Garner, Philip J., to Shell Oil Co. Fuel composition. 2,940,839, 6-14-60, Cl. 44-63.
- Garner, Russell F.: See—
- Wantz, Clarence, and Garner. 2,943,177.
- Garner, W. Gail: See—
- Elbinder, Charles H. 2,955,087.
- Garnett, Lawrence T., to Robertshaw-Fulton Controls Co. Electropneumatic relay with high power output. 2,964,051, 12-13-60, Cl. 137-85.
- Garnett, Willard R.: See—
- Stahlhut, Leo G., and Garnett. 2,961,530.
- Garnier, Georges, to Air-Equipment. Improvements in radio-compasses. 2,940,077, 6-7-60, Cl. 343-114.
- Garnjost, Kenneth D., to Moog Servocontrols, Inc. Dual input servo valve. 2,941,515, 6-21-60, Cl. 121-46.5.
- Garoff, Kenton, to United States of America, Army. Wave guide duplexing system. 2,921,185, 1-12-60, Cl. 250-13.
- Garrard, Bruce. Returned bottle detector. 2,954,111, 9-27-60, Cl. 194-4.
- Garrard Engineering and Mfg. Co. Ltd., The: See—
- Caddy, Edward W. J. 2,954,981.
- Slade, Hector V. 2,938,730.
- Garratt, Charles S., Jr. Flush valve actuating mechanism. 2,965,905, 12-27-60, Cl. 4-67.
- Garred, William P. Heat reflector for compression type air conditioners. 2,941,380, 6-21-60, Cl. 62-262.
- Garren, Alper A.: See—
- Chambers, Edmund S., Garren, Kippenhan, Lamb, and Riddell. 2,920,236.
- Garretson, Everett B.: See—
- Brinster, John F., and Garretson. 2,948,795.
- Garrett, Cleo V. Fishing float. 2,958,876, 11-8-60, Cl. 9-347.
- Garrett Container Corp.: See—
- O'Gorman, William F. 2,929,542.
- O'Gorman, William F. 2,958,418.
- Garrett Corp., The: See—
- Bartlett, James L., Jr. 2,920,457.
- Bartlett, James L., Jr. 2,952,981.
- Brown, Norman M., Jr., and McCormack. 2,953,761.
- Cain, Earl S., Jr. 2,926,052.
- Cazier, John M., and Tuchynier. 2,926,051.
- Cholvin, Robert L., and Terp. 2,929,225.
- Collins, Jerome, MacInnes, and Parker. 2,953,416.
- Crawford, James V., Fischer, and Le May. 2,935,084.
- Dallenbach, Frederick. 2,923,461.
- Dotson, Donald A. 2,928,408.
- Drexel, Charles F., Young, and Sewell. 2,963,093.
- Fraebel, Robert J. 2,958,487.
- Green, Frederick H. 2,958,202.
- Greenwald, Harold A. 2,925,290.
- Heyniger, William L. 2,936,056.
- Howes, Leslie D. 2,929,210.
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- Jensen, Raymond W., and Riley. 2,938,533.
- Jonas, Robert P., and De Sario. 2,955,811.
- Kemper, James M. 2,929,376.
- Kirk Patrick, Elizabeth M. 2,960,834.
- Parker, Wilton E., and Silver. 2,932,452.
- Pickard, Robert M., and A. Silver. 2,929,224.
- Rae, Randolph S. 2,922,285.
- Rae, Randolph S. 2,922,286.
- Rae, Randolph S. 2,922,287.
- Rae, Randolph S. 2,927,437.
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 Sorenson, Kal K. 2,964,931.  
 Steele, Harry M. Jr. 2,946,031.  
 Stevens, George L. 2,934,312.  
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 Yost, Harlan H. 2,925,329.
- Garrett, George A., to United States of America, Navy. Radar search scan system. 2,925,594, 2-16-60, Cl. 343-5.  
 Garrett, Henry U. Method and apparatus for remote control of valves or the like. 2,951,536, 9-6-60, Cl. 166-145.  
 Garrett, Henry U., and C. M. Peters, to U.S. Industries, Inc. Valve actuating device. 2,924,278, 2-9-60, Cl. 166-214.  
 Garrett, Henry U., and N. F. Brown, to U.S. Industries, Inc. Piston. 2,937,909, 5-24-60, Cl. 309-33.  
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 Garrison, Ralph P. and J. O., and Walker. 2,922,657.  
 Walker, David D. 2,942,510.  
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 Garrity, Thomas A., Jr., to The Pure Oil Co. Problem solving device. 2,928,179, 3-15-60, Cl. 33-75.  
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 Garson, Arthur M., L. W. Gunderson, and R. J. Walder. Wrapping machine. 2,919,530, 1-5-60, Cl. 53-182.  
 Garsson, Joseph H., to Hughes Aircraft Co. Process for deep drawing plastic sheet. 2,952,042, 9-13-60, Cl. 18-56.  
 Garstang, William W., to Allen-Bradley Co. Variable resistor. 2,958,841, 11-1-60, Cl. 338-180.  
 Garth, Ernest D. G., to C. R. Bard, Inc. Sterile package and method of making same. 2,947,415, 8-2-60, Cl. 206-63.2.  
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 Gartner, Fritz. Means for supporting and clamping a hollow metal post relatively to ceilings or walls. 2,949,983, 8-23-60, Cl. 189-38.  
 Gartner, Herbert, to Lumoprint Zindler K.G. Method of and circuit arrangement for timing photographic and other processes. 2,965,814, 12-20-60, Cl. 317-142.  
 Gartner, John H., R. J. Bushfield, and E. B. Cooley, to Speedway Foods Co. Dispensing machine. 2,953,080, 9-20-60, Cl. 99-326.  
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 Gartner, Stanley J., to Sylvania Electric Products Inc. Tray-  
 ing device. 2,940,327, 6-14-60, Cl. 74-130.  
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 Gartner, Stanley J., to Sylvania Electric Products Inc. Strap and perforated insulator assembly. 2,956,196, 10-11-60, Cl. 313-258.  
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 Garve, Alexander, to Maschinenfabrik Augsburg-Nürnberg A.G. Radial-flow compressor. 2,925,952, 2-23-60, Cl. 230-127.  
 Garver, Curtis A., and C. R. Haun. Automobile jack converter. 2,962,262, 11-29-60, Cl. 254-134.  
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 Garvey, Louis P., to General Motors Corp. Coincidental door locking system. 2,934,930, 5-3-60, Cl. 70-264.  
 Garvey, Louis P., to General Motors Corp. Windshield washer pump. 2,993,801, 9-27-60, Cl. 15-250.02.  
 Garvey, Louis P., to General Motors Corp. Vehicle door latch and latch control apparatus. 2,960,362, 11-15-60, Cl. 292-280.  
 Garvey, Louis P., C. J. Griswold, Jr., and J. D. Leslie, to General Motors Corp. Automobile door latching means. 2,935,351, 5-3-60, Cl. 292-45.  
 Garvey, Louis P., and E. M. Starr, to General Motors Corp. Vehicle seat. 2,953,183, 9-20-60, Cl. 155-5.  
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 Garwin, Leo, to Kerr-McGee Oil Industries, Inc. Treatment of hydrocarbons. 2,940,923, 6-14-60, Cl. 208-118.  
 Garwin, Leo, to Kerr-McGee Oil Industries, Inc. Method of fractionating fatty pitches. 2,940,965, 6-14-60, Cl. 260-97.6.  
 Garwin, Richard L., to International Business Machines Corp. Switching circuit. 2,958,848, 11-1-60, Cl. 340-166.  
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 Gascoigne, Denis, to Joseph Lucas (Industries) Ltd. Liquid fuel spraying nozzles. 2,965,311, 12-20-60, Cl. 239-403.  
 Gash, Virgil W., and B. S. Wildi, to Monsanto Chemical Co. Steroid sulfite ester polymers. 2,931,817, 4-5-60, Cl. 260-397.5.  
 Gaskell, Joseph W. Traveling sprinkler system. 2,940,672, 6-14-60, Cl. 239-212.



- Gaskell, Walter L., to King-Seeley Corp. Adjustable guide fence construction for table saw. 2,966,179, 12-27-60, Cl. 143-174.
- Gaskill, William A., to Westinghouse Electric Corp. Fusible device. 2,962,568, 11-29-60, Cl. 200-133.
- Gaskill, William A., and W. H. Russell, to Southern States Equipment Corp. Electric fuse. 2,959,652, 11-8-60, Cl. 200-127.
- Gaskin, Arthur J., and A. E. Ringwood. Production of rutile from ilmenite and related ores. 2,954,278, 9-27-60, Cl. 23-202.
- Gaskins, Lemuel W. Attachment for barber's shears. 2,946,122, 7-26-60, Cl. 30-133.
- Gaskins, Lucian. Hydraulic tool. 2,955,627, 10-11-60, Cl. 141-311.
- Gaskins, Robert W. Filing attachment for portable power tools. 2,962,798, 12-6-60, Cl. 29-76.
- Gaslini, Franco. Process for the hydrogenation of lignine and lignocellulosic materials. 2,947,739, 8-2-60, Cl. 260-124.
- Gasmire, Richard C.: See—  
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- Gaspar, Bela, and G. B. Linden; said Gaspar assor. to Gasparcolor, Inc. Color photographic material and process. 2,943,934, 7-5-60, Cl. 96-53.
- Gaspar, Lester G. Spaced panel wall structure. 2,940,296, 6-14-60, Cl. 72-44.
- Gasparcolor, Inc.: See—  
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- Gaspardo, Martin S. Tire chain. 2,952,290, 9-13-60, Cl. 152-208.
- Gasparini, Gino L.: See—  
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- Gasser, Charles M., to Knapp-Monarch Co. Safety device for skin divers. 2,936,755, 5-17-60, Cl. 128-142.
- Gasser, Charles M., to Knapp-Monarch Co. Plumbing system purger. 2,939,154, 6-7-60, Cl. 4-255.
- Gassino, Teresio: See—  
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- Gassmann, Hans, to Ciba Ltd. Manufacture of reaction products of polyisocyanates with ethylene oxide addition products. 2,946,767, 7-26-60, Cl. 260-47.
- Gassmann, Johannes, and H. Witt, to Daimler-Benz Aktiengesellschaft. Rotating heat exchanger. 2,963,278, 12-6-60, Cl. 257-265.
- Gassner, Beat P. Control valve. 2,920,636, 1-12-60, Cl. 137-45.
- Gassner, Francis X., and W. N. McLellan, to Olin Mathieson Chemical Corp. Diethylstibestrol compositions. 2,960,407, 11-15-60, Cl. 99-2.
- Gasson, Edward J., and D. J. Hadley, to The Distillers Co. Ltd. Alcoholysis of aromatic nitriles with polyhydric alcohols. 2,921,088, 1-12-60, Cl. 260-475.
- Gast, Lyle E., J. C. Cowan, and H. M. Teeter, to United States of America, Agriculture. Protective coating compositions from aliphatic condensed polyunsaturated fatty alcohols and their esters. 2,952,556, 9-13-60, Cl. 106-287.
- Gaston, Gardner E.: See—  
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- Gaston, Paul S., to Macinar, Inc. Collapsible supporting devices for drop leaves. 2,943,896, 7-5-60, Cl. 311-19.
- Gaston, William D. Mounting bracket and thrust board for outboard motors. 2,930,341, 3-29-60, Cl. 115-17.
- Gastright, Frank A. Tabs and notches on self erecting box. 2,963,212, 12-6-60, Cl. 229-41.
- Gasway Corp.: See—  
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- Gate City Sash and Door Co.: See—  
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- Gates, Charles E., to Bendix-Westinghouse Automotive Air Brake Co. Fluid pressure brake valves. 2,937,052, 5-17-60, Cl. 303-29.
- Gates, Charles E., to Bendix-Westinghouse Automotive Air Brake Co. Fluid pressure system. 2,955,742, 10-11-60, Cl. 230-7.
- Gates, Charles W., and H. D. Glenn, to United States Rubber Co. Method of making a fungicidal substance. 2,929,846, 3-22-60, Cl. 260-567.
- Gates, Geoffrey R. G. Clutch-operated steering gear for vehicles. 2,936,033, 5-10-60, Cl. 180-6.2.
- Gates, Harris G., to Gates & Sons, Inc. Plug for looped wire concrete form ties. 2,959,835, 11-15-60, Cl. 25-131.
- Gates, John W., Jr., and P. E. Miller, to Eastman Kodak Co. Preparation of washed emulsions and gelatin derivatives employed as peptizers in their preparation. 2,956,880, 10-13-60, Cl. 96-94.
- Gates, Lauren W., to Sperry Rand Corp. Mower supporting and lifting means. 2,938,322, 5-31-60, Cl. 56-25.
- Gates, Lois M.: See—  
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- Gates, Paul. Ore roasting furnace. 2,939,695, 6-7-60, Cl. 266-20.
- Gates, Paul E., to Sylvania Electric Products Inc. Metal tube assembly and method. 2,928,022, 3-8-60, Cl. 315-39.
- Gates Radio Co.: See—  
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- Gates, Robert F., and P. E. Kendall, to International Telephone and Telegraph Corp. Wave analyzer. 2,927,272, 3-1-60, Cl. 324-118.
- Gates Rubber Co., The: See—  
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- Gates, Sheldon W., to Motorola, Inc. Timing circuit. 2,935,682, 5-3-60, Cl. 324-68.
- Gates & Sons, Inc.: See—  
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- Gates, Stephen, and D. H. Mullins, to Union Carbide Corp. Blend of chlorotrifluoroethylene homopolymer and chlorotrifluoroethylene vinylidene fluoride copolymer. 2,944,997, 7-12-60, Cl. 260-45.5.
- Gates, Thomas S., and A. B. Bassoff, to National Broach & Machine Co. Internal gear finishing machine. 2,955,514, 10-11-60, Cl. 90-1.6.
- Gates, Wilbur C., ½ to Chicago Bridge & Iron Co., and ½ to Baerguard, Inc. Process for tempering cereal grains. 2,964,408, 12-13-60, Cl. 99-80.
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- Gathercoal, Joseph D. Mitering device. 2,942,634, 6-28-60, Cl. 143-89.
- Gathman, Albert: See—  
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- Gate, Thomas L. Suction box cover. 2,957,522, 10-25-60, Cl. 162-374.
- Gatsis, John G., to Universal Oil Products Co. Treatment of wood tar distillate. 2,934,567, 4-26-60, Cl. 260-613.
- Gatto, James V., and R. M. Florentino. Reversible connector. 2,957,156, 10-18-60, Cl. 339-31.
- Gatto, Joseph L.: See—  
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- Gatzemeyer, Jacob B.: See—  
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- Gatzemeyer, Jacob B., D. C. Berkey, and A. Loft, to General Electric Co. Multi-nozzle gas turbine fuel system with positive metering devices. 2,936,028, 5-10-60, Cl. 158-36.4.
- Gatzert, Ernest H., to General Dynamics Corp. Impulse counting device. 2,920,249, 1-5-60, Cl. 317-140.
- Gatzert, Ernest H., and W. W. Pharis, to General Dynamics Corp. Coin control telephone system. 2,941,037, 6-14-60, Cl. 174-6.3.
- Gau, Frank. Ice creepers. 2,952,927, 9-20-60, Cl. 36-61.
- Gau, Leonard P.: See—  
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- Gaubatz, Arthur W., to General Motors Corp. Counterbalanced speed switch. 2,926,899, 3-1-60, Cl. 264-1.
- Gaubatz, Arthur W., to General Motors Corp. Speed switch lubricating system. 2,926,900, 3-1-60, Cl. 264-15.
- Gaubatz, Arthur W., to General Motors Corp. Supported body with vibration absorbing resilient cantilever mount. 2,934,296, 4-26-60, Cl. 248-15.
- Gaubatz, Arthur W., to General Motors Corp. Accessory mount. 2,934,367, 4-26-60, Cl. 287-130.
- Gaubatz, Arthur W., to General Motors Corp. Fuel pump. 2,955,536, 10-11-60, Cl. 103-4.
- Gaubatz, Arthur W., to General Motors Corp. Fuel pump. 2,955,537, 10-11-60, Cl. 103-4.
- Gaubatz, Arthur W., to General Motors Corp. Vane pump. 2,955,542, 10-11-60, Cl. 103-120.
- Gaubatz, Arthur W., to General Motors Corp. Dual pump fuel system. 2,955,609, 10-11-60, Cl. 137-108.
- Gaubatz, Arthur W., to General Motors Corp. Speed switch actuating mechanism. 2,960,327, 11-15-60, Cl. 200-80.
- Gaube, Erwin: See—  
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- Gaubert, Rene J. Vise. 2,954,713, 10-4-60, Cl. 81-17.
- Gaudette, Francis W.: See—  
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- Gauding, Frank A., ½ to R. Gauding. Growing plant support. 2,964,877, 12-20-60, Cl. 47-38.
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- Gauditz, Paul, to H. Becker. Machines for introducing food-stuffs into containers. 2,963,735, 12-13-60, Cl. 17-37.
- Gaughran, Eugene R. L.: See—  
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- Gaugler, Richard S., to General Motors Corp. Refrigerating apparatus. 2,945,954, 7-19-60, Cl. 250-71.
- Gaul, Leslie C., to United States of America, Army. Vented safety check valve. 2,953,153, 9-20-60, Cl. 137-218.
- Gauld, Brownlee B.: See—  
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- Gauld, John, to Steel City Testing Machines, Inc. Press for calibrating proving rings and other load measuring instruments. 2,930,225, 3-29-60, Cl. 73-94.
- Gaumer, Lee S., Jr., to Air Products Inc. Separation of gaseous mixtures. 2,960,835, 11-22-60, Cl. 62-12.
- Gaumer, Richard A., to North American Research Corp. Method of treating meat. 2,927,030, 3-1-60, Cl. 99-194.
- Gaumer, Roland V.: See—  
Ottenheimer, Richard J., and Gaumer. 2,956,755.
- Gaunt, James K., and A. K. Templeton, to Massey-Ferguson (Australia) Ltd. Harvesting machine or combine. 2,954,123, 9-27-60, Cl. 209-21.



- Gaunt, William E., to Strong Cobb and Co., Inc. Production of controlled release medicaments. 2,928,769, 3-15-60, Cl. 167-82.  
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 Gaunt, Wilmer B., to Hazeltine Research, Inc. Pulse-detector system. 2,922,877, 1-26-60, Cl. 250-27.  
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   Sheble, Frank W. and F. E., and Gaupp. 2,933,358.  
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 Gausman, Alfred P., to Hayssen Mfg. Co. Automatic packaging machines. 2,950,588, 8-30-60, Cl. 53-51.  
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   Grozinger, Hans R., and Gauss. 2,924,208.  
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   Bouchard, Ovide. Re. 24,844.  
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 Gavasso, Louis J., to Burroughs Corp. Combined typewriter printing and calculating machine. 2,936,703, 5-17-60, Cl. 101-46.  
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 Gebele, Kurt, to Compur-Werk Friedrich Deckel OHG. Photographic camera with interchangeable lens. 2,926,579, 3-1-60, Cl. 95-45.  
 Gebele, Kurt, to Compur-Werk Friedrich Deckel OHG. Photographic camera and interchangeable shutter structure. 2,926,581, 3-1-60, Cl. 95-53.  
 Gebele, Kurt, to Compur-Werk Friedrich Deckel OHG. Photographic camera and shutter construction. 2,926,584, 3-1-60, Cl. 95-64.  
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 Gebele, Kurt, to Compur-Werk Friedrich Deckel OHG. Exposure value setting means with detachable optical unit. 2,949,069, 8-16-60, Cl. 95-10.  
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 Gebele, Kurt, to Compur-Werk Friedrich Deckel OHG. Photographic camera with objective lens. 2,949,074, 8-16-60, Cl. 95-44.  
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 Gebhart, George D., to H. B. Graves. Torque motor. 2,939,055, 5-31-60, Cl. 317-188.  
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- Gee, George E. Magnetic telescopic sight mounting for guns. 2,924,881, 2-16-60, Cl. 33-50.
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- Geen, Henry C., to Simoniz Co. Liquid polishing composition drible to a bright coating. 2,937,098, 5-17-60, Cl. 106-10.
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- Geerlings, Petrus J. Dietary supplement for animals. 2,926,085, 2-23-60, Cl. 99-2.
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- Geerlings, Petrus J. Transparent cover for hog feeder. 2,933,063, 4-19-60, Cl. 119-52.
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- Geertsen, Nelson, to American Can Co. Seam indexing devices for can bodies. 2,919,788, 1-5-60, Cl. 198-33.
- Geese, Albert, and H. Hüttisch, to Siemens & Halske Aktiengesellschaft. Electrical device comprising subdivided pool containing operating parts. 2,933,660, 4-19-60, Cl. 317-165.
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- Gehres, Hewitt A., to Cooper-Bessemer Corp. Propeller pitch control mechanism. 2,954,830, 10-4-60, Cl. 170-160.32.
- Gehrke, Richard J., to Thiokol Chemical Corp. Propellant propulsion system for helicopters. 2,924,936, 2-16-60, Cl. 60-39.35.
- Gehrt, Albert J., M. J. Caldwell, and W. P. Elmslie, to Moorman Mfg. Co. Feed blocks. 2,924,522, 2-9-60, Cl. 99-2.
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- Geiger, Johann, to Vereinigte Glanzstoff Fabriken A. G. Transporting devices for filled bobbins. 2,963,182, 12-6-60, Cl. 214-38.
- Geiger, Konrad J. W., and J. H. Wessels, to North American Philips Co., Inc. Device for variable amplitude correction. 2,920,194, 1-5-60, Cl. 250-27.
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- Geiger, Richard H., to International Telephone and Telegraph Corp. Traveling-wave electron discharge device. 2,924,739, 2-9-60, Cl. 315-3.5.
- Geiger, Richard H., to Roger White Electron Devices, Inc. Electromagnetic wave phase shifter. 2,930,932, 3-29-60, Cl. 315-39.3.
- Geiger, Richard H., to R. White Electron Devices, Inc. High speed electronic R. F. vacuum switch. 2,953,713, 9-20-60, Cl. 315-39.
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- Geiser, David T., to Sprague Electric Co. Duplex communication. 2,950,361, 8-23-60, Cl. 179—170.
- Geiser, Edward M., to Universal Oil Products Co. Segregation of xylene isomers. 2,957,811, 10-25-60, Cl. 202—39.5.
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- Geisler, Milton L., and G. L. Herr, to Armstrong Cork Co. Closure. 2,938,643, 5-31-60, Cl. 217—98.
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- Geisler, Henry O., to G & M Sheet Metal Works. Overhead door holder. 2,943,882, 7-5-60, Cl. 292—262.
- Geisler, William, to Wilbro Corp. Dispensing package for fluids. 2,966,282, 12-27-60, Cl. 222—95.
- Geisler, Wilson S., Jr., to Applied Radiation Corp. Traveling wave tubes. 2,939,045, 5-31-60, Cl. 315—39.3.
- Geisler, Wilson S., Jr., to Applied Radiation Corp. Linear electron accelerators. 2,940,000, 6-7-60, Cl. 315—54.1.
- Geisler, Wilson S., Jr., to Applied Radiation Corp. Vacuum tube. 2,945,980, 7-19-60, Cl. 315—3.5.
- Geisow, John C. H., to The United Kingdom Atomic Energy Authority. Reversible stacking and unstacking mechanisms. 2,954,133, 9-27-60, Cl. 214—6.
- Geissler, Erich: *See—*
- Hahn, Erich, and Geissler. 2,922,347.
- Hahn, Erich, and Geissler. 2,960,003.
- Geissmann, Gladys W. Foundation garment. 2,921,586, 1-19-60, Cl. 128—546.
- Geissmann, Gladys W. Slide fastener construction. 2,932,872, 4-19-60, Cl. 24—205.11.
- Geissmann, Gladys W. Foundation garment. 2,958,327, 11-1-60, Cl. 128—525.
- Geist, Paul M. Golf club handle. 2,954,697, 10-4-60, Cl. 73—379.
- Geister, Robert S., and F. A. Norris, to Swift & Co. Detoxification of cottonseed meal. 2,960,408, 11-15-60, Cl. 99—99.
- Gelb, Amiel, and G. E. Korb, to Stewart-Warner Corp. Brazed stainless steel joint and method of brazing same. 2,953,844, 9-27-60, Cl. 29—183.5.
- Gelb, Herbert, to Joseph Gelb Co. Apparatus for orienting photographic images. 2,931,268, 4-5-60, Cl. 88—24.
- Gelb, Joseph, Co.: *See—*
- Gelb, Herbert. 2,931,268.
- Gelbman, Emery: *See—*
- Waldman, Herbert, and Gelbman. 2,966,359.
- Geld, Isidore, and S. Tudor, to United States of America, Navy. Compositional control method. 2,937,930, 5-24-60, Cl. 23—230.
- Gelderman, H. P., & Zonen N.V.: *See—*
- Vermijs, Hendrikus C. 2,944,872.
- Geldmacher, Paul: *See—*
- Ern, Fritz R., and Geldmacher. 2,951,287.
- Geldwerth, Simon. Flexible jewelry band and snap clasp therefor. 2,952,058, 9-13-60, Cl. 24—230.
- Gelfand, Samuel: *See—*
- Baranauckas, Charles F., Ashton, and Gelfand. 2,965,683.
- Gelfand, Samuel, to Hooker Chemical Corp. Halocarbon having the empirical formula  $C_{10}Cl_4F_6$ . 2,951,097, 8-30-60, Cl. 260—648.
- Gell, Charles F., to United States of America, Navy. Selective prescription absorptive eye glasses. 2,921,500, 1-19-50, Cl. 88—41.
- Gellatly, John S.: *See—*
- Clough, Robert C., Dvorak, and Gellatly. 2,924,969.
- Gellatly, John S., J. R. Johnson, and A. L. Quinlan, to Western Electric Co., Inc. Low voltage percussion welding apparatus. 2,921,177, 1-12-60, Cl. 219—95.
- Gellatly, John S., and C. F. Triteline, to Western Electric Co., Inc. Method of making electrical switching devices. 2,932,880, 4-19-60, Cl. 29—155.55.
- Geller, Harry, to General Electric Co. Dishwasher. 2,959,357, 11-8-60, Cl. 239—220.
- Geller, Julius, and A. Hupe, to Rütgerswerke-Aktiengesellschaft. Horizontal counter-current liquid extractor. 2,941,871, 6-21-60, Cl. 23—270.5.
- Geller, Roscoe G., to Stakmore Co., Inc. Folding chair with folding and locking kneeler. 2,930,431, 3-29-60, Cl. 155—166.
- Gellert, Alvin W., and J. Parstorfer, to Burroughs Corp. Magnetic core assembly. 2,962,678, 11-29-60, Cl. 336—73.
- Gelles, Abraham J., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,946,009, 7-19-60, Cl. 328—71.
- Gelletich, Dusan S., and W. J. Wasylenko, to Burroughs Corp. Program tape reader. 2,927,980, 3-8-60, Cl. 200—46.
- Gelli, Francesco. Circuit monitoring device. 2,941,186, 6-14-60, Cl. 340—52.
- Gelling, Helmut, to Walther Büromaschinen Gesellschaft m.b.H. Revolution coupling for fast running calculating machines. 2,942,709, 6-28-60, Cl. 192—28.
- Gellman, Allen B. Pyrophoric lighter. 2,949,758, 8-23-60, Cl. 67—7.1.
- Gellman, Allen B. Pyrophoric lighter. 2,957,328, 10-25-60, Cl. 67—7.1.
- Gellman Mfg. Co.: *See—*
- Wertheimer, Milton A. 2,921,424.
- Gelsenberg Benzin Aktiengesellschaft: *See—*
- Peterlein, Karl. 2,956,994.
- Gelsenkirchener Bergwerks Akt.-Ges.: *See—*
- Sonntag, Franz. 2,944,091.
- Geluso, Lawrence J. Hanger for ironing tables. 2,944,673, 7-12-60, Cl. 211—86.
- Gelzer, John R., to Oak Mfg. Co. Switch type television tuner with stamped tuning element mounted on stationary contacts. 2,954,469, 9-27-60, Cl. 250—40.
- Gelzheiser, Francis L., and R. H. Flick, to Westinghouse Electric Corp. Circuit breaker. 2,962,569, 11-29-60, Cl. 200—144.
- Gem Crib and Cradle Co.: *See—*
- Royce, Draper P. 2,945,243.
- Gem Oil Tool Co., Inc.: *See—*
- Alexander, Granison T., Jr., and Gresham. 2,945,540.
- Gembruch, Alfred, to Alfred Gembruch, K.G. Ski binding. 2,950,119, 8-23-60, Cl. 280—11.35.
- Gembruch, Alfred, K.G.: *See—*
- Gembruch, Alfred. 2,950,119.
- Gemelli, Joseph C. Printing apparatus for elongated bodies. 2,934,005, 4-26-60, Cl. 101—37.
- Gemming, Donald A.: *See—*
- Rupp, Hermann. 2,922,943.
- Gemperline, Howard F.: *See—*
- Foos, Raymond A., and Gemperline. 2,962,372.
- Genbauffe, Francis S., to Robertshaw-Fulton Controls Co. Control devices for fuel burners. 2,958,467, 11-1-60, Cl. 236—99.
- Genders, Reginald, to Fielding & Platt Ltd. Extrusion press. 2,920,760, 1-12-60, Cl. 207—9.
- Gendreau, Gabriel: *See—*
- Bruck, Henri, Gendreau, and Salvat. 2,945,125.
- Gendron Wheel Co.: *See—*
- Bauer, Lester L. 2,959,212.
- Bauer, Lester L., and Wolaver. 2,960,150.
- Gendvil, Leonard W., O. W. Moles, and H. R. Palmer, to National Lead Co. Method for electrolytic production of refractory metal. 2,936,269, 5-10-60, Cl. 204—64.
- General American Transportation Corp.: *See—*
- Bill, Clifford E., and Schwarting. 2,936,220.
- Bushman, Edwin F. 2,951,780.
- Clejan, Deodat. 2,944,492.
- Clejan, Deodat. 2,960,043.
- De Grandpre, Etienne. 2,949,865.
- Gutzeit, Gregoire, Talmei, and Lee. 2,935,425.
- Lee, Warren G. 2,940,018.
- Lee, Warren G., and Browar. 2,928,757.
- Parker, Norman H., and Mountjoy. 2,965,364.
- Talmei, Paul, and Crehan. 2,941,902.
- General Aniline & Film Corp.: *See—*
- Anderson, Robert J., and Schenck. 2,923,724.
- Anspen, Harry D. 2,945,844.
- Anspen, Harry D. 2,947,036.
- Anspen, Harry D. 2,956,939.
- Anspen, Harry D. 2,966,471.
- Anspen, Harry D., and Baron. 2,957,024.
- Anspen, Harry D., and Pschorr. 2,941,917.
- Anspen, Harry D., and Pschorr. 2,941,934.
- Anspen, Harry D., and Pschorr. 2,956,049.
- Anspen, Harry D., and Pschorr. 2,964,488.
- Armento, William H. 2,938,897.
- Bergman, Carl A., and Hansen. 2,953,526.
- Berley, Eugene F. 2,922,353.
- Bloom, Albert, and Freyermuth. 2,965,653.
- Bravo, Joel W., and Kilonsky. 2,962,825.
- Brusie, James P. 2,962,506.
- Buc, Saul R. 2,953,423.
- Buc, Saul R., and Williams. 2,945,863.
- Chiddix, Max E., and Williams. 2,946,824.
- Chiddix, Max E., and Wynn. 2,951,829.
- Chiddix, Max E., and Wynn. 2,951,854.
- Cofrancesco, Anthony J., and Roberts. 2,950,268.
- Coles, Robert F. 2,946,819.
- Coles, Robert F., and Levine. 2,942,025.
- Copeland, Ralph A. 2,942,003.
- Cox, Robert J., and Moore. 2,948,613.
- De Angelus, Millet R., and Dersch. 2,948,612.
- Dersch, Fritz, and De Angelus. 2,919,985.
- Dersch, Fritz, and De Angelus. 2,939,789.
- Dersch, Fritz, and De Angelus. 2,948,615.
- Dersch, Fritz, and De Angelus. 2,952,539.
- Dersch, Fritz, and De Angelus. 2,955,036.
- Dersch, Fritz, and Wurth. 2,960,405.
- Dersch, Fritz H. 2,935,404.
- Doorenbos, Norman J. 2,953,561.
- Duggins, William E. 2,950,330.
- Duggins, William E. 2,950,331.
- Duggins, William E. 2,953,492.
- Fowle, Irving H. 2,948,975.
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- Frantz, Frederick H. 2,921,513.
- Frantz, Frederick H. 2,963,635.
- Freyermuth, Harlan B., and Lawsberg. 2,926,987.



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 Herrick, Clifford E., Jr. 2,948,208.  
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 Hessel, Frederick A. 2,946,716.  
 Hoefle, Milton L. 2,953,421.  
 Hoefle, Milton L., Randall, and Renfrew. 2,945,867.  
 Hoefle, Milton L., and Wynn. 2,937,188.  
 Hoffstadt, Walter F. 2,921,851.  
 Hort, Eugene V. 2,950,290.  
 Hort, Eugene V. 2,950,326.  
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 Hort, Eugene V. 2,953,605.  
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 Hosmer, William A. 2,964,447.  
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 Hurlbut, Gordon K. 2,922,645.  
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 Hyatt, Robert C., Mayhew, and Nunn. 2,946,721.  
 Jelinek, Charles F., and Mayhew. 2,941,951.  
 Katz, Leon Gannon, and Brouillard. 2,930,796.  
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 Martin, Tellis A. 2,953,574.  
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 Mautner, Henry R. 2,955,008.  
 Maxcy, William J. 2,919,993.  
 Mayhew, Raymond L., and Williams. 2,955,137.  
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 Mueller, Fritz, W. H., and Larson, Jr. 2,950,972.  
 Normington, James B., Hort, and Freyermuth. 2,964,561.  
 Pechmann, Karl. 2,921,914.  
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 Perry, William M., and Stoner. 2,947,633.  
 Posselt, Frederick W., and Stanley. 2,953,422.  
 Randall, David I. 2,920,978.  
 Resetic, Alfred W. 2,957,765.  
 Riegel, Robert C. 2,955,011.  
 Robinson, Gerald. 2,941,980.  
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 Schadlich, Karl H. 2,925,338.  
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 Schultz, Herman S. 2,962,505.  
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 Stanley, Lester N. 2,921,962.  
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 Strobel, Albert F., Williams, and Wowk. 2,938,896.  
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 Sundberg, Robert L., and Cross. 2,965,678.  
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 Welliver, Lawrence G. 2,943,935.  
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- General Atronics Corp.: *See*—  
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- General Binding Corp.: *See*—  
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- General Bronze Corp.: *See*—  
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- General Cable Corp.: *See*—  
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- General Carbon and Chemical Corp.: *See*—  
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- General Cigar Co., Inc.: *See*—  
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- General Colloidal Carbon, Inc.: *See*—  
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- General Devices, Inc.: *See*—  
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 Anderson, Roy E. 2,935,631.  
 Andrews, John L. 2,954,791.  
 Andrews, Theodore E. 2,930,874.  
 Andrews, Theodore E. 2,953,100.  
 Andrews, Theodore E. 2,959,668.  
 Antrim, William D., Jr., and Kudarski. 2,951,570.  
 Apple, Eugene F. 2,947,704.  
 Apple, Eugene F. 2,947,705.  
 Archer, Claude H. 2,956,137.  
 Arnold, Charles A., and Lind. 2,945,156.  
 Arrison, Robert A., Jr. 2,929,000.  
 Atchison, Leonard W. 2,920,460.  
 Atchison, Leonard W. 2,920,461.  
 Atchison, Leonard W. 2,947,153.  
 Auer, Peter L., and Sharbaugh. 2,945,443.  
 Avery, Ralph W., and Schneider. 2,945,457.  
 Bacon, Carl E. 2,922,058.  
 Baird, Leslie L. 2,961,510.  
 Baird, Leslie L., and Baskerville. 2,961,509.  
 Bakke, Hans A. 2,944,460.  
 Bakke, Hans A., and Stimson. 2,924,144.  
 Bakke, Hans A., and Stimson. 2,952,184.  
 Balcom, Manning, and Swain. 2,936,108.  
 Bangert, Charles, Jr. 2,929,966.  
 Baranowski, Frank, Jr., and Paine. 2,929,571.

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Barkan, Philip. 2,920,607.  
 Barkan, Philip, and Schneider. 2,927,182.  
 Barr, James R. 2,922,542.  
 Barr, James R. 2,942,073.  
 Barr, James R. 2,959,764.  
 Baskerville, Ralph J. 2,938,095.  
 Baskerville, Ralph J., and Chabot. 2,938,986.  
 Bassett, John W. C. 2,944,745.  
 Bassett, Raymond C., Jr. 2,953,668.  
 Baughman, Howard B. 2,961,601.  
 Beck, Francis M., and Burch. 2,923,914.  
 Becker, Eugene C. H., and D'Atre. 2,932,474.  
 Belanger, John W., and Kinnard. 2,927,500.  
 Benander, George B. 2,923,912.  
 Bengelsdorf, Irving S. 2,948,756.  
 Benson, John A., and Pierce. 2,926,495.  
 Bentley, Albert D. 2,933,648.  
 Bentsen, Arthur R. 2,959,656.  
 Bernstein, Stanley. 2,964,633.  
 Beurthelet, Charles A. E. 2,935,305.  
 Beurthelet, Charles A. E. 2,935,306.  
 Binford, Robert S. 2,940,461.  
 Binford, Robert S., Bolgen, Cheeseman, and Wood, Jr. 2,926,246.  
 Bivens, Maurice E. 2,926,250.  
 Bivens, Maurice E. 2,942,598.  
 Blackmer, Richard H. 2,960,744.  
 Blank, John M. 2,929,954.  
 Blatz, Walter L. 2,923,922.  
 Blickensderfer, John A. 2,938,010.  
 Bluestein, Ben A. 2,938,010.  
 Bobo, Melvin. 2,963,307.  
 2,963,082.  
 Bochan, John. 2,920,470.  
 Bochan, John. 2,927,451.  
 Bochan, John. 2,943,474.  
 Bochan, John. 2,950,009.  
 Bochan, John. 2,950,010.  
 Bochan, John. 2,950,613.  
 Bochan, John. 2,959,966.  
 Bochan, John. 2,962,046.  
 Boeing, Walton F. 2,946,202.  
 Boeker, Harold T. 2,951,947.  
 Bolgiano, Ralph, Jr., Hurley, and Kraft. 2,946,044.  
 Bondley, Ralph J. 2,955,229.  
 Bondley, Ralph J. 2,960,759.  
 Boose, Emery F. 2,959,865.  
 Borie, Henry P., Jr. 2,943,798.  
 Boros, Steve. 2,940,582.  
 Bovenkerk, Harold P. 2,941,252.  
 Boyles, Robert L. 2,951,919.  
 Boyles, Robert L., and Winger. 2,946,182.  
 Branch, Garland M., Jr., and Boyd. 2,943,229.  
 Breeding, Harold A., and Martt. 2,950,417.  
 Brinkman, Earl H., and Kahkejian. 2,956,775.  
 Broderick, Edward J., and Doucette. 2,922,255.  
 Broderick, Edward J., and Morrissey. 2,924,636.  
 Brooks, Wesley W., and Strecker. 2,965,986.  
 Brooks, Wesley W., and Strecker. 2,965,799.  
 Broverman, Michael. 2,937,361.  
 Brown, Donald V. 2,928,799.  
 Brown, Donald V. and E. D. Brown, Jr., and Leavitt. 2,928,798.  
 Brown, John F., Jr. 2,924,601.  
 Brown, Robert J. 2,931,429.  
 Brown, Stanley R. 2,952,773.  
 Buckland, Bruce O. 2,920,007.  
 Buechler, William R. 2,934,926.  
 Buesing, Richard T. 2,923,888.  
 Bulger, Donald W. 2,937,358.  
 Bundy, Francis P. 2,941,243.  
 Bundy, Francis P. 2,941,246.  
 Bundy, Francis P. 2,941,247.  
 Bundy, Francis P. 2,947,611.  
 Burch, James R. 2,924,685.  
 Burger, Francis J. P., Jr., and Hilton. 2,930,951.  
 Bussone, Joseph V. 2,947,893.  
 Butler, William L. 2,932,707.  
 Cabaniss, Edward H., and Christensen. 2,932,815.  
 Cady, Charles E. 2,956,161.  
 Cady, Charles E. 2,963,195.  
 Cain, Dallas E., and Pritzlaff. 2,927,556.  
 Camilli, Guglielmo. 2,937,349.  
 Camilli, Guglielmo. 2,958,058.  
 Camilli, Guglielmo, Liao, and Plump. 2,957,938.  
 Camilli, Guglielmo, and Pryde. 2,947,798.  
 Camilli, Guglielmo, and Stover. 2,942,213.  
 Camilli, Guglielmo, and Wilk. 2,942,216.  
 Canada, Alfred H. 2,934,755.  
 Canada, Alfred H., and De Jager. 2,938,378.  
 Canfield, Eugene B. 2,938,091.  
 Cannon, Peter. 2,951,552.  
 Cantrell, Harry N., and Ewing. 2,923,319.  
 Carbary, Richard J. 2,950,139.  
 Carlson, Frank E. 2,924,748.  
 Carpenter, Thomas J. 2,930,924.  
 Carpenter, Thomas J., and Milne. 2,922,914.  
 Carr, Victor H., Frogge, and Klee. 2,942,049.  
 Carr, Victor H., Klee, and Krivanek. 2,942,138.  
 Carson, Robert E. 2,945,158.  
 Carver, Robert G. 2,946,203.  
 Casey, Robert T. 2,925,481.  
 Cavagnaro, William A., Judd, Krzystyniak, and Truesdell. 2,958,016.



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## General Electric Co.: See—Continued

- Chartrand, Carlton F., and Stadthaus. 2,932,223.  
 Chase, Carlton E. 2,935,719.  
 Chausse, Burnette P. 2,930,960.  
 Cheeseman, Herbert L. 2,933,895.  
 Cheney, James E. 2,941,245.  
 Chiera, Jacob A., and Gedrewicz. 2,959,919.  
 Childs, Clayton G., and Connelly. 2,923,847.  
 Chin, Bock M. 2,944,162.  
 Chow, Woo F. 2,921,196.  
 Chow, Woo F., and Suran. 2,930,996.  
 Christensen, Horace H. 2,966,142.  
 Christman, Arthur R., and Schirmer. 2,936,442.  
 Clark, Albert G. 2,942,420.  
 Clark, Burton P., and Corbo. 2,937,828.  
 Clark, Edward B. 2,936,091.  
 Clark, Welmon D., Jr. 2,929,921.  
 Clarke, Clifton A., Jr., McQuarrie, and Scamman. 2,930,979.  
 Cleveland, Donald S. 2,964,954.  
 Coffin, Louis F., Jr. 2,930,918.  
 Coghill, Henry D. 2,936,246.  
 Cole, Quintin P. 2,919,473.  
 Cole, Quintin P. 2,919,474.  
 Cole, Quintin P. 2,936,261.  
 Cole, Quintin P. 2,938,122.  
 Collidge, Arthur W., Jr., and Cobine. 2,930,922.  
 Connor, Thomas J. 2,966,448.  
 Cook, Edward J. 2,939,028.  
 Cook, Edward J. 2,961,571.  
 Cook, Ellsworth D. 2,940,013.  
 Cook, Leonard W., and E. R. Coutant. 2,929,902.  
 Cook, Newell C., and Wolfe. 2,933,374.  
 Cooper, Kenneth K., and Lynch. 2,947,324.  
 Copeland, William M. 2,936,109.  
 Copeland, William M. 2,936,140.  
 Cornell, Richard H. 2,948,150.  
 Corrin, Myron L. 2,948,640.  
 Corson, Almon J. 2,944,215.  
 Corson, Almon J., and Guptill. 2,947,941.  
 Coyne, Gerard G. 2,959,937.  
 Craig, Allen G. 2,944,338.  
 Craig, Robert A., and Zublin. 2,952,795.  
 Crocker, Weyman S., and Lemmerman. 2,932,751.  
 Cronin, Edward F., and Wooldridge. 2,937,359.  
 Cross, Richard N. 2,948,236.  
 Crowley, George C., Holmes, and Wise. 2,959,662.  
 Cummins, Robert K. 2,924,046.  
 Cusano, Dominic A. 2,957,940.  
 Cusano, Dominic A., and Studer. 2,958,002.  
 Custin, Thomas G. 2,950,451.  
 Custin, Thomas G., and Smith. 2,949,584.  
 Cutler, Myron A., and Turton. 2,938,096.  
 Cypher, George A., and Cohen. 2,959,564.  
 Dahlgren, John A., and Andriot. 2,955,441.  
 Danforth, Clarence E. 2,937,849.  
 Darrel, Bernard, and Szpak. 2,966,429.  
 Darrow, Kenneth A., and Johnson. 2,933,237.  
 Dash, William C. 2,961,305.  
 Davey, Peter E. 2,928,589.  
 Davidson, William E. 2,923,960.  
 Davis, Paul B., O'Neill, Slomski, and Speros. 2,957,231.  
 Day, Harold R., Jr. 2,928,895.  
 Day, Harold R., Jr. 2,951,899.  
 Day, Harold R., Jr., and Wargo. 2,922,906.  
 Debner, Sandy A., and Francis. 2,942,314.  
 Dehn, Rudolph A. 2,961,562.  
 De Santis, Vincent J., and Affleck. 2,945,150.  
 De Santis, Vincent J., Manfredi, and Nolte. 2,934,392.  
 Dickey, Fred E., and Coppinger. 2,954,522.  
 Diehl, Max H. 2,929,998.  
 Diehl, Max H., and Martin. 2,958,825.  
 Dierstein, Roy H. 2,945,205.  
 Dillon, Eugene F. 2,939,811.  
 Dills, Raymond L. 2,935,244.  
 Dinger, Edward H. 2,964,691.  
 Dochterman, Richard W. Re. 24,909.  
 Dome, Robert B. 2,951,900.  
 Dome, Robert B. 2,954,464.  
 Dougherty, Charles R. 2,946,922.  
 Downie, John W. 2,952,770.  
 Dutton, John C., and Barr. 2,931,009.  
 Edholm, Rolf G. 2,957,079.  
 Edwards, Carleton C. 2,958,023.  
 Eggenberger, Markus A. 2,926,680.  
 Elbinger, Lewis P. 2,927,303.  
 Ellis, Charles R. 2,929,033.  
 Englund, Arvid E., Jr. 2,956,240.  
 Ericson, Eric A. 2,921,146.  
 Ericson, Eric A. 2,937,254.  
 Ericson, Eric A. 2,959,765.  
 Etherington, Theodore L. 2,951,349.  
 Etherington, Theodore L., and Cannon. 2,951,350.  
 Evans, Howard J. 2,920,232.  
 Evans, Howard J. 2,951,179.  
 Fank, Frederick B. 2,936,397.  
 Farrell, Robert P., Jr. 2,938,715.  
 Fasoli, Leland S., and Ringwood. 2,920,384.  
 Feiertag, Karl M., and Neuls. 2,957,665.  
 Fiedler, Howard C., and Piv. 2,939,810.  
 Fischer, Albrecht G. 2,938,136.  
 Fisher, Frank J., and Park. 2,930,997.  
 Fisher, Lawrence E. 2,948,771.  
 Fitzgerald, Albert J. 2,923,038.  
 Fitzpatrick, James P. 2,926,264.  
 Fohrhaltz, Howard A., Hasko, and Ochs. 2,927,781.  
 Foley, Leroy E., Jr., and Watson. 2,962,236.  
 Foley, Thomas P. 2,928,145.  
 Foley, Thomas P. 2,932,545.  
 Foote, Lawrence R. 2,958,814.  
 Fox, Daniel W., and Zavist. 2,935,487.  
 Fox, Robert S. 2,957,995.  
 Francis, Wallace R., Mapelsden, and Feber. 2,947,966.  
 Frank, Edward J. 2,931,869.  
 Freeman, Arthur H. 2,954,451.  
 Freitag, Byron E., Burggraf, and Porter. 2,920,549.  
 Fridrich, Elmer G., and Dell. 2,945,976.  
 Fries, John H., Jr. 2,950,607.  
 Froelich, Herman C. 2,950,257.  
 Gabrielson, Samuel. 2,922,689.  
 Gaines, George L., Jr., and Bueche. 2,948,329.  
 Gallagher, Charles J. 2,957,974.  
 Garber, Samuel M., Jr., Walker, and True. 2,937,239.  
 Gardiner, Emmett G. 2,955,350.  
 Gatzemeyer, Jacob B., Berkey, and Loft. 2,936,028.  
 Gaynor, Frank A., and Marx. 2,932,472.  
 Gaysowski, Joseph J. 2,946,733.  
 Geller, Harry. 2,959,357.  
 Gethmann, Richard B. 2,925,542.  
 Ghandhi, Sorab K. 2,954,476.  
 Gibson, Van R., Jr. 2,950,344.  
 Glasser, Thomas H., and Klint. 2,948,506.  
 Glenn, William E. 2,961,244.  
 Glenn, William E., Jr. 2,943,147.  
 Glenn, William E., Jr. 2,957,942.  
 Godbarsen, Robert, Jr. 2,943,198.  
 Goldberg, Jacob, Cox, Kautz, and Adams. 2,920,820.  
 Goldblum, Kenneth B. 2,945,817.  
 Goldblum, Kenneth B. 2,950,266.  
 Goldman, Richard G. 2,961,608.  
 Goldman, Richard G. 2,961,612.  
 Good, William E. 2,951,114.  
 Goodman, Gilbert. 2,961,327.  
 Goodman, Robert F. 2,930,964.  
 Gordy, Thomas D. 2,922,972.  
 Gottschalk, Klaus. 2,965,698.  
 Grattidge, Walter, and Beggs. 2,961,352.  
 Grattidge, Walter, and Muller. 2,943,957.  
 Graves, Donald E. 2,958,782.  
 Grieger, Paul W., and McCabe. 2,940,745.  
 Griffin, Gerald J., Jr., Watson, Migliore, and Hodges. 2,930,933.  
 Grimes, Emory H., Jr. 2,946,274.  
 Grubb, Willard T., Jr. 2,933,547.  
 Guarnier, Maurice. 2,927,230.  
 Guernsey, Roscoe, Jr. 2,966,673.  
 Gundert, Eberhard. 2,923,844.  
 Gurewitsch, Anatole M., and Pollock. 2,925,214.  
 Hahn, Donald E. 2,929,905.  
 Hahn, Donald E. 2,958,754.  
 Hall, Robert N. 2,922,934.  
 Hammerly, Herman J., and Nadeau. 2,953,661.  
 Hannam, Herbert J. 2,922,907.  
 Hardwick, George J. 2,961,285.  
 Harman, Ward A. 2,962,620.  
 Harnden, John D., Jr. 2,961,580.  
 Harriman, Herbert A., and Paine. 2,924,769.  
 Harse, Douglas H. 2,956,250.  
 Harton, Lynn M. 2,960,674.  
 Hay, Allan S. 2,920,087.  
 Heerlein, William J. 2,960,093.  
 Heerlein, William J., and Thompson. 2,960,375.  
 Heil, Hans. 2,925,524.  
 Heitmann, Arnold M. 2,927,590.  
 Hemsworth, Martin C. 2,932,440.  
 Hemsworth, Martin C. 2,955,744.  
 Henshaw, Wallace H., Jr. 2,920,469.  
 Henshaw, Wallace H., Jr. 2,955,449.  
 Henshaw, Wallace H., Jr. 2,959,042.  
 Hermann, Benjamin R. 2,961,518.  
 Hill, Harold C. 2,959,433.  
 Hodges, Merwyn E., and Koss. 2,922,109.  
 Hoffman, Herbert N. 2,964,929.  
 Hoffman, Mary V. 2,957,829.  
 Hopkins, Earl E. 2,930,515.  
 Hoppin, George S., III. 2,923,621.  
 Horsch, James R. 2,962,657.  
 Horsch, James R. 2,962,700.  
 Howell, Edward D., and Farrell. 2,930,597.  
 Hughes, Edward L. 2,927,624.  
 Hughes, Philip G. 2,961,776.  
 Hume, Roger E. 2,965,800.  
 Hummel, Floyd A. 2,961,412.  
 Hurt, William C., Jr. 2,958,931.  
 Hutt, Philip. 2,921,147.  
 Hutzler, John R. 2,922,937.  
 Jacobs, John E. 2,922,887.  
 Jacobs, John E. 2,951,898.  
 Jacobs, John E. 2,960,616.  
 Jacobs, John E. 2,960,634.  
 Jacobs, Stephen. 2,929,389.  
 Jaffe, Mary S., and Levatan. 2,951,865.  
 Jakubowski, Jan K. 2,962,683.  
 Janos, Alfred G. 2,920,377.  
 Jaramillo, Edward V. 2,930,193.  
 Jarvie, Alexander G., and Hall. 2,958,059.  
 Jernakoff, George. 2,957,141.



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Johnson, Joseph F. 2,953,650.  
 Johnson, Joseph F., and Veitch. 2,934,679.  
 Johnson, Richard M., and Loft. 2,933,894.  
 Johnson, Robert H. 2,930,192.  
 Johnson, Robert H., and Nial. 2,966,028.  
 Johnston, Donald L., and Cronin. 2,930,841.  
 Johnston, Donald L., and Roy. 2,930,832.  
 Jones, Daniel J. 2,927,249.  
 Jones, Daniel J., and Piccone. 2,954,444.  
 Jones, William H., and Costas. 2,951,980.  
 Judd, Edwin B., and Young. 2,921,169.  
 Haase, Allen P. 2,946,915.  
 Hadley, Robert L. 2,948,687.  
 Haines, Edward M., and Hughes. 2,934,913.  
 Hall, Howard T. 2,941,242.  
 Hall, Howard T. 2,941,248.  
 Hall, Howard T. 2,941,250.  
 Hall, Howard T. 2,944,289.  
 Hall, Howard T. 2,947,608.  
 Hall, Howard T., Strong, and Wentorf. 2,947,610.  
 Hall, Robert N. 2,936,256.  
 Hamm, Clarence L., and Widlansky. 2,943,873.  
 Hanna, John P. 2,943,908.  
 Harse, Douglas H. 2,942,127.  
 Haviland, Robert F. 2,935,843.  
 Hay, Arthur C. 2,943,163.  
 Heil, Hans. 2,947,898.  
 Henry, George E. 2,938,669.  
 Henshaw, Wallace H., Jr. 2,950,612.  
 Henshaw, Wallace H., Jr., and Houser. 2,934,925.  
 Hibbard, Walter R., Jr., and Walter. 2,940,882.  
 Hobbs, George W. 2,940,669.  
 Hobson, Charles F., Jr. 2,939,929.  
 Hodge, William F. 2,945,978.  
 Hodges, Merwyn E. 2,939,088.  
 Holdstock, Norman G. 2,937,994.  
 Holdstock, Norman G., and Brown. 2,937,995.  
 Hollomon, John H. 2,940,881.  
 Hoppe, John G. 2,938,313.  
 Houser, Philip H. 2,946,212.  
 Houser, Philip H., and Besse. 2,943,740.  
 Hughes, Lawrence M. 2,941,141.  
 Hull, Albert W. 2,943,251.  
 Hull, Edwin H. 2,948,355.  
 Jackson, Stuart P., and Barker. 2,942,165.  
 Jackson, Stuart P., and Power. 2,936,409.  
 Jacobs, John E. 2,938,003.  
 Jacobs, John E., and Berger. 2,939,027.  
 Jacoby, Joseph F. 2,941,176.  
 Jahnke, Louis P., and Pohlman. 2,945,758.  
 Jayne, Frank J., and Honeycutt. 2,950,413.  
 Jencks, Charles L. 2,938,980.  
 Jennings, Gresham N. 2,946,409.  
 Johnson, Frithiof V. 2,942,475.  
 Johnson, Lloyd W., and Klee. 2,942,046.  
 Johnson, Peter D. 2,948,184.  
 Judd, Winston R. 2,940,564.  
 Kaestle, Francis L. 2,929,963.  
 Kalikow, Irving. 2,924,979.  
 Kaminski, Joseph, Jr., and McCoy. 2,930,839.  
 Kaminski, Joseph, Jr., and McCoy. 2,937,225.  
 Kaminski, Joseph, Jr., McCoy, and Nauman. 2,937,226.  
 Kann, Myron. 2,919,736.  
 Kann, Myron. 2,922,456.  
 Kappus, Peter G. 2,932,468.  
 Kappus, Peter G. 2,936,973.  
 Karash, Walter J. 2,958,007.  
 Kaskan, Walter E., and Moreau. 2,919,550.  
 Katz, Harold W. 2,949,585.  
 Katzen, Jack. 2,951,421.  
 Kaye, Anthony J. 2,961,138.  
 Kelley, Fred W., Jr. 2,966,625.  
 Kelling, Leroy U. C. 2,945,957.  
 Kellogg, Harry L. 2,953,736.  
 Kellogg, Harry L. 2,960,647.  
 Kemeny, Julius. 2,962,903.  
 Kemnitz, Warren N. 2,960,716.  
 Kenty, Carl. 2,961,564.  
 Kernander, Warren N., and Van Bennekom. 2,944,131.  
 Kiesler, Allan J. 2,951,272.  
 Kilian, Rudolph R., and Barnett. 2,963,632.  
 Kirscht, Arthur A., and Klee. 2,942,048.  
 Kizaur, Arthur J. 2,966,588.  
 Klapper, John J., and Smith. 2,944,380.  
 Klee, David J. 2,941,821.  
 Klee, David J. 2,942,047.  
 Klee, David J. 2,942,139.  
 Klein, Keith W., and Muttl. 2,921,149.  
 Klein, Leon. 2,948,843.  
 Klint, Robert V. 2,930,581.  
 Klint, Robert V., and Nerad. 2,933,286.  
 Kohn, Leo S., and Horner. 2,962,410.  
 Kohn, Leo S., and Marshall. 2,922,734.  
 Koller, Lewis R. 2,948,635.  
 Koller, Lewis R. 2,957,787.  
 Kooiker, Paul I. 2,927,442.  
 Koss, Norman A. 2,920,242.  
 Kotsch, William E. 2,924,736.  
 Kouvel, James S., and Graham. 2,961,360.  
 Krause, Lloyd O. 2,953,786.  
 Kronson, Harry, Jr. 2,953,850.  
 Krupp, Anton M., Divoky, and Elrick. 2,922,137.  
 Kuckro, Gerard W. 2,922,804.

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Kuebler, Robert A. 2,961,633.  
 Kuecken, John A. 2,961,659.  
 Kugler, Lewis A. 2,965,213.  
 Kurtz, Henry J., and Miles. 2,948,797.  
 Kyhl, Robert L. 2,934,719.  
 Ladusaw, William T. 2,920,459.  
 Lafferty, James M. 2,944,179.  
 Lafferty, James M. 2,957,741.  
 Lake, William H. 2,930,872.  
 Lake, William H., and Kastner. 2,930,873.  
 Larew, John J. 2,947,876.  
 Larew, John J., Burt, and Shepard. 2,962,598.  
 Lawton, Elliott J. 2,948,666.  
 Lechthaler, Louis H., Feinberg, and Whited. 2,931,625.  
 Leeds, Laurance M. 2,935,644.  
 Leighton, Leroy G. 2,933,632.  
 Lemmerman, Harold H. P. 2,931,999.  
 Lemmerman, Harold H. P. 2,965,763.  
 Lemmerman, Harold H. P., and Crocker. 2,935,677.  
 Lemmerman, Harold H. P., and Crocker. 2,945,173.  
 Lemmers, Eugene. 2,961,565.  
 Lemmers, Eugene. 2,965,789.  
 Lemmers, Eugene, and Aicher. 2,950,410.  
 Lennox, Thomas H., and Alois. 2,942,223.  
 Lester, William N., and Shaw. 2,956,138.  
 Levin, Maynard D. 2,932,712.  
 Levine, Harvey. 2,938,990.  
 Levine, Harvey, and Gerry. 2,963,569.  
 Lewis, Ernest E. 2,931,375.  
 Lewis, Ernest E., and Granan. 2,929,212.  
 Lezan, Georges R. E. 2,930,961.  
 Liao, Tseng W., and Boice. 2,941,143.  
 Liao, Tseng W., and Musick. 2,943,134.  
 Libby, Henry T. 2,966,575.  
 Lichtenfels, Ira W. 2,926,759.  
 Lien, Gunder, Jr. 2,962,684.  
 Lillie, David W. 2,951,801.  
 Lillie, David W., and Fullman. 2,961,359.  
 Lingel, Frederick J. 2,959,975.  
 Livingston, Orrin W. 2,946,993.  
 Loewenthal, Henry J. 2,955,442.  
 Loewenthal, Henry J. 2,963,885.  
 Loewenthal, Henry J., and Harle. 2,940,276.  
 Lord, Harold W. 2,937,331.  
 Lord, Harold W. 2,958,806.  
 Loudon, Victor J. 2,945,171.  
 Lovinger, Daniel. 2,965,808.  
 Low, Frank D. 2,934,074.  
 Lucas, Glennard R. 2,938,009.  
 Lyman, Richard E. 2,942,044.  
 Maher, Richard T., and Torossian. 2,962,613.  
 Maier, Leonard C., Jr., Keister, Lester, and Walker. 2,958,735.  
 Malinowski, Richard F., and Vodicka. 2,946,911.  
 Malm, Robert N., and Vodicka. 2,945,327.  
 Manfredi, Robert E. 2,957,997.  
 Manke, Arthur G., and Bazydlo. 2,944,222.  
 Manteuffel, Erich W. 2,957,122.  
 Mapelsden, George C., and Cowe. 2,947,968.  
 Marinace, John C. 2,928,162.  
 Marks, Louis W. 2,947,958.  
 Martinelli, Raymond C., and Miller. 2,948,516.  
 Martt, Ernest C., Beeninga, and Smialek. 2,924,731.  
 Marvin, Henry H., Jr. 2,935,859.  
 Marx, Michael F. 2,941,139.  
 Mason, Harvey W., and Alford. 2,957,675.  
 Mason, Lowell M. 2,934,099.  
 Mason, Lowell M. 2,934,280.  
 Mathes, Kenneth N., and Morgan. 2,929,744.  
 McCauley, Arthur, Jr., and Shackelford. 2,944,399.  
 McKissock, George D. 2,924,375.  
 McMillan, Stephen L., and Massa. 2,961,843.  
 Meacham, John W., and Turton. 2,938,971.  
 Mead, Milton S. 2,961,606.  
 Mead, Milton S., Jr. 2,924,754.  
 Meese, George E. 2,951,735.  
 Merritt, Philip E., and Steele. 2,924,812.  
 Metzger, Matt F. 2,961,860.  
 Miller, Alexander A. 2,945,792.  
 Miller, Edward H. 2,955,429.  
 Miller, Louis E. 2,952,816.  
 Miller, Nairn L., and Hammerly. 2,922,004.  
 Millis, Walter T. 2,937,306.  
 Miner, Carroll R. 2,936,630.  
 Minnici, Salvatore, and Elssmann. 2,961,508.  
 Mitick, Stanley R., Jr. 2,953,664.  
 Moody, Charles W., Neff, Gray, and Kettler. 2,947,065.  
 Morgan, Raymond E. 2,938,159.  
 Morgan, Raymond E. 2,948,844.  
 Morong, William H., Jr. 2,947,942.  
 Morrill, Weston. 2,962,277.  
 Morrissey, William M., Jr., and Pulaski. 2,962,337.  
 Mosward-Jensen, Jens. 2,963,779.  
 Munn, Jay A., Schweikert, Sphar, and Berning. 2,944,331.  
 Munro, John F. 2,948,317.  
 Nash, Cleve C. 2,921,189.  
 Nason, Harold A. 2,960,217.  
 Nelsen, Ronald N. 2,939,808.  
 Nelson, John D. 2,938,822.  
 Nelson, Russell A., and Zirinsky. 2,937,101.  
 Nerad, Anthony J., and Johnson. 2,948,117.  
 Neumann, Gerhard. 2,933,234.  
 Neumann, Gerhard. 2,933,235.



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Neurath, Peter W. 2,920,296.  
 Newton, Walter H. 2,943,598.  
 Nolan, Terence C. 2,921,576.  
 Nonomaque, Clyde J. 2,928,256.  
 Nonomaque, Clyde J. 2,961,848.  
 Norgaard, Donald E. 2,940,056.  
 Novak, Warren D. 2,932,810.  
 Nylander, Arnold L. 2,948,853.  
 Oakes, William S. 2,965,839.  
 Oliver, Robert R. 2,919,891.  
 Olthuis, Eugene G. 2,927,380.  
 Olthuis, Eugene G. 2,955,448.  
 Omohundro, William A., and Reisch. 2,927,757.  
 Osthoff, Robert C. 2,942,940.  
 Outt, John R. 2,944,250.  
 Painter, Delbert J. 2,943,472.  
 Pakish, Anthony E., Penca, and Langer. 2,932,877.  
 Paley, James J., and Rettig. 2,955,233.  
 Palmer, Ansell W. 2,922,953.  
 Pan, Paul M. 2,950,479.  
 Pan, Paul M. 2,951,996.  
 Parks, Herman D., and Porter. 2,935,844.  
 Parsons, John M. 2,934,964.  
 Parsons, John M. 2,941,827.  
 Paulson, Elmir E. 2,922,618.  
 Paynter, Donald A. 2,924,744.  
 Payton, Robert J. 2,959,035.  
 Peaslee, Lawrence R. 2,922,052.  
 Peaslee, Lawrence R. 2,937,365.  
 Pell, Erik M. 2,957,789.  
 Pell, Erik M. 2,958,022.  
 Penca, Frank A. 2,940,742.  
 Perry, John R. 2,947,176.  
 Pertwee, Kenneth S. G. 2,961,568.  
 Peters, Philip H., Jr. 2,928,987.  
 Petley, Joseph E. 2,922,938.  
 Phaneuf, Edgar A. 2,920,438.  
 Phillips, Virgel E. 2,927,986.  
 Piekarski, Leon T. 2,961,407.  
 Pietrasz, Janislaw P. 2,921,647.  
 Pieteo, Benjamin A., Jr. 2,961,501.  
 Pike, Carl L. 2,960,059.  
 Pincus, Alexis G. 2,934,667.  
 Pincus, Alexis G. 2,962,136.  
 Pinder, James M. 2,920,493.  
 Pinter, George, and Chereih. 2,943,643.  
 Pinter, George R. 2,955,439.  
 Piper, William W. 2,932,879.  
 Piper, William W. 2,944,177.  
 Pirtle, John C. 2,961,150.  
 Pool, Creighton E. 2,927,450.  
 Popa, John. Re. 24,823.  
 Porter, William A., and Good. 2,964,903.  
 Powell, David B. 2,930,020.  
 Powell, David B. 2,959,649.  
 Powers, James H. 2,932,713.  
 Precopio, Frank M., and Fox. 2,936,296.  
 Pritchard, Peter E. 2,937,243.  
 Prober, Maurice. 2,945,838.  
 Prout, John W., Sheehan, and Reid. 2,943,182.  
 Prucha, Richard V. 2,943,638.  
 Pulaski, John W., and Gordon. 2,955,892.  
 Rankin, Andrew W. 2,959,393.  
 Raper, John A. A. 2,955,171.  
 Raper, John A. A., and Stern. 2,937,343.  
 Rague, Vernon F. 2,940,026.  
 Rausch, Robert H. 2,956,125.  
 Raymond, Kenneth W. 2,931,784.  
 Reardon, John W. 2,921,821.  
 Re, Vito. 2,957,329.  
 Redington, Rowland W., and Van Heerden. 2,928,971.  
 Reid, James W. 2,964,678.  
 Reinert, Raymond L. 2,957,813.  
 Reisch, George J. 2,927,956.  
 Revercomb, Henry E. 2,950,342.  
 Rex, Charles H. 2,945,945.  
 Rhoades, John M. 2,927,536.  
 Rhodes, Junior I. 2,962,668.  
 Rich, Joseph A. 2,934,671.  
 Rich, Theodore A. 2,938,423.  
 Rich, Theodore A. 2,948,814.  
 Rich, Theodore A. 2,956,435.  
 Rich, Theodore A. 2,960,869.  
 Roberson, Harvey L. 2,928,653.  
 Roberts, John A. 2,959,954.  
 Roberts, Shepard. 2,943,232.  
 Rocha, Henrique A. F. 2,957,340.  
 Roche, Jean A. F., and Schexnaydre. 2,963,859.  
 Rook, Lawrence E. 2,947,842.  
 Rose, Stanley E., and Heimo. 2,950,667.  
 Roth, Walter, and Grande. 2,928,977.  
 Rouault, Charles L. 2,938,081.  
 Rutkowski, Walter J. 2,961,569.  
 Safford, Moyer M., and Corrin. 2,928,801.  
 Safford, Moyer M., and Myers. 2,924,559.  
 Sampson, Ernest S. 2,943,307.  
 Sampson, Ernest S., and Anderson. 2,951,360.  
 Samsel, Richard W. 2,945,208.  
 Samsel, Richard W., and Madison. 2,924,970.  
 Samsel, Richard W., and Peterson. 2,928,068.  
 Sasnett, Russell M., and Guth. 2,959,179.  
 Saum, George A., and Redington. 2,947,896.  
 Savage, Richard M. 2,938,007.

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Scamman, John F., Landry, and Jewell. 2,930,980.  
 Schaefer, Vincent J. 2,924,535.  
 Scherl, Ely. 2,960,821.  
 Schilling, Thomas L. 2,936,586.  
 Schirmer, Paul W. 2,940,069.  
 Schlee, Matthew. 2,959,762.  
 Schmall, Wilbur A. 2,920,551.  
 Schmall, Wilbur A., De Mott, and Kropp. 2,920,550.  
 Schmitt, Roland W., and Fiske. 2,935,694.  
 Schmitz, John V. 2,924,585.  
 Schmitz, John V. 2,933,473.  
 Schmitz, John V., and Lawton. 2,921,006.  
 Schneider, Harold N. 2,927,181.  
 Schneider, Harold N. 2,949,520.  
 Schneider, Harold N., and Pearce. 2,964,679.  
 Schultz, Frederick E. 2,929,208.  
 Schultz, Harry E. 2,951,971.  
 Schultz, Warner W. 2,944,146.  
 Schumacher, Frank A. 2,940,279.  
 Scully, Thomas J. 2,962,573.  
 Seaman, Lewis T. 2,959,866.  
 Seigle, William R. 2,924,195.  
 Shapiro, Henry. 2,922,620.  
 Shapiro, Henry, Martin, and Foster. 2,928,652.  
 Sheldon, Luther M. 2,955,276.  
 Sheldon, Luther M. 2,946,977.  
 Shelton, Winston L. 2,934,928.  
 Shelton, Winston L. 2,935,079.  
 Shepard, Wayland L. 2,949,500.  
 Sheppard, Raymond. 2,955,003.  
 Shipley, Eugene E. 2,935,869.  
 Shipley, Eugene E. 2,943,463.  
 Sholtes, George T., and Maney. 2,946,286.  
 Sias, Frederick R. 2,946,974.  
 Silverman, Bernard. 2,923,834.  
 Sindy, Clarence F., Kolda, and Billson. 2,960,762.  
 Skinker, Murray F. 2,920,430.  
 Slade, Eugene E. 2,946,928.  
 Sloan, Rollin J., and Owen. 2,931,935.  
 Slonneger, John L. 2,920,486.  
 Smigo, William. 2,961,122.  
 Smile, Hamad J., and Paulson. 2,963,268.  
 Smith, Andrew N., Petersen, and Oliver. 2,919,890.  
 Smith, Arthur M. 2,932,542.  
 Smith, Austin W., and Schmerheim. 2,960,949.  
 Smith, John W., and Zeissler. 2,959,699.  
 Smith, Robert M. 2,920,337.  
 Smith, Robert M. 2,950,497.  
 Smith, Sidney R., Jr. 2,937,253.  
 Snell, Jacob K., Rogers, and Rhoades. 2,957,623.  
 Snell, James H., Jr., Charewicz, and Lucek. 2,959,704.  
 Snyder, Russell B. 2,961,342.  
 Soileau, Trasimond A., Jr. 2,964,664.  
 Solheim, Karsten. 2,922,997.  
 Solley, Douglas A., Jr. 2,934,918.  
 Somes, Frederick J., Jr. 2,931,097.  
 Somes, Frederick J., Jr. 2,953,342.  
 Somes, Frederick J., Jr. 2,953,626.  
 Sonder, Gerhard. 2,948,505.  
 Spalding, David P., and Mackey. 2,937,580.  
 Spaller, Albert L. 2,957,276.  
 Speicher, William. 2,942,558.  
 Spicer, Hugh C., and Hammond. 2,933,633.  
 Spitzer, Charles F. 2,960,613.  
 Staak, Julius H. 2,936,947.  
 Staak, Julius H. 2,953,028.  
 Staak, Louis E. 2,960,371.  
 Stadthaus, Kurt R., Bobo, and Schaefer. 2,944,326.  
 Starkey, Neal E., and Pierce. 2,942,790.  
 Stephens, Joe F. 2,948,827.  
 Stern, Arthur P. 2,920,132.  
 Stern, Arthur P. 2,929,887.  
 Stern, Hansloerg. 2,958,295.  
 Sternlicht, Beno. 2,961,277.  
 Stewart, Vincent N. 2,943,295.  
 Stoddard, Edgar S. 2,920,969.  
 Stoddard, Edgar S. 2,938,849.  
 Stoddard, Herbert A., Morton, and Howison. 2,957,228.  
 Stone, Aidan M. 2,955,608.  
 Stone, Aidan M. 2,959,044.  
 Stone, Aidan M. 2,963,159.  
 Stone, Aidan M., and Belcher. 2,919,568.  
 Storm, Herbert F., and Livingston. 2,958,044.  
 Stout, Virgil L., and Gibbons. 2,926,981.  
 Stracker, Charles E. 2,945,987.  
 Strang, Donald P., and Garvey. 2,947,894.  
 Stratton, Jerry L. 2,962,679.  
 Strecker, Charles E. 2,938,144.  
 Strecker, Charles E. 2,940,008.  
 Strecker, Charles E. 2,960,624.  
 Strecker, Charles E. 2,962,629.  
 Street, George, Jr. 2,923,526.  
 Strobel, Rudolph W., and Potter. 2,922,863.  
 Strong, Herbert M. 2,941,241.  
 Strong, Herbert M. 2,941,251.  
 Strong, Herbert M. 2,947,609.  
 Suits, Chauncey G. 2,947,891.  
 Sullivan, Earle C. 2,950,375.  
 Sullivan, Gerald L. 2,953,732.  
 Sullivan, Raymond J. 2,930,305.  
 Sullivan, Robert J., McHugh, and Wolfson. 2,929,204.  
 Summerhayes, Harry R., Jr. 2,935,617.  
 Suran, Jerome J., and Reibert. 2,963,593.



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- Szymalak, Edward. 2,959,457.  
 Tarleton, Frederic L., and Simms. 2,949,715.  
 Taylor, Charles L. 2,942,137.  
 Taylor, Hamilton D. 2,960,360.  
 Taylor, Robert B. 2,960,631.  
 Terry, Paul V. 2,930,860.  
 Terry, Paul V. 2,957,743.  
 Thal, Herbert L., Jr. 2,940,007.  
 Thompson, Paige W., and Tupper. 2,958,908.  
 Thompson, Raymond C. 2,939,612.  
 Titterington, William A. 2,924,424.  
 Titus, Albert C. 2,946,907.  
 Titus, Albert C. 2,959,698.  
 Tolbert, Joseph A. 2,933,596.  
 Tompkins, Russell E., and Edgar. 2,951,569.  
 Torkildsen, Robert A. 2,956,172.  
 Toscher, Sol. 2,958,121.  
 Towne, Allen N. 2,961,555.  
 Tracy, James F. 2,947,927.  
 Treanor, Edward D. 2,960,756.  
 Trotta, Francis D. 2,947,488.  
 Truesdell, Francis W., and Baker. 2,922,853.  
 Trumpler, Henry A. 2,930,940.  
 Turner, Wilson R. 2,966,609.  
 Tupper, Myron D., and Feiertag. 2,959,696.  
 Vacval, John A. 2,920,615.  
 Van Billard, Lewis H. 2,961,959.  
 Van der Grinten, Willem J., and Mohler. 2,928,890.  
 Vanderslice, Thomas A. 2,927,240.  
 Van Dien, Roland M. 2,922,067.  
 Vance, Henry E. 2,961,556.  
 Van Dine, Cletus R. 2,964,307.  
 Van Luik, Frank W., Jr. 2,962,265.  
 Van Wie, Robert G., and Gatzemeyer. 2,958,196.  
 Vienneau, Jacob J., and Beardsley. 2,937,352.  
 Von Hoorn, Fred G. 2,952,420.  
 Vostovich, Joseph E., and Bailey. 2,930,083.  
 Walch, Kurt R. 2,923,510.  
 Walch, Kurt R., and Winsness. 2,946,929.  
 Wales, Richard N. 2,957,817.  
 Walker, Charles S. 2,943,305.  
 Walker, Benjamin G. 2,952,745.  
 Walkoe, Kenneth H. 2,922,018.  
 Wall, Robert L. 2,953,697.  
 Wall, Robert L. 2,956,186.  
 Walsh, Edward J. 2,945,290.  
 Walter, John L., and Fisher. 2,943,007.  
 Washburn, Frederick L., Jr. 2,925,516.  
 Watrous, Donald L. 2,927,502.  
 Watters, Clarence J. 2,963,602.  
 Watters, Robert L. 2,958,046.  
 Webber, Stanley E. 2,941,112.  
 Weeks, Frank E. 2,939,331.  
 Weeks, Walter R. 2,932,715.  
 Weininger, Joseph L. 2,933,546.  
 Welch, Stanley B. 2,921,174.  
 Wendt, Harry C., and Haskell. 2,946,226.  
 Wentorf, Robert H., Jr. 2,941,244.  
 Wentorf, Robert H., Jr. 2,941,861.  
 Wentorf, Robert H., Jr. 2,947,034.  
 Wentorf, Robert H., Jr. 2,947,617.  
 Westendorp, Willem F. 2,939,086.  
 Westendorp, Willem F. 2,961,561.  
 Whitehead, Harold S. 2,924,023.  
 Widlansky, William. 2,924,407.  
 Wiggin, Joseph F. 2,949,561.  
 Wilbur, Donald A. 2,928,986.  
 Wilbur, Donald A. 2,930,046.  
 Wiley, Emmett H. 2,938,149.  
 Wilkes, Gordon B., Jr. 2,929,546.  
 Williams, Ferd E. 2,928,975.  
 Williams, Ferd E. 2,928,980.  
 Willits, Glenn D. 2,934,739.  
 Willyoung, David M. 2,951,954.  
 Wilson, Myron S. 2,937,820.  
 Wilson, Walter R. 2,931,951.  
 Winestock, Theodore L. 2,947,487.  
 Winkler, Bernard C., and Jasheway. 2,937,850.  
 Winn, Hugh, and Levy. 2,937,597.  
 Winn, Oliver H. 2,945,179.  
 Wollerton, Charles E. 2,921,238.  
 Wood, Winchester R. 2,956,187.  
 Woodward, Stewart A. 2,947,825.  
 Wormuth, Wilbur J. 2,938,011.  
 Worsham, James E., and Stent. 2,936,585.  
 Worst, Joseph C. 2,943,473.  
 Worst, Joseph C. 2,961,861.  
 Wotring, Gaylord H. 2,921,150.  
 Yoler, Yusuf A. 2,937,523.  
 Yoler, Yusuf A. 2,951,659.  
 York, Harold E. 2,955,349.  
 Yu, Se P., and McNary. 2,965,797.  
 Zelt, Elmer J. 2,924,639.  
 Zierdt, Conrad H., Jr. 2,960,418.  
 Zimmerman, William F., and Haackl. 2,966,421.  
 Zublin, Kurt E., and Craig. 2,939,993.  
 Zublin, Kurt E., and Craig. 2,939,996.  
 Zuerker, Siegfried J. 2,922,850.  
 Zuerker, Siegfried J. 2,924,290.  
 Zunick, Michael J. 2,922,904.  
 Zunick, Michael J. 2,926,270.  
 Zunick, Michael J., and Mahn. 2,923,845.
- General Electric Co. Ltd., The: See—  
 Archer, Frederick C. 2,965,775.  
 Becket, Frederick J., Bury, and Smith. 2,932,953.  
 Beesley, John H. 2,953,749.  
 Blakelock, Harold D. 2,929,751.  
 Bowtell, James N., and Moore. 2,935,825.  
 Bradshaw, Stanley E., and Mlavsky. 2,935,478.  
 Breadner, Robert L., and Simms. 2,922,256.  
 Briden, Horace. 2,945,384.  
 Bryden, Joseph E. 2,920,271.  
 Connell, Leslie J. C. 2,933,663.  
 Connell, Leslie J. C. 2,965,818.  
 Dale, Brian. 2,953,438.  
 Davies, Ian F., and Vickery. 2,964,676.  
 Fairbairn, Eric P. 2,933,560.  
 Gordon, Geoffrey. 2,965,299.  
 Gossling, Brian S. 2,955,076.  
 Gumbrell, Michael. 2,934,725.  
 Harling, Denis W. 2,937,344.  
 Hicks, Raymond. 2,955,689.  
 Jenkins, Henry G., and Williams. 2,965,778.  
 Knott, Ralph D., Sower, and Young. 2,939,204.  
 Lindley, Peter A. 2,953,511.  
 Medford, Albert E., and Griffith. 2,965,752.  
 Murray, George. 2,942,206.  
 Nixon, Ralph D. 2,964,672.  
 Oldfield, Lucy F., and Partridge. 2,929,727.  
 Oldfield, Lucy F., and Partridge. 2,937,100.  
 Oldfield, Lucy F., and Partridge. 2,948,992.  
 Salter, Michael. 2,923,889.  
 Sherwen, Joseph W. 2,941,658.  
 Tomlinson, Terence B. 2,947,874.  
 Tomlinson, Terence B. 2,949,538.  
 Tyrwhitt, Norman H., and Williams. 2,933,650.  
 Tyrwhitt, Norman H., and Williams. 2,934,742.  
 Walsh, Arthur S. 2,930,008.  
 Ward, Peter W. 2,947,818.  
 Willshaw, William E. 2,949,563.
- General Electronic Laboratories, Inc.: See—  
 Jones, Thomas F., Jr. 2,933,672.  
 Jones, Thomas F., Jr., and Williams. 2,933,673.  
 Licklider, Joseph C. 2,958,729.
- General Engineering Co. AB: See—  
 Wennberg, Olov C. G. 2,963,160.
- General Filter Co.: See—  
 Lawlor, Joseph P., and Albertsen. 2,926,856.  
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- General Fireproofing Co., The: See—  
 Wilmer, Rudolph H., and Huff. 2,936,206.
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 Benjamin, Gordon L., Jr., and Hare. 2,956,823.
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 Adler, Irwin L., and Earle. 2,933,395.  
 Chilson, William H., Cameron, Elssesser, and Windmuller. 2,954,297.  
 Clausi, Adolph S., Common, and Horti. 2,954,299.  
 Clausi, Adolph S., and Mohlie. 2,954,295.  
 Clausi, Adolph S., and Mohlie. 2,954,296.  
 Elssesser, Charles C., and Bogyo. 2,954,297.  
 Feldman, Jacob R., Levenson, and White. 2,947,634.  
 Franck, George, and Guggenheim. 2,931,728.  
 Green, Julius. 2,922,355.  
 Kraut, Theodore. 2,931,727.  
 Mancuso, John J., and Common. 2,965,493.  
 McCaffery, Francis X. 2,941,560.  
 Miller, Frank G. 2,932,396.  
 Miller, Frederick J. 2,930,697.  
 Rusoff, Irving I. 2,954,293.  
 Rusoff, Irving I. 2,957,769.  
 Rusoff, Irving I. 2,965,490.  
 Salant, Abner S. 2,945,039.  
 Stagmeier, Arthur F. 2,946,496.  
 Szczesniak, Alina S., and Engel. 2,952,543.  
 Yezek, Milton. 2,933,230.
- General Gas Light Co.: See—  
 Humphrey, Robert P. Re. 24,783.  
 Humphrey, Robert P. 2,931,475.
- General Grinding Wheel Corp.: See—  
 MacMaster, Harry D., Bauer, and Guthrie. 2,943,357.
- General Gummed Products, Inc.: See—  
 Hirsch, Arthur. 2,962,080.
- General Industries Co., The: See—  
 Coven, Warren B., and Funk. 2,925,738.  
 Hartman, Herbert L. 2,924,986.  
 Hartman, Herbert L. 2,925,737.  
 Hartman, Herbert L. 2,961,882.  
 Hartman, Herbert L. 2,961,883.  
 Jin, Korda K. D. 2,936,412.  
 Jin, Korda K. D. 2,946,941.
- General Laboratory Associates, Inc.: See—  
 Knudson, Louis I., and Pfeiffer. 2,963,620.
- General Metals Corp.: See—  
 Hoffer, James F. 2,925,047.  
 Towne, Claude M. 2,950,746.
- General Mills, Inc.: See—  
 Aelony, David. 2,955,951.  
 Andersen, Donald L. 2,926,108.  
 Barker, Norval G., and Chang. 2,946,780.  
 Bergsland, Charles H., and Hedlin. 2,928,093.  
 Bergsland, Charles H., Neumeier, and Petersen. 2,949,665.  
 Blixrud, John O., Johnson, and Franklin. 2,950,668.  
 Buffington, John W. 2,964,007.  
 Carlson, Walter A., and Ziegenfuss. 2,961,353.



## General Mills, Inc.: See—Continued

- Chang, Robert W. H., and Moyer. 2,945,049.  
 Clinton, Otto M. 2,941,341.  
 Clinton, Otto M. 2,941,650.  
 Demorest, Howard L., Frykman, Kelly, and Rose. 2,926,627.  
 Fagan, Gordon E., and Tiefenbrunner. 2,941,670.  
 Floyd, Don E., and Ward. 2,944,036.  
 Ford, Everett F. 2,946,441.  
 Freese, Royce G., and Wittcoff. 2,929,788.  
 Frykman, Robert W. 2,941,444.  
 Glaser, David, and Wittcoff. 2,932,623.  
 Harrison, Stuart A. 2,964,545.  
 Harrison, Stuart A. 2,966,478.  
 Hirdler, Richard D. 2,930,976.  
 Huntington, Robert C. 2,942,257.  
 Johnson, Ernest W. 2,919,986.  
 Kohl, Douglas A. 2,930,525.  
 Kohl, Douglas A. 2,933,255.  
 Kwasniewski, George A., and Karinen. 2,964,749.  
 Long, George, and Tsuchiya. 2,951,581.  
 Mertz, Lyle C., and Nordstrom. 2,941,730.  
 Ming Chih, Chen. 2,927,034.  
 Moore, Charles B., Jr. 2,931,597.  
 Renfrew, Malcolm M., and Peerman. 2,930,773.  
 Riese, Karl F. 2,964,087.  
 Schulz, David G. 2,958,864.  
 Schwoebel, Richard L. 2,950,881.  
 Szasz, Nandor. 2,947,484.  
 Wells, Wallace S. 2,929,974.  
 Wittcoff, Harold. 2,926,117.  
 Yost, Paul E. 2,924,408.  
 Yost, Paul E. 2,937,825.  
 Yost, Paul E. 2,950,882.

## General Motors Corp.: See—

- Adams, Daniel M., Garvey, and Griswold. 2,936,843.  
 Adams, Donald W., and Weber. 2,953,127.  
 Addie, Albert N., and Patrie. 2,960,354.  
 Addie, Albert N., Williams, and Lafferty. 2,949,541.  
 Allan, Robert E. 2,946,246.  
 Allen, Lloyd G., and McMillan. 2,936,855.  
 Allison, Paul R. 2,944,945.  
 Altson, Ralph. 2,958,951.  
 Ankeny, Thomas G., and Arnett. 2,945,291.  
 Antonidis, John E., and Ulm. 2,944,427.  
 Antonidis, John E., and Ulm. 2,944,428.  
 Arkus-Duntov, Zora. 2,949,102.  
 Armentrout, Everett C. 2,957,320.  
 Armstrong, Stewart F., and Held. 2,941,423.  
 Armstrong, John W., Spears, and Williams. Re. 24,852.  
 Arnold, Everett B., Jr. 2,919,460.  
 Atkinson, Robert P., Hoeltje, and McDowall. 2,951,337.  
 Atkinson, Robert P., and McDowall. 2,964,132.  
 Baker, Albert D. 2,963,954.  
 Baker, Albert D., and Rundquist. 2,929,226.  
 Baker, Max P. 2,954,992.  
 Bates, Charles E., and De Lorean. 2,946,326.  
 Bayre, Willard. 2,922,681.  
 Beardslee, Mark L., Frank, and Stone. 2,955,327.  
 Beck, Harold L., and Boettger. 2,956,606.  
 Beck, Ralph F., and Qualman. 2,964,959.  
 Bernotas, Ralph J. 2,941,612.  
 Berry, Frank K. 2,926,689.  
 Bertsch, Joseph F. 2,930,628.  
 Bertsche, Ralph H., and Gegenheimer. 2,928,963.  
 Bidlingmaier, Ernst R., and Dutchik. 2,930,652.  
 Bidwell, Joseph B. 2,962,108.  
 Billings, Charles K. 2,933,912.  
 Bird, Ralph C., Bouvy, and Dolza. 2,947,294.  
 Bleil, Carl E. 2,939,026.  
 Blenman, William G., and Brady. 2,955,568.  
 Boegehold, Alfred L. 2,945,272.  
 Bogater, John P. 2,922,184.  
 Bogater, John P., Sandor, and Velavicius. 2,959,448.  
 Bogue, David L. 2,942,673.  
 Bohnhoff, Arthur F., and Skerl. 2,943,510.  
 Bolles, Julius H., Hartman, and Short. 2,964,774.  
 Bolles, Julius H., Rice, and Schneider. 2,965,765.  
 Bolston, Leonard, and Bozymowski. 2,937,334.  
 Boretti, Napoleon P. 2,964,611.  
 Boretti, Napoleon P., and Kendall. 2,945,513.  
 Borman, August H., Jr. 2,919,597.  
 Bowditch, Frederick W., and Withrow. 2,919,688.  
 Bowser, Phillip C., and Denzer. 2,950,104.  
 Bowser, Phillip C., and Schilling. 2,922,637.  
 Boyd, Anderson B. 2,960,643.  
 Boyer, Floyd J., Harding, Irwin, McDowall, and Wente. 2,938,340.  
 Boylan, Henry W., and Doane. 2,933,942.  
 Brafford, James O. 2,938,601.  
 Brandes, Roy H., and Flaugh. 2,940,426.  
 Brandes, Roy H., and Hirsch. 2,955,663.  
 Brandes, Roy H., Hirsch, and Royer. 2,919,752.  
 Brannick, John. 2,952,995.  
 Brandt, Howard C. 2,933,939.  
 Brandt, Otto W., and West. 2,929,120.  
 Brash, Frederick L. 2,922,436.  
 Braun, Adolph F. 2,929,613.  
 Braun, Adolph F. 2,941,788.  
 Bremer, Robert D. 2,948,801.  
 Brill, William E. 2,926,764.  
 Brill, William E., and Grant. 2,924,315.  
 Brown, Harry K., and Markestein. 2,963,120.

## General Motors Corp.: See—Continued

- Bruckner, Byron L. 2,946,489.  
 Bruckner, Byron L., and Sisson. 2,953,006.  
 Brundage, Phillip J., and Sobey. 2,957,424.  
 Buckman, Kenneth E. 2,945,559.  
 Bunker, Ward. 2,945,547.  
 Burnell, John B. 2,938,507.  
 Burrell, Gilbert. 2,926,972.  
 Burrell, Gilbert. 2,945,715.  
 Bush, Russell J. 2,924,472.  
 Bush, Russell J., and De Weese. 2,945,390.  
 Bychinsky, Wilfred A. 2,927,144.  
 Campbell, David D., and Garvey. 2,948,917.  
 Campbell, David D., and Garvey. 2,955,817.  
 Campbell, David D., and Semar. 2,947,025.  
 Campbell, Robert G., Sr. 2,936,990.  
 Candellise, Alfred. 2,927,238.  
 Candellise, Alfred. 2,962,543.  
 Candor, Robert R. 2,919,493.  
 Canter, James A. 2,964,922.  
 Carls, Darl F. 2,963,015.  
 Carlton, Chester L. 2,949,103.  
 Carpenter, Arthur J. 2,954,252.  
 Carroll, John P., Mazzarines, Selyem, and Williams. 2,955,845.  
 Carter, Robert L. 2,942,550.  
 Casassa, Joseph P. 2,951,447.  
 Chaplin, Albin, and Chapin. 2,956,642.  
 Chapman, Frederick W. 2,957,081.  
 Chayne, Charles A. 2,929,261.  
 Chilton, William D. 2,943,652.  
 Chilton, William D. 2,951,516.  
 Chimko, John, and Fiteny. 2,965,189.  
 Christenson, Howard W. 2,930,257.  
 Christenson, Howard W. 2,965,202.  
 Christenson, Howard W., and Breting. 2,941,639.  
 Christenson, Howard W., and Livezey. 2,953,040.  
 Christenson, Owen A. 2,946,912.  
 Cislo, Casimer J. 2,919,930.  
 Cislo, Casimer J. 2,919,931.  
 Cislo, Casimer J. 2,954,850.  
 Cislo, Casimer J. 2,962,297.  
 Clark, Earl J. 2,926,970.  
 Clark, Earl J., and Schmid. 2,923,987.  
 Clark, Harry F. 2,943,171.  
 Clason, Beril H. 2,943,302.  
 Clayton, David P., and Falge. 2,920,188.  
 Clevenger, Carl L. 2,947,081.  
 Clingman, Paul E. 2,956,705.  
 Cobb, Leland D. 2,962,308.  
 Coblentz, William H., and Scott. 2,927,369.  
 Colby, Gerald W. 2,955,713.  
 Cole, Ward. 2,937,409.  
 Collins, Roy T., and Tazzia. 2,965,346.  
 Collman, John S. 2,929,217.  
 Collman, John S. 2,958,713.  
 Collman, John S., and Kicketts. 2,960,306.  
 Collman, John S., Turunen, and Vickers. 2,937,010.  
 Colten, Robert B., Sylvester, and Pfetsch. 2,924,968.  
 Comer, Richard L. 2,949,376.  
 Conn, Francis E., and Kessler. 2,948,343.  
 Conversano, Henry M. 2,946,982.  
 Counts, William E., Smith, and Schwartzwalder. 2,962,452.  
 Court, Andrew T. 2,953,961.  
 Court, Andrew T. 2,963,936.  
 Covert, Calvin C., and Miller. 2,924,940.  
 Covert, Calvin C., and Wright. 2,958,382.  
 Craig, Richard W. 2,964,964.  
 Creswick, Frederick A., Flanagan, and Quinn. 2,938,338.  
 Croakey, Frank A., and Tuttle. 2,960,273.  
 Crockett, Clarence V., Wallwork, and Weiss. 2,951,548.  
 Crokey, Frank A., and Tuttle. 2,959,353.  
 Dadd, Morris V. 2,925,074.  
 Dallas, Wilbur G., and Weihs. 2,939,722.  
 Dardarian, Harry B., Gilson, and Swanson. 2,939,742.  
 Dart, John L. 2,924,642.  
 Davis, Albert F., and Palmer. 2,963,011.  
 Davis, Arthur M. 2,925,146.  
 Davis, Raymond C., Everett, and Frederick. 2,930,640.  
 Dega, Robert L. 2,935,365.  
 De Lorean, John Z. 2,919,604.  
 De Lorean, John Z. 2,922,635.  
 De Lorean, John Z. 2,926,510.  
 De Lorean, John Z. 2,960,178.  
 De Lorean, John Z. 2,961,896.  
 De Lorean, John Z. 2,964,975.  
 Dening, Donald G., and Krautwurst. 2,939,940.  
 Denman, Stephen A., and Hawthorne. 2,936,647.  
 Dennison, Frederick R., Olson, and Wentis. 2,946,577.  
 Depman, Joseph B. 2,938,542.  
 Depman, Joseph B. 2,962,110.  
 Dermond, Lawrence C. 2,942,862.  
 Dermond, Lawrence C. 2,954,018.  
 Dermond, Lawrence C. 2,959,135.  
 De Wilde, Andries C. 2,949,237.  
 Dickey, Herbert C. 2,922,199.  
 Diener, James H. 2,935,362.  
 Dietrich, Eric R. 2,939,326.  
 Dietrich, Eric R. 2,965,389.  
 Dietrich, Eric R., and Peckham. 2,945,701.  
 Dietrich, Howard H. 2,949,903.  
 Dietrich, Howard H., Hiller, Lay, Rowe, and Zelsloft. 2,943,441.



## General Motors Corp.: See—Continued

Dietrich, Howard H., Jorgensen, and Nickel. 2,942,496.  
 Doidge, Jack R., and Moore. 2,947,199.  
 Dolza, John. 2,939,446.  
 Dolza, John. 2,947,298.  
 Dolza, John. 2,957,464.  
 Dolza, John. 2,963,009.  
 Dominick, George, and Tessmar. 2,955,875.  
 Dornbos, John, Karchner, and Palmer. 2,939,442.  
 Doyle, Edward G., and Klix. 2,964,341.  
 Doyle, John M., and Rowls. 2,942,055.  
 Doyle, John M., and Rowls. 2,942,059.  
 Dozols, James H., and Schwartz. 2,962,751.  
 Drabik, Walter, and Stigler. 2,945,140.  
 Drew, Christopher M. 2,934,051.  
 Druseikis, Frederick. 2,956,622.  
 Dunn, Wallace F. 2,923,582.  
 Dusina, Peter F., Jr., and Stallard. 2,946,713.  
 Dyer, John W., and Spague. 2,959,238.  
 Earling, Leonard E. 2,942,104.  
 Easley, William C. 2,926,762.  
 Edsall, Bruce M. 2,924,992.  
 Edsall, Bruce M. 2,956,448.  
 Edsall, Bruce M., and Richardson. 2,932,940.  
 Egbert, William F., and Peterson. 2,963,857.  
 Eitel, Walter F. 2,943,221.  
 Elder, Gordon B., and Harry. 2,939,480.  
 Elliott, Harold V., and Canaday. 2,942,220.  
 Elliott, Harold V., and Carlson. 2,948,792.  
 Emmert, Rodger J. 2,923,272.  
 Engel, Royce G., Jr. 2,951,643.  
 Engelhard, George J. 2,965,414.  
 Erickson, Anton F. 2,940,548.  
 Erickson, Frederick L., and Fink. 2,955,440.  
 Eshbaugh, Jesse E., Keil, and Schmidt. 2,946,215.  
 Estes, Elliott M. 2,945,723.  
 Etchells, Eugene B. 2,953,336.  
 Etchells, Eugene B., and Gray. 2,929,591.  
 Etchells, Eugene B., Kolbe, and Barr. 2,936,857.  
 Everitt, Allen L. 2,919,737.  
 Everitt, Allen L. 2,927,674.  
 Evernden, Harold I. F. 2,939,341.  
 Ewald, Robert W., and Nichols. 2,954,208.  
 Faiver, Kenneth E. 2,929,640.  
 Faiver, Kenneth E., and Perkins. 2,955,841.  
 Falberg, Robert F. 2,933,282.  
 Falberg, Robert F. 2,956,396.  
 Fehlberg, Chester H., and Lerg. 2,919,760.  
 Ferrara, Rudolph A. 2,927,818.  
 Fetzer, George L., and Morrish. 2,930,440.  
 Fischer, Harold. 2,926,737.  
 Fischer, Harold. 2,964,963.  
 Fisher, Andrew J. 2,920,247.  
 Fisher, Mark E., Tuck, and Schaefer. 2,933,172.  
 Flajole, Henry J., Jr., and Fox. 2,941,826.  
 Flaugh, Oren F., Hirsch, and Mansfield. 2,957,528.  
 Fletcher, William A., and Todd. 2,934,200.  
 Flynn, Loren T., and Fox. 2,932,988.  
 Forbush, Lothrop M., and Hutchinson. 2,955,426.  
 Forbush, Lothrop M., Ruskack, Stofflet, and Wroby. 2,956,632.  
 Forbush, Lothrop M., Stone, and Zimmerman. 2,941,614.  
 Ford, Gerald M. 2,941,119.  
 Ford, Harold H. 2,953,062.  
 Foster, William J. 2,924,122.  
 Foster, William J. 2,932,987.  
 Fox, William R. 2,929,616.  
 Frank, Mark H. 2,936,745.  
 Frei Arthur J. 2,928,280.  
 Frey, Edward J. 2,921,458.  
 Frey, Edward J. 2,941,390.  
 Frey, Edward J. 2,961,865.  
 Frey, Edward J., and Davidson. 2,928,267.  
 Fritz, William E. 2,964,933.  
 Fry, Millard E. 2,921,575.  
 Fry, Millard E. 2,939,731.  
 Fry, Millard E. 2,951,435.  
 Fry, Millard E. 2,955,189.  
 Fuqua, Lloyd T. 2,964,350.  
 Garvey, Louis P. 2,934,930.  
 Garvey, Louis P. 2,953,801.  
 Garvey, Louis P. 2,960,362.  
 Garvey, Louis P., Griswold, and Leslie. 2,935,351.  
 Garvey, Louis P., and Starr. 2,953,188.  
 Gaubatz, Arthur W. 2,926,899.  
 Gaubatz, Arthur W. 2,926,900.  
 Gaubatz, Arthur W. 2,934,296.  
 Gaubatz, Arthur W. 2,934,367.  
 Gaubatz, Arthur W. 2,955,536.  
 Gaubatz, Arthur W. 2,955,537.  
 Gaubatz, Arthur W. 2,955,542.  
 Gaubatz, Arthur W. 2,955,609.  
 Gaubatz, Arthur W. 2,960,327.  
 Gaugler, Richard S. 2,945,954.  
 Gerdan, Dimitrios, and Wilder. 2,963,269.  
 Geyer, Howard M. 2,935,048.  
 Geyer, Howard M. 2,945,387.  
 Geyer, Howard M. 2,953,119.  
 Geyer, Howard M. 2,955,574.  
 Geyer, Howard M. 2,960,069.  
 Geyer, Howard M., and Helke. 2,959,064.  
 Gilson, Joseph H., and Teerlinck. 2,939,511.  
 Glover, Earl W. 2,952,999.

## General Motors Corp.: See—Continued

Gormley, David. 2,929,982.  
 Gould, Ira L., and Thompson. 2,945,362.  
 Gould, Ira L., Van Schaik, and Tuck. 2,952,989.  
 Gould, Richard E. 2,920,463.  
 Gould, Richard E. 2,936,598.  
 Gould, Richard E. 2,951,650.  
 Graham, Robert W. 2,939,725.  
 Graham, Robert W. 2,964,120.  
 Grant, Arthur F. 2,919,563.  
 Grant, Arthur F. 2,927,472.  
 Grant, Arthur F. 2,933,170.  
 Grant, Arthur F. 2,939,559.  
 Grant, Arthur F. 2,956,659.  
 Grant, Arthur F., and King. 2,925,156.  
 Gretzinger, John R. 2,933,192.  
 Gribler, Ludwig A. 2,929,364.  
 Griswold, Charles J., Jr., and Leslie. 2,937,043.  
 Groves, Ronald C. 2,924,206.  
 Grundman, Richard G. 2,954,172.  
 Gruner, Charles T. 2,922,488.  
 Gunow, Robert F., and Oliphant. 2,943,181.  
 Gute, Loren R. 2,957,056.  
 Gute, Loren R., Harrison, and Schmitz. 2,959,968.  
 Guyton, James H. 2,939,053.  
 Guyton, James H., and Vogt. 2,925,560.  
 Haelzig, Hans, and Brumm. 2,942,492.  
 Hall, Russell S., and Johnson. 2,952,973.  
 Hanysz, Eugene A. 2,965,188.  
 Hanysz, Eugene A., Quinn, and Weller. 2,920,269.  
 Harada, Henry H. 2,933,568.  
 Harada, Henry H. 2,959,914.  
 Harper, Ernest W. 2,936,806.  
 Harris, Edward P. 2,931,063.  
 Harris, Edward P. 2,935,003.  
 Harris, Edward P. 2,949,956.  
 Harris, Edward P., and Wall. 2,923,029.  
 Harrison, Walter D. 2,949,035.  
 Harry, Gordon W. 2,929,333.  
 Hart, John G., and Kosbab. 2,957,193.  
 Hart, John G., and Ziegler. 2,958,891.  
 Haskell, John W. 2,954,530.  
 Hastings, Homer R., and Hant. 2,939,078.  
 Hause, Gilbert K. 2,919,608.  
 Hause, Gilbert K. 2,932,939.  
 Hause, Gilbert K., and Fischer. 2,957,557.  
 Hause, Gilbert K., and Heck. 2,940,549.  
 Hawkins, Cyril M. 2,951,540.  
 Hay, Charles N. 2,946,160.  
 Hayes, John R. 2,930,580.  
 Hayes, John R. 2,942,842.  
 Hayes, John R., and Lampman. 2,925,998.  
 Hayes, William S. 2,950,364.  
 Hayes, William S. 2,952,011.  
 Heath, Thomas C. 2,920,160.  
 Heden, Carl E., Louton, and Wubbe. 2,934,375.  
 Heidorn, John H. 2,929,551.  
 Helgeson, Virgil L. 2,957,535.  
 Heller, Joseph N., and Amlott. 2,936,853.  
 Helvern, James O., and Erickson. 2,928,511.  
 Hencken, James E., and Merker. 2,919,962.  
 Herberger, Robert A. 2,930,206.  
 Herndon, Walter B. 2,934,976.  
 Herndon, Walter B. 2,943,516.  
 Herndon, Walter B., and Moore. 2,957,373.  
 Hetzler, Lewis R. 2,945,174.  
 Heusel, Robert J. 2,947,167.  
 Hewko, Lubomyr O. 2,941,539.  
 Hezler, Julius, Jr. 2,949,290.  
 Hezler, Julius, Jr. 2,962,933.  
 Hezler, Julius, Jr., and Schemansky. 2,937,047.  
 Himka, John. 2,924,265.  
 Himka, John. 2,955,871.  
 Himka, John, and Walther. 2,926,949.  
 Himka, John. 2,949,331.  
 Himka, John, and Howell. 2,942,646.  
 Hoag, William G., and Widmer. 2,929,528.  
 Hockert, Chester E., and Smith. 2,935,296.  
 Hockert, Chester E., and Smith. 2,945,673.  
 Hoeffgen, Kurt, Mynar, and Warner. 2,935,273.  
 Hoeltje, Frederick W. 2,929,663.  
 Hollar, Arthur W., Jr. 2,930,649.  
 Hollar, Arthur W., Jr. 2,947,023.  
 Hollar, Arthur W., Jr. 2,965,402.  
 Hollerbach, Aloys C. 2,922,674.  
 Holmes, John R., Mandy, and Taylor. 2,942,433.  
 Hook, Gerald E., and Morice. 2,926,529.  
 Hooverson, Charles P. 2,926,950.  
 Hooverson, Charles P. 2,933,784.  
 Horlacher, Elmer L. 2,930,556.  
 Horton, George B. 2,945,722.  
 Horvath, William J. 2,946,117.  
 Howson, Phillip W. 2,962,012.  
 Hufstader, Gibson O. 2,953,001.  
 Hufstader, Gibson O. 2,953,910.  
 Huggins, Charles E., Munn, and Smith. 2,928,932.  
 Hughel, Thomas J. 2,966,033.  
 Hulten, Richard E. 2,922,493.  
 Humphries, Harve G., and Dickson. 2,922,408.  
 Hutchins, Everett C. 2,949,319.  
 Hutchison, Robert R. 2,926,643.  
 Ingolia, Anthony J. 2,926,507.  
 Ingolia, Anthony J. 2,953,419.  
 Irwin, John E. 2,921,554.



## General Motors Corp.: See—Continued

Isola, Richard A. 2,953,308.  
 Jackman, Charles W. 2,939,718.  
 Jackson, George W. 2,919,929.  
 Jackson, George W. 2,927,801.  
 Jackson, George W. 2,933,104.  
 Jackson, George W., and Hoban. 2,962,296.  
 Jackson, George W., La Flame, and Pribonic. 2,935,023.  
 Jackson, George W., La Flame, and Pribonic. 2,937,715.  
 Jacobitz, William G., and Scheibe. 2,963,282.  
 Jacobs, James W. 2,936,594.  
 Jacobs, James W. 2,965,317.  
 Jacobs, James W., and McCormick. 2,965,428.  
 Jaffe, Lawrence L., and Harris. 2,940,877.  
 Jagen, Theodore A. 2,961,744.  
 Jensen, William K. 2,933,597.  
 Joachim, Joseph G., and Sauer. 2,943,880.  
 Johnson, Elbert L. R., and Jensen. 2,962,689.  
 Johnson, Kenneth O. 2,941,848.  
 Johnson, Lauren L. 2,962,644.  
 Johnston, John R., and Barbulesco. 2,956,684.  
 Johnstone, Theodore H. 2,949,762.  
 Jones, Paul L. 2,936,553.  
 Julian, Clarence L., Epply, and Norris. 2,945,923.  
 Juhlin, Arthur H. 2,955,882.  
 Kalvaitis, John. 2,922,462.  
 Katz, Edwin F. 2,934,961.  
 Katz, Edwin F. 2,950,430.  
 Kay, Charles W. 2,922,860.  
 Keating, Bernard H., and Sprunk. 2,939,741.  
 Keesaer, William C. 2,939,007.  
 Keinath, Richard L. 2,925,071.  
 Kelley, Oliver K. 2,924,308.  
 Kelley, Oliver K. 2,955,683.  
 Kelley, Oliver K. 2,956,649.  
 Kelley, Oliver K. 2,964,976.  
 Kelley, Oliver K., and Buckay. 2,963,923.  
 Kelley, Oliver K., and Hause. 2,957,370.  
 Kelley, Oliver K., Hause, and Heck. 2,934,177.  
 Kelley, Oliver K., Hause, and Heck. 2,955,682.  
 Kenlock, Albert A. H., and Alden. 2,959,239.  
 Kesling, Keith K. 2,939,465.  
 Kessler, James R., Miller, and Skinner. 2,949,159.  
 Killinger, John J. 2,934,356.  
 King, Kenneth K. 2,947,158.  
 King, William F. 2,947,172.  
 King, William F., and Sihvonen. 2,947,175.  
 Kinsey, Claude J. 2,955,876.  
 Kirchoff, Kenneth P., and Shepherd. 2,964,962.  
 Klimek, Edward A. 2,935,080.  
 Kniffin, Walter G., Jr. 2,943,164.  
 Koehring, Roland P. 2,930,521.  
 Kolb, Albert W., Jr. 2,958,835.  
 Kolbe, Adelbert E. 2,930,366.  
 Kolbe, Adelbert E. 2,939,547.  
 Kolbe, Adelbert E. 2,951,391.  
 Kolbe, Adelbert E. 2,953,126.  
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 Kolbe, Adelbert E. 2,963,012.  
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 Kolbe, William H. 2,926,755.  
 Kohr, Robert H. 2,939,470.  
 Konsbruck, Robert H. 2,939,063.  
 Kop, Carl F. 2,946,240.  
 Koplin, Hans O. 2,926,951.  
 Koplin, Hans O. 2,956,837.  
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 Kotlin, James J., Tuxen, and Wallis. 2,929,366.  
 Krajewski, Edward P. 2,955,648.  
 Kramer, Theodore F. 2,934,251.  
 Kripke, Joseph B. 2,957,360.  
 Kuyk, Aart K. 2,929,161.  
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 Lander, Richard J., Sims, and Woofor. 2,955,178.  
 Larkin, Robert G., Dininger, and McDowell. 2,959,228.  
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 Lash, Joseph F. 2,919,581.  
 Lash, Joseph F. 2,947,173.  
 Lash, Joseph F. 2,947,174.  
 Lautenbach, Charles S., and Pollock. 2,930,651.  
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 Leslie, James D., and Rehkugler. 2,955,865.  
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 Long, George B. 2,953,357.  
 Long, George B. 2,961,520.  
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 MacCallum, Edward. 2,963,133.  
 Maieron, Theodore, and Todd. 2,954,853.  
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 Malpass, Harry C. 2,956,549.  
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 Mann, Leonard J. 2,958,934.  
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 Matkins, Eugene G. 2,935,646.  
 Matkins, Eugene G. 2,939,052.  
 Matthews, Hugh B. 2,963,316.  
 Mazzarins, Janis. 2,936,841.  
 McCathron, Claude B. 2,950,367.  
 McCormick, Hamilton L. 2,949,278.  
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 McDonald, Le Roy. 2,955,891.  
 McDuffie, Archie D. 2,953,361.  
 McFarland, Forest R. 2,963,289.  
 McGregor, Ralph. 2,929,552.  
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 McMichael, John D. 2,954,091.  
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 Meyer, Barthold F. 2,966,559.  
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 Meyer, Engelbert A. 2,936,668.  
 Meyer, Engelbert A. 2,949,986.  
 Meyer, Engelbert A. 2,959,259.  
 Mick, Stanley H. 2,919,686.  
 Mick, Stanley H. 2,930,368.  
 Mick, Stanley H. 2,954,019.  
 Mick, Stanley H. 2,954,022.  
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 Miller, Charles W., and Onksen. 2,934,676.  
 Miller, Lester M. 2,932,491.  
 Miller, Joseph P., Allen, and True. 2,955,800.  
 Milne, Roy H. 2,938,249.  
 Mitter, Laurence J. 2,931,687.  
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 Moore, Edwin L. 2,947,374.  
 Moore, Victor C. 2,919,607.  
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 Morrish, Leonard M., and Muller. 2,949,165.  
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 Moyer, David F. 2,929,904.  
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 Moyer, Elton S. 2,958,198.  
 Muller, Lloyd E. 2,921,528.  
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 Neate, Elroy F. 2,942,844.  
 Neir, Theron E. 2,935,055.  
 Nelson, Corless B., and Smidl. 2,926,618.  
 Nichols, Charles A. 2,919,611.  
 Nichols, Charles A., Clevenger, Fletcher, and Zion. 2,920,378.  
 Nichols, Charles A., and Weiser. 2,939,350.  
 Norris, James C., and Oliver. 2,965,726.  
 Norton, James A. 2,933,604.  
 Norton, James A. 2,943,737.  
 O'Connell, John J. 2,960,849.  
 Olender, Bruno J. 2,955,863.  
 Onksen, George W. 2,927,244.  
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 Osborne, Robert E. 2,964,967.  
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 Papenguth, Loren R. 2,938,508.  
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 Purdy, Harry M. 2,963,300.  
 Quinlan, Joseph W. 2,934,054.  
 Rada, Frank J., and Goodwin. 2,922,259.  
 Rady, William J. 2,920,262.  
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 Reed, Lawrence N. 2,962,073.  
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 Rice, Lyman A. 2,932,774.  
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 Ricketts, James M. 2,938,661.  
 Rill, John C., Jr. 2,958,210.  
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 Ripplingille, Edward V. 2,922,437.  
 Roberts, James G. 2,958,925.  
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 Rowland, Dan R. 2,942,902.  
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 Rundquist, Henning W. 2,936,746.  
 Rutherford, David D. 2,938,637.  
 Ryck, Francis M. 2,920,335.  
 Ryck, Francis M. 2,939,165.  
 Ryck, Francis M. 2,958,892.  
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 Sagady, Alexander J. 2,927,568.  
 Sampson, Frederick W. 2,924,303.  
 Sampson, Frederick W. 2,951,562.  
 Sampson, Frederick W. 2,966,239.  
 Sand, Darrel R. 2,927,671.  
 Sand, Darrel R. 2,927,673.  
 Sand, Darrel R. 2,954,103.  
 Sand, Darrel R. 2,964,135.  
 Sargeant, Walter E. 2,949,583.  
 Sargent, Ronald J. 2,941,548.  
 Sargent, Ronald J. 2,964,060.  
 Schamel, Clyde H., and Semar. 2,963,075.  
 Schattler, Wilburn A., and Stallard. 2,922,865.  
 Scheiter, Milton H. 2,951,694.  
 Schilling, Robert. 2,942,459.  
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 Schjolin, Hans O. 2,939,558.  
 Schjolin, Hans. 2,944,618.  
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 Schmeling, William H. 2,942,438.  
 Schneider, Paul L., and Alexander. 2,939,964.  
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 Schultze, Harold E., and Evert. 2,957,456.  
 Schunke, Edwin C. 2,930,827.  
 Schwarz, Adolf. 2,929,396.  
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 Scofield, Robert O. 2,935,156.  
 Scott, Guy F. 2,922,219.  
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 Scott, Leslie E. 2,961,534.  
 Seville, Donald C. 2,943,847.  
 Sehn, William E. 2,938,245.  
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 Seley, Earl T. 2,927,540.  
 Sem, Norbert V., and Lynott. 2,924,998.  
 Seyfarth, Robert. 2,926,895.  
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 Sharpe, Verlos G. 2,923,139.  
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 Smith, Earl D. 2,922,895.  
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 Smith, Henry S., and Wesson. 2,936,643.  
 Smith, John H. 2,960,082.  
 Smith, Robert. 2,942,894.  
 Smith, Warren H. 2,949,792.  
 Snoy, Joseph B. 2,924,941.  
 Snyder, Kenneth E. 2,925,897.  
 Snyder, Kenneth E. 2,946,241.  
 Snyder, Kenneth E. 2,957,735.  
 Snyder, Kenneth E. 2,965,120.  
 Snyder, Kenneth E. 2,965,207.  
 Snyder, Harold M., and Neidhart. 2,939,305.  
 Sobey, Albert J., Jr. 2,941,354.  
 Somerville, Alexander. 2,939,013.  
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 Stallard, Ralph M. 2,920,172.  
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 Stamper, Malcolm T. 2,924,701.  
 Stapleton, Robert W. 2,943,501.  
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 Steine, Adolf. 2,929,468.  
 Steinhagan, William K., Francis, De Wilde, Popinski, and Hart. 2,932,286.  
 Stickel, Carl A. 2,932,962.  
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 Ziegler, Eugene R. 2,953,802.  
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 Ziegler, Eugene R. 2,956,299.  
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 Hill, Frank A., and Ladine. 2,956,222.  
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 Hunt, John M. 2,935,796.  
 Hunt, John M. 2,938,277.  
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 Hunt, John M. 2,958,955.  
 Hunt, John M. 2,961,607.  
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 Johnson, Kenneth A., Ousley, and Stark. 2,939,393.  
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- Holtje, Malcolm C. 2,942,172.  
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 Littlejohn, Henry C. 2,966,257.  
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- General Railway Signal Co.: *See*—  
 Coley, Nelson B. 2,953,772.  
 Field, Oscar S. 2,924,807.  
 Haner, Robert B., Jr. 2,947,814.  
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 Hughson, J. Donald. 2,948,234.  
 Judge, Thomas J. 2,934,636.  
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 Karlet, Joseph G. 2,951,452.  
 Kendall, Hugh C., and Maenpaa. 2,959,670.  
 Marsh, Gareld E. 2,959,773.  
 Rees, Frank X. 2,923,849.  
 Scheg, Marcian A., and Craig. 2,922,389.  
 Sibley, Henry C. 2,934,678.  
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 Thomson, Alexander G. 2,959,669.  
 Wilcox, Clinton S. 2,934,637.
- General Refractories Co.: *See*—  
 Heuer, Russell P. 2,930,601.  
 Heuer, Russell P. 2,932,265.  
 Heuer, Russell P. 2,932,554.  
 Heuer, Russell P. 2,959,406.  
 Hutter, Luis. 2,929,343.
- General Register Corp.: *See*—  
 Webb, Christopher F. 2,929,644.
- General Scientific Projects, Inc.: *See*—  
 Houle, Robert E. 2,921,757.  
 Houle, Robert E., Menzel, and Robb. 2,930,545.
- General Slicing Machine Co., Inc.: *See*—  
 Erickson, Ernest S. 2,931,407.  
 Gilbert, Jack. 2,931,406.  
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- General Sound Control, Inc.: *See*—  
 Smith, Cloyd D. 2,959,243.  
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- General Spring Corp.: *See*—  
 Wood, Joseph K. 2,929,594.
- General Steel, Inc.: *See*—  
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- General Steel Castings Corp.: *See*—  
 Lich, Richard L. 2,925,790.  
 Lich, Richard L. 2,929,338.  
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 Lich, Richard L. 2,956,516.  
 Meyer, William H. 2,928,858.  
 Sheehan, William M. 2,920,917.  
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- General Steel Products Co., Inc.: *See*—  
 Hoffman, Frank D., Jr. 2,942,650.  
 Hoffman, Frank D., Jr. 2,943,670.  
 Hoffman, Frank D., Jr., and Mizelle. 2,964,095.  
 Travilla, James C., and Zach. 2,945,456.
- General Telephone Laboratories, Inc.: *See*—  
 Bakker, Pier. 2,934,608.  
 Coleman, Ivan V. 2,938,957.  
 Faulkner, Alfred H. 2,927,254.  
 Faulkner, Alfred H. 2,931,863.  
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 Glenner, Edward J. 2,921,988.  
 Herzfeld, Robert C. 2,934,597.  
 Huffman, Robert L. 2,922,013.  
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- General Time Corp.: *See*—  
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- General Tire & Rubber Co., The: *See*—  
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 Frehse, Walter C. 2,952,053.  
 Gmitter, George T., and Maxey. 2,957,832.  
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- General Tire & Rubber Co. The: See—Continued  
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Slemmons, Charles O., and Forrest. 2,953,345.  
Slemmons, Charles O., and Sabo. 2,926,011.  
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- General Ultrasonics Co. The: See—  
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- General Welding & Fabricating Co.: See—  
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- Generale Thermique-Procedes Brola: See—  
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- Geneslay, Raymond H. J., to Compagnie Generale de Geophysique. Seismograph. 2,964,732, 12-13-60, Cl. 340-17.
- Genesse Machine Builders, Inc.: See—  
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- Genetel, Jack, to Sano Corp. Binaural audio wave pick-up for musical instruments. 2,938,419, 5-31-60, Cl. 84-1.04.
- Gengenbach, Otto, and H. Schene, to Daimler-Benz Aktiengesellschaft. Electrostatic spray arrangement. 2,930,350, 3-29-60, Cl. 118-627.
- Gengenbach, Otto, and H. Schene, to Daimler-Benz Aktiengesellschaft. Apparatus for electrostatically spraying paint. 2,945,472, 7-19-60, Cl. 118-626.
- Genisco, Inc.: See—  
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- Genovese, Anthony L., to The National Plastic Products Co. Extrusion apparatus. 2,923,970, 2-9-60, Cl. 18-8.
- Genovese, Charles E., to United States Steel Corp. Blast furnace stove gas-port and burner nozzle connection. 2,924,269, 2-9-60, Cl. 158-7.
- Genovese, Joseph. Archery bow sight. 2,925,656, 2-23-60, Cl. 33-46.
- Genser, Milton, to International Business Machines Corp. Intermetallic semiconductor device manufacturing. 2,938,819, 5-31-60, Cl. 148-1.5.
- Genser, Milton, and W. P. Allred, to The Battelle Development Corp. Preparation of P-N junctions by the decomposition of compounds. 2,950,220, 8-23-60, Cl. 148-1.5.
- Gent, Stanley E., to Ferguson Radio Corp. Ltd. Automatic gain control circuits for television signal amplifiers. 2,938,950, 5-31-60, Cl. 178-7.3.
- Gentex Corp.: See—  
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- Genth, Hermann: See—  
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- Gentile, Carmine J. Duplicator router turning tool. 2,952,279, 9-13-60, Cl. 142-55.
- Gentile, Charles J., to Bristol-Myers Co. Ball applicator dispensers. 2,923,957, 2-9-60, Cl. 15-132.7.
- Gentile, Frank. Muffler for use with catalysts in internal combustion engines. 2,946,325, 7-26-60, Cl. 123-119.
- Gentile, Henry A. Parachute release shackle. 2,940,148, 6-14-60, Cl. 24-201.
- Gentile, William H. Method of and apparatus for straightening violin bows. 2,926,710, 3-1-60, Cl. 144-261.
- Gentle, Alexander H.: See—  
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- Gentner, Edward G. Combined mortar pan and scaffold support. 2,940,599, 6-14-60, Cl. 211-71.
- Gentry Division, Consolidated Foods Corp.: See—  
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- Gentry, Hermond G., to Mead Packaging, Inc. Method and means for packaging cans having chines at the ends thereof. 2,933,867, 4-26-60, Cl. 53-29.
- Gentry, Hermond G., to Mead Packaging, Inc. Means for folding paperboard wrappers about objects to be packaged therein. 2,933,870, 4-26-60, Cl. 53-209.
- Gentry, Hermond G., to Mead Packaging, Inc. Apparatus for packaging articles. 2,936,560, 5-17-60, Cl. 53-219.
- Gentry, Hermond G., to Mead Packaging, Inc. Apparatus and method for automatically packaging articles in wrapper blanks. 2,953,883, 9-27-60, Cl. 53-209.
- Gentry, Robert E., Jr.: See—  
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- Geolograph Co., The: See—  
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- Gepfert, Benjamin L.: See—  
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- Geophysics Corp. of America: See—  
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- Georesearch, Inc.: See—  
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- George, Daniel E., to Sylvania Electric Products Inc. Traveling wave tube demodulator. 2,957,983, 10-25-60, Cl. 250-27.
- George, Frank. Sandal construction. 2,932,097, 4-12-60, Cl. 36-11.5.
- George, Henri J. C. Process and apparatus for accelerating crystal growth. 2,929,692, 3-22-60, Cl. 23-301.
- George, Henri J. C., to Quartz & Silice S.A. Silica glass. 2,958,604, 11-1-60, Cl. 106-52.
- George, James C., 25% to P. Fultz, and 25% to W. H. F. Schmieding. Apparatus for cleaning cow's udder. 2,952,860, 9-20-60, Cl. 15-29.
- George, John, Jr.: See—  
Diezel, Willy H., and George. 2,925,797.
- George, Ralph W., to Radio Corp. of America. Electro-mechanical filter. 2,926,315, 2-23-60, Cl. 333-71.
- George, Richard P.: See—  
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- George, Robert H. Air brake system for automotive vehicles. 2,930,658, 3-29-60, Cl. 303-8.
- George, Robert H. Air brake systems for automotive vehicles. 2,938,753, 5-31-60, Cl. 303-63.
- George, Thomas J. Electronic musical instrument. 2,949,804, 8-23-60, Cl. 84-122.
- George, Thomas J. Electronic musical instrument control system. 2,953,958, 9-27-60, Cl. 84-229.
- George, Walter C., to Crown Zellerbach Corp. Pallet. 2,955,791, 10-11-60, Cl. 248-120.
- George, Warren E., to Auburn Machine Works, Inc. Crawling attachment. 2,930,242, 3-29-60, Cl. 74-15.2.
- George, Willard S. Strand curling method and apparatus. 2,929,179, 3-22-60, Cl. 53-21.
- George, William J., and L. Mariani. Seal for fluid meter. 2,925,068, 2-16-60, Cl. 121-187.
- George, William L., and J. J. Eberl, to Johnson & Johnson. Sterilization of collagenous sutures with epoxides. Re. 24,787, 2-23-60, Cl. 206-63.8.
- Georff, Vasil: See—  
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- Georges, Michael. Drafting scale. 2,939,219, 6-7-60, Cl. 33-107.
- Georgette, Nicolas J.: See—  
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- Georgia Kaolin Co.: See—  
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- Georgia Tech Research Institute: See—  
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- Georgia Tech Research Institute, Georgia Institute of Technology: See—  
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- Gepfert, Paul J.: See—  
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- Gepfert, Donovan V., to Sylvania Electric Products Inc. Duplex traveling-wave tube amplifier. 2,928,021, 3-8-60, Cl. 215-3.6.
- Gepfert, Donovan V., to Sylvania Electric Products Inc. Distributed microwave amplifier. 2,932,762, 4-12-60, Cl. 315-5.29.
- Gepfert, Donovan V., and J. W. Corn, to Motorola, Inc. Semiconductor device. 2,946,936, 7-26-60, Cl. 317-235.
- Geraetebau-Anstalt: See—  
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- Geraghty, James M. Portable case and time lock therefor. 2,951,357, 9-6-60, Cl. 70-273.
- Gerald, Herbert L.: See—  
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- Gerard, George: See—  
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- Gerard, George, to Jiffy Mfg. Co. Rip string heavy duty paper bag. 2,923,457, 2-2-60, Cl. 229-66.
- Gerard, George A., to Jiffy Mfg. Co. Padded shipping bag. 2,952,398, 9-13-60, Cl. 229-55.
- Gerard, Jean: See—  
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- Gerard, William A., and R. G. Larson, to Westinghouse Electric Corp. Cavity resonator. 2,946,027, 7-19-60, Cl. 333-83.
- Gerarde, Horace W. Pipette assembly. 2,965,255, 12-20-60, Cl. 215-6.
- Gerassimoff, Peter: See—  
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- Gerbaux, Rene C.: See—  
De Pauw, Alfons J., and Gerbaux. 2,956,883.
- Gerbe, John F., 1/2 to J. P. Frank and 1/2 to H. Bardach. Thread pick-up mechanism for button hole machines. 2,958,303, 11-1-60, Cl. 112-253.
- Gerber, Charles F., to United States of America, Navy. Weather-vane streamline fairing. 2,949,090, 8-16-60, Cl. 114-90.
- Gerber, Charles H., to Avtron Mfg., Inc. Amplitude modulation meter. 2,962,673, 11-29-60, Cl. 332-39.
- Gerber, Clifford F., and O. Kioze; said Gerber assignor to Chas. Pfizer & Co., Inc. Aqueous vitamin and mineral compositions. 2,939,820, 6-7-60, Cl. 167-81.
- Gerber, Eduard A.: See—  
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- Gerber, Eduard A., to United States of America, Army. Means for compensating the static capacitance of piezo-electric crystals. 2,963,597, 12-6-60, Cl. 310-8.2.
- Gerber, Kenneth G.: See—  
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- Gerber Products Co.: *See*—  
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- Gerber Sheet Metal Inc.: *See*—  
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- Gerber, William J.: *See*—  
 Curran, Daniel R., Gerber, and Lungo. 2,927,285.
- Gerberich, Donald E., to Stephens-Adamson Mfg. Co. Material handling apparatus. 2,950,808, 8-30-60, Cl. 198—128.
- Gerbitz, Clarence G., and N. H. Decker, to International Business Machines Corp. Test apparatus for crystal diodes. 2,950,439, 8-23-60, Cl. 324—158.
- Gerbrands, Peter. Appliance for broadening human jaws. 2,927,578, 3-8-60, Cl. 128—76.
- Gerbrands, Ralph. High speed count recorder. 2,926,984, 3-1-60, Cl. 346—139.
- Gerbruder Sucker G.m.b.H.: *See*—  
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- Gercken, Clarence J., to J. C. Deagan, Inc. Chimes. 2,966,089, 12-27-60, Cl. 84—405.
- Gerdan, Dimitrios, and S. Wilder, Jr., to General Motors Corp. Composite turbine buckets. 2,963,269, 12-6-60, Cl. 253—39.15.
- Gerding, Benjamin F., and A. F. Labrozzi, to International Resistance Co. Method and apparatus for feeding elongated objects from a container. 2,945,613, 7-19-60, Cl. 221—198.
- Gerfen, Charles O.: *See*—  
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- Gerg, William P., to The Borden Co. Formaldehyde absorption. 2,947,750, 8-2-60, Cl. 260—249.6.
- Gerhard, Paul G., to United States of America, Army. Electric clock mechanism. 2,949,571, 8-16-60, Cl. 318—131.
- Gerhardt, Andrew H., to Borg-Warner Corp. Gentle action agitator. 2,927,449, 3-8-60, Cl. 68—4.
- Gerhardt, Andrew H., to Borg-Warner Corp. Clothes guard for automatic washers. 2,966,051, 12-27-60, Cl. 68—23.
- Gerhardt, Francis H., J. Proc. and J. Sottysiak, to General Aniline & Film Corp. Stabilization of print-out emulsion images. 2,930,692, 3-29-60, Cl. 96—61.
- Gerhardt, George W.: *See*—  
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- Gerhardt, Gerard E., to American Cyanamid Co. Apparatus for extracting particle size data. 2,936,953, 5-17-60, Cl. 235—92.
- Gerhardt, James S., and W. F. Fowler, Jr., to Eastman Kodak Co. Adhesive. 2,947,650, 8-2-60, Cl. 117—122.
- Gerhold, Max. Conversion of hydrocarbons. 2,942,960, 6-28-60, Cl. 48—215.
- Gerholm, Tor V., and A. B. Flink. Rectangular silo construction. 2,966,008, 12-27-60, Cl. 50—132.
- Gerk, Joseph C.,  $\frac{3}{4}$  to T. A. Cox and  $\frac{1}{4}$  to D. M. Cox. Wiper blade attachment for screed boards. 2,945,427, 7-19-60, Cl. 94—45.
- Gerkenmeier, Otto F., to Bell Telephone Laboratories, Inc. Balanced impulser circuit. 2,953,646, 9-20-60, Cl. 179—16.
- Gerlach, Albrecht, and K. Wittig, to Clevite Corp. Capacitor discharge circuit. 2,946,924, 7-26-60, Cl. 315—241.
- Gerlach, Carl H., and M. F. Pravda; said Pravda assor. to said Gerlach. Wood screw having enlarged radial pips to facilitate entry into workpiece. 2,959,086, 11-8-60, Cl. 85—46.
- Gerlach, Eduard, G.m.b.H.: *See*—  
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- Gerlach, Frank A., to The American Laundry Machinery Co. Closure means for washing machine. 2,934,927, 5-3-60, Cl. 68—143.
- Gerlach, Hans G., and E. G. Dorgelo, to North American Phillips Co., Inc. Equipotential cathode for electric discharge tubes. 2,949,557, 8-16-60, Cl. 313—346.
- Gerlando Tuttolomondo: *See*—  
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- Gerlicher, Robert A., and W. P. Denson, Jr., to Copolymer Rubber and Chemical Corp. Method of processing synthetic rubber latex. 2,927,065, 3-1-60, Cl. 202—46.
- Gerlitz, Reuben A., to Robbins & Myers, Inc. Fan operated damper blade latch. 2,924,166, 2-9-60, Cl. 98—116.
- Germak, Joseph G.: *See*—  
 Wilckens, Eibe A., Rainer, Germak, Hamilton, and Redding. 2,936,005.  
 Wilckens, Eibe, Rainer, Germak, Hamilton, and Redding. 2,937,404.
- German, Tilghman L., Jr., to Greenwood Engineering Co., Inc. Spring pressed pivoted stripper means for use with rotary cutter. 2,932,228, 4-12-60, Cl. 83—114.
- Germane Corp.: *See*—  
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- Germani, Marcello: *See*—  
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- Germann, Werner, to C. H. and B. Borzikowski, and B. Gam. Slide calliper. 2,920,395, 1-12-60, Cl. 33—169.
- Germann, Werner. Calliper squares. 2,952,916, 9-20-60, Cl. 33—143.
- Germann, Werner. Micrometers. 2,952,917, 9-20-60, Cl. 33—164.
- Germano, Frank, and A. H. Winkler, to Bendix Aviation Corp. Carburetor. 2,922,629, 1-26-60, Cl. 261—41.
- Germany, Norman V., and H. V. Goreham, to United Shoe Machinery Corp. Machines for shaping stitchdown uppers over lasts. 2,963,719, 12-13-60, Cl. 12—7.5.
- Germer, Edmund H. Discharge device. 2,963,603, 12-6-60, Cl. 313—17.
- Germeshausen, Kenneth J.: *See*—  
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- Germeshausen, Kenneth J., to Edgerton, Germeshausen & Grier, Inc. Electric discharge device. 2,937,303, 5-17-60, Cl. 313—216.
- Germeshausen, Kenneth J., and H. E. Edgerton, to Edgerton, Germeshausen & Grier, Inc. Electric-discharge system. 2,933,647, 4-19-60, Cl. 315—163.
- Germeshausen, Kenneth J., and S. Goldberg, to Edgerton, Germeshausen & Grier, Inc. Electric-discharge device and cathode. 2,937,301, 5-17-60, Cl. 313—212.
- Germon, Wesley M., to The Goodyear Tire & Rubber Co. Composition comprising vinyl chloride resin, copolymer of butadiene and acrylonitrile, and the product obtained by polymerizing butadiene in the presence of a copolymer of acrylonitrile and styrene. 2,927,093, 3-1-60, Cl. 260—31.6.
- Gerner, Theodore C. Steering idler arm repair unit. 2,932,529, 4-12-60, Cl. 280—95.
- Gernert, Lawrence H., to Monroe Calculating Machine Co. Magnetic transducing head with integral adjustment means. 2,928,906, 3-15-60, Cl. 179—100.2.
- Gerolt, Philip, to Shell Oil Co. Insecticidal compositions. 2,941,922, 6-21-60, Cl. 167—42.
- Gerolt, Philip, to Shell Oil Co. Insecticidal compositions. 2,966,440, 12-27-60, Cl. 167—42.
- Gerosa, Vittorina: *See*—  
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- Gerotor May Corp. of Maryland: *See*—  
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- Gerow, Gordon P.: *See*—  
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- Gerow, Gordon P., and R. J. Weeks, to Consolidated Electrodynamics Corp. Vacuum pumps. 2,933,233, 4-19-60, Cl. 230—101.
- Gerrans, William A. Variable speed drive control for material handling. 2,966,253, 12-27-60, Cl. 198—37.
- Gerrard, A. J., & Co.: *See*—  
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- Gerrard Industries Ltd.: *See*—  
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- Gerrard, Michael C. Protective device for electrical circuits and apparatus. 2,922,925, 1-26-60, Cl. 317—9.
- Gerrish, Grenville B., to Wolverine Equipment Co. Hooded exhaust system. 2,938,714, 5-31-60, Cl. 257—309.
- Gerrish, Harold C. Method for determination of fuel-air ratio of gas mixtures. 2,921,841, 1-19-60, Cl. 23—232.
- Gerritsen, Dirk J. Diving board for swimming pools. 2,951,701, 9-6-60, Cl. 272—66.
- Gerry, Otto F.: *See*—  
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- Gershen, Irvin J.: *See*—  
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- Gerst, Chris, to The Transmission & Gear Co. Counter-rotating and steering transmission. 2,932,208, 4-12-60, Cl. 74—360.
- Gerst, Chris, to C. Gerst. Multi-speed forward and reverse steering type transmission and axle. 2,958,231, 11-1-60, Cl. 74—360.
- Gerstel, Harry M., and J. Langer, to Gotham Lighting Corp. Lighting fixture suspension and attachment arrangement. 2,965,348, 12-20-60, Cl. 248—343.
- Gerstenberger, Walter, to United Aircraft Corp. Hydraulic booster control. 2,957,527, 10-25-60, Cl. 170—160.25.
- Gerteis, Karl M., to Carrier Corp. Compressor valve arrangement. 2,935,248, 5-3-60, Cl. 230—231.
- Gerteis, Karl M., to Carrier Corp. Capacity control for compressors. 2,948,293, 8-9-60, Cl. 137—107.
- Gerth, Albert E., to Institutum Divi Thomae Foundation. Mounting for electrodes in glass vessels. 2,923,798, 2-2-60, Cl. 200—144.
- Gerth, Sol R. Strike. 2,956,829, 10-18-60, Cl. 292—341.15.
- Gertsch Products, Inc.: *See*—  
 Cutler, Leonard S., and Rorden. Re. 24,896.
- Gertz, Donald. Hydraulic drive with integral sump. 2,939,284, 6-7-60, Cl. 60—52.
- Gertz, Gerhard, to Schuhmaschinen-Gesellschaft Hanke & Co. m.b.H. Machine for applying ribbed strips on insoles. 2,937,389, 5-24-60, Cl. 12—20.
- Gertz, Joseph L., to Collins Radio Co. End wire holder. 2,920,595, 1-12-60, Cl. 113—99.
- Gerwick, Ben C., Inc.: *See*—  
 Sylvester, Kenneth D. 2,948,042.
- Gerzon, Frits: *See*—  
 Diemer, Gesinus, and Gerzon. 2,942,131.
- Gerzon, Koert: *See*—  
 Cochran, James E., Jr., Gerzon, and Mills. 2,963,482.
- Geschickter, Charles F., and L. M. Rice, to The Geschickter Fund for Medical Research, Inc. Salts of 7-chloro-4-(4-diethylamino-1-methylbutylamino) quinoline. 2,947,664, 8-2-60, Cl. 167—58.
- Geschickter Fund for Medical Research, Inc., The: *See*—  
 Geschickter, Charles F., and Rice. 2,947,664.  
 Grogan, Charles H., and Rice. 2,962,496.



- Geschka, Hugo W., and W. Bender, to Maschinenfabrik Peter Pfenningberg G.m.b.H. Washing machine. 2,953,159, 9-20-60, Cl. 137-587.
- Gesell, John H., to International Telephone and Telegraph Corp. Coaxial cable. 2,934,586, 4-26-60, Cl. 174-28.
- Gesellschaft der Ludw. von Roll'schen Eisenwerke AG: See—Büttiker, Werner. 2,950,896.
- Forster, Albert. 2,922,325.
- Schnyder, Hans. 2,948,290.
- Gesellschaft für Forderanlagen Ernst Hockel m.b.H.: See—Rubin, Adolf. 2,949,864.
- Gesellschaft für Linde's Eismaschinen Aktiengesellschaft: See—Karwat, Ernst. 2,930,201.
- Seidel, Max. 2,962,867.
- Gesellschaft Zur Förderung der Forschung an der Eidg. Technischen Hochschule: See—Bas-Taymaz, Enis. 2,946,892.
- Mast, Fred A. 2,927,959.
- Geshner, Robert A.: See—Bain, Lewis A., Jr., and Geshner. 2,958,928.
- Geshner, Robert A., and L. J. Kehl, to Western Electric Co., Inc. Printed circuit board. 2,959,758, 11-8-60, Cl. 339-17.
- Gesner, Harry M., and H. L. Myers; said Myers assor. to said Gesner. Single fluke anchor. 2,948,249, 8-9-60, Cl. 114-208.
- Gessell, Glenn P. Safety overhead door operator. 2,923,541, 2-2-60, Cl. 268-59.
- Gessell, Glenn P. Load-responsive motor shutoff system and operator therefor. 2,945,925, 7-19-60, Cl. 200-47.
- Gessford, Ross K., to Sylvania Electric Products Inc. Electrical device. 2,945,148, 7-12-60, Cl. 313-318.
- Gessler, Albert M.: See—Rehner, John, Jr., Wiese, and Gessler. 2,928,802.
- Gesualdi, Frank C. Camera adapter for telescopes. 2,937,584, 5-24-60, Cl. 95-12.
- Getaz, James L., 75% to United States Trust Co. Circular knitting machine. 2,932,959, 4-19-60, Cl. 66-48.
- Getaz, James L., to United States Trust Co. Circular knit hosiery and method of closing the foot of same. 2,950,611, 8-30-60, Cl. 66-186.
- Getchell, Nelson F.: See—Buck, George S., Jr., and Getchell. 2,957,746.
- Getchell, Robert M., H. E. Karig, and J. A. Fay, to Waste King Corp. Dishwasher pump and outlet valve. 2,965,112, 12-20-60, Cl. 134-176.
- Gethmann, Richard B., to General Electric Co. Deflection and dynamic convergence system for multi-beam cathode ray tubes. 2,925,542, 2-16-60, Cl. 317-200.
- Gettelman, Gilbert C., to Jones & Laughlin Steel Corp. Sprinkling can. 2,965,310, 12-20-60, Cl. 239-391.
- Getz, Arnestad G., to The Bishop and Babcock Mfg. Co. Automobile heater and ventilator control means. 2,929,310, 3-22-60, Cl. 98-2.
- Getz, Arnestad G., to The Bishop and Babcock Mfg. Co. Spot light and adjusting means therefor. 2,961,834, 11-29-60, Cl. 60-97.
- Getz, Benjamin E. Hay conditioner. 2,966,022, 12-27-60, Cl. 56-1.
- Getz, John W., to Food Machinery and Chemical Corp. Process for the production of nitrosamines. 2,960,536, 11-15-60, Cl. 260-583.
- Geurdes, Bernardus, to The American Enka Corp. Spinning pot. 2,935,837, 5-10-60, Cl. 57-76.
- Gevaert Photo-Producten N.V.: See—Conix, Andre J. 2,958,678.
- Conix, Andre J. 2,960,493.
- De Cat, Arthur H., and Van Poucke. 2,950,314.
- De Pauw, Alfons J., and Gerbaux. 2,956,883.
- Jennen, Jacob J., and Eerdekens. 2,964,402.
- Nys, Jean M., and Libere. 2,954,376.
- Geyer, Gabriel, and C. J. O'Keefe, to The Norwich Pharmacal Co. Process for the preparation of azomethines of 5-nitro-2-formyl furan with hydrazine compounds. 2,927,110, 3-1-60, Cl. 260-240.
- Gewartowski, James W., to Bell Telephone Laboratories, Inc. Magnetron amplifier. 2,926,285, 2-23-60, Cl. 315-39.
- Gewecke, Theodore H.: See—Richter, John W., Gewecke, and Broman. 2,953,132.
- Gewecke, Theodore H., and C. R. Broman, to Baxter Laboratories, Inc. Plastic collar secured to a member and method of attaching same. 2,938,238, 5-31-60, Cl. 18-59.
- Gewecke, Theodore H. Dispensing device. 2,950,028, 8-23-60, Cl. 222-95.
- Gewecke, Theodore H., and C. R. Broman, to Baxter Laboratories, Inc. Parenteral solution equipment. 2,949,913, 8-23-60, Cl. 128-214.
- Gewecke, Vern W. Corn picker mounting means. 2,934,357, 4-26-60, Cl. 280-150.
- Gewerkschaft Eisenhütte Westfalen: See—Dommann, Günther. 2,943,728.
- Dommann, Günther, and Rosler. 2,965,217.
- Herrmann, Helmut. 2,921,559.
- Herrmann, Helmut. 2,928,375.
- Herrmann, Helmut. 2,937,621.
- Herrmann, Helmut. 2,963,005.
- Herrmann, Julius. 2,955,809.
- Gewiss, Lucien V., to Wood, Marc, Societe Anonyme pour la Promotion des Echanges Techniques Internationaux. Arrangement for the mechanical and continuous production of developable herring-bone structures. 2,950,656, 8-30-60, Cl. 92-1.
- Geyer, Gerald J.: See—Carlson, David J., and Geyer. 2,929,524.
- Geyer, Gerhard, and H. Seidel, to Siemens-Schuckertwerke Aktiengesellschaft. Encased electric distribution devices. 2,962,564, 11-29-60, Cl. 200-50.
- Geyer, Howard M., to General Motors Corp. Actuator assembly. 2,935,048, 5-3-60, Cl. 121-38.
- Geyer, Howard M., to General Motors Corp. Rotary actuator. 2,945,387, 7-19-60, Cl. 74-89.
- Geyer, Howard M., to General Motors Corp. Hydraulic actuator assembly with oil circulation means. 2,953,119, 9-20-60, Cl. 121-38.
- Geyer, Howard M., to General Motors Corp. Hydraulic actuator having cooling fluid circulation. 2,955,574, 10-11-60, Cl. 121-38.
- Geyer, Howard M., to General Motors Corp. Self-locking actuator. 2,960,069, 11-15-60, Cl. 121-40.
- Geyer, Howard M., and R. C. Helke, to General Motors Corp. Rotary actuator. 2,959,064, 11-8-60, Cl. 74-441.
- Geyer, Lewis H.: See—Moog, William C., Jr., and Geyer. 2,931,389.
- Geyer, Lewis H., to Moog Valve Co., Inc. Pressure-flow servo valve. 2,964,059, 12-13-60, Cl. 137-623.
- Geyer, Paul G. T. Artificial insemination gun. 2,942,603, 6-28-60, Cl. 128-235.
- Geyer, Richard D.: See—Bittman, Loran R., Gutlove, and Geyer. 2,945,154.
- Geyger, William A., to United States of America, Navy. Magnetic amplifier circuit of the bias-excitation type. 2,961,599, 11-22-60, Cl. 323-89.
- Geyling, Franz T., to Bell Telephone Laboratories, Inc. High pressure insulating seal for electrical cable system. 2,945,082, 7-12-60, Cl. 174-50.61.
- Ghahremani, Kamaledin: See—Dhondt, Roland O., Welsh, and Ghahremani. 2,954,329.
- Ghalib, Selchouk A., R. H. Keisall, H. V. Tucker, and J. H. Bowen; said Bowen assor. to United Kingdom Atomic Energy Authority. Electrical position-follower systems. 2,961,589, 11-22-60, Cl. 318-171.
- Ghandhi, Sorab K., to General Electric Co. Photo-electronic network. 2,954,476, 9-27-60, Cl. 250-209.
- Gheen, Lyndle G., to R. H. Pierce Mfg. Co. Automatic drain valve. 2,926,686, 3-1-60, Cl. 137-217.
- Ghers, Dominick A.: See—Bruns, William H., Couturier, and Ghersi. 2,960,187.
- Ghertman, Ioino, E. Estrems, M. J. Robineau, and E. Febvre, to International Business Machines Corp. Card controlled calculating punch. 2,962,211, 11-29-60, Cl. 235-61.1.
- Ghia, Mario: See—Paroselli, Leopold. 2,948,822.
- Ghilardi, Giuliana: See—Kalopissis, Gregoire, and Ghilardi. 2,944,869.
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- Ghiringelli, Enrico. Equipments for bending reinforcing irons of concrete or the like. 2,964,085, 12-13-60, Cl. 153-4.
- Ghiselin, William F., Jr., M. E. Martin, and O. R. Smith, to Welx, Inc. Well logging system. 2,964,697, 12-13-60, Cl. 324-1.
- Ghormley Engineering and Mfg. Co.: See—Ghormley, James G., Jr., and Kitchens. 2,949,851.
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- Ghose, Rabindra N., to Radio Corp. of America. Broadband antenna system. 2,935,747, 5-3-60, Cl. 343-767.
- Ghose, Rabindra N., and A. Turecki, to Radio Corp. of America. Slotted coupling device for waveguide. 2,948,895, 8-9-60, Cl. 343-767.
- Ghosh, Ranajit: See—Calderbank, Alan, and Ghosh. 2,943,015.
- Freeman, Peter F. H., and Ghosh. 2,962,502.
- Ghuysen, Jean-Marie J. N. H.: See—Deltour, Guy H., and Ghuysen. 2,927,885.
- Giacalone, Victor. Vehicle jack. 2,933,289, 4-19-60, Cl. 254-95.
- Giacoletto, Lawrence J., to Radio Corp. of America. Semiconductor devices with unipolar gate electrode. 2,921,205, 1-12-60, Cl. 307-88.5.
- Giacoletto, Lawrence J., to Radio Corp. of America. Semiconductor devices. 2,923,868, 2-2-60, Cl. 317-234.
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- Gialmo, Edward C., Jr., to Radio Corp. of America. Apparatus for developing electrostatic image. 2,930,351, 3-29-60, Cl. 118-637.
- Gialmo, Edward C., Jr., to Radio Corp. of America. Exposure of photochemical compositions. 2,939,787, 6-7-60, Cl. 96-1.
- Gialmo, Edward C., Jr., to Radio Corp. of America. Electrostatic printing. 2,956,487, 10-18-60, Cl. 95-1.7.
- Gialmo, Edward C., Jr., to Radio Corp. of America. Photoconductive photography. 2,956,874, 10-18-60, Cl. 96-1.
- Gialanella, Joseph A., to Quartz Products Corp. Infrared heater. 2,951,928, 9-6-60, Cl. 219-34.
- Giammarco, Giuseppe, to Vetrococle S.p.A. Method of removing hydrogen sulphide from gaseous mixtures by means of arsenical solutions. 2,937,071, 5-17-60, Cl. 23-3.



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- Giammaria, John J., to Socony Mobil Oil Co., Inc. Method for removing combustion chamber deposits. 2,924,542, 2-9-60, Cl. 134-1.
- Giammaria, John J., to Socony Mobil Oil Co., Inc. Removal of combustion chamber deposits. 2,956,910, 10-18-60, Cl. 134-22.
- Giannelloni, Sabin J., Jr. Turbodrill. 2,963,099, 12-6-60, Cl. 175-25.
- Gianios, Vaseleke F. Safety chain for diaper pins. 2,962,784, 12-6-60, Cl. 24-88.
- Gianladis, James L., to G. H. Packwood Mfg. Co. Thixotropic and fast breaking skin cleaner emulsion and process for producing the same. 2,948,686, 8-9-60, Cl. 252-153.
- Giannini Controls Corp.: See—
- Bondra, John J., Smith, and Miller. 2,922,632.
- Carey, Stuart. 2,940,316.
- Ducati, Adriano C. 2,922,855.
- Harvey, Wirt T., Sardou, and Bass. 2,929,288.
- Karg, Fred H. 2,959,729.
- Mounter, Carlyle A., Riegelman, and Hughes. 2,948,887.
- Rainsberger, Paul J., and Fischer. 2,950,908.
- Giannini, Gabriel M., and A. C. Ducati, to Plasmadyne Corp. Plasma stream apparatus and methods. 2,922,869, 1-26-60, Cl. 219-75.
- Giannini, Gabriel M., and A. C. Ducati, to Plasmadyne Corp. Self-circulating plasma device. 2,929,952, 3-22-60, Cl. 313-231.
- Giannini, Gabriel M., and V. H. Blackman, to Plasmadyne Corp. High-intensity electrical plasma-jet torch incorporating magnetic nozzle means. 2,944,140, 7-5-60, Cl. 219-123.
- Giannone, Thomas J. Toy whale. 2,920,419, 1-12-60, Cl. 46-92.
- Giannuzzi, George A., to International Business Machines Corp. Data translation and printing. 2,966,114, 12-27-60, Cl. 101-93.
- Gianola, Umberto F.: See—
- Crowley, Thomas H., and Gianola. 2,963,591.
- Gianotto, Pietro, to Fiat Societa per Azioni. Commutator for dynamo-electric machines and method of manufacturing. 2,953,693, 9-20-60, Cl. 310-235.
- Giao, Antonio, and F. H. Raymond. Apparatus for calculating a mathematical function through electrical means. 2,925,956, 2-23-60, Cl. 235-61.6.
- Giardini, Gino A. Body cooling device. 2,959,938, 11-15-60, Cl. 62-384.
- Gibb, John F., to National Tank Co. Bolted tank structure. 2,925,193, 2-16-60, Cl. 220-81.
- Gibb, John F., to National Tank Co. Bolt head having stress free protective rubber covering. 2,933,006, 4-19-60, Cl. 85-1.
- Gibbon, John: See—
- Casey, Robert F., and Gibbon. 2,921,192.
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- Gibbons, Ambrose J., Jr., and S. D. Rosenberg, to Metal and Thermit Corp. Process for the preparation of vinyltin compounds. 2,962,522, 11-29-60, Cl. 260-429.7.
- Gibbons, Benjamin F. Therapeutic heat and massage table. 2,960,986, 11-22-60, Cl. 128-373.
- Gibbons, Charles G., to Baker Perkins, Inc. Rack proofing apparatus. 2,931,483, 4-5-60, Cl. 198-24.
- Gibbons, Edward J., to Colgate-Palmolive Co. Scouring device. 2,921,324, 1-19-60, Cl. 15-134.
- Gibbons, John P., and L. R. Morrow, to Corn Products Co. Mixed methyl glucoside-glycerol fatty acid ester emulsifiers. 2,931,797, 4-5-60, Cl. 260-210.
- Gibbons, Martin D.: See—
- Stout, Virgil L., and Gibbons. 2,926,981.
- Gibbons, Wesley A. Window screens for automobiles. 2,937,700, 5-24-60, Cl. 160-354.
- Gibbs, Cleo A. Manipulative holder for testing purposes. 2,945,491, 7-19-60, Cl. 128-2.
- Gibbs, Irving: See—
- Brooks, Lester A., and Gibbs. 2,920,104.
- Gibbs, Irving, to R. T. Vanderbilt Co., Inc. Pelletized acceleration containing polyisobutylene. 2,933,464, 4-19-60, Cl. 260-23.
- Gibbs, Joseph P., to Consolidated Electrodynamics Corp. Transducer. 2,931,994, 4-5-60, Cl. 338-41.
- Gibbs, Orlin J.: See—
- Gebhart, Julius C., and Gibbs. 2,940,925.
- Gibbs, Thomas B., to The Goodyear Tire & Rubber Co. Electric heating element and method of and apparatus for producing it. 2,929,909, 3-22-60, Cl. 219-46.
- Gibbs, Thomas B., to The Goodyear Tire & Rubber Co. Tire retreading. 2,938,100, 5-24-60, Cl. 219-20.
- Gibbs, William G., to United States Steel Corp. Strip furnace detecting apparatus for continuous strip furnaces. 2,952,451, 9-13-60, Cl. 263-3.
- Gibel, Stephen J. Muffler. 2,954,839, 10-4-60, Cl. 181-56.
- Gibian, Heinz, and G. Bratfisch, to Schering A.G. Ferments of the papain type and process of making same. 2,950,227, 8-23-60, Cl. 195-66.
- Gibney, Gerard G., to Gulton Industries, Inc. Device for measuring liquid flow. 2,936,619, 5-17-60, Cl. 73-194.
- Giboney, Ray E., to Westinghouse Electric Corp. Control for automatic punch and notch line. 2,933,002, 4-19-60, Cl. 83-222.
- Giboney, Ray E., and G. E. King, to Westinghouse Electric Corp. Sample data control apparatus. 2,933,626, 4-19-60, Cl. 307-117.
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- Maguire, Frederick A. 2,926,777.
- Gibson, Alan F.: See—
- Arthur, James B., Bardsley, Brown, and Gibson. 2,931,958.
- Gibson Art Co.: See—
- Townsend, Elmer D., Jr., and Hoffmann. 2,935,807.
- Gibson, Bryce W.: See—
- Conder, Forest E., and Gibson. 2,964,789.
- Gibson, Christian D., to The Raymond Corp. Material handling truck. 2,925,887, 2-23-60, Cl. 187-9.
- Gibson, Christian D., to The Raymond Corp. Material handling truck. 2,942,679, 6-28-60, Cl. 180-82.
- Gibson, Colin C. Folding seat. 2,957,515, 10-25-60, Cl. 155-133.
- Gibson, Edwin T.: See—
- Burque, Francis, and Gibson. 2,956,751.
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- Bukalders, Edwards, Chadwick, Ogden, Gibson, and Greaves. 2,952,063.
- Gibson, Eugene C., to American Viscose Corp. Helical spring sleeve for lathes. 2,956,463, 10-18-60, Cl. 82-39.
- Gibson, Fred D., Jr. Inert lead dioxide anode and process of production. 2,945,791, 7-19-60, Cl. 204-57.
- Gibson, George M. Dishwashing machine. 2,929,565, 3-22-60, Cl. 239-220.
- Gibson, Gerard M. Electrical connector. 2,934,737, 4-26-60, Cl. 339-97.
- Gibson, Gordon M., to G. M. Gibson, as trustee. Select speed accessory group drive. 2,957,372, 10-25-60, Cl. 74-722.
- Gibson, Harry T., to U.S. Industries, Inc. Mail sorting apparatus. 2,936,556, 5-17-60, Cl. 53-74.
- Gibson-Homans Co. The: See—
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- Gibson, Howard B., and H. G. Tomer, to The Thomas & Betts Co. Set-screw type terminal connector lug. 2,920,305, 1-5-60, Cl. 339-272.
- Gibson, John C., and T. L. Bowers, to International Telephone and Telegraph Corp. Non-blocking link-access switching system. 2,945,211, 7-12-60, Cl. 340-147.
- Gibson, John W.: See—
- Eggertsen, Frank T., and Gibson. 2,952,630.
- Gibson, Ordean W. Grapple gaff. 2,924,482, 2-9-60, Cl. 294-26.
- Gibson, Paul: See—
- Starmann, Raymond W., and Gibson. 2,966,457.
- Steiner, Charles S., and Gibson. 2,946,748.
- Gibson, Richard F.: See—
- Old, Albert F., and Gibson. 2,939,693.
- Old, Albert F., Gibson, and Duey. 2,933,187.
- Gibson, Ronald L.: See—
- Armentrout, James L., and Gibson. 2,947,232.
- Gibson, Thomas M., to Consolidated Electrodynamics Corp. Apparatus for reeling wet paper. 2,952,201, 9-13-60, Cl. 95-94.
- Gibson, Van R., Jr., to General Electric Co. Compensated noise cancelling circuit. 2,950,344, 8-23-60, Cl. 178-7.3.
- Gibson, Walter G.: See—
- Pritchard, Dalton H., Schroeder, and Gibson. 2,925,462.
- Gibson, Walter G., and A. C. Schroeder, to Radio Corp. of America. Color television systems. 2,920,130, 1-5-60, Cl. 178-5.2.
- Gibson, Walter G., and A. C. Schroeder, to Radio Corp. of America. Picture signal compensation by change of beam size. 2,921,128, 1-12-60, Cl. 178-7.2.
- Gibson, Walter G., and A. C. Schroeder, to Radio Corp. of America. Video signal compensating circuitry. 2,929,870, 3-22-60, Cl. 178-7.1.
- Gibson, Walter G., and A. C. Schroeder to Radio Corp. of America. Video signal compensation. 2,957,042, 10-18-60, Cl. 178-7.1.
- Gibson, William, to The Daily Mirror Newspapers Ltd. Securing tabs for printing paper rolls. 2,920,835, 1-12-60, Cl. 242-58.5.
- Gibson, William J.: See—
- Ingram, Orville, and Wine. 2,962,983.
- Wine, William E., Ingram, and Gibson. 2,962,982.
- Gibson, William R., to Armstrong Cork Co. Air cooling system. 2,964,879, 12-20-60, Cl. 49-40.
- Giddey, Claude, to F. P. Research Ltd. Artificial fibres. 2,947,644, 8-2-60, Cl. 106-157.
- Giddey, Claude, to F.P. Research Ltd. Protein compositions and process of producing the same. 2,952,542, 9-13-60, Cl. 99-14.
- Giddings & Lewis Machine Tool Co.: See—
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- Giebel, Elmer J. Bracket for bait can. 2,920,855, 1-12-60, Cl. 248-226.



- Giel, George J., to The Bendix Corp. Code conversion system. 2,963,697, 12-6-60, Cl. 340—347.
- Giellerup, Leon W., to Girder Process, Inc. Nameplate re-activator. 2,951,463, 9-6-60, Cl. 118—224.
- Gienza, Charles H.: *See—*  
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- Gienger, Fred, to General Telephone Laboratories, Inc. Switch bank insulating element. 2,920,246, 1-5-60, Cl. 317—112.
- Gieringer, Carl K., to The Cincinnati Time Recorder Co. Program timer. 2,922,900, 1-26-60, Cl. 307—141.8.
- Gierke, Wayne, and F. L. Guyer. Reverse signaling device for vehicles. 2,940,416, 6-14-60, Cl. 116—28.
- Gies, Helmut, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Green polyazo-dye-stuffs. 2,966,483, 12-27-60, Cl. 260—171.
- Gieseler, Luther P. Method and means for simulating a transient signal. 2,962,662, 11-29-60, Cl. 328—34.
- Gieseler, Luther P. Firing control circuit. 2,962,966, 12-6-60, Cl. 102—18.
- Giesen, Johann: *See—*  
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- Gifford, William E., to Arthur D. Little, Inc. Refrigeration method and apparatus. 2,966,035, 12-27-60, Cl. 62—6.
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- Gift, John, to Kayser-Roth Corp. Surgical stockings. 2,948,132, 8-9-60, Cl. 66—178.
- Giger, Adolf J., to Bell Telephone Laboratories, Inc. High speed transistor switch. 2,961,553, 11-22-60, Cl. 307—88.5.
- Giger, Urs, to Eta A.G. Ebauches-Fabrik. Automatic regulating device for a watch. 2,933,883, 4-26-60, Cl. 58—109.
- Giguere, Albert E. Fishing hook spreader device. 2,935,810, 5-10-60, Cl. 43—42.74.
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Connell, Philip T. 2,919,515.  
Ryan, Charles. 2,921,873.  
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- Gilbert Associates, Inc.: *See—*  
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- Gilbert, Everett E., to Allied Chemical Corp. Diels-alder adduct of tetrachloro-cyclopentadiene with quinone as a fungicide. 2,936,262, 5-10-60, Cl. 167—30.
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- Gilbert, Fred E., to Arden Farms Co. Article handling method and apparatus. 2,934,378, 4-26-60, Cl. 302—2.
- Gilbert, George R.: *See—*  
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- Gilbert, Harry A.: *See—*  
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- Gilbert, Herman S.: *See—*  
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- Gilbert, Jack, to General Slicing Machine Co., Inc. Automatic locking, detachable carriage for food slicing machines. 2,931,406, 4-5-60, Cl. 146—102.
- Gilbert, Jack H. Resilient finger string anchor eyelet. 2,926,440, 3-1-60, Cl. 40—21.
- Gilbert, James M.: *See—*  
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- Gilbert, James M., to Silvray Lighting, Inc. Ceiling illuminating system. 2,951,147, 8-30-60, Cl. 240—9.
- Gilbert, John E. Detachable table tray. 2,946,634, 7-26-60, Cl. 311—103.
- Gilbert, Leonard J.: *See—*  
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- Gilbert, Lewis F.: *See—*  
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- Gilbert, Marcellus N., Jr.: *See—*  
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- Gilbert, Normand W. Game ball. 2,944,823, 7-12-60, Cl. 273—143.
- Gilbert, Ronald A.: *See—*  
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- Gilbert, Ronald A., to D. Napier & Son Ltd. Combustion turbine power units. 2,945,350, 7-19-60, Cl. 60—39.75.
- Gilbert, Roswell W., to Daystrom, Inc. Integrating magnetic fluxmeter. 2,930,973, 3-29-60, Cl. 324—43.
- Gilbert, Roswell W., to Daystrom, Inc. Magnetic suspension. 2,946,930, 7-26-60, Cl. 317—123.
- Gilbert, Roswell W., to Daystrom, Inc. Apparatus for measuring large D.C. currents. 2,950,438, 8-23-60, Cl. 324—117.
- Gilbert, Roswell W., to Daystrom Inc. Electrical instrument. 2,953,747, 9-20-60, Cl. 324—114.
- Gilbert, Roswell W., to Daystrom, Inc. Modulator. 2,958,036, 10-25-60, Cl. 323—53.
- Gilbert, Roswell W., to Daystrom, Inc. Direct current gate circuit. 2,959,689, 11-8-60, Cl. 307—88.5.
- Gilbert, Samuel, to Bendix Aviation Corp. Starter having reverse torque release. 2,942,481, 6-28-60, Cl. 74—7.
- Gilbert, Samuel, to The Bendix Corp. Self-aligning clutch assembly. 2,953,227, 9-20-60, Cl. 192—84.
- Gilbert, Samuel, to Schlage Lock Co. Door latch and lock mechanism. 2,962,320, 11-29-60, Cl. 292—337.
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- Gilbert, Vernon J., to Syntro Co. Garter spring constriction restrictor. 2,948,527, 8-9-60, Cl. 267—1.
- Gilbert, Walter J., to Syntro Co. Strut bearing seal. 2,950,932, 8-30-60, Cl. 286—8.
- Gilbert, Walter J., Sr., to Syntro Co. Continuously washed shaft seal. 2,946,608, 7-26-60, Cl. 286—8.
- Gilbert, William S.: *See—*  
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- Gilbreath, Elbert H., Jr., to Southern Machine Co., Inc. Machine for the removal of loose threads from tufted fabric. 2,922,214, 1-26-60, Cl. 26—2.
- Gilbride, Andrew J., and A. W. Rockwell, Jr., to United Shoe Machinery Corp. Machines for shaping uppers over lasts. 2,926,367, 3-1-60, Cl. 12—12.4.
- Gilbride, Andrew J., and A. W. Rockwell, Jr., to United Shoe Machinery Corp. Machines for shaping uppers over lasts. 2,934,774, 5-3-60, Cl. 12—12.7.
- Gilchrist, Albert D., to The Leece-Neville Co. Electric generators. 2,939,021, 5-31-60, Cl. 310—42.
- Gilchrist, Edgar S.: *See—*  
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- Gilchrist, James G., to International Minerals & Chemical Corp. Granular phosphate material. 2,948,589, 8-9-60, Cl. 23—109.
- Gilchrist, James M., Jr. Fold flat standard base and display shelf. 2,921,692, 1-19-60, Cl. 211—135.
- Gilchrist, John: *See—*  
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- Gilchrist, Robert F. Well pumping system. 2,942,554, 6-28-60, Cl. 103-49.
- Giles, Bill L., to Phillips Petroleum Co. Underground storage product removal. 2,961,841, 11-29-60, Cl. 62-48.
- Giles, Homer W.: *See*—  
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- Giles, John G., to The Motor Industry Research Association. Variable ratio hydraulic torque converter. 2,924,123, 2-9-60, Cl. 74-687.
- Giles, John K. De-icing device. 2,939,582, 6-7-60, Cl. 210-149.
- Giles, Ralph R.: *See*—  
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- Giles, William N. Shelter for small animals. 2,932,279, 4-12-60, Cl. 119-15.
- Giles, William O. Apparatus and process for continuously producing deep fat fried food products. 2,936,698, 5-17-60, Cl. 99-354.
- Giletta, Dario: *See*—  
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- Giletta, Dario S., A. Pacciarini, and M. Zuliani, to Pirelli S.p.A. Apparatus for making tire casings. 2,936,023, 5-10-60, Cl. 154-10.
- Gillfillan Bros. Inc.: *See*—  
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Johnson, Thomas J. 2,929,157.  
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- Gillfillan, Edward S., and E. Root, III. Magnetic mine firing circuit. 2,958,280, 11-1-60, Cl. 102-18.
- Gillfillan, Edward S., Jr. Differential thermocouple assembly. 2,964,946, 12-20-60, Cl. 73-359.
- Gilfix, Philip: *See*—  
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- Gilberty, James V. Method and means for controlling the jet thrust of an aircraft. 2,951,660, 9-6-60, Cl. 244-23.
- Gilinson, Philip J., Jr., to Research Corp. Demagnetizing circuit for electromagnetic apparatus. 2,959,722, 11-8-60, Cl. 313-492.
- Gilkey, Russell: *See*—  
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Caldwell, John R., and Gilkey. 2,945,010.  
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- Gill, Andrew S., Jr., and E. H. Lindeman, to Eaton Mfg. Co. Vehicle suspension load compensator. 2,948,548, 8-9-60, Cl. 280-124.
- Gill, Donald W., to The Frank F. Taylor Co. Folding baby jumper. 2,927,628, 3-8-60, Cl. 155-18.
- Gill, Frank R. Combined spark arrester and muffler for internal combustion engines. 2,936,844, 5-17-60, Cl. 181-36.
- Gill, Harvey J., Jr., C. K. Sitterly, and W. Preu, to Caradco Inc. Hinged window construction. 2,948,027, 8-9-60, Cl. 20-42.
- Gill, John B. Tool for cutting pipe. 2,962,814, 12-6-60, Cl. 30-100.
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- Gill, Vincent A., to The Weatherhead Co. Coupling. 2,926,934, 3-1-60, Cl. 284-18.
- Gill, Vincent A., and H. J. Britton; said Gill assor. of 1/2 to The Weatherhead Co. Quick disconnect valved coupling. 2,948,553, 8-9-60, Cl. 284-4.
- Gillaspie, Charles C., to United States of America, Interior. Overload protection device for direct current generators. 2,962,632, 11-29-60, Cl. 317-13.
- Gille, Willis H., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,938,435, 5-31-60, Cl. 89-41.
- Gilles, Helmut: *See*—  
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- Gillespie, Charles N.: *See*—  
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- Gillespie, James F. Flashlight. 2,945,944, 7-19-60, Cl. 240-10.68.
- Gillett, Fredric M., and A. A. Katz, to United States of America, Air Force. Method for manufacturing etched circuitry. 2,965,952, 12-27-60, Cl. 29-155.5.
- Gillette Co., The: *See*—  
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Sinclair, Robert L. 2,936,902.
- Gillette, Edward F. Swimming pool filter. 2,960,232, 11-15-60, Cl. 210-169.
- Gillette, Frank N., to General Precision, Inc. Automatic focusing system. 2,964,590, 12-13-60, Cl. 178-7.2.
- Gillette, Roy A., to J. I. Case Co. Synchronized multiple motor hydraulic power lift. 2,925,871, 2-23-60, Cl. 172-303.
- Gillette, Roy A., to J. I. Case Co. Selective hydraulic actuating means. 2,928,482, 3-15-60, Cl. 172-304.
- Gillette, Roy A., to J. I. Case Co. Means for facilitating attaching and detaching an earth working implement with respect to a tractor. 2,941,606, 6-21-60, Cl. 172-273.
- Gillette, Roy A., and H. A. Ralston, to J. I. Case Co. Means for mounting an implement onto a tractor. 2,928,481, 3-15-60, Cl. 172-273.
- Gillette, Sidney G., to Los Angeles By-Products Co. Apparatus for extracting magnetic objects from rubbish. 2,964,184, 12-13-60, Cl. 209-215.
- Gilliam, George R., to Allied Chemical Corp. Pelletizing of nitraphosphate fertilizer. 2,939,781, 6-7-60, Cl. 71-64.
- Gilliam, James P. Slip check valve. 2,942,617, 6-28-60, Cl. 137-454.6.
- Gilliam, Council B. Tape holder and dispenser. 2,931,645, 4-5-60, Cl. 270-86.
- Gilliard, Allen F., and C. W. Held, to Cherry-Burrell Corp. Float-operated butterfly valve. 2,934,082, 4-26-60, Cl. 137-315.
- Gillick, Thomas J., Jr.: *See*—  
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- Gilliland, Joe E., R. Ray, and W. E. White, to Ozark-Mahoning Co. Method of production of stannous fluoride. 2,924,508, 2-9-60, Cl. 23-88.
- Gilliland, Joe E., R. Ray, and W. E. White, to Ozark-Mahoning Co. Method of production of stannous fluoride. 2,955,914, 10-11-60, Cl. 23-88.
- Gilliland, William H., to USCO Power Equipment Corp. Rigid bus switching station and improved switch support therefor. 2,958,745, 11-1-60, Cl. 200-48.
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- Gilliom, Richard D.: *See*—  
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- Gillman, Joseph L., Jr. Oburator. 2,942,525, 6-28-60, Cl. 89-26.
- Gillmore, John E., Sr., to Crown Zellerbach Corp. Horizontal compartmentalized nursery box. 2,948,454, 8-9-60, Cl. 229-23.
- Gillmore, John E., Sr. Container with rigidizing corner structure and process of erecting same. 2,963,210, 12-6-60, Cl. 229-31.
- Gillon, John W. Golf club with angle of view indicator. 2,929,631, 3-22-60, Cl. 273-163.
- Gillson, Joseph L., Jr., to E. I. du Pont de Nemours and Co. Apparatus for generating visible light by photoelectroluminescence. 2,933,602, 4-19-60, Cl. 250-71.
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- Gillum, Donald E., to U.S. Industries, Inc. Aircraft G-limiter. 2,957,653, 10-25-60, Cl. 244-77.
- Gilman, Martin J. Self-erecting football dummy. 2,937,872, 5-24-60, Cl. 273-55.
- Gilman, Morris A. Liquid level control. 2,922,002, 1-19-60, Cl. 200-83.
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- Gilman, Samuel, to American Machine & Foundry Co. Detecting apparatus. 2,937,280, 5-17-60, Cl. 250-83.3.
- Gilman, Stanley F., and K. H. Miller, to Carrier Corp. Heat exchangers employing thermoelectric elements for heat pumping. 2,959,017, 11-8-60, Cl. 62-3.
- Gilman, Warren B.: *See*—  
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- Gilmer, Mary K. Neck rest for hair shampoo bowls. 2,948,903, 8-16-60, Cl. 4-59.
- Gilmont, Roger, to Manostat Corp. Analytical device. 2,946,486, 7-26-60, Cl. 222-38.
- Gilmore, Chace D. Method of making die attachments for doughnut making machines. 2,962,810, 12-6-60, Cl. 29-445.



- Gilmore, Dale T., to Sonneman Products, Inc. Continuous method of making popped corn balls. 2,958,602, 11-1-60, Cl. 99-80.
- Gilmore, Edward R., to K. L. Schaus. Unitary diaphragm and carrier wire assembly for gas meters. 2,923,322, 2-2-60, Cl. 137-785.
- Gilmore, Edward R., and H. E. Spore, to Rockwell Mfg. Co. Fluid flow system and control therefor. 2,949,125, 8-16-60, Cl. 137-100.
- Gilmore, Forrest E., to Phillips Petroleum Co. Process for separating normal aliphatic hydrocarbons using zeolitic molecular sieves. 2,921,970, 1-19-60, Cl. 260-676.
- Gilmore, Forrest E., to Phillips Petroleum Co. Hydrocarbon reforming. 2,929,772, 3-22-60, Cl. 208-99.
- Gilmore, Forrest E., to Phillips Petroleum Co. Processing of hydrocarbon gases. 2,952,983, 9-20-60, Cl. 62-17.
- Gilmore, Forrest E., to Phillips Petroleum Co. Prevention of hydrate formation in refrigerated overhead condenser and accumulator. 2,956,411, 10-18-60, Cl. 62-20.
- Gilmore, Lyle D., to Texas Gulf Sulphur Co. Sulphur vat wall form. 2,964,790, 12-20-60, Cl. 18-39.
- Gilmore, Merwin W., and H. H. Tatge. Grain dryer. 2,925,666, 2-23-60, Cl. 34-102.
- Gilmore, Merwin W., and H. H. Tatge. Grain cleaner. 2,925,910, 2-23-60, Cl. 209-11.
- Gilmore, Samuel E., to Fluid Mechanics Co. Valve. 2,939,479, 6-7-60, Cl. 137-469.
- Gilovich, Paul A., to International Business Machines Corp. Positioning mechanism. 2,924,201, 2-9-60, Cl. 121-41.
- Gilpatrick, George E., to The Stanley Works. Door latch. 2,942,906, 6-28-60, Cl. 292-224.
- Gilreath, Lafayette E. Hydraulic motor. 2,934,044, 4-26-60, Cl. 121-70.
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- Gilson, Joseph H., and V. M. Teerlinck, to General Motors Corp. Pivoting seat. 2,939,511, 6-7-60, Cl. 155-5.
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- Gilson, Paul R., to Burroughs Corp. Tape transport system. 2,952,415, 9-13-60, Cl. 242-55.12.
- Gilson, Paul R., to Burroughs Corp. Magnetic amplifier. 2,965,835, 12-20-60, Cl. 323-89.
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- Gilstrap, Doc L. Expansion comb or hook reed for slashers and beavers. 2,950,519, 8-30-60, Cl. 28-55.
- Gimera, Ralph J., E. F. Weisner, and J. R. Wetch, to North American Aviation, Inc. Variable-spaced nuclear reactor fuel assembly. 2,947,678, 8-2-60, Cl. 204-193.2.
- Gimson, Keith F.: See—
- Crowther, Gerald O., and Gimson. 2,956,156.
- Ginaven, Marvin E., to The Bauer Bros. Co. Fiberizing press. 2,935,931, 5-10-60, Cl. 100-117.
- Gindes, Philip, and A. C. Hughes, Jr., to Genisco, Inc. Accelerometer with built-in precheck means. 2,949,026, 8-16-60, Cl. 73-1.
- Gindroz, Frank, Jr., to Electrical Engineering & Mfg. Corp. Constant frequency alternator. 2,930,963, 3-29-60, Cl. 322-56.
- Ginette, Lewis F.: See—
- Morgan, Arthur I., Jr., and Ginnette. 2,955,046.
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- Gingher Mfg. Co.: See—
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- Gingrande, Arthur, to Columbia Broadcasting System, Inc. Electron tubes and method of making same. 2,934,670, 4-26-60, Cl. 313-344.
- Gingras, Marcel, to Dominion Corset Co. Ltd. Brassieres. 2,919,698, 1-5-60, Cl. 128-489.
- Gingras, Richard E., to United Aircraft Corp. Compressor blade limit stops. 2,944,787, 7-12-60, Cl. 253-77.
- Ginn, Delwin C., to Linemaster Switch Corp. Foot switch. 2,957,960, 10-25-60, Cl. 200-86.5.
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- Morgan, Arthur I., Jr., and Ginnette. 2,955,043.
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- Schoenfelder, Herbert, and Ginsberg. 2,939,764.
- Schoenfelder, Herbert, and Ginsberg. 2,939,765.
- Ginsberg, Hans, and G. Wilde, to Vereinigte Aluminium-Werke, Aktiengesellschaft. Method of producing titanium and titanium alloys. 2,939,786, 6-7-60, Cl. 75-175.5.
- Ginsberg, Helen F., and D. Papa, to Schering Corp. Alkyl ethers of polyiodophenyl propionic acids. 2,951,089, 8-30-60, Cl. 260-519.
- Ginsburg, Charles P., S. F. Henderson, Jr., R. M. Dolby, and C. E. Anderson, to Ampex Corp. Magnetic tape system and method. 2,921,990, 1-19-60, Cl. 179-100.2.
- Ginsburg, Charles P., S. F. Henderson, Jr., R. M. Dolby, and C. E. Anderson, to Ampex Corp. Broad band magnetic tape system and method. 2,956,114, 10-11-60, Cl. 178-66.
- Ginter, Earle F., to Socony Mobil Oil Co., Inc. Method of extending onstream portion of cycle during reforming by reversing direction of flow. 2,944,000, 7-5-60, Cl. 208-65.
- Ginther, Roger E.: See—
- Smith, Wesley A., and Ginther. 2,945,536.
- Ginzton, Edward L., to The Board of Trustees of The Leland Stanford Jr. University. Variable output linear accelerator. 2,920,228, 1-5-60, Cl. 315-3.6.
- Giordano, Anthony, to The Harshaw Chemical Co. Process for producing potassium meta-antimonate. 2,926,994, 3-1-60, Cl. 23-53.
- Giovetti, Giuliano. Fabric display dummy having a figure partly connected to a surrounding frame. 2,965,981, 12-27-60, Cl. 35-56.
- Gipe, Robert C., to United States of America, Navy. Power modulator for conically scanning capture radar. 2,961,656, 11-22-60, Cl. 343-100.
- Giraitis, Albert P., to Ethyl Corp. Method of purifying organometallic complexes and their use in the preparation of organolead compounds. 2,944,948, 7-12-60, Cl. 204-59.
- Giraitis, Albert P., T. H. Pearson, and R. C. Pinkerton, to Ethyl Corp. Organo manganese compounds. 2,960,450, 11-15-60, Cl. 204-59.
- Girard, Jack L. Spinner for cleaning tanks. 2,954,038, 9-27-60, Cl. 134-167.
- Girardi, Antonio L. Orchard apparatus. 2,927,705, 3-8-60, Cl. 214-83.1.
- Girardi, Antonio L. Fruit harvesting and spray mechanism. 2,961,991, 11-29-60, Cl. 118-24.
- Girardin, Leon J., to United Aircraft Corp. Actuator latch mechanism. 2,936,995, 5-17-60, Cl. 251-29.
- Girardot, Alfred J., Jr.: See—
- Bacon, Robert M., and Girardot. 2,940,015.
- Girardot, Alfred J., Jr.,  $\frac{1}{2}$  to R. M. Bacon, and  $\frac{1}{2}$  to E. P. Raymond. Disconnect switch mechanism. 2,964,606, 12-13-60, Cl. 200-168.
- Girardot, Peter R., to Bjorksten Research Laboratories, Inc. Preparation of pure silicon or germanium from their alkyls. 2,927,004, 3-1-60, Cl. 23-223.5.
- Girardot, Peter R., to Columbia-Southern Chemical Corp. Process for preparing zirconium chlorides. 2,931,705, 4-5-60, Cl. 23-87.
- Giravions Dorand: See—
- Dorand René. 2,958,141.
- Girder Process, Inc.: See—
- Giellerup, Leon W. 2,951,463.
- Girdner, William I.: See—
- La Barre, Lawrence J., and Girdner. 2,945,331.
- Girerd, Rene J. Feeding gag. 2,920,616, 1-12-60, Cl. 128-12.
- Girling Ltd.: See—
- Bradfield, Herbert C., Barnard, Redmayne, and Davls. 2,921,654.
- Davis, John W. 2,951,561.
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- Nieset, Robert T. 2,925,465.
- Nieset, Robert T. 2,963,544.
- Girolo, George S. Milk receiving jar. 2,920,641, 1-12-60, Cl. 137-193.
- Girouard, Philias H., to United States of America, Navy. Gunfire computer. 2,942,777, 6-28-60, Cl. 235-61.5.
- Girsch, Sheldon: See—
- Berman, Nelson, and Girsch. 2,938,198.
- Girton, Preston E.: See—
- Namur, Carl A. 2,963,978.
- Taylor, Roy M., and Girton. 2,929,915.
- Girton, Preston E., to Kirkhof Mfg. Corp. Primary disconnect plug for welding transformers. Re. 24,838, 6-14-60, Cl. 219-116.
- Gisholt Machine Co.: See—
- Helmke, Edward C. 2,920,332.
- Johnson, Charles H. 2,924,127.
- Johnson, Charles H. 2,952,169.
- Leifer, Lorenz A. 2,948,542.
- Leifer, Lorenz A. 2,952,168.
- Trechsel, Hans W. 2,952,500.
- Gislon, Andre, J. Quiquerez, and J. D. Maurin. Method of stabilizing petroleum products. 2,921,895, 1-19-60, Cl. 208-207.
- Gisner, Bo, and F. J. O. W. Ohlsson, to Sandvikens Jernverks Aktiebolag. Sintered hard metal alloy. 2,924,875, 2-16-60, Cl. 29-182.7.
- Giss, Kurt, to Dianawerk Mayer & Grammelspacher. Air gun. 2,938,513, 5-31-60, Cl. 124-15.
- Gisvold, Ole. Poison ivy remedy. 2,951,012, 8-30-60, Cl. 167-58.
- Gitelson, Martin D., and R. L. Folstein. Changeable game board. 2,949,306, 8-16-60, Cl. 273-130.
- Githens, John A., to Bell Telephone Laboratories, Inc. Transistor delay circuits. 2,958,788, 11-1-60, Cl. 307-88.5.
- Gits Bros. Mfg. Co.: See—
- Andresen, Raymond H. and H. A. 2,919,939.
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- Gits, Joseph A.: See—
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- Gits, Jules P. and J. A. Molded article and method of making same. 2,931,119, 4-5-60, Cl. 41-22.
- Gittelson, Bernard, to Triumph-Universa G.m.b.H. Bust measuring device. 2,946,125, 7-26-60, Cl. 33-2.
- Gittens, Victor S., to Philco Corp. Socket and support means for mounting electrical devices. 2,951,226, 8-30-60, Cl. 339-17.
- Gittens, Victor S., and L. Burke, to Philco Corp. Mounting and connecting arrangement for electrical circuit elements. 2,935,854, 5-3-60, Cl. 317-101.



- Gittinger, Ted : *See*—  
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- Gittus, Thomas W., to Toledo Scale Corp. Printing plate. 2,953,989, 9-27-60, Cl. 101-384.
- Giudicelli, Pierre R. L. : *See*—  
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- Najer, Henry, and Giudicelli. 2,963,485.
- Giuffreda, Leonard J. : *See*—  
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- Giuffrida, Joseph, to Columbia Broadcasting System, Inc., d.b.a. CBS-Hytron, a Division of Columbia Broadcasting System, Inc. Amplifier tube. 2,922,059, 1-19-60, Cl. 313-3.
- Giuliano, Paul S., to Minneapolis-Honeywell Regulator Co. Toroidal winding machine. 2,959,365, 11-8-60, Cl. 242-4.
- Givaudan Corp., The : *See*—  
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- Eschlinazi, Habib-Emile. 2,946,823.
- Nikawitz, Edward J. 2,952,707.
- Given, Bertram, H. Jordan, and H. E. Karig, to Waste King Corp. External dishwasher structure. 2,958,911, 11-8-60, Cl. 20-35.
- Given, Harold S., to Corning Glass Works. Severing apparatus. 2,952,093, 9-13-60, Cl. 49-48.
- Given, Harold S., J. C. E. Schwab, and R. W. Wilson, to Corning Glass Works. Runway for supporting glass tubing. 2,952,944, 9-20-60, Cl. 49-17.1.
- Given Machinery Co. : *See*—  
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- Jordan, Hans. 2,940,677.
- Jordan, Hans. 2,945,635.
- Jordan, Hans. 2,948,482.
- Givens, Glenn G. : *See*—  
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- Givnan, James D. : *See*—  
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- Giwoosky, Harry L., to Realist, Inc. Slide viewer operable on batteries or line voltage. 2,954,623, 10-4-60, Cl. 40-63.
- Giwoosky, Harry L., to Realist, Inc. Device for moving irrigating units. 2,958,470, 11-1-60, Cl. 239-189.
- Gizeski, Terrence : *See*—  
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- Gjerde, Arne. Adjustable motor-driven saw. 2,937,672, 5-24-60, Cl. 143-6.
- Glab, William T., to Caradco Inc. Methods of making a lignocellulose product and products resulting therefrom. 2,964,416, 12-13-60, Cl. 106-163.
- Glaces de Boussois, S.A. : *See*—  
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- Glacier Metal Co. Ltd., The : *See*—  
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- Gladden, John N., and C. E. Rees, Jr., to Gladden Products Corp. Sequence timer. 2,938,969, 5-31-60, Cl. 200-33.
- Gladden, John N., and C. E. Rees, Jr., to Gladden Products Corp. Power braking system and control unit therefor. 2,959,450, 11-8-60, Cl. 303-24.
- Gladden Products Corp. : *See*—  
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- Gladden, John N., and Rees. 2,959,450.
- Gladding, McBean & Co. : *See*—  
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- Du Fresno, Robert S. 2,931,751.
- Glading, Robert E. : *See*—  
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- Gladnick, Irvin J., and A. C. Halter, to Allis-Chalmers Mfg. Co. Ground detector circuit for three phase Y-connected load. 2,941,121, 6-14-60, Cl. 317-27.
- Gladrow, Elroy M. : *See*—  
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- Gladrow, Elroy M., R. B. Mason, C. N. Kimberlin, Jr., and W. F. Arey, Jr., to Esso Research and Engineering Co. Production of middle distillates. 2,927,072, 3-1-60, Cl. 208-46.
- Gladrow, Elroy M., and W. J. Mattox, to Esso Research and Engineering Co. Hydrocarbon separation process using metallic amine complex substituted molecular sieves. 2,935,539, 5-3-60, Cl. 260-676.
- Gladrow, Elroy M., to Esso Research and Engineering Co. Activated carbon catalyst radiochemical hydrocarbon conversions. 2,962,431, 11-29-60, Cl. 204-154.
- Gladstone, Hope : *See*—  
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- Gladstone, Louis, deceased (H. Gladstone, executrix of said L. Gladstone). Door stop. 2,929,647, 3-22-60, Cl. 292-60.
- Gladstone, Martell M., to Witco Chemical Co., Inc. Process of preparing esters of acetyl tartaric and citric acids. 2,938,027, 5-24-60, Cl. 260-234.
- Gladu, Amedee J. : *See*—  
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- Glamann, Wilhelm. Internal combustion engines. 2,958,405, 11-1-60, Cl. 192-3.
- Glanzer, Clarence J., to Farr Co. Stack type oil bath filter. 2,966,231, 12-27-60, Cl. 183-12.
- Glar-Ban Corp. : *See*—  
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- Glaros, Emanuel M. Highway guard rail structures. 2,942,853, 6-28-60, Cl. 256-13.1.
- Glas, Arthur : *See*—  
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- Glas, Maurus. Hydraulic cylinder unit. 2,945,353, 7-19-60, Cl. 60-97.
- Glasby, Jonathan P., Jr. Aircraft. 2,949,255, 8-16-60, Cl. 244-42.
- Glaser, Cleland H., to Allied Mills, Inc. Bulk material unloader. 2,942,714, 6-28-60, Cl. 198-5.
- Glaser, David, and H. Wittecoff, to General Mills, Inc. Thixotropic coating vehicle containing a short oil alkylid resin and a copolymer polyamide resin. 2,932,623, 4-12-60, Cl. 260-22.
- Glaser, Donald A. : *See*—  
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- Glaser, Edward L. : *See*—  
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- Glaser, Eugene : *See*—  
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- Glaser, Frank W., to Borolite Corp. Cemented zirconium boride material having a protective chromium containing coating. 2,936,250, 5-10-60, Cl. 117-118.
- Glaser, Hermann : *See*—  
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- Glaser, Jerry, E. L. Kumm, H. J. Roschak, and W. A. Stoner, to Curtiss-Wright Corp. Fuel pump. 2,956,502, 10-18-60, Cl. 103-87.
- Glaser, Kurt, to Institut fur Werkzeugmaschinen. Indexing transmission for gear-wheel producing machines. 2,933,938, 4-26-60, Cl. 74-425.5.
- Glaser, Kurt F. : *See*—  
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- Glaser Products Corp. : *See*—  
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- Walker, Jay P., and Glasgow. 2,942,689.
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- Glasgow, Clarence O., to National Tank Co. Liquid and gas metering separators. 2,936,622, 5-17-60, Cl. 73-224.
- Glasgow, Clarence O., and A. W. Francis, Jr., to National Tank Co. Heaters for petroleum fluids. 2,921,774, 1-19-60, Cl. 257-256.
- Glasgow, Clarence O., and J. O. Brown, to National Tank Co. Fluid pressure control system. 2,944,562, 7-12-60, Cl. 137-270.
- Glasgow, Clifford J. Attachable container bracket for ladders. 2,950,080, 8-23-60, Cl. 248-210.
- Glasgow, Edsel R. and C. O. Container mounted fluid pressure displacement pump. 2,943,765, 7-5-60, Cl. 222-110.
- Glasoe, Karl M., Jr., to Thorpe Insulation Co. Insulated structure. 2,928,565, 3-15-60, Cl. 220-9.
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- Glass Containers Corp. : *See*—  
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- Glass, Eugene D., and S. J. Pirson, to Pan American Petroleum Corp. Plugging water and gas zones of wells. 2,923,356, 2-2-60, Cl. 166-45.
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- Glass, Myron S., to Bell Telephone Laboratories, Inc. Electron beam focusing magnetic circuit. 2,925,517, 2-16-60, Cl. 315-3.5.
- Glass, Neel W., to United States of America, Atomic Energy Commission. High current coaxial photomultiplier tube. 2,922,048, 1-19-60, Cl. 250-207.
- Glass, Parker F. : *See*—  
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- Glass, Robert T. Confection machine. 2,925,052, 2-16-60, Cl. 107-8.
- Glass, Robert T. Confection machine. 2,953,997, 9-27-60, Cl. 107-8.
- Glass, Robert W. Headgear. 2,933,734, 4-26-60, Cl. 2-9.
- Glass, William H., and J. R. Pier, to Westinghouse Air Brake Co. Filter unit. 2,930,445, 3-29-60, Cl. 183-4.3.
- Glass, Willie F. Spool and bobbin supporting rack for sewing machines. 2,940,685, 6-14-60, Cl. 242-139.



- Glasser, Ernest C., and W. Apatoff, to The Polyoptic Corp. Display device. 2,953,676, 9-20-60, Cl. 240-10.1.
- Glasser, Thomas H., and R. V. Klint, to General Electric Co. Damping turbine buckets. 2,948,506, 8-9-60, Cl. 253-77.
- Glassman, Alfred R., and G. H. Bensen, to Acme Pallet Co., Inc. Pallets. 2,922,606, 1-26-60, Cl. 248-120.
- Glassman, Louis H., R. E. Kemelhor, and K. E. Schuessler. Explosive bolt type store suspension system for aircraft. 2,953,064, 9-20-60, Cl. 89-1.5.
- Glasson, William J., to Hughes Aircraft Co. Fuel supply system. 2,955,413, 10-11-60, Cl. 60-35.6.
- Glasspool, William T., to Stoddart Aircraft Radio Co., Inc. Impedance balanced modulators. 2,955,266, 10-4-60, Cl. 332-47.
- Glasic Corp., The: See—  
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- Glatfelter, Arch P., to The Oliver Corp. One sided air mist sprayer for row crops. 2,938,672, 5-31-60, Cl. 239-77.
- Glatfelter, P. H., Co.: See—  
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- Glatzel, Erhard, to C. Zeiss. Photographic objective. 2,922,337, 1-26-60, Cl. 88-57.
- Glauber, John J., to United Electronics Co. Variable vacuum capacitor. 2,930,952, 3-29-60, Cl. 317-245.
- Glauberman, Marvin H., to Laboratory for Electronics, Inc. Symbol recognition system. 2,932,006, 4-5-60, Cl. 340-149.
- Glauberman, Marvin H., and R. C. Keltner, to Laboratory for Electronics, Inc. Data processing apparatus. 2,947,971, 8-2-60, Cl. 340-149.
- Glaude, Leopold F. Saw filing apparatus. 2,927,484, 3-8-60, Cl. 76-36.
- Glaus, Bernhard, to Ulrich Steinemann Aktiengesellschaft. Method of and apparatus for pouring varnish. 2,935,424, 5-3-60, Cl. 117-102.
- Glaus, Bernhard, to Ulrich Steinemann Aktiengesellschaft. Varnish feeding arrangement for pouring machines. 2,963,002, 12-6-60, Cl. 118-324.
- Glavan, Richard, to Stephens-Adamson Mfg. Co. Method of making flange type bearing. 2,952,897, 9-20-60, Cl. 29-148.4.
- Glavan, Richard, to Stephens-Adamson Mfg. Co. Method for making flange type self-aligning bearings. 2,952,899, 9-20-60, Cl. 29-148.4.
- Glavan, Richard, to Stephens-Adamson Mfg. Co. Method for making pillow block self-aligning bearing. 2,952,900, 9-20-60, Cl. 29-148.4.
- Glavan, Richard, and R. L. King, to Stephens-Adamson Mfg. Co. Method for making pillow block self-aligning bearing. 2,952,898, 9-20-60, Cl. 29-148.4.
- Glavin, Robert E., to Kalvar Corp. Material for use in a photographic reproduction system. 2,950,194, 8-23-60, Cl. 96-75.
- Glavis, Frank J., D. G. Downing, and H. M. Grotta, to Rohm & Haas Co. Polymerization of acrylic acid salts and the like. 2,956,046, 10-11-60, Cl. 260-80.5.
- Glaxo Laboratories Ltd.: See—  
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- Glaza, Felix S. Motor winding centrifugal contamination eliminator. 2,950,402, 8-23-60, Cl. 310-56.
- Glaze, Tom H., to Gordy Tire Co. Tire buffing machine. 2,961,039, 11-22-60, Cl. 157-13.
- Glazer, Irving D., to Dura Pak Corp. Bottle carrier stripping apparatus. 2,936,087, 5-10-60, Cl. 214-310.
- Glazer, Irving D., to Dura Pak Corp. Bottle carrier loading machine. 2,936,558, 5-17-60, Cl. 53-196.
- Glazer, Morris, and T. Padek, to Spray Away Wash Systems, Inc. Car washing rack. 2,965,305, 12-20-60, Cl. 239-195.
- Gleasman, Hollis K.: See—  
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- Gleasman, Hollis K., to The Bendix Corp. Two-speed hub gearing for velocipedes. 2,953,945, 9-27-60, Cl. 74-750.
- Gleasman, Hollis K., to The Bendix Corp. Two-speed bicycle hub transmission and brake. 2,956,654, 10-18-60, Cl. 192-6.
- Gleasman, Hollis K., to The Bendix Corp. Semi-automatic two-speed rear hub and coaster brake. 2,957,560, 10-25-60, Cl. 192-6.
- Gleasman, Hollis K., and E. E. Hood, to Bendix Aviation Corp. Manual shifting device for bicycle gearing. 2,936,650, 5-17-60, Cl. 74-489.
- Gleasman, Vernon E. Differential drive mechanism. 2,923,174, 2-2-60, Cl. 74-711.
- Gleasman, Vernon E., to The White Motor Co. Motor vehicle for traversing irregular terrain. 2,966,223, 12-27-60, Cl. 180-23.
- Gleason, Anthony H.: See—  
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- Gleason, Anthony H., to Esso Research and Engineering Co. Butadiene dimerization. 2,943,117, 6-28-60, Cl. 260-666.
- Gleason, Francis L. Snap-acting switch. 2,933,569, 4-19-60, Cl. 200-67.
- Gleason, Howard S., to General Dynamics Corp. Printing apparatus. 2,924,646, 2-9-60, Cl. 178-5.2.
- Gleason, John J., to The Rath Packing Co. Itaconic acid-modified triglyceride shortening composition and method of preparing the same. 2,966,412, 12-27-60, Cl. 99-118.
- Gleason Reel Corp.: See—  
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- Gleason, Walter W.: See—  
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- Gleason, Walter W., W. E. Lifson, and E. F. H. Pennekamp, to Esso Research and Engineering Co. Synthetic lubricating oil. 2,921,029, 1-12-60, Cl. 252-49.8.
- Gleason, William W., to Nachman Corp. Cushion formed of foamed material and metal members. 2,925,856, 2-23-60, Cl. 155-179.
- Gleason, William W., to Nachman Corp. Coil spring assembly. 2,945,245, 7-19-60, Cl. 5-351.
- Gleason, William W., to Nachman Corp. Spring assembly. 2,962,088, 11-29-60, Cl. 155-179.
- Gleason Works, The: See—  
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- Gleerup-Møller, Magdalin C. Perpetual calendar. 2,947,102, 8-2-60, Cl. 40-115.
- Gleeson, Murray A., to Goodman Mfg. Co. Supporting structure for flexible side-frame conveyor. 2,920,749, 1-12-60, Cl. 198-184.
- Gleeson, Murray A., to Goodman Mfg. Co. Flexible troughing roller assembly for a belt conveyor. 2,966,255, 12-27-60, Cl. 198-192.
- Glegg, Keith C. M., to Canadian Marconi Co. Noise reduction in continuous wave doppler radar systems. 2,935,743, 5-3-60, Cl. 343-8.
- Gleim, William K. T.: See—  
Chenicek, Joseph A., and Gleim. 2,926,086.  
Rosenwald, Robert H., and Gleim. 2,960,539.  
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- Gleim, William K. T., to Universal Oil Products Co. Reactivation of deactivated catalyst. 2,955,089, 10-4-60, Cl. 252-413.
- Gleim, William K. T., to Universal Oil Products Co. Sweetening sour hydrocarbon distillate with metal phthalocyanine catalyst in the presence of alkali air and sulfite ions. 2,966,452, 12-27-60, Cl. 208-206.
- Gleim, William K. T., and P. Urban, to Universal Oil Products Co. Oxidation of mercapto compounds. 2,966,453, 12-27-60, Cl. 208-206.
- Gleisner, William C., Jr., to Kearney & Trecker Corp. Machine tool elevating mechanism. 2,930,292, 3-29-60, Cl. 90-58.
- Gleitsman, Harold, and C. Fuerst, to Gleitsman's, Inc. Ottomans. 2,950,753, 8-30-60, Cl. 155-169.
- Gleitsman's, Inc.: See—  
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- Glen, Bruce L.: See—  
Olian, Howard, and Glen. 2,926,359.
- Glen Raven of California: See—  
McGraw, Lora. 2,927,699.
- Glendening, Major D., to Whirlpool Corp. Laundry machine with a built-in automatic lint filter. 2,936,604, 5-17-60, Cl. 68-18.
- Glendinning, William G., ½ to Gravier Mfg. Co. Ltd., and ½ to Wilkinson Sword Ltd. Fire suppressants. 2,921,897, 1-19-60, Cl. 252-8.1.
- Glenn, Ashley C., and A. H. Dall, to The Cincinnati Milling Machine Co. Surface grinding machine. 2,933,858, 4-26-60, Cl. 51-92.
- Glenn, Carl. Cigarette dispensing and lighting device. 2,930,506, 3-29-60, Cl. 221-145.
- Glenn, Dale T., to Pennsylvania Refining Co. Methods of cleaning out internal combustion engine carburetors. 2,955,964, 10-11-60, Cl. 134-23.
- Glenn Electric Heater Corp.: See—  
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- Glenn, Harry D.: See—  
Gates, Charles W., and Glenn. 2,929,846.
- Glenn, Howard J.: See—  
Zaug, Harold E., Michaels, and Glenn. 2,940,992.
- Glenn, Richard A.: See—  
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- Glenn, Robert G., to Westinghouse Electric Corp. Variable convergent-divergent exhaust nozzle. 2,931,169, 4-5-60, Cl. 60-35.6.
- Glenn, William E., to General Electric Co. Pickup stylus assembly. 2,961,244, 11-22-60, Cl. 274-37.
- Glenn, William E., Jr., to General Electric Co. Projection system. 2,943,147, 6-28-60, Cl. 178-7.5.
- Glenn, William E., Jr., to General Electric Co. Projection television system. 2,957,942, 10-25-60, Cl. 178-7.5.



- Glenner, Edward J., to General Telephone Laboratories, Inc. Telephone system dial back trunk. 2,921,988, 1-19-60, Cl. 179-27.
- Glenner, Edward J., and I. Molnar, to Automatic Electric Laboratories, Inc. Keysender using magnetic drum storage. 2,958,850, 11-1-60, Cl. 340-172.5.
- Glennon, James B., R. H. Park, N. N. Estes, and H. W. Klas. Anti-torpedo device. 2,941,493, 6-21-60, Cl. 114-240.
- Glenny, Arthur P., and M. B. Cotton, to The Sperry Gyroscope Co. Ltd. Gyroscope centring and caging apparatus. 2,960,874, 11-22-60, Cl. 74-5.1.
- Glenny, Clarence S., to The Washburn Co. Hamburger press. 2,929,099, 3-22-60, Cl. 17-32.
- Glenny, Clarence S., to The Washburn Co. Bicycle baskets. 2,944,712, 7-12-60, Cl. 224-32.
- Glenny, Raymond W. Cigarette snuffer. 2,931,367, 4-5-60, Cl. 131-256.
- Glickstein, Joseph: *See—*
- Mahon, Thomas J., Edelstein, and Glickstein. 2,954,678.
- Glidden Co., The: *See—*
- Bain, Joseph P. 2,935,526.
- Bain, Joseph P., and Garv. 2,933,542.
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- Booth, Albert B. 2,945,068.
- Johnson, Dale W., and Julian. 2,962,421.
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- Klein, Eugene A. 2,945,066.
- Klein, Eugene A. 2,945,067.
- Meyer, Edwin W., and Circle. 2,932,589.
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- Radlove, Sol B., Iveson, and Julian. 2,957,932.
- Raphael, Ralph A. 2,961,452.
- Rummery, Frank O., Roseman, and Gilbert. 2,950,984.
- Glengene, Ernest, to National Pneumatic Co., Inc. Debur-ing device. 2,921,504, 1-19-60, Cl. 90-1.4.
- Glinka, Carl. Process and apparatus for treating petroleum oils and solid fuels. 2,931,765, 4-5-60, Cl. 208-8.
- Glitz, Georgia E. Toy and game apparatus. 2,930,618, 3-29-60, Cl. 273-96.
- Globe Hoist Co.: *See—*
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- Globe Industries, Inc.: *See—*
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- Hohne, Jack C., Jr. 2,965,827.
- Isaacson, Max. 2,952,265.
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- Globe Lighting Products, Inc.: *See—*
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- Globe Roofing Products Co., Inc.: *See—*
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- Globe Slicing Machine Co., Inc.: *See—*
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- Gluckstein, Henry J., and Stephan. 2,949,511.
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- Glodde, Herman E. Detreading means. 2,930,110, 3-29-60, Cl. 29-78.
- Gloess, Paul F. M.: *See—*
- Dayonnet, Francois J. D., and Gloess. 2,932,016.
- Gloess, Paul F. M., and P. P. Namian, to Societe d'Electro-nique et d'Automatisme. Device to form the two's com-plement of a train of binary coded pulses. 2,941,719, 6-21-60, Cl. 235-164.
- Glozand, Pierre J. E., to Addressograph-Multigraph Corp. Rotary offset printing machine. 2,925,032, 2-16-60, Cl. 101-142.
- Glomb, Frank A.: *See—*
- Kaye, Philip, Glomb, and Bull. 2,954,952.
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- Schueder, George M., Sturdy, Acton, and Glomb. 2,963,991.
- Glomb, Frank A., F. J. Acton, and E. P. Mercanti, to Barnes & Reinecke, Inc. Hydro-kinetic variable speed controller. 2,951,398, 9-6-60, Cl. 74-677.
- Gloor, Wilbur T., to Baldwin-Lima-Hamilton Corp. Materials testing machine. 2,933,921, 4-26-60, Cl. 73-93.
- Glo-Quartz Electric Heater Co., Inc.: *See—*
- Strokes, George T. 2,957,154.
- Glorig, Robert: *See—*
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- Glos, Edmond A., II. Toy ball. 2,939,246, 6-7-60, Cl. 46-243.
- Gloss, Gunter H., to International Minerals & Chemical Corp. Process for increasing the density of magnesium oxide. 2,957,752, 10-25-60, Cl. 23-201.
- Glossbrenner, Daniel I.: *See—*
- Lebocey, Bernard J. E. 2,938,155.
- Gloster Aircraft Co. Ltd.: *See—*
- Absolon, Eric W. 2,939,476.
- Glotzer, Jack. Multiblade rur slicing tool. 2,962,816, 12-6-60, Cl. 30-304.
- Glover, Anthony D. Spectacle display device. 2,949,683, 8-23-60, Cl. 35-49.
- Glover, Clement E., to Kidde Textile Machinery Corp. Warp knitted pile fabric. 2,957,327, 10-25-60, Cl. 66-191.
- Glover, Earl W., to General Motors Corp. Shaft connections. 2,952,999, 9-20-60, Cl. 64-1.
- Glover, William S., P. A. Roush, and A. E. Budzilek, to Wheaton Glass Co. Laminated reinforcing coating of glass aerosol containers. 2,929,525, 3-22-60, Cl. 215-12.
- Glover, William S., and J. F. West, to Wheaton Glass Co. Reinforced glass aerosol containers and method of making same. 2,948,439, 8-9-60, Cl. 222-183.
- Gloviak, Stanley: *See—*
- Frantz, Nicholas, and Gloviak. 2,951,926.
- Gloviak, Stanley, and N. Frantz, to Carter Parts Co. Elec-trical jack. 2,942,074, 6-21-60, Cl. 200-51.1.
- Glowacki, George V., to Radio Corp. of America. Ceramic compositions. 2,947,642, 8-2-60, Cl. 106-62.
- Glowacki, John J., W. R. Munson, and E. D. Brightman, to The Sessions Clock Co. Magnetic coils. 2,922,932, 1-26-60, Cl. 317-158.
- Glowka, Martin. Holding means for trousers and the like on garment hangers. 2,963,207, 12-6-60, Cl. 223-91.
- Gluchowicz, Gerson, to Ulvsunda Verkstad Aktiebolag. Device for driving rapidly rotating spindles. 2,927,768, 3-8-60, Cl. 253-2.
- Gluck, Simon E., to Burroughs Corp. Signal pulse converter. 2,957,166, 10-18-60, Cl. 340-174.
- Gluck, William, to Industrial Electronic Hardware Corp. Stacking radio tube socket. 2,942,230, 6-21-60, Cl. 339-194.
- Gluck, William, to Industrial Electronic Hardware Corp. Manufacture of vacuum tube sockets. 2,955,555, 10-11-60, Cl. 113-1.
- Gluck, William, to Industrial Hardware Mfg. Co., Inc. Radio tube sockets. 2,962,690, 11-29-60, Cl. 339-194.
- Gluck, William, to Industrial Electronic Hardware Corp. Slide switch. 2,966,560, 12-27-60, Cl. 200-16.
- Gluckman, Muriel S.: *See—*
- Graham, Roger K., and Gluckman. 2,926,126.
- Gluckstein, Martin E.: *See—*
- Beatty, Harold A., and Gluckstein. 2,935,839.
- Glueck, Norman E., to E. I. du Pont de Nemours and Co. Rotary perforating apparatus. 2,963,932, 12-13-60, Cl. 83-337.
- Gluckstein, Henry J., and K. Stephan, to Globe-Union Inc. Switches. 2,949,511, 8-16-60, Cl. 200-11.
- Gluckstein, Henry J., W. J. Foy, and K. Stephan, to Globe-Union Inc. Electrical component. 2,949,522, 8-16-60, Cl. 200-166.
- Gluhareff, Eugene M., to United Aircraft Corp. Rotor blade counterbalance means. 2,944,610, 7-12-60, Cl. 170-160.27.
- Gluhareff, Eugene M., to United Aircraft Corp. Converti-plant. 2,953,319, 9-20-60, Cl. 244-7.
- Gluhareff, Michael E., to United Aircraft Corp. Aircraft with retractable auxiliary airfoil. 2,941,752, 6-21-60, Cl. 244-46.
- Glunz, Ernst: *See—*
- Schweizer, Walter, Glunz, and Muller. 2,931,164.
- Gluyas, Richard E.: *See—*
- Buchinski, Joseph J., Foecking, Gluyas, and Powers. 2,932,569.
- Glynn, Clifford H., Jr. Decorative ornament. 2,922,239, 1-26-60, Cl. 41-11.
- Glynn, Edwin A., to Super Mold Corp. of California. Tire mounting drum and flange unit. 2,921,338, 1-19-60, Cl. 18-18.
- Glynn, Edwin A., to Super Mold Corp. of California. Tire detreading machine. 2,941,584, 6-21-60, Cl. 157-13.
- Gmeiner, Archibald R., and C. R. Hackbert, to Kinberly-Clark Corp. Porous ceramic products and method. 2,955,947, 10-11-60, Cl. 106-41.
- Gmitter, George T., and E. M. Maxey, to The General Tire & Rubber Co. Cellular polyurethane elastomer and prepara-tion of same using pyridine catalyst. 2,957,832, 10-25-60, Cl. 260-2.5.
- Go Oil Well Services, Inc.: *See—*
- Hawthorne, Millo M. 2,946,926.
- Goad, Robert J., to Hughes Aircraft Co. Pulse delay appa-ratus. 2,923,898, 2-2-60, Cl. 333-29.
- Gobeil, Raymond A., and W. Arkowitz, to Conmar Products Corp. Method of manufacture of slide fasteners. 2,957,204, 10-25-60, Cl. 18-48.
- Göbel, Kraft. Fulling and felting of textile goods. 2,951,276, 9-6-60, Cl. 28-5.
- Goda, Ben T.: *See—*
- Markowitz, Seymour, and Goda. 2,920,315.
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- Godar, Charles L., to Etude et Realisation d'Outillage de Precision C. L. Godard et Cie. Burst limiting device for automatic weapons. 2,948,194, 8-9-60, Cl. 89—129.
- Godard, C. W. & Co. Ltd.: *See*—  
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- Godard, Kenneth C.: *See*—  
Brooks, Harold E. H., and Godard. 2,951,258.
- Godharsen, Robert, Jr., to General Electric Co. Ray sensitive screen and associated apparatus. 2,943,198, 6-28-60, Cl. 250—71.
- Godbey, John K., to Socony Mobil Oil Co., Inc. Flow diverter for bore holes. 2,929,455, 3-22-60, Cl. 166—202.
- Godbey, John K., to Socony Mobil Oil Co., Inc. System for measurement of fluid flow dependent forces. 2,936,614, 5-17-60, Cl. 73—155.
- Godbey, John K., and H. D. Hodges, to Socony Mobil Oil Co., Inc. Logging system for well bores. 2,955,463, 10-11-60, Cl. 73—152.
- Godbey, Josiah J., to The Atlantic Refining Co. Means for controlling the frequency of a tuning fork. 2,928,308, 3-15-60, Cl. 84—409.
- Godchaux, Leon, II.: *See*—  
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- Godchaux, Paul L.: *See*—  
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- Godchaux, Walter, Jr.: *See*—  
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- Goddard, Arthur J. Golf tee holder. 2,960,263, 11-15-60, Cl. 224—29.
- Goddard, Lloyd E.: *See*—  
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- Goddard, Reginald E., to Imperial Chemical Industries Ltd. Apparatus for catalyst regeneration. 2,949,346, 8-16-60, Cl. 23—288.
- Godden, M. H. (Cheltenham), Ltd.: *See*—  
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- Godden, Marguerita H., to M. H. Godden (Cheltenham) Ltd. Electrical resistance mats. 2,932,719, 4-12-60, Cl. 219—46.
- Godden, Thomas E.: *See*—  
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- Godden, Thomas E., and E. H. Morris, to Rotol Ltd. Liquid supply systems such as fuel systems. 2,932,309, 4-12-60, Cl. 137—99.
- Godden, Thomas E., and E. H. Morris, to Rotol Ltd. Variable pitch airscrews. 2,944,769, 7-12-60, Cl. 244—81.
- Godet, Sidney, to Reeves Instrument Corp. Automatic plotting apparatus and method of operation. 2,943,905, 7-5-60, Cl. 346—8.
- Godet, Sidney, to Reeves Instrument Corporation. Decimal storage and display unit. 2,964,742, 12-13-60, Cl. 340—324.
- Godet, Sidney, and R. D. McCoy, to Reeves Instrument Corp. Apparatus for producing spiral motion. 2,964,645, 12-13-60, Cl. 307—23.
- Godfrey, James H., and K. Damijonaitis, to The Stanley Works. Mortising template. 2,927,378, 3-8-60, Cl. 33—197.
- Godfrey, Jeannette E.: *See*—  
Jones, Kenneth, and Godfrey. 2,939,900.
- Godfrey, Kenneth L., to Monsanto Chemical Co. Nematocide. 2,955,976, 10-11-60, Cl. 167—22.
- Godfrey, Kenneth L., and J. J. D'Amico, to Monsanto Chemical Co. Certain polyhalogenobenzylthio-benzothiazoles and benzoxazoles. 2,921,079, 1-12-60, Cl. 260—306.
- Godier, Ivan, to Electric & Musical Industries Ltd. Amplifying circuits having automatic gain control, especially for picture signals in television receivers. 2,927,155, 3-1-60, Cl. 178—73.
- Godron, Yves, to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. Glass and the method of making it. 2,920,972, 1-12-60, Cl. 106—47.
- Godron, Yves, to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny et Cirey. Porous refractory material and method for manufacturing the same. 2,921,859, 1-19-60, Cl. 106—41.
- Godschall, Edward P.: *See*—  
Watson, Thomas T., and Godschall. 2,961,761.
- Godschalk, Adrain T.: *See*—  
Hosea, Everett E., and Godschalk. 2,928,290.
- Godshalk, Henry W., to E. I. du Pont de Nemours and Co. Coating composition of methyl methacrylate polymer, copper bronze pigment, and transparent colored pigment and article coated therewith. 2,934,512, 4-26-60, Cl. 260—41.
- Godshalk, Henry W., to E. I. du Pont de Nemours and Co. Process for preparing polymeric methyl methacrylate, iron oxide containing coating compositions. 2,956,970, 10-18-60, Cl. 260—23.
- Godshalk, James B., and L. A. Medlar, to Fox Products Co. Apparatus for testing multi-cell storage batteries. 2,922,104, 1-19-60, Cl. 324—29.5.
- Godshalk, Russell L.: *See*—  
Schluderberg, Donald C., and Godshalk. 2,920,873.
- Godshall, Harry E.: *See*—  
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- Godt, Henry C., Jr., to Monsanto Chemical Co. Process for the production of monoamides of dicarboxylic acids. 2,929,841, 3-22-60, Cl. 260—534.
- Godt, Henry C., Jr., to Monsanto Chemical Co. Preparation of esters through the acylation of octahydro-5aH,10aH-4a, 9a-epoxydibenzo-p-dioxin-3a,10a-diol. 2,962,523, 11-29-60, Cl. 260—468.
- Godwin, James E., to United States Steel Corp. Latch mechanism for bottom-dump bucket. 2,932,435, 4-12-60, Cl. 222—503.
- Goebel, Charles G.: *See*—  
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- Goeddel, Walter V.: *See*—  
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- Goedkoop, Martinus L., to Stamicarbon N.V. Removing oxygen from a gas. 2,962,343, 11-29-60, Cl. 23—2.
- Goeldner, Richard W., to Cleaver-Brooks Co. Plural stage flash evaporation method. 2,959,524, 11-8-60, Cl. 202—53.
- Goemann, Richard P., to H. H. Robertson Co. Air conditioning and distributing structure. 2,935,307, 5-3-60, Cl. 257—296.
- Goens, Duane N., J. A. M. Le Duc, and C. C. Silsby, Jr., to Diamond Alkali Co. Process for purifying alkali metal hydroxide and alkali metal halide solutions. 2,965,445, 12-20-60, Cl. 23—89.
- Goepfert, George J., to The Cincinnati Milling Machine Co. Abrasive wheel composition. 2,943,926, 7-5-60, Cl. 51—298.
- Goepfrich, George A., and L. Padula, to The Skinner Chuck Co. Relief and drain valve for compressors. 2,956,728, 10-18-60, Cl. 230—1.
- Goepfrich, Rudolph A., to The Bendix Corp. Brake shoe. 2,964,142, 12-13-60, Cl. 188—250.
- Goepfinger, Edward J., M. E. Bourns, and M. E. Harrison; said Goepfinger and said Harrison assors. to said Bourns. Pressure responsive instrument. 2,956,251, 10-11-60, Cl. 338—40.
- Goercke, Paul J., to Centre National d'Etudes des Telecommunications. Manufacture of cadmium sulfide photoconductive cell bodies. 2,958,932, 11-8-60, Cl. 29—155.71.
- Goerg, Walter, Sr., to Air Reduction Co., Inc. Flux-filled brazing rod and method of brazing with same. 2,958,941, 11-8-60, Cl. 29—496.
- Goering, William A., Y. P. Telang, and V. F. Zackay, to Ford Motor Co. Aluminum-iron alloy production. 2,920,955, 1-12-60, Cl. 75—129.
- Goerler, Julius Karl Transformatorfabrik: *See*—  
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- Goertz, Henry S. Drafting instrument. 2,954,609, 10-4-60, Cl. 33—80.
- Goeschel, Karl-Heinz R.: *See*—  
Scherenberg, Hans O., and Goeschel. 2,945,484.
- Goethe, George L. Land clearing and brush raking attachment for track type tractors. 2,932,100, 4-12-60, Cl. 37—2.
- Goetsch, Earl G., to Holley Carburetor Co. Control mechanism. 2,958,309, 11-1-60, Cl. 121—38.
- Goette, Robert L.: *See*—  
Butler, George B., and Goette. 2,946,757.
- Goettelman, George M.: *See*—  
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- Goettelman, Robert C., to United States of America, Air Force. Ice detection by pneumatic actuated sensing device. 2,953,021, 9-20-60, Cl. 73—170.
- Goettl, Adam D. Means and method for casting relatively pivotal elements around spherical bearing members. 2,931,066, 4-5-60, Cl. 18—36.
- Goettl, Adam D., to McGraw-Edison Co. Air directing louver device. 2,939,376, 6-7-60, Cl. 98—40.
- Goettl, Adam D., to McGraw-Edison Co. Evaporative cooler and control means. 2,939,687, 6-7-60, Cl. 261—26.
- Goettl, Adam, A. G., and G. R. Air directing louver device. 2,928,332, 3-15-60, Cl. 98—40.
- Goettl, Albert B., to McGraw-Edison Co. Impeller. 2,952,213, 9-13-60, Cl. 103—103.
- Goettl, Albert B., to McGraw-Edison Co. Evaporative cooler and water control means therefor. 2,961,226, 11-22-60, Cl. 261—29.
- Goettl, Albert G.: *See*—  
Goettl, Adam, A. G., and G. 2,928,332.
- Goettl, Gust: *See*—  
Goettl, Adam, A. G., and G. 2,928,332.
- Goetz, Alexander. Method of making microporous filter film. 2,926,104, 2-23-60, Cl. 117—65.
- Goetz, Elizabeth L. Fish food for sea horses. 2,957,768, 10-25-60, Cl. 99—3.
- Goetz, Michael B. Steam condensate return and feed water system. 2,932,287, 4-12-60, Cl. 122—451.
- Goetz, Walter, and E. Buhrer, to George Fischer Aktiengesellschaft. Holding apparatus for molten metals. 2,962-278, 11-29-60, Cl. 266—39.
- Goetzel, Claus G.: *See*—  
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- Goetzel, Claus G., and J. L. Ellis, to Sintercast Corp. of America. Production of hollow thermal elements. 2,942,970, 6-28-60, Cl. 75—200.
- Goetzewerke Friedrich Goetze Aktiengesellschaft: *See*—  
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- Müller, Max A. 2,942,872.
- Goff, Gordon S. Molding device for hair waving. 2,953,140, 9-20-60, Cl. 132—42.
- Goff, James E., to Electric Heaters, Inc. Electric space heater and method of manufacture. 2,944,138, 7-5-60, Cl. 219—34.



- Goff, Maurice A., to Philco Corp. Method of manufacturing refrigerating apparatus. 2,948,053, 8-9-60, Cl. 29—157.3.
- Goff, Stillman R., to The Gillette Co. Detergent composition. 2,950,255, 8-23-60, Cl. 252—152.
- Goffinet, Bernard: *See*—
- Amiard, Gaston, Heymes, Goffinet, and Velluz. 2,932,635.
- Velluz, Leon, Amiard, Bartos, Goffinet, and Heymes. 2,938,891.
- Goffinet, Edward P., Jr., to E. I. du Pont de Nemours and Co. Improved process for the manufacture of monovinylacetylene from acetylene. 2,934,576, 4-26-60, Cl. 260—678.
- Goffort, William W.: *See*—
- Hammel, James R., Smith, and Goffort. 2,926,605.
- Goffstein, Albert A., to American Television & Radio Co. Battery charger and power inverter system. 2,920,260, 1-5-60, Cl. 321—8.
- Goforth, Edward E. Holders for containers. 2,927,755, 3-8-60, Cl. 248—124.
- Gogek, Charles J., to Corn Products Co. Process for preparation of refractory insulating blocks. 2,965,504, 12-20-60, Cl. 106—55.
- Goheen, David W., W. M. Hearon, and J. Kamlet, to Crown Zellerbach Corp. Process for the oxidation of organic sulfides. 2,925,442, 2-16-60, Cl. 260—607.
- Gohorel, Fernand P., to International Standard Electric Corp. Automatic telephone systems. 2,932,695, 4-12-60, Cl. 179—18.
- Gohr, William J., to The Yale & Towne Mfg. Co. Delayed action door closer. 2,964,779, 12-20-60, Cl. 16—51.
- Goins, Robert R., to Phillips Petroleum Co. Olefin polymerization. 2,936,303, 5-10-60, Cl. 260—93.7.
- Goins, Robert R., to Phillips Petroleum Co. Apparatus for separating solids and liquids. 2,955,714, 10-11-60, Cl. 210—519.
- Goins, Robert R., to Phillips Petroleum Co. Process and apparatus for the stripping of polymer solids in skimmer system. 2,957,861, 10-25-60, Cl. 260—94.9.
- Goins, Robert R., to Phillips Petroleum Co. Polymer recovery process. 2,964,512, 12-13-60, Cl. 260—94.9.
- Goins, Robert R., and E. J. Kosinsky, to Phillips Petroleum Co. Process for preventing the formation of voids and pock marks in the extrusion of olefin polymers. 2,952,038, 9-13-60, Cl. 18—47.5.
- Goirand, Pierre. Continuous travel tethers of the mono-cable (or bicable) type, with automatic coupling to the traction cable. 2,955,544, 10-11-60, Cl. 104—178.
- Golaski, Walter M. Knitting machine. 2,923,142, 2-2-60, Cl. 66—96.
- Golay, Donaven E., to Chore-Boy Mfg. Co., Inc. Milking system feed box. 2,942,574, 6-28-60, Cl. 119—51.
- Golay, Marcel J. E., to The Perkin-Elmer Corp. Vapor fractometer column. 2,920,478, 1-12-60, Cl. 73—23.
- Golben, Michael: *See*—
- Fawley, Harry, Golben, and Dube. 2,923,604.
- Gold, Anthony J., and G. A. Mechler. Jig for checking wear of shaft and universal joints. 2,938,274, 5-31-60, Cl. 33—174.
- Gold, Archie: *See*—
- Aller, Paul B., and Gold. 2,941,777.
- Gold, Charles M., and L. Kardorff, to Yardney International Corp. Shock-neutralizing means for liquid-transfer devices. 2,963,533, 12-6-60, Cl. 136—90.
- Gold, Harold, and D. M. Straight. Fuel injection system. 2,921,569, 1-19-60, Cl. 123—119.
- Gold, Harry. Blood sugar test. 2,963,350, 12-6-60, Cl. 23—230.
- Gold, Stanley F.: *See*—
- Childs, Percy A., Gold, and Walsh. 2,928,555.
- Childs, Percy A., Gold, and Walsh. 2,950,156.
- Goldammer, Arthur R.: *See*—
- Mosher, Walter W., Jr., Goldammer, and Long. 2,954,621.
- Goldann, Karl: *See*—
- Kirstahler, Alfred, and Goldann. 2,921,960.
- Goldberg, Abraham G. Receptacles for automobiles and the like. 2,937,843, 5-24-60, Cl. 248—359.
- Goldberg, Earl J.: *See*—
- Dixon, Stanley, and Goldberg. 2,965,553.
- Goldberg, Earl J., to E. I. du Pont de Nemours and Co. Curable composition containing conjugated diene polymers using a free radical generator and a free radical acceptor, and product thereof. 2,925,407, 2-16-60, Cl. 260—83.3.
- Goldberg, Earl J., to E. I. du Pont de Nemours and Co. Elastomeric compositions. 2,927,098, 3-1-60, Cl. 260—77.5.
- Goldberg, Earl J., to E. I. du Pont de Nemours and Co. Curing process for high molecular weight polymers involving the use of free radical generators and free radical acceptors and product thereof. 2,958,672, 11-1-60, Cl. 260—45.5.
- Goldberg, Edwin A.: *See*—
- Vance, Arthur W., and Goldberg. 2,945,626.
- Goldberg, Edwin A., and A. W. Vance, to Radio Corp. of America. Computing device. 2,933,254, 4-19-60, Cl. 235—197.
- Goldberg, Gershon M., and J. E. Lu Valle, to Technical Operations, Inc. Nitrosodisulfonate latensifier. 2,938,793, 5-31-60, Cl. 96—65.
- Goldberg, Harold D., and M. I. Electronic system. 2,944,185, 7-5-60, Cl. 315—8.5.
- Goldberg, Herbert E. Refractometer. 2,934,992, 5-3-60, Cl. 88—14.
- Goldberg, Herbert E. Graticule holding devices. 2,942,345, 6-28-60, Cl. 33—46.
- Goldberg, Herbert E., to The Kalart Co. Inc. Photographic range finder. 2,944,475, 7-12-60, Cl. 95—44.
- Goldberg, Herbert E. Industrial refractometers. 2,966,091, 12-27-60, Cl. 88—14.
- Goldberg, Hyman. Ear tags for marking sheep and other animals for identification purposes. 2,940,199, 6-14-60, Cl. 40—301.
- Golberg, Jack H., and E. L. Goldstein. Hair dryer sound system. 2,966,550, 12-27-60, Cl. 179—1.
- Goldberg, Jacob, B. Cox, W. H. Kautz, and M. B. Adams, to General Electric Co. Ten's complement circuit. 2,920,820, 1-12-60, Cl. 235—159.
- Goldberg, Milton I.: *See*—
- Goldberg, Harold D. and M. I. 2,944,185.
- Goldberg, Morris I. Child's car seat. 2,924,266, 2-9-60, Cl. 155—79.
- Goldberg, Morton: *See*—
- Kirsch, Herbert S., Goldberg, and Greenspan. 2,960,737.
- Goldberg, Moses W., and A. I. Rachlin, to Hoffmann-La Roche Inc. Intermediates for synthesis of arachidonic acid. 2,934,570, 4-26-60, Cl. 260—633.
- Goldberg, Paul: *See*—
- Faria, Sixdeniel, and Goldberg. 2,951,169.
- Goldberg, Paul, and A. K. Levine, to Sylvania Electric Products Inc. Process for producing electroluminescent phosphors. 2,957,830, 10-25-60, Cl. 252—301.6.
- Goldberg, Raymond R.: *See*—
- Sobel, Bernard A., and Goldberg. 2,920,251.
- Goldberg, Samuel S.: *See*—
- Perriam, Leonard T., and Goldberg. 2,964,699.
- Goldberg, Seymour: *See*—
- Germeshausen, Kenneth J., and Goldberg. 2,937,301.
- Riley, Daniel F., Goldberg, and Germeshausen. 2,948,825.
- Goldberg, Seymour, to Edgerton, Germeshausen & Grier, Inc. Electric-discharge device and cathode. 2,937,302, 5-17-60, Cl. 313—212.
- Goldberg, Seymour, D. S. Goldstein, and K. J. Germeshausen, to Edgerton, Germeshausen & Grier, Inc. Electric-discharge device and cathode. 2,937,304, 5-17-60, Cl. 313—217.
- Goldberg, Sidney. Dispensing biological materials. 2,956,931, 10-18-60, Cl. 195—103.5.
- Goldberg, Simon: *See*—
- Hughes, Donald L., Pollack, Schwartzman, and Goldberg. 2,952,096.
- Goldberg, William P., E. Hudes, W. Tannenbaum, and V. J. Stakun, to Avco Mfg. Corp. Magnetic drive and brake for magnetic tape. 2,953,369, 9-20-60, Cl. 271—2.3.
- Goldberger, Emery. Drawing ruler. 2,954,612, 10-4-60, Cl. 33—174.
- Goldbert, Irving, and J. H. Schendorf: said Schendorf assor. to said Goldbert. Vending machine. 2,948,378, 8-9-60, Cl. 194—58.
- Goldblum, Kenneth B., to General Electric Co. Silica-silicone aerogels and their preparation. 2,945,817, 7-19-60, Cl. 252—317.
- Goldblum, Kenneth B., to General Electric Co. Cross-linked polycarbonate resinous compositions and method for preparing same. 2,950,266, 8-23-60, Cl. 260—43.
- Goldbohm, Erich, and G. Prins, to North American Philips Co. Inc. Time divider for use in radar apparatus. 2,941,151, 6-14-60, Cl. 328—39.
- Golde, Hans. Sliding closure panel for a vehicle roof. 2,941,840, 6-21-60, Cl. 296—137.
- Golde, Hans. Devices for causing two longitudinally-extending members to move lengthwise in opposite directions. 2,943,514, 7-5-60, Cl. 74—665.
- Golden, Abraham H., to The Yale & Town Mfg. Co. Night latch. 2,935,864, 5-10-60, Cl. 70—93.
- Golden, Bertie C., to Millhiser Bag Co., Inc. Bag making machine. 2,962,989, 12-6-60, Cl. 112—10.
- Golden, Harold W., A. E. Hartung, and F. Shandelman, to Tele-Dynamics Inc. Low level commutation system. 2,929,054, 3-15-60, Cl. 340—201.
- Golden, Sidney. Method of free radical production and stabilization. 2,924,562, 2-9-60, Cl. 204—164.
- Golden, Steven T. Cotton cleaner for cotton picking machine. 2,934,794, 5-3-60, Cl. 19—76.
- Golden, Thomas H. Collars and method of making the same. 2,937,376, 5-24-60, Cl. 2—143.
- Goldenberg, Lucien, to Vaxico, Inc. Method and dentifrice for reducing gingival inflammation. 2,944,941, 7-12-60, Cl. 167—78.
- Goldenberg, Max. Television viewing screen. 2,943,964, 7-5-60, Cl. 154—2.74.
- Goldenberg, Morris: *See*—
- Ramberg, Einar M., and Goldenberg. 2,962,050.
- Goldenburg, Edwin H.: *See*—
- Burns, Robert R., and Goldenburg. 2,920,043.
- Goldenhart, Leonard E., I. Mockrin, and F. M. Doorley, Jr., to Pennsalt Chemicals Corp. Flotation separation of cryolite and fluorite. 2,965,231, 12-20-60, Cl. 209—166.
- Golder, Wayne H., to Western Electric Co., Inc. Abrasive electrical connectors. 2,923,910, 2-2-60, Cl. 339—99.
- Goldfarb, Adolph E. Illusion novelty. 2,953,374, 9-20-60, Cl. 272—8.
- Goldfarb, Adolph E., and H. G. Saperstein. Packaging means and method for premiums and the like. 2,936,089, 5-10-60, Cl. 215—6.
- Goldfarb, Samuel, to McGraw-Edison Co. Sheet record machines. 2,920,931, 1-12-60, Cl. 346—138.



- Goldfein, Solomon, to United States of America, Army. Concrete structural element reinforced with glass fibers. 2,921,463, 1-19-60, Cl. 72-50.
- Goldfischer, Lester J., to General Precision, Inc. Doppler simulator. 2,953,780, 9-20-60, Cl. 343-17.7.
- Goldhamer, Walter M. Die casting bar injection machine. 2,947,045, 8-2-60, Cl. 22-68.
- Goldhammer, Albert, to Bodenseewerk Perkin-Elmer & Co., G.m.b.H. Photographic camera with quick winding attachment. 2,949,832, 8-23-60, Cl. 95-31.
- Golick, Jack R., to The Dow Chemical Co. Piston for a powder fluidizer. 2,960,369, 11-15-60, Cl. 302-53.
- Golding, Fred E., to Aeon Industries, Inc. Extensible leg for furniture. 2,943,334, 7-5-60, Cl. 5-310.
- Golding, Richard G.: See—
- Stuettig, David R., Jones, and Golding. 2,944,810.
- Golding, William F. Power press. 2,938,453, 5-31-60, Cl. 100-257.
- Golding, William F. Printing and like machines. 2,950,108, 8-23-60, Cl. 271-86.
- Golding, William F. Sheet feeding apparatus. 2,950,914, 8-30-60, Cl. 271-45.
- Golding, William F. Sheet feed and registration apparatus. 2,950,915, 8-30-60, Cl. 271-50.
- Golding, William F. Chain delivery apparatus for printing or like machines. 2,956,805, 10-18-60, Cl. 271-64.
- Goldkamp, Arthur H., to G. D. Searle & Co. 17a-(1-alkynyl)- and 17a-(1-alkenyl)-1,3,5(10)-estratrien-17 $\beta$ -ols and intermediates. 2,947,763, 8-2-60, Cl. 260-397.3.
- Goldman, Albert, to Goldman Pressing Machine Corp. Pressing machines. 2,919,507, 1-5-60, Cl. 38-36.
- Goldman, Arnold, to Tele-Dynamics Inc. Squelch circuit. 2,926,241, 2-23-60, Cl. 250-20.
- Goldman, Borel X., and S. A. Morris, to B. X. Goldman. Ice cube dispenser. 2,957,604, 10-25-60, Cl. 221-88.
- Goldman, David A. Electro-mechanical vector solver and resolver computer. 2,922,579, 1-26-60, Cl. 239-189.
- Goldman, Harold. One piece plastic key holder. 2,924,088, 2-9-60, Cl. 70-458.
- Goldman, Hyman: See—
- Pollack, Louis, and Goldman. 2,934,672.
- Goodman, Jerome, to Radiation Research, Inc. Dielectric coated electrodes. 2,932,591, 4-12-60, Cl. 117-201.
- Goldman, Jerome L. Submersible barge for off-shore drilling. 2,924,946, 2-16-60, Cl. 61-46.5.
- Goldman, Leo, to Rockwell-Standard Corp. Brake mechanism. 2,928,506, 3-15-60, Cl. 188-78.
- Goldman, Leon, J. W. Marsico, and G. W. Anderson, to American Cyanamid Co. Novel method of preparing nucleotide imidazoles. 2,951,838, 9-6-60, Cl. 260-211.5.
- Goldman, Maurice A. Impelling and steering devices for crafts, vessels and the like. 2,941,495, 6-21-60, Cl. 115-35.
- Goldman Pressing Machine Corp.: See—
- Goldman, Albert. 2,919,507.
- Goldman, Richard G., to General Electric Co. High voltage sawtooth wave generator. 2,961,608, 11-22-60, Cl. 328-35.
- Goldman, Richard G., to General Electric Co. Sawtooth wave form generator. 2,961,612, 11-22-60, Cl. 328-185.
- Goldman, Sylvan N.: See—
- Millman, Clinton. 2,935,330.
- Young, Fred W. 2,931,662.
- Young, Fred W. 2,958,536.
- Young, Fred W. 2,958,537.
- Goldmark, Peter C., to Columbia Broadcasting System, Inc. Phonograph record. 2,950,116, 8-23-60, Cl. 274-46.
- Gold Medal Folding Furniture Co.: See—
- Frank, Richard J. 2,962,085.
- Goldmeier, Lawrence S. Method and mix for candy coating apples. 2,949,367, 8-16-60, Cl. 99-134.
- Goldschmidt, Alfred, to California Research Corp. Lubricating oils containing extreme pressure agents. 2,934,499, 4-26-60, Cl. 252-32.7.
- Goldschmidt, Hans: See—
- Edgemond, John W., Jr., and Goldschmidt. 2,919,729.
- Edgemond, John W., Jr., and Goldschmidt. 2,927,612.
- Edgemond, John W., Jr., and Goldschmidt. 2,945,518.
- Edgemond, John W., Jr., and Goldschmidt. 2,945,519.
- Goldschmidt, Hans, and J. W. Edgemond, Jr., to Yuba Consolidated Industries, Inc. Woodworking machine. 2,964,075, 12-13-60, Cl. 143-132.
- Goldschmidt, Th., A.G.: See—
- Bungardt, Walter. 2,950,190.
- Holtschmidt, Ulrich. 2,964,426.
- Goldschmied, Fabio R., to Westinghouse Electric Corp. Gas reaction rotors. 2,920,813, 1-12-60, Cl. 230-134.
- Goldsholl, Morton. Phonograph record envelope. 2,954,119, 9-27-60, Cl. 206-62.
- Goldsholl, Morton. Cardboard box. 2,964,227, 12-13-60, Cl. 229-21.
- Goldsholl, Morton. Cardboard box. 2,966,293, 12-27-60, Cl. 229-16.
- Goldsmith, Allen L., and C. E. Hickman. Method of and apparatus for extruding tubing. 2,964,178, 12-13-60, Cl. 207-5.
- Goldsmith, Edwin A., to California Research Corp. Demetalation of hydrocarbon fractions by hydrogenation prior to catalytic cracking. 2,928,784, 3-15-60, Cl. 208-89.
- Goldsmith, George J.: See—
- Solomon, Allen L., and Goldsmith. 2,944,200.
- Goldsmith, John L., to Hudson Engineering Corp. Drive couplings. 2,928,264, 3-15-60, Cl. 64-27.
- Goldsmith, Louis, J. J. Murtaugh, P. R. Wenck, and G. E. Ward, to Dawe's Laboratories, Inc. Method of preparing glucose oxidase. 2,926,122, 2-23-60, Cl. 195-66.
- Goldsmith, Mollie R. Rotating beverage cooler. 2,928,705, 3-15-60, Cl. 312-223.
- Goldsmith, Richard G.: See—
- Hookway, Harry T., Hale, and Goldsmith. 2,948,637.
- Goldstein, Arnold. Barbecue package. 2,950,042, 8-23-60, Cl. 229-41.
- Goldstein, Arthur W. Impelled charge gas explosion turbine with constant volume, pressure raising combustion chambers. 2,928,239, 3-15-60, Cl. 60-39.02.
- Goldstein, Charles: See—
- Blanton, William G. 2,940,214.
- Goldstein, David N., to United States of America, Air Force. Double walled combustion chamber. 2,962,862, 12-6-60, Cl. 60-39.65.
- Goldstein, David S.: See—
- Goldberg, Seymour, Goldstein, and Germeshausen. 2,937,304.
- Goldstein, Edward, to Bell Telephone Laboratories, Inc. Error-detecting and correcting system. 2,951,229, 8-30-60, Cl. 340-147.
- Goldstein, Everett L.: See—
- Golberg, Jack H., and Goldstein. 2,966,550.
- Goldstein, Gilbert. Contact lens container. 2,944,661, 7-12-60, Cl. 206-5.
- Goldstein, Harry, and R. P. Heinis, to Allen B. du Mont Laboratories, Inc. Fine tuning mechanism for television Receivers. 2,942,108, 6-21-60, Cl. 250-40.
- Goldstein, Irving S., to Koppers Co., Inc. Method of impregnating wood with beta-propiolactone and resultant product. 2,931,741, 4-5-60, Cl. 117-147.
- Goldstein, Irving S., to Koppers Co., Inc. Creosoted wood coated with a furfuryl alcohol polymer. 2,933,413, 4-19-60, Cl. 117-72.
- Goldstein, Jacob M. Shoe heel and lift construction. 2,923,072, 2-2-60, Cl. 36-40.
- Goldstein, Jacob M. Shoe heel lift construction. 2,956,352, 10-18-60, Cl. 36-36.
- Goldstein, Joseph. Ventilated seat cushion. 2,931,427, 4-5-60, Cl. 155-182.
- Goldstein, Joseph. Ventilated seat cushion. 2,948,333, 8-9-60, Cl. 155-182.
- Goldstein, Joseph. Ventilated seat cushion. 2,948,334, 8-9-60, Cl. 155-182.
- Goldstein, Norman R., to Radio Corp. of America. Optical projection system. 2,942,099, 6-21-60, Cl. 240-1.
- Goldstein, Richard: See—
- Maciszewski, Arthur H., Hupert, and Goldstein. 2,933,698.
- Goldstein, Robert P., and R. I. Hildebrand, to Westinghouse Air Brake Co. Fuel supply simulator for flight trainers. 2,934,836, 5-3-60, Cl. 35-12.
- Goldstein, Samuel, to Tri-Wall Containers, Inc. Method and machine for making triple wall corrugated paper board. 2,949,151, 8-16-60, Cl. 154-33.05.
- Goldstein, Norbert. Record medium for registration of administrative data. 2,944,735, 7-12-60, Cl. 235-61.12.
- Goldstone, Edward G., to Allen Industries Inc. Composite carpet tiles. 2,952,577, 9-13-60, Cl. 154-49.
- Goldstone, Edward G., to Allen Industries Inc. Method of making a fabric. 2,964,441, 12-13-60, Cl. 154-106.
- Goldstone, Herbert S., to H. Coutin. Support for vent pipe. 2,965,342, 12-20-60, Cl. 248-57.
- Goldstrap, Walter A., to Phillips Petroleum Co. Storage of volatile liquids. 2,961,840, 11-29-60, Cl. 62-45.
- Goldthwait, Richard G.: See—
- Fogle, Merald C., Goldthwait, Kwolek, and Rice. 2,944,098.
- Goldthwait, Richard G., and W. R. Lehrian, to Gulf Research & Development Co. Process of making pitch. 2,944,958, 7-12-60, Cl. 208-39.
- Goldtrap, Walter A.: See—
- Hawkins, Harold M., and Goldtrap. 2,949,447.
- Goldwasser, Seymore, to Lever Brothers Co. Detergent germicidal compositions and process of making the same. 2,927,899, 3-8-60, Cl. 252-107.
- Goldwasser, Seymore, to Lever Brothers Co. Stabilized germicidal soaps and process of making the same. 2,937,147, 5-17-60, Cl. 252-107.
- Goldwater, Franklin A.: See—
- Steinhardt, David W. 2,949,377.
- Steinhardt, David W. 2,949,381.
- Golfer's Swing-Click, Inc.: See—
- Hurdzan, Michael G. 2,950,115.
- Golick, Alexander J. Valve lifters. 2,950,708, 8-30-60, Cl. 123-90.
- Golinelli, Marino. Method of preserving royal jelly. 2,950,201, 8-23-60, Cl. 99-150.
- Gollbach, Fred W.: See—
- Padlo, Bernard J. 2,957,539.
- Goller, Robert L., and R. R. Walters, to Callery Chemical Co. Preparation of alkylidiboranes. 2,938,926, 5-31-60, Cl. 260-606.5.
- Gollnick, Cyril R., to Leach Co. Refuse collecting and transporting equipment. 2,928,562, 3-15-60, Cl. 214-302.
- Gollob, Fred, to E. I. du Pont de Nemours and Co. Composition comprising chain extended polyurethane dissolved in dialkyl sulfoxide and a ketone and process of coating therewith. 2,955,095, 10-4-60, Cl. 260-30.8.
- Gollos, Wolfgang, W. Kotte, and H. Schippers. Measuring apparatus. 2,936,325, 5-17-60, Cl. 33-134.



- Gollos, Wolfgang, and W. Zander, to Vereinigte Glanzstoff-Fabriken A.G. Thread tensioning devices for multiple twistors. 2,958,995, 11-8-60, Cl. 57-58.84.
- Gollub, Raphael, to C.G.S. Laboratories, Inc. Radio control apparatus. 2,926,240, 2-23-60, Cl. 250-20.
- Gollub, Raphael, to C.G.S. Laboratories, Inc. Controllable inductor. 2,941,173, 6-14-60, Cl. 336-155.
- Gollwitzer, George E., to Kelsey-Hayes Co. Machine for rolling annular blanks. 2,935,113, 5-3-60, Cl. 153-28.
- Golm, Gunter G.: *See*—
- Kieronski, John P., and Golm. 2,928,429.
- Golrick, Albert R.: *See*—
- Douglas, Alvin P., and Golrick. 2,949,990.
- Gotlen, Sigurd. Crankshaft journal grinder. 2,937,479, 5-24-60, Cl. 51-241.
- Gotlen, Sigurd. Bearings. 2,937,908, 5-24-60, Cl. 308-122.
- Gomes, Earl S. Collapsible seat and advertising piece. 2,940,511, 6-14-60, Cl. 155-133.
- Golyznik, Ralph C.: *See*—
- Schwarz, David R., and Golyznik. 2,958,632.
- Gombert, Robert R.: *See*—
- Pfeffer, William E., and Gombert. 2,954,526.
- Gomco Surgical Mfg. Corp.: *See*—
- Henderson, Stanford A. 2,963,021.
- Gomersall, John R., to McGraw-Edison Co. Rack for food tray. 2,928,552, 3-15-60, Cl. 211-71.
- Gommel, Dewey E., to Borg-Warner Corp. Method of making chain saw bars. 2,962,812, 12-6-60, Cl. 29-463.
- Gomoh Ltd.: *See*—
- Brown, James L. 2,930,480.
- Gomory, Paul L., to Phillips Petroleum Co. Fire extinguishing method and compositions. 2,936,834, 5-17-60, Cl. 169-1.
- Gomory, Paul L., to Phillips Petroleum Co. Minimizing vapor losses from storage tanks. 2,939,294, 6-7-60, Cl. 62-54.
- Gomory, Paul L., to Phillips Petroleum Co. Process and apparatus for contacting materials. 2,951,061, 8-30-60, Cl. 260-83.7.
- Goms, Richard H., to Whirlpool Corp. Method of making a molded overlay panel structure of low moisture absorption. 2,931,750, 4-5-60, Cl. 154-110.
- Gondek, John T. Pressure seal. 2,931,673, 4-5-60, Cl. 286-26.
- Gondek, John T. Pressure pipe fittings. 2,937,038, 5-17-60, Cl. 285-323.
- Gondek, John T. Screw thread. 2,938,400, 5-31-60, Cl. 74-424.8.
- Gongwer, Calvin A., to Aerojet-General Corp. Charge. 2,945,343, 7-19-60, Cl. 60-35.5.
- Gonia, August T.: *See*—
- Fante, Harry H., and Gonia. 2,920,684.
- Fante, Harry H., and Gonia. 2,940,480.
- Gonsalves, Anthony. Portable glass cutting machine. 2,964,848, 12-20-60, Cl. 33-32.
- Gonsalves, Conrad J.: *See*—
- Heijnis, James W. I., and Gonsalves. 2,949,659.
- Gonsalves, Conrad J., to American Enka Corp. Speed control system for winding machines. 2,947,490, 8-2-60, Cl. 242-45.
- Gonsalves, Conrad J., and H. Du Cloux, to American Enka Corp. False twist device for curling thermoplastic yarn. 2,952,964, 9-20-60, Cl. 57-34.
- Gonsalves, Emilie M. J. Lid for a burner of a gas-ring or a gas-cooker. 2,931,432, 4-5-60, Cl. 158-116.
- Gonzalez Arias, Benigno, and R. Mendoza Quijano. Lighting arrangement. 2,931,893, 4-5-60, Cl. 240-6.4.
- Gonze, Max, and E. Leblon, to Solvay & Cie. Process for hydrogenation of anthraquinones. 2,941,865, 6-21-60, Cl. 23-207.
- Gonzenbach, Kurt E., to Daystrom Inc. Print and ink wheel mechanism. 2,954,732, 10-4-60, Cl. 101-205.
- Gooch, Fred P., to The Sharples Corp. Centrifuge drive. 2,942,494, 6-28-60, Cl. 74-57.3.
- Gooch, William R., and E. E. Dobson, to Florida Lightweight Products Co. Phosphate process. 2,947,418, 8-2-60, Cl. 210-68.
- Good, Arthur L., to Penn Controls, Inc. Pressure responsive actuator. 2,942,624, 6-28-60, Cl. 137-793.
- Good, Carl D., to Olin Mathieson Chemical Corp. Preparation of diborane. 2,946,663, 7-26-60, Cl. 23-204.
- Good, Dorian. High speed parachute. 2,951,665, 9-6-60, Cl. 244-145.
- Good, Floyd. Oil pressure safety device. 2,931,011, 3-29-60, Cl. 340-52.
- Good, Francis R., to North American Aviation, Inc. W-band coupling for flanged pipe. 2,941,823, 6-21-60, Cl. 285-408.
- Good, James L., Jr.: *See*—
- Porter, William A., and Good. 2,964,903.
- Good, Robert C., to International Minerals & Chemical Corp. Glutamic acid synthesis by aeromonas. 2,933,434, 4-19-60, Cl. 195-30.
- Good, Robert C., and I. C. Gunsalus, to International Minerals & Chemical Corp. Amino acid synthesis. 2,927,059, 3-1-60, Cl. 195-29.
- Good, Robert C., and O. L. Norman, to International Minerals & Chemical Corp. Glutamic acid synthesis. 2,945,787, 7-19-60, Cl. 195-47.
- Good, Wayne W., to Harter Corp. Chair. 2,935,121, 5-3-60, Cl. 155-95.
- Good, Wayne W., to Harter Corp. Chair structure. 2,954,820, 10-4-60, Cl. 155-184.
- Good, Wayne W., to Harter Corp. Chair. 2,966,208, 12-27-60, Cl. 155-191.
- Good, William E., to General Electric Co. Carrier wave transmission system and method of operation thereof. 2,951,114, 8-30-60, Cl. 178-5.4.
- Goodale, Charles J. Computing apparatus. 2,928,595, 3-15-60, Cl. 235-61.8.
- Goodale, E. Dudley: *See*—
- Moffett, Le Roy, and Goodale. 2,932,026.
- Goodale, Walter D., Jr.: *See*—
- Boysen, Albert P., Jr., Goodale, Herckmans, and Pferd. 2,951,635.
- Goodall, Charles A., to United States of America, Atomic Energy Commission. Cesium recovery from aqueous solutions. 2,952,640, 9-13-60, Cl. 252-301.1.
- Goodall, Donald G., and J. C. Chicken, to Rolls-Royce Ltd. Means sensitive to changes in the effective restriction of a restrictive element in a flow conduit. 2,943,446, 7-5-60, Cl. 60-39.09.
- Goodall, William M., to Bell Telephone Laboratories, Inc. Stabilized directly-coupled amplifier. 2,963,657, 12-6-60, Cl. 330-92.
- Goodbar, Isaac. Apparatus for photographing and exhibiting a succession of pictures. 2,943,533, 7-5-60, Cl. 88-16.
- Goode, Robert W.: *See*—
- Petersen, Gerald A., and Goode. 2,961,249.
- Petersen, Gerald A. M., Goode, and Selleck. 2,958,478.
- Goode, Robert W., to G. A. M. Petersen. Spindle placement. 2,939,647, 6-7-60, Cl. 242-85.
- Goode, Robert W., to G. A. M. Petersen. Disk brake. 2,959,253, 11-8-60, Cl. 188-73.
- Goodell, Everett M., to The Ramo-Woodbridge Corp. Terrain obstacle detector. 2,951,248, 8-30-60, Cl. 343-113.
- Goodell, John D.: *See*—
- Hardenbergh, George, Goodell, and Lode. 2,935,733.
- Goodell, Richard R., to Shell Oil Co. Gravity meter clamp. 2,953,023, 9-20-60, Cl. 73-382.
- Goodenough, Robert D., to The Dow Chemical Co. Recovery of lithium. 2,964,381, 12-13-60, Cl. 23-25.
- Goodfriend, David J. Portable spot-focusing apparatus for radiography. 2,939,008, 5-31-60, Cl. 250-64.
- Goodhouse, Carl J., to General Time Corp. Skip mechanism for switch actuating timer. 2,940,317, 6-14-60, Cl. 74-352.
- Goodhouse, Carl J., and C. M. J. Jauch, to General Time Corp. Interval timer. 2,943,159, 6-28-60, Cl. 200-33.
- Goodhue, Lyle D., to Phillips Petroleum Co. Method of killing grass. 2,941,879, 6-21-60, Cl. 71-2.7.
- Goodhue, Lyle D., K. E. Cantrel, and A. M. Schnitzer, to Phillips Petroleum Co. Method of killing insects comprising applying nitropridine and nitropridine-1-oxide. 2,943,976, 7-5-60, Cl. 167-33.
- Goodhue, Lyle D., and J. N. Short, to Phillips Petroleum Co. Insect repellent method and composition. 2,944,934, 7-12-60, Cl. 167-30.
- Goodhue, Lyle D., K. E. Cantrel, and J. R. Gaines, to Phillips Petroleum Co. Insect combating employing 2-(1-amino-cyclohexyl)-cyclohexanone. 2,952,582, 9-13-60, Cl. 167-30.
- Goodhue, Lyle D., R. P. Louthan, and K. E. Cantrel, to Phillips Petroleum Co. Method of repelling birds comprising applying a sulfamide. 2,955,980, 10-11-60, Cl. 167-46.
- Goodhue, Lyle D., R. E. Stansbury, and R. P. Louthan, to Phillips Petroleum Co. Alkyl sulfoxide compounds for insect combating and method. 2,957,799, 10-25-60, Cl. 167-22.
- Goodhue, William V., C. G. Reynolds, and R. S. White, to Leesona Corp. Sheet supplying apparatus for coil winding machines. 2,926,014, 2-23-60, Cl. 271-57.
- Goodhue, William V., and F. W. Higgins, to Leesona Corp. Winding machine. 2,930,543, 3-29-60, Cl. 242-150.
- Gooding, Chester M.: *See*—
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- Melnick, Daniel, and Gooding. 2,921,855.
- Gooding, Francis H., to The Okonite Co. Apparatus for testing electric insulation. 2,937,338, 5-17-60, Cl. 324-54.
- Goodlad, William L. Concrete core form. 2,941,276, 6-21-60, Cl. 25-128.
- Goodlaxson, John D., to The Maytag Co. Drive assembly. 2,948,372, 8-9-60, Cl. 192-18.
- Goodling, R. A.: *See*—
- Parks, Noble L. 2,925,930.
- Goodloe, Alfred M., to Metal Textile Corp. Flexible coupling. 2,950,609, 8-30-60, Cl. 64-15.
- Goodman, Ben. Multiple fish catcher. 2,939,240, 6-7-60, Cl. 43-17.
- Goodman, Clark: *See*—
- Frey, Hugh B., Jr., and Goodman. 2,951,946.
- Goodman, Clark, to Schlumberger Well Surveying Corp. Method and apparatus for renewing targets. 2,943,239, 6-28-60, Cl. 315-111.
- Goodman, Clark, to Schlumberger Well Surveying Corp. Method and apparatus for exploring boreholes. 2,943,694, 7-5-60, Cl. 181-5.
- Goodman, Clark, to Schlumberger Well Surveying Corp. Borehole investigating apparatus. 2,951,943, 9-6-60, Cl. 250-83.3.
- Goodman, Clark, to Schlumberger Well Surveying Corp. Renewable target. 2,951,945, 9-6-60, Cl. 250-84.5.



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- Goodman, David M.: *See—*  
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- Goodman, David M. Electrical testing. 2,931,900, 4-5-60, Cl. 250—20.
- Goodman, Gilbert, to General Electric Co. Dielectric compositions. 2,961,327, 11-22-60, Cl. 106—39.
- Goodman, Harry. Photographic developing tank. 2,930,306, 3-29-60, Cl. 95—96.
- Goodman, Hugh F.: *See—*  
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- Goodman, Hugh F., to The A.P.V. Co. Ltd. Evaporators. 2,960,160, 11-15-60, Cl. 139—13.
- Goodman, James H.: *See—*  
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- Goodman, Joseph J., and R. W. Young, to American Cyanamid Co. Chlorination inhibitors in chlortetracycline-tetracycline fermentations. 2,923,667, 2-2-60, Cl. 195—80.
- Goodman, Joseph J., and R. W. Young, to American Cyanamid Co. Chlorination inhibitors in chlortetracycline-tetracycline fermentations. 2,923,668, 2-2-60, Cl. 195—80.
- Goodman, Joseph J., to American Cyanamid Co. Process for the oxidation of pregnenes. 2,938,834, 5-31-60, Cl. 195—51.
- Goodman, Kenneth C.: *See—*  
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- Goodman, Paul. Laterally adjustable bolts. 2,927,496, 3-8-60, Cl. 85—1.
- Goodman, Robert F., to General Electric Co. Transformer for potential device. 2,930,964, 3-29-60, Cl. 323—48.
- Goodman, Solomon. Exchange resins from N-halogenated copolymers. 2,944,033, 7-5-60, Cl. 260—2.1.
- Goodman, Virgil E.: *See—*  
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- Goodner, Monroe H. Double bellows controlled respiration unit. 2,924,215, 2-9-60, Cl. 128—29.
- Goodner, Ralph V. Electrically insulated sucker rod coupling. 2,940,787, 6-14-60, Cl. 287—125.
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- Goodnough, Frank L. and D. D. Picker stick check apparatus. 2,949,937, 8-23-60, Cl. 139—169.
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- Goodrich, Baxter D., to Texas Eastern Transmission Corp. Casing end seals and methods of constructing and applying the same. 2,938,569, 5-31-60, Cl. 154—41.
- Goodrich, David E. Cover for tire valve cap. 2,963,046, 12-6-60, Cl. 138—89.2.
- Goodrich, Fred C. Rocking horse. 2,930,612, 3-29-60, Cl. 272—52.5.
- Goodrich-Gulf Chemicals, Inc.: *See—*  
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- Goodrich, Hunter C.: *See—*  
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- Goodrich, Hunter C., to Radio Corp. of America. Transistor deflection circuit for television receivers. 2,933,641, 4-19-60, Cl. 315—27.
- Goodrich, Hunter C., to Radio Corp. of America. Noise immune amplitude discriminatory system. 2,950,343, 8-23-60, Cl. 178—7.3.
- Goodrich, Hunter C., to Radio Corp. of America. Selective amplitude discriminatory circuit. 2,956,118, 10-11-60, Cl. 178—7.3.
- Goodrich, John J., to St. Regis Paper Co. Multiwall bag tear strips. 2,943,781, 7-5-60, Cl. 229—66.
- Goodrich, John W., to LeTourneau-Westinghouse Co. Steering mechanism. 2,950,633, 3-30-60, Cl. 74—720.5.
- Goodrich, Max. Hydraulic duplicating mechanism for machine tools and the like. 2,923,518, 2-2-60, Cl. 251—3.
- Goodridge, Edward S., to Induction Heating Corp. High frequency coil transformer switch. 2,933,583, 4-19-60, Cl. 219—10.75.
- Goodrie, Joseph J., to Wrightway Engineering Co. Hose nozzle with aerator. 2,941,729, 6-21-60, Cl. 239—430.
- Goodrie, Joseph J., to Wrightway Engineering Co. Aerating spray head. 2,962,226, 11-29-60, Cl. 239—431.
- Goodspeed Machine Co.: *See—*  
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- Goodspeed, Perry C., Jr., to Cornell Valve Corp. Dispensing mechanism. 2,963,265, 12-6-60, Cl. 251—320.
- Goodwillie, John E., to Beloit Iron Works. Adjustable stock inlet for paper making machine. 2,934,140, 4-26-60, Cl. 162—317.
- Goodwillie, John E., to Beloit Iron Works. Cylinder type paper making machine. 2,942,662, 6-28-60, Cl. 162—317.
- Goodwin, Chester H.: *See—*  
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- Goodwin, Chester H., to The Chemstrand Corp. Apparatus for annealing filamentary tow. 2,952,033, 9-13-60, Cl. 18—1.
- Goodwin, Chester H., and W. R. McKelvy, Jr., to The Chemstrand Corp. Fluid metering apparatus. 2,952,045, 9-13-60, Cl. 19—66.
- Goodwin, John S., to Globe Oil Tools Co. Drill bit construction having means for preventing mud-cutting. 2,960,313, 11-15-60, Cl. 255—308.
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- Goodwin, Roscoe H., to Curtiss-Wright Corp. Propeller simulating system for aircraft trainers. 2,951,298, 9-6-60, Cl. 35—12.
- Goodwin, Walter. Exercising device. 2,951,702, 9-6-60, Cl. 272—83.



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- Goodson, Marvin: *See*—  
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- Goodwin, Carl L., and W. T. Ennor, to Aluminum Co. of America. Casting process and machine. 2,923,040, 2-2-60, Cl. 22-73.
- Goodykoontz, James R., Jr., and G. Rasmussen, to Hughes Aircraft Co. Assembly apparatus for electronic modules. 2,921,550, 1-19-60, Cl. 113-99.
- Goorissen, Jan, to North American Philips Co. Inc. Apparatus for the manufacture of single crystals. 2,956,863, 10-18-60, Cl. 23-273.
- Goossev, Constantin. Ring and detachably connected ring guard. 2,966,048, 12-27-60, Cl. 63-15.6.
- Goothberts, Jerome W., to American Radiator & Standard Sanitary Corp. Multiple rotary switch circuit. 2,934,704, 4-26-60, Cl. 324-73.
- Gora, Henry Z., to The Eagle-Picher Co. Apparatus and method for molding plastic material. 2,943,354, 7-5-60, Cl. 18-21.
- Gora, Henry Z., to Anchor Hocking Glass Corp. Apparatus for applying gaskets to closure caps. 2,952,035, 9-13-60, Cl. 18-20.
- Gora, Henry Z., to Anchor Hocking Glass Corp. Apparatus for making composite articles. 2,952,036, 9-13-60, Cl. 18-20.
- Goral, Lewis. Combination lock switch. 2,934,615, 4-26-60, Cl. 200-43.
- Goran, Leo, Jr.: *See*—  
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- Corby, Harry B., to American Dross Disposal Corp. Rapid composting. 2,947,619, 8-2-60, Cl. 71-9.
- Corby, Jack, to Keystone Packing Machine Corp. Method and apparatus for canning fish. 2,926,095, 2-23-60, Cl. 99-188.
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- Gordan, Alvin C. Concrete pipe machine. 2,948,942, 8-16-60, Cl. 25-32.
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- Gordon, Benjamin E., to Shell Oil Co. Pipeline transportation. 2,953,146, 9-20-60, Cl. 137-1.
- Gordon, Bernard M.: *See*—  
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- Gordon, Bernard M., to Epsco, Inc. Frequency meter device. 2,925,555, 2-16-60, Cl. 324-78.
- Gordon, Bernard M., to Epsco, Inc. Counting device. 2,926,848, 3-1-60, Cl. 235-164.
- Gordon, Bernard M., to Epsco, Inc. Frequency meter. 2,927,271, 3-1-60, Cl. 324-78.
- Gordon, Bernard M., to Epsco, Inc. Voltage controlled oscillator. 2,938,172, 5-24-60, Cl. 331-144.
- Gordon, Bernard M., to Epsco, Inc. Electro-magnetic device. 2,939,096, 5-31-60, Cl. 336-84.
- Gordon, Bernard M., to Epsco, Inc. Frequency meter apparatus. 2,951,202, 8-30-60, Cl. 324-79.
- Gordon, Bernard M., to Epsco, Inc. Signal counting apparatus. 2,951,986, 9-6-60, Cl. 324-79.
- Gordon, Bernard M., A. Wang, and R. N. Nicola, to Laboratory For Electronics, Inc. Magnetic symbol generator. 2,920,312, 1-5-60, Cl. 340-174.
- Gordon, Bernard M., and R. P. Talambiras, to Epsco, Inc. High precision electrical resistor device with minimized inductance. 2,931,000, 3-29-60, Cl. 338-62.
- Gordon, Bernard M., and H. R. Meyer, to Epsco, Inc. Temperature compensated delay line. 2,935,704, 5-3-60, Cl. 333-29.
- Gordon, Bernard M., H. R. Durocher, and A. Sico, to Epsco, Inc. Electromagnetic indicator. 2,943,313, 6-28-60, Cl. 340-378.
- Gordon, Bernard M., and M. M. Kincaid, to Epsco, Inc. Function generating apparatus. 2,962,214, 11-29-60, Cl. 235-164.
- Gordon, Carroll G. Electro-hydraulic servo valve. 2,961,002, 11-22-60, Cl. 137-623.
- Gordon, Carroll G., and L. B. Robbins, to-Textron Inc. Aerodynamic drag device. 2,946,543, 7-26-60, Cl. 244-135.
- Gordon, Charles W., to Combustion Engineering, Inc. Drying method and apparatus. 2,956,347, 10-18-60, Cl. 34-10.
- Gordon, Clifford M.: *See*—  
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- Gordon, David A.: *See*—  
 Burgert, Billy E., and Gordon. 2,922,777.
- Gordon, David A., to The Dow Chemical Co. Thermal stabilization of haloethylene polymers. 2,926,152, 2-23-60, Cl. 260-23.
- Gordon, David A., to The Dow Chemical Co. Bis( $\alpha$ -phenyl-4-bromobenzyl) ether. 2,926,196, 2-23-60, Cl. 260-611.
- Gordon, David A., to The Dow Chemical Co. Substituted resorcinol and process of preparing. 2,933,533, 4-19-60, Cl. 260-591.
- Gordon, David A., to The Dow Chemical Co. 2-methyl-2,4-pentanedil bis(p-chlorobenzoate). 2,937,198, 5-17-60, Cl. 260-476.
- Gordon, David A., and J. M. Corbett, to The Dow Chemical Co. Bis( $p$ -halophenyl) esters of cyclic 1,2-dicarboxylic acids. 2,942,023, 6-21-60, Cl. 260-468.
- Gordon, David A., and C. W. Hinman, to The Dow Chemical Co. Phenyl diester of dihydroxy terephthalic acids and vinylidene chloride polymers stabilized therewith. 2,952,661, 9-13-60, Cl. 260-45.85.
- Gordon, David A., and J. M. Corbett, to The Dow Chemical Co.  $\alpha$ -Methoxyphenyl 3,4-dichlorobenzoate. 2,958,705, 11-1-60, Cl. 260-476.
- Gordon, David A., and J. M. Corbett, to The Dow Chemical Co. Alkylphenyl 3,4-dichlorobenzoates. 2,960,532, 11-15-60, Cl. 260-476.
- Gordon, Donald A.: *See*—  
 Replogle, Frank S., Jr., and Gordon. 2,944,150.
- Gordon, Dwight M., and W. E. Highley, to ACF Industries, Inc. Separate thermostat controlled fast idle cam. 2,943,848, 7-5-60, Cl. 261-39.
- Gordon, Edward D., and J. E. Shouler, to J. I. Case Co. Tractor mounted two-way plow with single gauge wheel and improved draft means. 2,959,232, 11-8-60, Cl. 172-212.
- Gordon, Fred M., to American Cyanamid Co. Control of nematodes using dialkyl pyrazinyl phosphorothioates. 2,938,831, 5-31-60, Cl. 167-33.
- Gordon, Geoffrey, to The General Electric Co. Ltd. Apparatus for deriving voltages that are approximately proportional to predetermined functions of angles. 2,965,299, 12-20-60, Cl. 235-186.
- Gordon, Gerald, Jr., to R. and V. Rodick. Noise insensitive, signal detecting and relay operating apparatus. 2,959,716, 11-8-60, Cl. 317-148.5.
- Gordon, Herman L.: *See*—  
 Rabben, Ellis L. 2,930,286.  
 Vanaman, Frank P., Odom, and Gordon. 2,959,709.
- Gordon, J. W., Jr.: *See*—  
 Mathews, J. K. 2,922,174.
- Gordon, James. Electrical terminal block. 2,928,066, 3-8-60, Cl. 339-198.
- Gordon, James F.: *See*—  
 Pulaski, John W., and Gordon. 2,955,892.
- Gordon, James F., to Beckman Instruments, Inc. Binding post. 2,921,286, 1-12-60, Cl. 339-202.
- Gordon, James F., to Bendix Aviation Corp. Single control missile guidance. 2,923,496, 2-2-60, Cl. 244-14.
- Gordon, Kerwin E., and W. C. Ferguson, to Southern Extrusions, Inc. Framework for a suspended ceiling. 2,946,414, 7-26-60, Cl. 189-36.
- Gordon, Leon P., and T. P. Moote, Jr., to Pan American Petroleum Corp. Alkylation process and catalyst therefor. 2,927,085, 3-1-60, Cl. 252-428.
- Gordon, Leon B., and T. P. Moote, Jr., to Pan American Petroleum Corp. Alkylation process and catalyst. 2,927,086, 3-1-60, Cl. 252-429.



- Gordon, Lloyd L., to Electronic Associates, Inc. Selsyn controlled servo system. 2,933,666, 4-19-60, Cl. 318-30.
- Gordon, Maxwell, to Smith Kline & French Laboratories. Substituted phenothiazinylalkyl aminosulfonylpiperazines. 2,944,054, 7-5-60, Cl. 260-243.
- Gordon, Maxwell, to Smith Kline & French Laboratories. Substituted aralkyl phenothiazinylalkyl piperazines. 2,945,030, 7-12-60, Cl. 260-243.
- Gordon, Maxwell, to Smith Kline & French Laboratories. Methyleneedioxy substituted phenothiazines. 2,943,031, 7-12-60, Cl. 260-243.
- Gordon, Maxwell, and J. J. Lafferty, to Smith, Kline & French Laboratories. Aralkylbenzomorphan derivatives. 2,924,603, 2-9-60, Cl. 260-293.4.
- Gordon, Maxwell, and J. J. Lafferty, to Smith Kline & French Laboratories. Iso-benzomorphan derivatives. 2,959,594, 11-8-60, Cl. 260-294.3.
- Gordon, Morris, B. Wright, and E. T. Borrow, to Shell Oil Co. Production of polymerization catalyst. 2,939,846, 6-7-60, Cl. 252-431.
- Gordon, Murray A., to Ekco Products Co. Article display and dispensing device. 2,954,128, 9-27-60, Cl. 211-49.
- Gordon, Murray A., to Ekco Products Co. Article display and dispensing device. 2,954,129, 9-27-60, Cl. 211-49.
- Gordon, Neil T., and C. D. Michaels, said Gordon assor. to Blaw-Knox Co. Classifier. 2,951,575, 9-6-60, Cl. 198-35.
- Gordon, Philip M.: See—
- Elliot, William H., Gordon, and Yager. 2,933,708.
- Gordon, Philip N., R. E. Kent, and J. J. Ursprung, to Chas. Pfizer & Co., Inc. 1,4-dibromo and 1,4-di-acyloxy phenazines and process of preparing. 2,921,937, 1-19-60, Cl. 260-267.
- Gordon, Richard S., to Monsanto Chemical Co. Animal feeds. 2,927,859, 3-8-60, Cl. 99-4.
- Gordon, Richard S., and R. J. Wineman, to Monsanto Chemical Co. Amino acid substitutes. 2,954,315, 9-27-60, Cl. 167-22.
- Gordon, Roland R.: See—
- Sinclair, Bert H., and Gordon. 2,923,935.
- Gordon, Roy C., and B. S. Harrington, to Armour and Co. Irradiation method and apparatus. 2,938,804, 5-31-60, Cl. 99-217.
- Gordon, Samuel M.: See—
- Schlesinger, Albert, and Gordon. 2,949,470.
- Schlesinger, Albert, and Gordon. 2,954,383.
- Weiner, Nathan, and Gordon. 2,962,499.
- Gordon, Stanley H.: See—
- Talkin, Albert I., Gordon, and Emile. 2,924,786.
- Gordon, Stanley H. Drawrope handle lock. 2,940,290, 6-14-60, Cl. 70-65.
- Gordon, Thurlow M., Jr., and H. L. Taylor, Jr. System for continuously recording sound on film photographically. 2,923,781, 2-2-60, Cl. 179-100.3.
- Gordon, Valerie M. F., to V.G. (Inverness) Ltd. Waterproof sanitary garments. 2,951,481, 9-6-60, Cl. 128-284.
- Gordon, Willis O., to Northrop Corp. Deflection measuring apparatus. 2,931,220, 4-5-60, Cl. 73-88.
- Gordy, Thomas D., to General Electric Co. Five leg core for large transformers. 2,922,972, 1-26-60, Cl. 336-215.
- Gordy Tire Co.: See—
- Glaze, Tom H. 2,961,039.
- Gore, Ethel V. Nut cracker. 2,949,950, 8-23-60, Cl. 146-13.
- Gore, Freddie L. Multiple locking mechanism. 2,962,315, 11-29-60, Cl. 292-28.
- Gore, Le Roy D.: See—
- Hanson, Theodore L., and Gore. 2,961,082.
- Gore, Owen L., to Miehle-Goss-Dexter, Inc. Signature handling apparatus. 2,966,354, 12-27-60, Cl. 270-55.
- Gorecki, Walter J. Wire cutting apparatus comprising a rotary wire carrier movable past a fixed cutter. 2,929,289, 3-22-60, Cl. 83-411.
- Goreham, Herbert V.: See—
- Germany, Norman V., and Goreham. 2,963,719.
- Gorelick, Herman: See—
- Wenig, Max. 2,958,149.
- Goren, Mayer B., to Kerr-McGee Oil Industries, Inc. Process for flocculating solids suspended in an aqueous medium. 2,937,143, 5-17-60, Cl. 210-52.
- Goren, Mayer B., to Kerr-McGee Oil Industries, Inc. Hydrometallurgical process. 2,955,932, 10-11-60, Cl. 75-121.
- Goren, Mayer B., to Kerr-McGee Oil Industries, Inc. Treatment of aqueous solutions to reduce ferric ion to ferrous ion. 2,959,462, 11-8-60, Cl. 23-14.5.
- Goren, Mayer B., and B. G. Marquardt, to Kerr-McGee Oil Industries Inc. Process for rendering soil resistant to erosion with asphaltic oil-free petroleum resinous residue. 2,927,402, 3-8-60, Cl. 47-58.
- Gores, Philip P.: See—
- Breer, Carl, and Gores. 2,932,481.
- Gorey, Archie H., to Graflex, Inc. Continuous film magazine. 2,964,256, 12-13-60, Cl. 242-55.19.
- Gorgens, Joseph E., to Manning, Maxwell & Moore, Inc. Gauge with flexible stem. 2,925,734, 2-23-60, Cl. 73-362.2.
- Gorham, George: See—
- Weiskopf, Edwin C., and Gorham. 2,925,820.
- Gorham, Milton J.: See—
- Rampino, Louis D., and Gorham. 2,946,742.
- Gorike, Rudolf. Directional microphone having a low susceptibility to shock and wind. 2,939,922, 6-7-60, Cl. 179-121.
- Gorin, Everett: See—
- Batchelor, James D., Curran, and Gorin. 2,927,063.
- Batchelor, James D., Curran, and Gorin. 2,950,229.
- Batchelor, James D., Curran, and Gorin. 2,950,230.
- Batchelor, James D., Curran, and Gorin. 2,950,231.
- Goris, Johan R. H.: See—
- Oele, Adrian P., Muyltjens, and Goris. 2,948,764.
- Gorman, Andrew T., to Westinghouse Air Brake Co. Combined fluid pressure and vacuum brake apparatus. 2,926,964, 3-1-60, Cl. 303-4.
- Gorman, Harry A. Hip joint prosthesis. 2,947,308, 8-2-60, Cl. 128-92.
- Gorman, James M., and A. C. Keith, to Seymour Foods, Inc. Egg white product and process of forming same. 2,919,992, 1-5-60, Cl. 99-210.
- Gorman, Richard G.: See—
- Barr, Aaron C., Gorman, Minch, O'Connor, and Weaver. 2,953,324.
- Gorman-Rupp Industries, Inc.: See—
- Hickman, Dan H. 2,959,286.
- Smith, Edward M. 2,931,307.
- Steidley, Virgil K. 2,962,048.
- Gorman, William. Hand truck. 2,953,267, 9-20-60, Cl. 214-511.
- Gorman, William A., R. G. Christie, and G. H. Kraft, to National Dairy Products Corp. Process for manufacturing whipped fatty emulsion. 2,937,093, 5-17-60, Cl. 99-122.
- Gormley, William T., to E. I. du Pont de Nemours and Co. Production of polymeric glycol terephthalates of improved color. 2,938,015, 5-24-60, Cl. 260-75.
- Gorman, William J.: See—
- Darou, William T., Jr., Gorman, and Metcalf. 2,961,494.
- Gorman, William S., Jr., to National Gypsum Co. Water repellent paper and sheathing board. 2,954,302, 9-27-60, Cl. 117-60.
- Gormley, David, to General Motors Corp. Electrical power supply units. 2,929,982, 3-22-60, Cl. 321-2.
- Gormly, Horace C.: See—
- Prater, Arthur N., Vosti, Gormly, and Lukes. 2,957,771.
- Gorn, Walter F. H., to Canadian Fabricated Products Ltd. Automatic hand-nailer. 2,938,213, 5-31-60, Cl. 1-46.
- Goro Société Anonyme: See—
- Schick, Jules. 2,935,774.
- Gorrie, Harvard H.: See—
- Green, Thomas A., Gorrie, Shannon, and Fink. 2,945,120.
- Gorrie, Harvard H., to Bailey Meter Co. Indicating and/or control apparatus. 2,935,670, 5-3-60, Cl. 318-28.
- Gorrill, William S., to Mergenthaler Linotype Co. Phototypographical machine. 2,923,214, 2-2-60, Cl. 95-4.5.
- Gorsich, Richard D., to Ethyl Corp. Cyclopentadienyl metal compounds. 2,952,697, 9-13-60, Cl. 260-429.
- Gorsuch, John T., to The Martin Co. Indicating device. 2,943,435, 7-5-60, Cl. 58-3.
- Gorter, Evert W.: See—
- Esveltd, Cornelis J., and Gorter. 2,925,389.
- Schulkes, Johannes A., Gorter, and Beljers. 2,927,897.
- Gorter, Evert W., to North American Philips Co., Inc. Ferromagnetic materials and methods of preparing the same. 2,960,471, 11-15-60, Cl. 252-62.5.
- Gorton, George, Machine Co.: See—
- Kuehl, Guenter. 2,919,596.
- Gorton, Helen M.: See—
- Burgess, Robert W., and Gorton. 2,939,412.
- Gorton, Thomas S., Jr. Seafood products and method of making the same. 2,938,803, 5-31-60, Cl. 99-195.
- Gory, Frank A. Tile manufacturing machine. 2,948,043, 8-9-60, Cl. 25-42.
- Goshen Rubber Co., Inc.: See—
- Hobson, Carroll D. 2,962,761.
- Goshima, Takeshi, to Canon Camera Co., Inc. Photographic camera with built-in exposure meter. 2,937,582, 5-24-60, Cl. 95-10.
- Goshima, Takeshi, to Canon Camera Co., Inc. Photographic exposure meter coupled to the shutter speed indicator of a camera. 2,952,194, 9-13-60, Cl. 95-10.
- Goshima, Takeshi, to Canon Camera Co., Inc. Reflex mirror operating mechanism for photographic cameras. 2,952,196, 9-13-60, Cl. 95-42.
- Goshima, Takeshi, to Canon Camera Co., Inc. Reflex mirror operating mechanism coupled with shutter for reflex cameras. 2,952,197, 9-13-60, Cl. 95-42.
- Goshorn, Roland H.: See—
- Loev, Bernard, and Goshorn. 2,950,324.
- Loev, Bernard, and Goshorn. 2,951,875.
- Goslin, Thomas P.: See—
- McCullough, Frank S., Goslin, and Clausung. 2,954,969.
- Gosman, Clarence B. Method of and apparatus for making inflatable articles. 2,926,720, 3-1-60, Cl. 154-1.6.
- Gospodar, Reinhard, to Volkswagenwerk G.m.b.H. Exhaust head for internal combustion engines. 2,940,249, 6-14-60, Cl. 60-32.
- Goss, Carlton B.: See—
- Kalina, Henry A., and Goss. 2,966,626.
- Goss, Charles L., to The Monarch Machine Tool Co. Hydraulic control system. 2,929,274, 3-22-60, Cl. 74-824.
- Goss, Charles O.: See—
- Brewer, Claire N., and Goss. 2,942,351.
- Brewer, Claire N., Goss, and Ruddle. 2,957,244.
- Goss Gas, Inc.: See—
- Goss, Herbert C. 2,960,304.
- Goss, John C. 2,960,983.



- Goss, Harold J., to The International Paper Box Machine Co. Reciprocating sheet feed apparatus. 2,927,792, 3-8-60, Cl. 271-44.
- Goss, Harold J., to The International Paper Box Machine Co. Apparatus for erecting and closing cartons. 2,935,918, 5-10-60, Cl. 93-53.
- Goss, Herbert A. Log binder. 2,947,514, 8-2-60, Cl. 254-78.
- Goss, Herbert A. Vehicle alarm switch. 2,947,830, 8-2-60, Cl. 200-61.51.
- Goss, Herbert C., to Goss Gas, Inc. Valve for gas torches. 2,960,304, 11-15-60, Cl. 251-276.
- Goss, James W. Bracket for hanging pictures and the like. 2,943,831, 7-5-60, Cl. 248-31.
- Goss, John C., to Goss Gas, Inc. Heating unit. 2,960,983, 11-22-60, Cl. 126-271.2.
- Goss, Wilbur H., and W. W. Durdning, to United States of America, Navy. Strain gage operated wing servo. 2,924,401, 2-9-60, Cl. 244-77.
- Gossard, H. W. Co., The: *See*—  
Morehouse, Patricia A. 2,929,380.
- Gossen, P., & Co. G.m.b.H.: *See*—  
Pfaffenberger, Erwin. 2,923,170.
- Gossett, Fred C.: *See*—  
Adams, Donald F., Gossett, and Hainsworth. 2,923,296.
- Gossiau, Karlheinz, to Siemens & Halske Aktiengesellschaft. Impulse timing system and device. 2,941,152, 6-14-60, Cl. 328-48.
- Gossling, Brian S., to The General Electric Co. Ltd. Artificial mutation of micro-organisms by electrical shock. 2,955,076, 10-4-60, Cl. 195-78.
- Gosner, Louis E. E. Flexible shackle lock. 2,933,915, 4-26-60, Cl. 70-49.
- Gossweiler, Earl W., to Federal Sign and Signal Corp. Sound signal device. 2,946,995, 7-26-60, Cl. 340-388.
- Gotay, Erasmo. Double bolt lock means. 2,946,214, 7-26-60, Cl. 70-118.
- Gotberg, Harry H., and B. Welte, to Colonial Broach & Machine Co. Broaching machine. 2,925,019, 2-16-60, Cl. 90-33.
- Gotham Lighting Corp.: *See*—  
Gerstel, Harry M., and Langer. 2,965,348.
- Gotham, Stanley T. Alarm clock. 2,927,419, 3-8-60, Cl. 58-21.12.
- Gothberg, Karl E. A., to Aktiebolaget Svenska Kullagerfabriken. Roller bearing. 2,946,633, 7-26-60, Cl. 308-217.
- Gothberg, Karl E. A., and S. Sandahl, to Aktiebolaget Svenska Kullagerfabriken. Oil mist lubricating method. 2,959,249, 11-8-60, Cl. 184-7.
- Gothe, Ernst. Tool feed for multi-spindle automatics. 2,946,243, 7-26-60, Cl. 77-22.
- Gothe, Walter C., and J. O. Hinkle, to Western Electric Co., Inc. Solder applying unit. 2,951,146, 8-30-60, Cl. 219-85.
- Goto, Eiichi. Digital memory system. 2,946,045, 7-19-60, Cl. 340-174.
- Goto, Eiichi, to Parametron Institute. Resonator circuits. 2,948,818, 8-9-60, Cl. 307-88.
- Goto, Eiichi, to Kokusai Denshin Denwa Co., Ltd. Device comprising parametrically excited resonators. 2,948,819, 8-9-60, Cl. 307-88.
- Goto, Eiichi, to Kokusai Denshin Denwa Kabushiki Kaisha. Gating system for a digital computing device. 2,956,173, 10-11-60, Cl. 307-88.
- Goto, Eiichi, to Kokusai Denshin Denwa Kabushiki-Kaisha. Coupling system for an electric digital computing device. 2,957,087, 10-18-60, Cl. 307-88.
- Gotoh, Koji, to Kokusai Denki Kabushiki-Kaisha. System for generating electric power without interruption. 2,920,211, 1-5-60, Cl. 290-30.
- Gotor, Carrau. Electrolytic condenser. 2,922,090, 1-19-60, Cl. 317-230.
- Gott, Euyen, to United States of America, Air Force. Generation of a pulse complex. 2,956,178, 10-11-60, Cl. 307-88.5.
- Gotting, Hans: *See*—  
Alberti, Rudolf, Gotting, and Sigmund. 2,932,745.
- Gottlieb, Jack. Preformed door assembly and attachments for the same. 2,919,798, 1-5-60, Cl. 206-60.
- Gottlieb, Manious, to Westinghouse Electric Corp. Control system for a power plant having a primary and a stand-by prime mover. 2,932,938, 4-19-60, Cl. 60-6.
- Gottlieb, Morton S.: *See*—  
Steuber, Charles H., and Gottlieb. 2,951,433.
- Gottman, Alfred J. Fish hook construction. 2,926,454, 3-1-60, Cl. 43-44.83.
- Gottsacker, Ernst: *See*—  
Schraufstatter, Ernst, Gottsacker, and Wolz. 2,945,782.
- Gottschalk, Carl F., to Farrel-Birmingham Co., Inc. Discharge door for rubber mixers. 2,962,186, 11-29-60, Cl. 220-57.
- Gottschalk, Gordon W., to Thiem Products, Inc. Hot trap construction. 2,952,055, 9-13-60, Cl. 22-147.
- Gottschalk, Klaus, to General Electric Co. Quartz tube pinch seal. 2,965,698, 12-20-60, Cl. 174-50.64.
- Gottschalk, Maynard G., to Carrier Corp. Ice making apparatus. 2,921,447, 1-19-60, Cl. 62-139.
- Gottschall, Herbert A. Rectilinear potentiometer. 2,922,977, 1-26-60, Cl. 338-183.
- Gottschall, Herbert A., and H. S. Zablocki, to M. A. Coler. Battery end cap and method of making same. 2,922,832, 1-26-60, Cl. 136-133.
- Gottschall, Paul P., and C. L. Grebe, to United States Steel Corp. Linear measuring device. 2,941,086, 6-14-60, Cl. 250-219.
- Gottschlich, Joseph W.: *See*—  
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- Gottscho, Adolph, Inc.: *See*—  
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- Gottwig, Ewald: *See*—  
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- Gotze, Johannes: *See*—  
Coenen, Max, Gotze, Grisar, Riester, Stracke, and Zietan. 2,930,694.
- Götzfried, Konrad. Pneumatic spinning device. 2,928,228, 3-15-60, Cl. 57-58.89.
- Goubau, Georg J. E., to Surface Conduction, Inc. Launching and receiving of surface waves. 2,921,277, 1-12-60, Cl. 333-95.
- Gough, Edward J., to Minimax Ltd. Method and apparatus for spray coating the interior of hollow articles. 2,927,044, 3-1-60, Cl. 117-96.
- Gough, Frank E.,  $\frac{1}{4}$  to R. J. Edwards and  $\frac{1}{4}$  to T. E. Workman. Pulsating jet reaction engine. 2,958,187, 11-1-60, Cl. 60-35.6.
- Gough, John A. Training aid. 2,932,908, 4-19-60, Cl. 35-48.
- Gough, Peter,  $\frac{1}{4}$  to J. T. Conchuratt. Removable ferrule for cables. 2,955,338, 10-11-60, Cl. 24-123.
- Gougoulis, George H., to United States of America, Army. Resonator mode test set. 2,931,976, 4-5-60, Cl. 324-56.
- Gouirand, Rene. Tractor-trailer assembly including a pneumatic suspension for the trailer. 2,947,547, 8-2-60, Cl. 280-43.23.
- Gouirand, Rene. Pneumatic suspension for vehicles. 2,952,474, 9-13-60, Cl. 280-113.
- Gould, Alan H.: *See*—  
Abrams, Bernard W., and Gould. 2,928,551.
- Gould, Albert W. Lumber compressing and aligning tool. 2,948,507, 8-9-60, Cl. 254-15.
- Gould, Arlow G., to Clark Equipment Co. Machine for forming an oval opening in an axle housing. 2,937,687, 5-24-60, Cl. 153-48.
- Gould, Clifford: *See*—  
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- Gould, David H.: *See*—  
Hershberg, Emanuel B., and Gould. 2,965,640.  
Herzog, Hershel L., and Gould. 2,957,893.  
Oliveto, Eugene P., Gould, and Clayton. 2,927,108.
- Gould, David H., and E. B. Hershberg. Process for the manufacture of 3-cycloketal derivatives of pregnan-3,11,20-tri-ones and reduction products thereof and compounds obtained thereby. 2,932,638, 4-12-60, Cl. 260-239.55.
- Gould, David H., and E. L. Shapiro, to Schering Corp. Triesters of 9a fluoro-1,4,6-pregnatriene-11 $\beta$ ,17a,21-triol-3,20-dione. 2,959,602, 11-8-60, Cl. 260-397.45.
- Gould, David H., and E. L. Shapiro, to Schering Corp. Triesters of 9a fluoro-4 pregnene-11 $\beta$ ,17a,21-triol-3,20-dione. 2,959,603, 11-8-60, Cl. 260-397.45.
- Gould, Edward A., Jr. Cabinet cooling means. 2,929,223, 3-22-60, Cl. 62-382.
- Gould, Gardner S. Fluid pressure power system. 2,960,828, 11-22-60, Cl. 60-52.
- Gould, Gordon E., and R. S. Mason, to The Dow Chemical Co. Densening mill. 2,959,119, 11-8-60, Cl. 100-90.
- Gould, Henry, and J. P. Rakus, to Weston Chemical Corp. Ester interchange. 2,961,454, 11-22-60, Cl. 260-461.
- Gould, Ira L., and R. E. Thompson, to General Motors Corp. Air conditioner. 2,943,362, 7-19-60, Cl. 62-429.
- Gould, Ira L., E. A. Van Schaik, and H. R. Tuck, to General Motors Corp. Air conditioner with controlled reheat. 2,952,989, 9-20-60, Cl. 62-160.
- Gould, J. D., Co.: *See*—  
Russell, William M. 2,926,882.
- Gould, John M. Apparatus for forming sliver into a package and aiding in doffing the formed package. 2,959,825, 11-15-60, Cl. 19-157.
- Gould, Merle L.: *See*—  
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- Gould, Merle E., and S. A. Di Cecio, to Self Winding Clock Co., Inc. Automatic classifying system. 2,941,717, 6-21-60, Cl. 235-61.9.
- Gould-National Batteries, Inc.: *See*—  
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Schultz, Clarence H. 2,939,901.  
Zahn, Harold E. 2,934,585.  
Zahn, Harold E. 2,953,619.
- Gould, Richard E., to General Motors Corp. Refrigerating apparatus. 2,920,463, 1-12-60, Cl. 62-390.
- Gould, Richard E., to General Motors Corp. Refrigerating apparatus. 2,936,598, 5-17-60, Cl. 62-298.
- Gould, Richard E., to General Motors Corp. Garbage grinder. 2,951,650, 9-6-60, Cl. 241-286.
- Gould, Richard J. Racket press and tennis ball carrier. 2,926,912, 3-1-60, Cl. 273-74.
- Gould, Robert E., and W. E. Cope, to Buffalo Pottery, Inc. Method and means for molding. 2,921,355, 1-19-60, Cl. 25-129.
- Gould, Wallace P., to Merlite Industries, Inc. Fire alarm. 2,954,548, 9-27-60, Cl. 340-227.



- Gould, William, to Keystone Plastics, Inc. Mechanical assembly. 2,936,646, 5-17-60, Cl. 74-459.
- Gould, William L. Composition for the symptomatic treatment of the male climacteric. 2,943,020, 6-28-60, Cl. 167-55.
- Goulden, David E.: See—  
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Taubenslag, Morris J., Goulden, and Hamburger. 2,942,147.
- Goulding, Frederick S., to Atomic Energy of Canada Ltd. Transistor switching circuit. 2,936,382, 5-10-60, Cl. 307-88.5.
- Goulds Pumps, Inc.: See—  
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- Goulet, Jules H., S. G. Dawes, and A. J. Smith, to Caterpillar Tractor Co. Valve lapping machine. 2,943,422, 7-5-60, Cl. 51-27.
- Goulet, Laurent. Tire stand for motor trucks. 2,956,716, 10-18-60, Cl. 224-42.21.
- Gouloumes, Noel, A. B. Caillat, and C. Criquillon, to Societe d'Applications et de Recherches Industrielles. Method of producing high-phosphorous precipitated calcium phosphate. 2,965,469, 12-20-60, Cl. 71-39.
- Gourley, George M.: See—  
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- Gournelle, Maurice. Machine for welding plastics. 2,958,367, 11-1-60, Cl. 154-42.
- Goutarel, Robert: See—  
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- Gouverneur, Minor F. H., II, to Illinois Tool Works. Slotted screw with unthreaded intermediate locking portion. 2,941,563, 6-21-60, Cl. 151-14.
- Govan, Jack F.: See—  
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- Govan, Roy H.: See—  
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- Gow, Arthur R., and P. S. Madsen, to The Seamless Rubber Co. Footballs having a securely grippable laceless surface. 2,931,653, 4-5-60, Cl. 273-65.
- Gow, Henry G.: See—  
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- Gow, Quinn W. Table fan. 2,928,590, 3-15-60, Cl. 230-259.
- Gowan, Willard E., 1/2 to W. A. Lemmler. Clamping hook. 2,928,692, 3-15-60, Cl. 294-82.
- Gowans, William J.: See—  
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- Gower, Arthur C.: See—  
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- Gower, Geoffrey: See—  
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- Gower Mfg. Co.: See—  
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- Goyer, George J. Ceiling panel mounting arrangements. 2,921,656, 1-19-60, Cl. 189-88.
- Goyette, Francis H., to Lodding Engineering Corp. Dripless steam shower pipe. 2,949,239, 8-16-60, Cl. 239-120.
- Goyette, Francis H., and R. E. Bedard, to Lodding Engineering Corp. Spray nozzle and flushing means therefor. 2,954,170, 9-27-60, Cl. 239-109.
- Goyette, Lewis E., to Virginia-Carolina Chemical Corp. Method for killing plants. 2,927,014, 3-1-60, Cl. 71-2.3.
- Goyette, Lewis E., to Virginia-Carolina Chemical Corp. Method of defoliating plants. 2,955,803, 10-11-60, Cl. 71-2.3.
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- Grabe, Clarence G., to National Valve & Mfg. Co. Constant support hanger. 2,946,547, 7-26-60, Cl. 248-54.
- Grabenstetter, Robert J.: See—  
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- Graber, Carl D., to Diebold, Inc. Deal drawer construction for bank drive-up windows. 2,949,870, 8-23-60, Cl. 109-19.
- Graber, John N., to Graber Mfg. Co., Inc. Adjustable drapery hook with track. 2,931,612, 4-5-60, Cl. 248-214.
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- Graber, Robert P., and N. L. Wendler, to Merck & Co., Inc. 9a-hydroxy-11-oxygenated steroids and method of production. 2,952,692, 9-13-60, Cl. 260-397.45.
- Graber, Robert P., and C. S. Snoddy, Jr., to Merck & Co., Inc. Process for making crystalline 9a-fluoro hydrocortisone acetate. 2,957,013, 10-18-60, Cl. 260-397.45.
- Grabiel, Charles E., J. L. Russell, and H. Volk, to The Dow Chemical Co. Abnormal addition of hydrogen bromide to vinylaromatic compounds. 2,925,369, 2-16-60, Cl. 204-163.
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- Grabow, Fritz G., to Daimler-Benz Aktiengesellschaft. Hydrostatic transmission. 2,956,407, 10-18-60, Cl. 60-53.
- Grabow, Paul W. Wing assembly for road graders. 2,957,256, 10-25-60, Cl. 37-155.
- Grabowski, Bogdan: See—  
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- Grace, Billy J., to Motorola, Inc. Electronic device. 2,959,644, 11-8-60, Cl. 179-100.11.
- Grace, W. R., & Co.: See—  
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- D'Alelio, Gaetano F. 2,945,017.
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- Foye, Allen B. 2,920,778.
- Grove, Cornelius S., Jr., and Stannett. 2,963,466.
- Haberlin, Richard J. 2,951,778.
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- Kuhn, Hans H., and Wilip. 2,957,015.
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- Rudner, Bernard. 2,933,500.
- Rudner, Bernard. 2,946,795.
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- Rudner, Bernard. 2,953,570.
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- Rudner, Bernard, and Woods. 2,946,790.
- Rudner, Bernard, Young, and Brooks. 2,929,847.
- Stannett, Vivian T., and Shibel. 2,921,924.
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- Gracious, John R.: See—  
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- Grady, Daniel J., to Hycalog, Inc. Drill bit. 2,931,630, 4-5-60, Cl. 255-61.
- Graef, Edward L. Car top boat loading mechanism. 2,963,184, 12-6-60, Cl. 214-450.
- Graef, Gilbert W. Carpenter's stripping device. 2,929,609, 3-22-60, Cl. 254-131.
- Graef, John N. Stereoscopic camera. 2,936,686, 5-17-60, Cl. 95-18.
- Graef, Rudolf F., to Huttenwerk Oberhausen Aktiengesellschaft. Method of making steel low in nitrogen. 2,959,479, 11-8-60, Cl. 75-60.
- Graefe, Albert D., H. D. Hoffman, and W. C. Schaffer, to Curtiss-Wright Corp. Jet engine thrust control system. 2,934,898, 5-3-60, Cl. 60-39.28.
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- Graefingholt, Alfred, to Firma Fr. Hesser, Maschinenfabrik-Aktiengesellschaft. Mechanism for treating filled packages. 2,933,868, 4-26-60, Cl. 53-95.
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- Graf, Edwin E., to Edwards Engineering Corp. Corrugating machines. 2,960,144, 11-15-60, Cl. 154-30.
- Graf, Fritz: See—  
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- Graf, George L., Jr., to The Celastic Corp. Composition and method for impregnation of sheet materials with synthetic resin latices utilizing coagulants of water-soluble amine or quaternary ammonium salts. 2,923,641, 2-2-60, Cl. 117-65.
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- Graf, Max, to Joh. Jacob Rieter & Co. Ltd. Support means for a pair of condensing funnels in a drafting arrangement of a spinning machine. 2,931,073, 4-5-60, Cl. 19-131.
- Graf, R., & Co., Sueddeutsche Catgutfabrik: See—Kirschbaum, Hans. 2,940,247.
- Graff, Alan R., R. J. Wier, and P. M. Ruzevick, to The Columbia Malting Co. Vertical malting apparatus. 2,933,435, 4-19-60, Cl. 195-129.
- Graff, Alan R., G. O. Garis, R. L. Butts, and E. C. Juergens, to The Columbia Malting Co. Apparatus for the rotation of drums. 2,947,187, 8-2-60, Cl. 74-142.
- Graff, Alan R., E. C. Juergens, and S. E. Berkenblit, to The Columbia Malting Co. Rotary malting equipment. 2,947,669, 8-2-60, Cl. 195-127.
- Graff, Richard A.: See—Lindow, Arthur L., and Graff. 2,960,332.
- Graff, William S.: See—Baldwin, Claude M., Jr., Bauman, Graff, Green, and Skeen. 2,942,053.
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- Graflex, Inc.: See—Dalton, Robert L. 2,931,281.  
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- Graf von Soden, Adolf F. Rotary unit for vacuum, air pressures and fluid circulation. 2,939,403, 6-7-60, Cl. 103-161.
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- Gragson, James T., to Phillips Petroleum Co. Purification of sulfonation reaction mixtures. 2,940,994, 6-14-60, Cl. 260-504.
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- Graham, Agnes D.: See—Graham, Harry C. 2,929,306.
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- Graham, Boynton, to E. I. du Pont de Nemours and Co. Process of adhering an organic compound to a shaped organic polymer. 2,940,869, 6-14-60, Cl. 117-47.
- Graham, Boynton, to E. I. du Pont de Nemours and Co. Process of adhering an organic coating to a polymeric substrate. 2,955,953, 10-11-60, Cl. 117-47.
- Graham, Boynton, to E. I. du Pont de Nemours and Co. Electron irradiation of organic polyethers. 2,964,455, 12-13-60, Cl. 204-154.
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- Graham, Charles D., Jr.: See—Kouvel, James S., and Graham, Jr. 2,961,360.
- Graham, Clifton B.: See—Winters, Charles E., Graham, Culver, and Wilson. 2,945,794.
- Graham, Clifton B., and I. Spiewak, to United States of America, Atomic Energy Commission. Neutronic reactor counter method and system. 2,938,844, 5-31-60, Cl. 204-154.2.
- Graham, Donald C., to Capitol Products Corp. Balanced removable window sash. 2,952,048, 9-13-60, Cl. 20-52.2.
- Graham, Donald L., R. N. Kennedy, and E. L. Kropscott, to The Dow Chemical Co. Method for expanding thermoplastic resinous materials and articles thereby obtained. 2,959,508, 11-8-60, Cl. 154-100.
- Graham, Francis E. Casting floats. 2,963,813, 12-13-60, Cl. 43-43.11.
- Graham, George C., Jr., and V. H. Barlow, to Personal Products Corp. Tow tampon. 2,934,068, 4-26-60, Cl. 128-263.
- Graham, George W., and G. R. Lusby, to Canadian Industries Ltd. Stabilization of halo hydrocarbons. 2,946,826, 7-26-60, Cl. 260-652.5.
- Graham, Harry C.,  $\frac{1}{2}$  to E. Gottwig,  $\frac{1}{4}$  to G. Savransky and R. L. Keyes, and  $\frac{1}{4}$  to A. D. Graham. Film holder. 2,929,306, 3-22-60, Cl. 95-30.
- Graham, James L.: See—Beavers, Dorothy J., Wilson, and Graham. 2,940,851.  
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Graham, William T. Spring clamp with limited spring compression. 2,935,148, 5-3-60, Cl. 172-710.  
Graham, William T. Clamp for vibrating shank plow. 2,941,607, 6-21-60, Cl. 172-710.  
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- Grain, Mark. Community planner and city and village layout kit. 2,942,354, 6-28-60, Cl. 35-7.
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Zajic, James E. 2,959,522.
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- Granahan, Leon E., M. J. Schnitzler, and E. M. Tuckerman, to The Gillette Co. Organosiloxane gel coated razor blade. 2,937,976, 5-24-60, Cl. 167-85.
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- Granberg, Albert J. Method of making a spherical piston assembly for pumps of the variable displacement type and resulting spherical piston assembly. 2,960,758, 11-22-60, Cl. 29-156.5.
- Granberg, Albert J. Temperature compensated liquid meter. 2,961,874, 11-29-60, Cl. 73-230.
- Granberg, Elof. Chain saw attachment. 2,930,416, 3-29-60, Cl. 143-32.
- Granberry, Edgar H., to Parks-Cramer Co. Builder controlled stop motion for textile machine. 2,922,273, 1-26-60, Cl. 57-79.



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- Grand, Louis. Method of obtaining pulps usable in the papermaking or other industries, from wood or annual plants, and the pulps resulting therefrom. 2,921,880, 1-19-60, Cl. 162—89.
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- Grandy, Robert M., to Alberti Seafoods Co. Frozen food package. 2,920,968, 1-12-60, Cl. 99—195.
- Granell Mfg. Ltd.: See—  
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- Grangaard, Donald H., to Kimberly-Clark Corp. Manufacture of cellulosic products. 2,928,868, 3-15-60, Cl. 260—513.
- Grangaard, Donald H., and G. H. Saunders, to Kimberly-Clark Corp. Manufacture of cellulosic products. 2,926,114, 2-23-60, Cl. 162—16.
- Granger, Charles C. Oil burner with concentric troughs. 2,940,519, 6-14-60, Cl. 158—91.
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- Grangie, Pierre R. C., 50% to L. E. Bianco. Spinning machines. 2,942,404, 6-28-60, Cl. 57—58.3.
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- Grannells, June, and J. Weinstock, to Smith Kline & French Laboratories. 6-pteridinecarboxylic acid esters. 2,963,481, 12-6-60, Cl. 260—251.3.
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- Granqvist, Carl-Erik, to Svenska Aktiebolaget Gasaccumulator. Arrangement in constructions for automatic radio direction finding. 2,927,316, 3-1-60, Cl. 343—6.
- Granqvist, Carl-Erik, to Svenska Aktiebolaget Gasaccumulator. Arrangement for radio direction finding. 2,931,037, 3-29-60, Cl. 343—788.
- Granqvist, Carl-Erik, to Svenska Aktiebolaget Gasaccumulator. Stabilizing arrangement for gyroscopes. 2,936,628, 5-17-60, Cl. 74—5.47.
- Granqvist, Carl-Erik, to Svenska Aktiebolaget Gasaccumulator. Contact-free high frequency commutator. 2,944,230, 7-5-60, Cl. 333—27.
- Granqvist, Carl-Erik, to Svenska Aktiebolaget Gasaccumulator. Arrangement for radio direction finding. 2,953,785, 9-20-60, Cl. 343—778.
- Granqvist, Carl-Erik, to Svenska Aktiebolaget Gasaccumulator. Tunable circuit, particularly for high frequencies. 2,957,984, 10-25-60, Cl. 250—40.
- Granqvist, Carl-Erik. Radio direction finding equipment. 2,960,692, 11-15-60, Cl. 343—6.
- Granryd, Thorvald G., to The Frank G. Hough Co. Counterweight arrangement for tractor loader. 2,926,799, 3-1-60, Cl. 214—142.
- Granryd, Thorvald G., to The Frank G. Hough Co. Tractor loaders. 2,961,889, 11-29-60, Cl. 74—472.
- Granstedt, Karl E., to Aereco Aktiebolag. Cigar wrapping machines. 2,939,463, 6-7-60, Cl. 131—35.
- Grant, Andrew C., to Vickers-Armstrongs (Engineers) Ltd. Couplings. 2,932,179, 4-12-60, Cl. 64—14.
- Grant, Arthur F.: See—  
Brill, William E., and Grant. 2,924,315.
- Grant, Arthur F., to General Motors Corp. Torque transmitting coupling. 2,919,563, 1-5-60, Cl. 64—30.
- Grant, Arthur F., to General Motors Corp. Transmitting mechanism. 2,927,472, 3-8-60, Cl. 74—378.
- Grant, Arthur F., to General Motors Corp. Magnetic fluid clutch with magnetic particle seal. 2,933,170, 4-19-60, Cl. 192—21.5.
- Grant, Arthur F., to General Motors Corp. Magnetic particle coupling. 2,939,559, 6-7-60, Cl. 192—21.5.
- Grant, Arthur F., to General Motors Corp. Modulating control for fluid pressure actuated clutches and brakes. 2,956,659, 10-18-60, Cl. 192—85.
- Grant, Arthur F., and R. R. King; said Grant assor. to General Motors Corp. Drive control mechanism for prime mover with fluid actuated clutches. 2,925,156, 2-19-60, Cl. 192—098.
- Grant, Chester A.: See—  
Barrett, Neilon, and Grant. 2,943,336.
- Grant, Clay B. Pilaster form clamp for concrete walls. 2,939,500, 6-7-60, Cl. 144—291.
- Grant, Dale W., to Olin Mathieson Chemical Corp. Production of vitamin B<sub>12</sub> products. 2,956,932, 10-18-60, Cl. 195—114.
- Grant, Daniel J., to United States of America, Navy. High speed drum camera. 2,930,280, 3-29-60, Cl. 88—16.
- Grant, Dwight W., and M. Wohlhieter, to Bell Telephone Laboratories, Inc. Winding machine. 2,959,366, 11-8-60, Cl. 242—4.
- Grant, Fred W.: See—  
Kushler, Robert H., Grant, Streetman, Smith, McPherson, Karlstadt, and Wilson. 2,954,998.
- Grant, Garnet P., Jr., to Grant Photo Products Inc. Photographic film developing apparatus. 2,945,429, 7-19-60, Cl. 95—94.
- Grant, George A., to Her Majesty the Queen in the right of Canada as represented by the Minister of National Defence. Method for testing anticholinesterase agents. 2,919,977, 1-5-60, Cl. 23—230.
- Grant, Harry C., Jr., to Specialties Development Corp. Smoke detecting and fire extinguishing system. 2,935,135, 5-3-60, Cl. 169—5.
- Grant, Jesse R. Cartons for eggs. 2,939,602, 6-7-60, Cl. 217—26.5.
- Grant Photo Products Inc.: See—  
Grant, Garnet P., Jr. 2,945,429.
- Grant, Michael G.: See—  
Figert, Donald M., Grant, and Eichelberger. 2,959,289.
- Grant, Michael G. Liquid separator with water flow controller. 2,961,097, 11-22-60, Cl. 210—128.
- Grant Pulley & Hardware Corp.: See—  
Gussack, Nathan A. 2,926,048.
- Grant, Robert G., to Cheney Lumber Co., Inc. Mechanism for detecting and indicating lumber pieces which contain excess moisture. 2,941,793, 6-21-60, Cl. 265—27.
- Grant, Samuel, to Helene Curtis Industries, Inc. 5.5' dialkylhydantoin-formaldehyde resin aerosol hair spray. 2,956,927, 10-18-60, Cl. 167—87.1.
- Grant, Whitney I.: See—  
Kocher, Erich J., and Grant. Re. 24,802.
- Grantham, Barfield F. Display construction. 2,944,678, 7-12-60, Cl. 211—177.
- Granzow, Kurt H., to Lawrence Brothers, Inc. Latch mechanism. 2,926,037, 2-23-60, Cl. 292—113.
- Granzow, Robert H., to The National Cash Register Co. Perforating apparatus. 2,953,203, 9-20-60, Cl. 164—111.
- Grapes, Robert D.: See—  
Oberdorf, Robert A., Baer, and Grapes. 2,934,006.
- Graphic Arts Research Foundation, Inc.: See—  
Caldwell, Samuel H. 2,950,800.
- Higonnet, Rene, and Moyroud. 2,922,508.
- Higonnet, Rene, and Moyroud. 2,951,428.
- Higonnet, Rene A., and Moyroud. 2,933,990.
- Higonnet, Rene A., and Moyroud. 2,950,662.
- Higonnet, Rene A., and Moyroud. 2,958,270.
- Higonnet, Rene A., and Moyroud. 2,965,010.
- Moyroud, Louis M. 2,930,297.
- Moyroud, Louis M. 2,946,268.
- Graser, Gilbert E., to United States of America, Army. Self destruction device. 2,943,573, 7-5-60, Cl. 102—75.
- Grashoff, Adolph W., to Essex Wire Corp. Electric switch. 2,941,047, 6-14-60, Cl. 200—4.
- Grassie, Vernon R., to Hercules Powder Co. Manufacture of double-base propellant grains. 2,946,673, 7-26-60, Cl. 52—5.
- Grassie, Vernon R., to Hercules Powder Co. Densification of nitrocellulose. 2,948,601, 8-9-60, Cl. 52—20.
- Grassmann, Günther. Circular saw for cutting hot metals. 2,961,910, 11-29-60, Cl. 83—470.
- Grasso, Alfred F. Imprinting attachment for sheet feeding devices. 2,963,963, 12-13-60, Cl. 101—80.
- Graswich, Edward, and J. W. Cedarquist, to Dohrmann Hotel Supply Co. Grease extracting attachment for ventilators for kitchen ranges. 2,961,941, 11-29-60, Cl. 98—115.
- Gratacos, Miguel L. Microbiological product and method of making the same. 2,922,746, 1-26-60, Cl. 167—78.
- Gratian, Joseph W., and R. J. O'Brien, to General Dynamics Corp. Winding and reeling control system. 2,923,488, 2-2-60, Cl. 242—55.12.
- Grattidge, Walter, and F. A. Muller, to General Electric Co. Method for the spraying of electron emitting thermionic cathodes. 2,943,957, 7-5-60, Cl. 117—223.
- Grattidge, Walter, and J. E. Beggs, to General Electric Co. Resistance films and method of making. 2,961,352, 11-22-60, Cl. 117—229.
- Gratzmuller, Jean L. Control system for fluid operated mechanism. 2,933,069, 4-19-60, Cl. 121—38.
- Gratzmuller, Jean L. Control devices for hydraulic actuators. 2,938,346, 5-31-60, Cl. 60—51.
- Gratzmuller, Jean L. Pressure-limiting device. 2,948,262, 8-9-60, Cl. 121—38.



- Gratzmuller, Jean L. Fluid pressure motor. 2,948,266, 8-9-60, Cl. 121-120.
- Grauel, Ludwig J., to Fairbanks, Morse & Co. Engine air supply control. 2,927,569, 3-8-60, Cl. 123-120.
- Graulich, Wilhelm: *See*—  
Mauth, Gustav, Graulich, and Rohling. 2,949,335.  
Schmitt, Andreas, and Graulich. 2,956,907.
- Grave, George, H. Wegner, and H. Gilles, to Schweitzer Electrostatic Co. Electrostatic coating means and apparatus. 2,961,581, 11-22-60, Cl. 317-3.
- Graveno, John C.,  $\frac{1}{2}$  to J. E. Sterna. Container. Re. 24,839, 6-14-60, Cl. 229-17.
- Gravenstreter, Paul R., and L. A. Koenig, to The Clark Controller Co. Winding and unwinding controls. 2,949,249, 8-16-60, Cl. 242-75.51.
- Graver, John F., to The Procter & Gamble Co. Methods and apparatus for parcelling cartons or the like. 2,925,946, 2-23-60, Cl. 225-4.
- Graves, Alfreda E. Detachable extension table top. 2,955,888, 10-11-60, Cl. 311-41.
- Graves, Clare E. Disposable shoe shining pad. 2,932,841, 4-19-60, Cl. 15-209.
- Graves, Dana A. Form for lintel construction. 2,948,944, 8-16-60, Cl. 25-131.
- Graves, Donald E., to General Electric Co. Electronic timer. 2,958,782, 11-1-60, Cl. 250-93.
- Graves, Eldred G., Jr. Fish lure. 2,932,112, 4-12-60, Cl. 43-42.02.
- Graves, Gordon R., to The Heltzel Steel Form and Iron Co. Self widening subgrade planers and testers. 2,965,987, 12-27-60, Cl. 37-108.
- Graves, Herman B.: *See*—  
Gebhart, George D. 2,939,055.
- Graves, Kenneth M. Clock operated switch system. 2,926,486, 3-1-60, Cl. 58-18.
- Graves, Richard H.: *See*—  
Weiss, Walter J., and Graves. 2,960,464.
- Graviner Mfg. Co. Ltd.: *See*—  
Cole, Eric L. 2,939,925.  
Glendinning, William G. 2,921,897.  
Mathisen, Anders. 2,935,909.
- Gravlee, Leland C., Jr.,  $\frac{1}{4}$  to R. Parker. Apparatus for applying an elastic tie. 2,942,604, 6-28-60, Cl. 128-303.
- Gravley, Charles K., to Cleviste Corp. Method of forming ceramic capacitors. 2,919,483, 1-5-60, Cl. 25-156.
- Gravley, Charles K., to Cleviste Corp. Capacitor of high permittivity ceramic. 2,939,059, 5-31-60, Cl. 317-242.
- Graw, Josef, to Graw, Dr. Messgerate G.m.b.H. Radiosonde for release from aircraft. 2,939,127, 5-31-60, Cl. 340-345.
- Graw, Dr. Messgerate G.m.b.H.: *See*—  
Graw, Josef. 2,939,127.
- Gray, Abe L., and H. E. Duchnowski, to North American Machine Co. Reversible ratchet wrench. 2,943,523, 7-5-60, Cl. 81-63.
- Gray, Alfred E.: *See*—  
Azari, Eric, Gray, Malin, and Thompson. 2,947,538.
- Gray, Alfred E., H. J. Malin, and H. B. Thompson, to Magnavox Co. Card processing apparatus. 2,953,370, 9-20-60, Cl. 271-4.
- Gray, Alfred E., H. J. Malin, and H. B. Thompson, to Magnavox Co. Card processing apparatus. 2,956,800, 10-18-60, Cl. 271-5.
- Gray, Alfred E., H. J. Malin, and H. B. Thompson, to Magnavox Co. Card processing apparatus. 2,956,803, 10-18-60, Cl. 271-28.
- Gray, Allen G., to United States of America, Atomic Energy Commission. Iron coated uranium and its production. 2,928,168, 3-15-60, Cl. 29-194.
- Gray, Alvin N., to Western Electric Co., Inc. Methods for making cellular plastic products. 2,928,130, 3-15-60, Cl. 18-48.
- Gray, Alvin N., to Western Electric Co., Inc. Screw-conveyor systems. 2,933,175, 4-19-60, Cl. 198-64.
- Gray, Alvin N., to Western Electric Co., Inc. Methods of and apparatus for extruding plastic materials. 2,943,351, 7-5-60, Cl. 18-13.
- Gray, Daniel M., to American-Marietta Co., Stoner-Mudge Co. Division. Battery separators and production thereof. 2,953,622, 9-20-60, Cl. 136-143.
- Gray, Don N., to The Dow Chemical Co. Preparation of alpha-haloalkyl acids. 2,935,527, 5-3-60, Cl. 260-533.
- Gray, Edward: *See*—  
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- Gray, Frederick W.: *See*—  
Krems, Irving J., and Gray. 2,962,526.
- Gray, G. A., Co., The: *See*—  
Walter, John M. 2,947,226.  
Walter, John M., and Marx. 2,940,368.  
Walter, John M., and Roberts. 2,925,016.
- Gray, Geoffrey T.: *See*—  
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- Gray, George W., and W. S. Pike, to Radio Corp. of America. Object detector. 2,943,306, 6-28-60, Cl. 340-258.
- Gray, Glen G., to Eastman Kodak Co. Gelatin silver halide emulsion plasticized with dicarboxylic acid esters. 2,940,854, 6-14-60, Cl. 96-94.
- Gray, Glen G., and O. D. Hawks, to Eastman Kodak Co. Diethylene glycol mixed esters. 2,937,088, 5-17-60, Cl. 96-94.
- Gray, Guy L.: *See*—  
Dick, Charles W., and Gray. 2,952,271.
- Gray, Harold P. Tractor with driven wheels individually powered and mounted on transmission housings constituting part of the frame. 2,942,677, 6-28-60, Cl. 180-26.
- Gray, Harry H., to Armco Steel Corp. Machine for shearing rails into small pieces for use in a forging machine. 2,966,087, 12-27-60, Cl. 83-247.
- Gray, Harry Z. Composite cleaning article and method of manufacturing same. 2,942,285, 6-28-60, Cl. 15-209.
- Gray, Homer A., and G. F. Wichmann,  $\frac{1}{2}$  to Apsco Mfg. Corp., and  $\frac{1}{2}$  to Air-O-Matic Power Steer Corp. Power steering mechanism. 2,964,119, 12-13-60, Cl. 180-79.2.
- Gray, James H. Impact meter. 2,922,633, 1-26-60, Cl. 264-1.
- Gray, James H., to G & H Engineering Corp. Impact meter. 2,924,442, 2-9-60, Cl. 264-1.
- Gray, James H., and W. L. Wood, to Allis-Chalmers Mfg. Co. Cotton picking spindle. 2,943,431, 7-5-60, Cl. 56-50.
- Gray, James J., to Imperial Chemical Industries Ltd. Manufacture of metals. 2,944,887, 7-12-60, Cl. 75-84.5.
- Gray, James U.: *See*—  
Elliott, James M., and Gray. 2,942,403.
- Gray, John G., to Scanners Ltd. Mobile suspension units. 2,959,970, 11-15-60, Cl. 74-89.
- Gray, John W., to General Precision Laboratory Inc. Wind computer. 2,919,856, 1-5-60, Cl. 235-187.
- Gray, John W., to General Precision Laboratory Inc. Navigation system employing star heading reference. 2,922,224, 1-26-60, Cl. 33-1.
- Gray, John W., to General Precision, Inc. Rectangular co-ordinate rotator. 2,940,671, 6-14-60, Cl. 235-189.
- Gray, John W., to United States of America, Navy. Bomb range computer. 2,946,260, 7-26-60, Cl. 89-1.5.
- Gray, John W., to General Precision, Inc. Frequency measuring device. 2,957,135, 10-18-60, Cl. 324-78.
- Gray, John W., and R. Saylor, to General Precision, Inc. Precision oscillator. 2,940,053, 6-7-60, Cl. 331-55.
- Gray, Kenneth R.: *See*—  
Van Blaricom, Lloyd E., and Gray. 2,964,469.
- Gray, Kenneth R., J. C. Steinberg, and H. L. Crosby, to Rayonier Inc. Alkali bark derivative. 2,938,893, 5-31-60, Cl. 260-124.
- Gray, Louis M.: *See*—  
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- Gray, Norman E., and A. E. Tilley, to California Research Corp. Calibrated automatic gain control for seismic amplifiers. 2,934,741, 4-26-60, Cl. 340-15.
- Gray, Philip P., I. M. Stone, and J. E. Wylie, to Baxter Laboratories, Inc. Stabilized malt beverages. 2,943,941, 7-5-60, Cl. 99-48.
- Gray, Raymond K., and R. J. Ryba, to The Illinois Lock Co. Lock. 2,938,373, 5-31-60, Cl. 70-86.
- Gray, Reuben F., to United States of America, Navy. Fluid filled ear muffs. 2,933,086, 4-19-60, Cl. 128-152.
- Gray, Richard O., to Zenith Radio Corp. Over-voltage protective device. 2,963,617, 12-6-60, Cl. 315-20.
- Gray, Robert B., to Erie Resistor Corp. Bender type piezo-electric transducer. 2,944,117, 7-5-60, Cl. 179-100.41.
- Gray, Robert B., to Erie Resistor Corp. Binaural phonograph pickup. 2,944,118, 7-5-60, Cl. 179-100.41.
- Gray, Robert B., to Erie Resistor Corp. Compensating network for binaural pickup. 2,958,738, 11-1-60, Cl. 179-100.4.
- Gray, Thomas J., to Gulf Research & Development Co. Nutating helicoid separating apparatus. 2,936,072, 5-10-60, Cl. 209-434.
- Gray Tool Co.: *See*—  
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- Gray, Warren E.: *See*—  
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- Gray, Willard A.: *See*—  
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- Gray, Willard E. M.: *See*—  
Moody, Charles W., Neff, Gray, and Kettler. 2,947,065.
- Gray, William P. Signal transmitter for emergency purposes. 2,932,732, 4-12-60, Cl. 250-17.
- Gray, William R., to Pittsburgh Plate Glass Co. Continuous electroplating apparatus. 2,924,563, 2-9-60, Cl. 204-198.
- Gray, William T. Dual pressure tire. 2,955,636, 10-11-60, Cl. 152-340.
- Gray, Wilna R.,  $\frac{1}{2}$  to D. M. Miller. Zipper sewing attachment. 2,954,000, 9-27-60, Cl. 112-2.
- Graybeal, Andrew W.: *See*—  
Cassell, James W., and Graybeal. 2,960,976.
- Graybeal, John O., to Kaiser Aluminum & Chemical Corp. Continuous electrode electrical furnace. 2,959,526, 11-8-60, Cl. 204-67.
- Graybill, Clinton L., Graybill Industries, Inc. Reversible torque transmission for power tools. 2,941,420, 6-21-60, Cl. 74-764.
- Graybill, Clinton L., to Graybill Industries, Inc. Combination concrete mixer and portable dispenser. 2,961,225, 11-22-60, Cl. 259-177.
- Graybill Industries, Inc.: *See*—  
Graybill, Clinton L. 2,941,420.  
Graybill, Clinton L. 2,961,225.
- Graybill, Paul J. Reclosable folding spout containers with tear-flap. 2,928,579, 3-15-60, Cl. 229-17.
- Graybill, Paul J. Reclosable containers. 2,928,581, 3-15-60, Cl. 229-39.
- Grayson, Frank M.: *See*—  
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- Grayson, Harry, R. A. G. Dunkley, and T. H. Walker, to International Standard Electric Corp. Magnetic switch-amplifiers. 2,947,946, 8-2-60, Cl. 330-8.
- Grayson, Leonard W. Disc shaped aircraft. 2,935,275, 5-3-60, Cl. 244-23.
- Graziano, Victor, to Motorola, Inc. Film scanning system. 2,922,841, 1-26-60, Cl. 178-6.8.
- Graziano, Victor, and J. R. Lincicome, to Motorola, Inc. Portable color television system. 2,949,605, 8-16-60, Cl. 343-202.
- Graziosi, Michael. Replaceable valve seat adapter. 2,964,758, 12-20-60, Cl. 4-57.
- Greacen, Edmund: *See*—  
Kaighin, Hall Y., and Greacen. 2,932,210.
- Greanias, Evon C., to International Business Machines Corp. Data sensing and handling apparatus. 2,928,073, 3-8-60, Cl. 340-149.
- Greanias, Evon C., to International Business Machines Corp. Signal translating apparatus. 2,944,217, 7-5-60, Cl. 328-2.
- Greanias, Evon C., A. Hambrun, and J. J. Leimer, to International Business Machines Corp. Data consolidation systems. 2,959,769, 11-8-60, Cl. 340-149.
- Greasley, Eric A., to United-Carr Fastener Corp. Electrical connector for printed circuit board. 2,953,765, 9-20-60, Cl. 339-17.
- Greatbatch, Wilson, to Taber Instrument Corp. Transistor amplifier with damage control. 2,962,665, 11-29-60, Cl. 330-32.
- Great Dane Trailers, Inc.: *See*—  
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- Great Lakes Carbon Corp.: *See*—  
Kennedy, Harvey T., and Crawford. 2,957,338.
- Leppia, Paul W. 2,956,016.
- Toelke, Lester W. 2,956,624.
- Toelke, Lester W. 2,956,625.
- Greatorex, Gordon V.: *See*—  
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- Greatorex, Gordon V., to Simmonds Aeroessories Ltd. Circuits for obtaining indications dependent on capacitance. 2,924,098, 2-9-60, Cl. 73-304.
- Great Western Producers, Inc., Gulf Red Cedar Co. Division: *See*—  
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- Greaves, Geoffrey: *See*—  
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- Greaves, Melvin J., to Arthur G. McKee & Co. Method and apparatus for automatically measuring and controlling moisture in a sinter mix or the like. 2,931,718, 4-5-60, Cl. 75-5.
- Grebe, Carl E.: *See*—  
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- Grebe, Chauncey L.: *See*—  
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- Grebe, Ludwig, to Kramer & Grebe Kg. Maschinen-U. Modell-fabrik. Machine for processing meat and like material. 2,934,115, 4-26-60, Cl. 146-67.
- Grebe, Otto, to Licentia Patent-Verwaltungs-G.m.b.H. Control system. 2,941,123, 6-14-60, Cl. 317-100.
- Grebowiec, Michael J., to Injection Molding Co. Apparatus for forming hollow plastic containers with pre-molded finished neck sections. 2,940,120, 6-14-60, Cl. 18-5.
- Greco, Anthony J., J. E. Luckman, and M. I. Dickinson, to United States of America, Navy. Voltage regulator adjuster. 2,957,138, 10-18-60, Cl. 324-158.
- Greco, Michael. Concealable partitions. 2,944,282, 7-12-60, Cl. 16-87.
- Greco, Peter, to Burndy Corp. Hook type run and tap connector and method of making a connection therewith. 2,930,113, 3-29-60, Cl. 29-155.55.
- Greco, Peter, to Burndy Corp. Connection insulating cover. 2,956,109, 10-11-60, Cl. 174-138.
- Greco, Saverio G.: *See*—  
Chrones, James, Greco, and Hanisian. 2,953,905.
- Greedy, Edwin F.: *See*—  
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- Gregor, Ralph H., to The Kinnear Mfg. Co. Power unit for rolling door. 2,957,521, 10-25-60, Cl. 160-133.
- Green, Albert J.: *See*—  
Williams, Paul H., and Green. 2,953,372.
- Williams, Paul H., Green, Schaefer, and Long. 2,935,934.
- Green, Arlie. Trigger fishing devices. 2,944,360, 7-12-60, Cl. 43-16.
- Green, Armin H.: *See*—  
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- Schlage, Ernest L., and Green. 2,950,615.
- Green, Arthur, to American Cyanamid Co. 12a-deoxyxanthro-tetracyclines. 2,922,817, 1-26-60, Cl. 260-559.
- Green, Arthur R. System and mechanism for making ordinary pianos respond to player piano rolls. 2,924,139, 2-9-60, Cl. 84-107.
- Green, Barney. Golf club attachment. 2,938,728, 5-31-60, Cl. 273-165.
- Green, Barrett K., to The National Cash Register Co. Oil-containing microscopic capsules and method of making them. Re. 24,899, 11-29-60, Cl. 252-316.
- Green, Barrett K., and L. Schleicher, to The National Cash Register Co. Method for electrostatic printing. 2,953,470, 9-20-60, Cl. 117-17.5.
- Green, Charles. Cushion sole. 2,928,192, 3-15-60, Cl. 36-32.
- Green, Charles P., to E. I. du Pont de Nemours and Co. Crystallization. 2,949,341, 8-16-60, Cl. 23-79.
- Green, Charles P., and W. R. Jenks, to E. I. du Pont de Nemours and Co. Drying of cyanides. 2,944,344, 7-12-60, Cl. 34-17.
- Green, Clifton L. Welding device. 2,957,976, 10-25-60, Cl. 219-81.
- Green, Daniel A.: *See*—  
Windsor, Frederick N., and Green. 2,926,683.
- Green, Daniel A., to Mine Safety Appliances Co. Electric power system for hazardous atmospheres. 2,943,213, 6-28-60, Cl. 207-112.
- Green, David J., to Lear, Inc. Frequency modulation altimeter. 2,929,057, 3-15-60, Cl. 343-14.
- Green, Donald C.: *See*—  
Mather, Glen E., and Green. 2,932,506.
- Green, Donald T., to Picker X-Ray Corp., Waite Mfg. Division, Inc. Adjustable collimator for radiation therapy. 2,959,680, 11-8-60, Cl. 250-105.
- Green, Edward, R. W. Graham, H. S. Gardner, and A. W. Holmes, to Lever Bros. Co. Preparation of protein solutions. 2,958,606, 11-1-60, Cl. 106-154.
- Green, Edward H.: *See*—  
Kerr, Robert J., and Green. 2,925,103.
- Green, Elmer E.: *See*—  
Kinder, Floyd A., and Green. 2,961,933.
- Green, Emil, and S. Schlanger. Tag machines. 2,937,579, 5-24-60, Cl. 93-91.
- Green, Frank B. K., to Sprout, Waldron & Co., Inc. Pulp manufacture. 2,933,208, 4-19-60, Cl. 214-17.
- Green, Frank B. K., to Pandia, Inc. Continuous digester. 2,953,202, 9-20-60, Cl. 162-237.
- Green, Frank B. K., to Pandia, Inc. Paper machinery. 2,963,086, 12-6-60, Cl. 162-237.
- Green, Frank T., and W. I. Smith, to Noble Mfg. Co., Inc. Magazine gun with manual reloading mechanism. 2,926-445, 3-1-60, Cl. 42-17.
- Green, Frederick H., to The Garrett Corp. High pressure ratio cooling system. 2,958,202, 11-1-60, Cl. 62-5.
- Green Fuel Economizer Co., Inc.: *See*—  
Cawthon, William L., and Pettit. 2,963,112.
- Green, George F. H., J. C. Hamlet, and A. G. Long, to G.N.R.D. Patent Holdings Ltd. Process for the preparation of pseudosapogenins. 2,945,027, 7-12-60, Cl. 260-239.55.
- Green, George W. Air conditioning unit. 2,927,188, 3-1-60, Cl. 219-39.
- Green, George W. A., G. B. Fox, and J. E. New; said New assor, to said Green and said Fox. Fluid operated governors. 2,951,493, 9-6-60, Cl. 137-36.
- Green, Howard C. Hydraulic cultivating tool. 2,961,054, 11-22-60, Cl. 172-305.
- Green, Howard S., to United States of America, Navy. Parachute landing fall trainer. 2,930,145, 3-29-60, Cl. 35-29.
- Green, Isaac H. C., to Hemphill Co. Knitting mechanism and method. 2,934,921, 5-3-60, Cl. 66-43.
- Green, Isaac H. C., to Hemphill Co. Yarn feeding mechanism and method for circular knitting machine. 2,961,857, 11-29-60, Cl. 66-43.
- Green, James E. Boat transporting trailers. 2,926,947, 3-1-60, Cl. 296-23.
- Green, James R., to U.S. Electrical Motors, Inc. Device for preventing shaft rotation. 2,928,509, 3-1-60, Cl. 64-1.
- Green, James X., and S. E. Taylor, to Airline Electric, Inc. Potentiometer. 2,934,733, 4-26-60, Cl. 338-148.
- Green, John P.: *See*—  
Yarrick, Charles J., and Green. 2,953,757.
- Green, Joseph: *See*—  
Cohen, Murray S., and Green. 2,927,938.
- Green, Julius, to General Foods Corp. Corn popping apparatus. 2,922,355, 1-26-60, Cl. 99-238.6.
- Green, Julius, to Channel Master Corp. Broad band television antenna. 2,942,259, 6-21-60, Cl. 843-747.
- Green, Lee B. Bending machines. 2,937,686, 5-24-60, Cl. 153-46.
- Green, Malcolm: *See*—  
Fugnaire, Jean P., and Green. 2,941,398.
- Green, Malcolm, to Baldwin-Lima-Hamilton Corp. Fluid pressure measuring device. 2,920,487, 1-12-60, Cl. 73-407.
- Green, Marion C. Multiple insulated pipe system. 2,937,662, 5-24-60, Cl. 138-25.
- Green, Martin J. Waste disposal unit. 2,946,522, 7-26-60, Cl. 241-32.5.
- Green, Max L., and W. C. Kinard. Child's scooter and brake construction. 2,953,389, 9-20-60, Cl. 280-87.04.
- Green, Milton: *See*—  
Blout, Elkan R., Green, and Simon. 2,949,359.
- Green, Norman, to Aladdin Industries Inc. Magnetic flip-flop devices. 2,966,596, 12-27-60, Cl. 307-38.
- Green, Paul D. Infant's diaper substitute. 2,920,625, 1-12-60, Cl. 128-283.
- Green, Richard F.: *See*—  
Baldwin, Claude M., Jr., Bauman, Graff, Green, and Skeen. 2,942,053.
- Green, Richard M., to Phillips Petroleum Co. Crystal purification process and apparatus. 2,921,968, 1-19-60, Cl. 260-666.
- Green, Richard W., to Dover Corp. Adjustable vehicle lift. 2,956,644, 10-18-60, Cl. 187-8.49.
- Green, Robert S., and C. E. Stringer. Device for marking X-ray negatives. 2,936,370, 5-10-60, Cl. 250-67.



- Green, Samuel R., to Baxter Laboratories, Inc. Process for producing dihydroxy acetone. 2,948,658, 8-9-60, Cl. 195-93.
- Green, Thomas A., H. H. Gorrie, J. F. Shannon, and T. Fink, to Bailey Meter Co. Indicating instrument. 2,945,120, 7-12-60, Cl. 240-52.1.
- Green, Vernor W., to The Taylor-Winfield Corp. High frequency induction heating and roll forging of metal workpieces. 2,922,014, 1-19-60, Cl. 219-7.5.
- Green, Wayne V., to Challenge Cream & Butter Assn. Method and apparatus for preparing cheese for packaging. 2,931,729, 4-5-60, Cl. 99-115.
- Green, William B., to Phillips Petroleum Co. Start up procedure-gas fractionator. 2,939,293, 6-7-60, Cl. 62-19.
- Green, William G., and D. M. Moody. Water conditioner. 2,939,830, 6-7-60, Cl. 204-248.
- Greenawalt, Elmer J. Tractor-trailer fifth wheel coupler. 2,934,358, 4-26-60, Cl. 280-434.
- Greenaway, Leonard R.: *See—*  
Barnes, Fredrik R., and Greenaway. 2,945,379.
- Greenbaum, Arthur, to Jet Electric Shaver Corp. Retractable reel assembly for electric razors. 2,921,994, 1-19-60, Cl. 191-12.4.
- Greenbaum, Frederick R., to Kwik Kafe Coffee Processors of America, Inc. Method of producing a tea concentrate. 2,963,368, 12-6-60, Cl. 99-77.
- Green Bay Box Co.: *See—*  
Daniels, Wilbert P. 2,931,153.
- Greenberg, Elmer H. and W. B. Method and apparatus for identifying metals. 2,924,771, 2-9-60, Cl. 324-32.
- Greenberg, Harry: *See—*  
Pritchett, Ervin G., and Greenberg. 2,951,068.  
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Schott, Stuart, Hansley, and Greenberg. 2,962,352.
- Greenberg, Harry, R. A. Foos, and H. R. Lubowitz, to National Distillers and Chemical Corp. Leaching of columbium and tantalum spalt. 2,960,399, 11-15-60, Cl. 75-101.
- Greenberg, Herbert J., to Engelhard Industries, Inc. Resistance temperature detector. 2,957,153, 10-18-60, Cl. 338-28.
- Greenberg, Jack: *See—*  
Abeel, Theodore E., Greenberg, and McHugh. 2,935,669.
- Greenberg, Joel S.: *See—*  
Harlan, George H., and Greenberg. 2,951,988.
- Greenberg, Robert L., to National Equipment Corp. Starch collecting apparatus for confectionery machines. 2,939,408, 6-7-60, Cl. 107-44.
- Greenberg, Walter S., to Kiddy Case Mfg. Co., Inc. Suit-case closure. 2,949,987, 8-23-60, Cl. 190-49.
- Greenberg, William B.: *See—*  
Greenberg, Elmer H. and W. B. 2,924,771.
- Greenberger, Joseph I., to United Engineering and Foundry Co. Reel structure. 2,922,593, 1-26-60, Cl. 242-72.1.
- Greenberger, Joseph I., to United Engineering and Foundry Co. Apparatus for weighing workpieces. 2,924,444, 2-9-60, Cl. 265-72.
- Greenblatt, Julius: *See—*  
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- Greenblatt, Morris L., to Simon Greenblatt & Sons, Inc. Brushes. 2,958,889, 11-8-60, Cl. 15-187.
- Greenblatt, Simon, & Sons, Inc.: *See—*  
Greenblatt, Morris L. 2,958,889.
- Greenburg, Reginald H., and R. B. Callahan, to National Lead Co. Storage battery active material. 2,938,063, 5-24-60, Cl. 136-26.
- Greene, Albert J., to Monsanto Chemical Co. Preventing exposure cracking of rubber. 2,926,155, 2-23-60, Cl. 260-45.9.
- Greene, Bert: *See—*  
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- Greene, Charles R., to Shell Oil Co. Production of polyhydroxy aldehydes from vic-epoxy aldehydes. 2,941,006, 6-14-60, Cl. 260-602.
- Greene, Donald L., and A. H. Phillips, to Gilbert Associates, Inc. High frequency ballast unit. 2,923,856, 2-2-60, Cl. 315-138.
- Greene, Edgeworth. Closures for sealing containers. 2,939,597, 6-7-60, Cl. 215-7.
- Greene, Ernest W., and A. P. Allegrini, to Minerals & Chemicals Corp. of America. Activation of clay by acid treatment, sand aging and calcination. 2,941,959, 6-21-60, Cl. 252-450.
- Greene, Gardner: *See—*  
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- Greene, George B.: *See—*  
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- Greene, George B., to Marchant Research, Inc. Electronic computers. 2,928,076, 3-8-60, Cl. 340-174.
- Greene, George B., to Smith-Corona Marchant Inc. Calculating machines. 2,936,957, 5-17-60, Cl. 235-167.
- Greene, George B., C. M. Hill, E. P. Hamilton, W. B. Bennett, and W. P. Steed, to Marchant Research, Inc. Electronic digital computers. 2,936,118, 5-10-60, Cl. 235-167.
- Greene, Hilliard F. Phonographs. 2,962,289, 11-29-60, Cl. 274-10.
- Greene, John P.: *See—*  
Kingsley, David G., and Greene. 2,924,357.
- Greene, Joseph F., and A. L. Hinson, to Owens-Illinois Glass Co. Apparatus and method for treating interior surfaces of glass containers. 2,947,117, 8-2-60, Cl. 49-89.
- Greene, Joseph F., and N. H. McCallum, Jr., to Owens-Illinois Glass Co. Method of treating the surfaces of glass containers. 2,947,615, 8-2-60, Cl. 41-42.
- Greene, Lawrence P., B. C. Rickey, and C. H. Wolf, to North American Aviation, Inc. Multiple position airfoil slat. 2,938,680, 5-31-60, Cl. 244-42.
- Greene, Leonard M., to Safe Flight Instrument Corp. Warning signal for aircraft. 2,964,744, 12-13-60, Cl. 340-407.
- Greene, Leonard M., and D. H. Nelson, to Safe Flight Instrument Corp. Airplane instruments. 2,945,375, 7-19-60, Cl. 73-178.
- Greene, Lloyd C. Soap cake holder. 2,938,297, 5-31-60, Cl. 45-28.
- Greene, Malbone W.: *See—*  
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- Greene, Margaret W., G. Samos, and W. D. Tucker, to United States of America, Atomic Energy Commission. Process for separating iodine-132 from fission products. 2,942,943, 6-28-60, Cl. 23-85.
- Greene, Norman D.: *See—*  
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- Greene, Percy W., to Barbour Welting Co. Method of making a beaded shoe welt. 2,944,269, 7-12-60, Cl. 12-146.
- Greene, Raymond H., and W. A. Koons, to Calumet & Hecla, Inc. Device for producing off-center necked ends on spun tubing. 2,933,123, 4-19-60, Cl. 153-21.
- Greene, Raymond H., and E. A. Witt, to Calumet & Hecla, Inc. Method of and apparatus for producing corrugated tubing. 2,962,078, 11-29-60, Cl. 153-72.
- Greene, Robert W., to United States of America, Army. Flame rocket. 2,941,468, 6-21-60, Cl. 102-49.
- Greene, Romeo F., and E. J. Polley, to Zenith Radio Corp. Clock-controlled timing apparatus. 2,932,702, 4-12-60, Cl. 200-36.
- Greene, Theodore. Pressure containers and improvements in safety constructions therefor. 2,951,614, 9-6-60, Cl. 220-89.
- Greene, William J., to Air Reduction Co., Inc. Magnetic oscillation of welding arc. 2,920,183, 1-5-60, Cl. 219-123.
- Greenfield, Eugene W., to Kaiser Aluminum & Chemical Corp. Method and apparatus for detection of anode effect. 2,933,440, 4-19-60, Cl. 204-67.
- Greenfield, Eugene W., to Kaiser Aluminum & Chemical Corp. Method and apparatus for the production of aluminum. 2,939,824, 6-7-60, Cl. 204-67.
- Greenfield, Milton H., to Sperry Rand Corp. Sweep generator for quadrant-scanning radar. 2,946,048, 7-19-60, Cl. 343-5.
- Greengard, Julius E., Jr.: *See—*  
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- Green Giant Co.: *See—*  
Welch, John L. 2,941,889.
- Greenhalf, William D. G., and I. A. Duck, to General Precision Systems Ltd. Electro-mechanical servo devices. 2,936,642, 5-17-60, Cl. 74-377.
- Greenhalgh, Charles H. Calking tool. 2,924,194, 2-9-60, Cl. 114-224.
- Greenhalgh, John: *See—*  
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- Greenhalgh, Norman: *See—*  
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- Greenhow, Henry, to English Numbering Machines Ltd. Numerical wheel construction. 2,920,816, 1-12-60, Cl. 235-1.
- Greenhow, Henry E., to English Numbering Machines Ltd. Counting apparatus. 2,920,819, 1-12-60, Cl. 235-131.
- Greenhut, Joseph. Reversing motor switch. 2,947,833, 8-2-60, Cl. 200-80.
- Greenidge, Ralph M. C., and J. E. Ranges, to Bell Telephone Laboratories, Inc. Plugging of plastic insulated cable. 2,957,038, 10-18-60, Cl. 174-23.
- Greening, John H., to Micromatic Hone Corp. High frequency honing. 2,939,251, 6-7-60, Cl. 51-34.
- Greening, John P., to Phillips Petroleum Co. Polynomial multiplier. 2,921,738, 1-19-60, Cl. 235-181.
- Greenland, Leonard S., W. D. McCourty, and T. Edwards, to H. M. Hobson Ltd. Fuel flow proportioners. 2,935,078, 5-3-60, Cl. 137-99.
- Greenland, Leonard S., R. Westbury, and C. P. Smith, to H. M. Hobson, Ltd. Feel simulator for aircraft. 2,936,976, 5-17-60, Cl. 244-83.
- Greenleaf, Francis D.: *See—*  
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- Greenleaf, Leland B., and E. L. Kent, to C. G. Conn, Ltd. Top spring valve mechanism. 2,929,292, 3-22-60, Cl. 84-388.
- Greenleaf, Nathaniel B., and T. A. Reeve, to Sponge Products Corp. Wringing and control mechanism for sponge mops. 2,959,799, 11-15-60, Cl. 15-119.
- Greenlee Bros. & Co.: *See—*  
Herrstrum, Rudolph E. 2,940,497.  
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- Greenlee, Harry R., to Chrysler Corp. Pressure tank. 2,937,698, 5-24-60, Cl. 158-50.1.
- Greenlee, Harry R., to Chrysler Corp. Pressure vessel. 2,962,195, 11-29-60, Cl. 222-394.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Epoxide acids. 2,933,471, 4-19-60, Cl. 260-47.



- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Novel diphenolic acid co-amides. 2,933,517, 4-19-60, Cl. 260—404.5.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Esters of 4,4-bis(hydroxyphenyl)-pentanoic acid. 2,933,521, 4-19-60, Cl. 260—473.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Diethers of 4,4-bis(4-hydroxy phenyl)pentanoic acid. 2,933,523, 4-19-60, Cl. 260—520.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Polyamides of 4,4-bis(4-hydroxy-phenyl)pentanoic acid. 2,933,528, 4-19-60, Cl. 260—559.
- Greenlee, Sylvan O., to Devoe & Reynolds Co., Inc. Epoxide resins reacted with polyhydric phenols. 2,945,004, 7-12-60, Cl. 260—47.
- Greenlee, William B., and V. A. Miller, to North American Aviation, Inc. Stellar orientation detector. 2,941,081, 6-14-60, Cl. 250—203.
- Greenlee, William B., and V. A. Miller, to North American Aviation, Inc. Star sensing system. 2,943,204, 6-28-60, Cl. 250—203.
- Greenough, Raymond E., to Cleveland Pneumatic Industries, Inc. Aircraft cooling method. 2,930,553, 3-29-60, Cl. 244—118.
- Greenspan, Alvin T., and W. L. Brown 4th. Jet propulsion device. 2,943,417, 7-5-60, Cl. 46—76.
- Greenspan, Frank P., and R. E. Light, Jr., to Food Machinery and Chemical Corp. Resinous products from epoxidized polybutadienes and polymercaptans. 2,921,921, 1-19-60, Cl. 260—45.5.
- Greenspan, Frank P., and R. E. Light, Jr., to Food Machinery and Chemical Corp. Epoxy resins plasticized with di-(butoxyethyl) adipate. 2,923,695, 2-2-60, Cl. 260—31.4.
- Greenspan, Frank P., and R. E. Light, Jr., to Food Machinery and Chemical Corp. Modified-hydrocarbon resin esters. 2,927,934, 3-8-60, Cl. 260—410.
- Greenspan, Frank P., and R. E. Light, Jr., to Food Machinery and Chemical Corp. Copolymer polymercaptan resin. 2,932,627, 4-12-60, Cl. 260—79.5.
- Greenspan, Frank P.: See—
- Gall, Ralph J., Greenspan, and Daly. 2,935,517.
- Greenspan, Frank P., to Food Machinery and Chemical Corp. Polyvinyl resin composition containing plasticizer and stabilizer. 2,956,975, 10-18-60, Cl. 260—30.4.
- Greenspan, Gerald N.: See—
- Kirsch, Herbert S., Goldberg, and Greenspan. 2,960,737.
- Greenspan, Martin, and R. M. Wilmette. Electrical-sonic transducers. 2,921,134, 1-12-60, Cl. 179—1.
- Greenstein, Albert: See—
- Mazur, Joseph. 2,959,879.
- Greenstein, Leon M.: See—
- Miller, Harold A., and Greenstein. 2,950,981.
- Greenstein, Leon M., W. G. Young, and C. A. Quinn, to Francis Earle Laboratories, Inc. Method of producing iridescence. 2,922,724, 1-26-60, Cl. 117—82.
- Greenwald, Bertrand W.: See—
- Kerschner, Paul M., and Greenwald. 2,951,861.
- Kerschner, Paul M., and Greenwald. 2,966,508.
- Greenwald, H. Co., Inc.: See—
- Greenwald, Harry. 2,924,320.
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- Greenwald, Harold A., to The Garrett Corp. Self-equalizing seal for a rotating shaft. 2,925,290, 2-16-60, Cl. 286—8.
- Greenwald, Harry, to H. Greenwald Co., Inc. Coin controlled mechanism. 2,924,320, 2-9-60, Cl. 194—84.
- Greenwald, Harry, to H. Greenwald Co., Inc. Coin slide actuated timer. 2,947,186, 8-2-60, Cl. 74—107.
- Greenwald, Harry, to H. Greenwald Co., Inc. Coin slide with roller operating arcuate wing cam. 2,964,599, 12-13-60, Cl. 200—38.
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- Winkler, Howard W., and Greenwell. 2,962,062.
- Greenwood, Douglas: See—
- Stevenson, Herbert A., Clark, Marshall, Greenwood, Cranham, and Higgons. 2,938,928.
- Greenwood Engineering Co., Inc.: See—
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- Greenwood, Joseph A. Graphical instrument for variables acceptance sampling. 2,924,379, 2-9-60, Cl. 235—61.
- Greenwood, Marvin H., to Anderson, Greenwood & Co. High speed aerial tow target. 2,930,619, 3-29-60, Cl. 273—105.3.
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- Ingram, William H., Jr., and Greer. 2,943,682.
- Greer, David M. Storage tanks for liquids. 2,924,350, 2-9-60, Cl. 220—13.
- Greer, David M. Storage tanks for liquids. 2,947,437, 8-2-60, Cl. 220—13.
- Greer, Edith S.: See—
- Carper, Harold R. 2,949,705.
- Greer, Edward M., to Greer Hydraulics, Inc. Resilient support for pressure accumulator. 2,954,199, 9-27-60, Cl. 248—201.
- Greer, Edward M., J. Kendall, and L. S. Winston, to Greer Hydraulics, Inc. Gas pressure booster system. 2,943,635, 7-5-60, Cl. 137—154.
- Greer, Edward M., B. S. Appleton, and K. Barth, to G.M.E. Corp. Hatch cover assembly. 2,946,304, 7-26-60, Cl. 114—202.
- Greer, Henry W., to Smith Kline & French Laboratories. Capsule sealing apparatus. 2,940,234, 6-14-60, Cl. 53—285.
- Greer Hydraulics, Inc.: See—
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- Greer Marine Corp.: See—
- Appleton, Bernard S., and Barth. 2,941,834.
- Greff, Richard M., to United States of America, Army. Silencer for compressible fluid devices. 2,958,387, 11-1-60, Cl. 181—42.
- Greger, Paul, to Voigtlander Aktiengesellschaft. Photographic camera. 2,923,216, 2-2-60, Cl. 95—10.
- Greger, Paul, to Voigtlander A.G. Camera with exposure meter. 2,932,242, 4-12-60, Cl. 95—10.
- Greger, Paul, to Voigtlander A.G. Photographic camera. 2,960,921, 11-22-60, Cl. 95—10.
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- Stauber, Georg, and Greger. 2,924,796.
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- Twaddell, Russell W., and Gregoire. 2,942,167.
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- Gregor, Fred. Method and apparatus for controlling the tooling or hardening of chocolate candies. 2,949,747, 8-23-60, Cl. 62—129.
- Gregor, Harry P., to Polytechnic Institute of Brooklyn. Polyelectrolyte water-indicating devices. 2,937,524, 5-24-60, Cl. 73—335.
- Gregor, John R., and H. E. Van Orden, to Abrasive & Metal Products Co. Abrasives. 2,939,777, 6-7-60, Cl. 51—298.
- Gregor, John R., and H. E. Van Orden, to Abrasive & Metal Products Co. Abrasives. 2,940,841, 6-14-60, Cl. 51—298.
- Gregory, Alfred T., to Fairchild Engine and Airplane Corp. Engine accessory drive. 2,951,631, 9-6-60, Cl. 230—122.
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- Miller, Harry C., and Gregory. 2,933,798.
- Gregory, George: See—
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- Byrnes, John J. 2,938,388.
- Gregory, Harry R., and M. Kendal, to Coal Industry (Patents) Ltd. Presses. 2,954,583, 10-4-60, Cl. 18—16.
- Gregory Industries Inc.: See—
- Shoup, Thomas E., Sholle, and Mowry. Re. 24,832.
- Gregory, Jackson, Jr., and D. R. and N. H. Bates. Divided stationary drawer. 2,956,675, 10-18-60, Cl. 206—73.
- Gregory, James B., H. D. Emerson, and C. C. Moore, to Union Oil Co. of California. Liquid fuel supply system. 2,965,086, 12-20-60, Cl. 123—136.
- Gregory, James N.: See—
- Bodine, Albert G., and Gregory. 2,953,351.
- Gregory, James N. Combined rotary and percussion drilling. 2,950,087, 8-23-60, Cl. 255—4.4.
- Gregory, Ralph A., C. T. Baker, Jr., W. Wolensky, P. W. Jackson, W. D. Winger, and R. W. Murphy, to International Business Machines Corp. Data coordinator. 2,960,683, 11-15-60, Cl. 340—172.5.
- Gregory, Reginald: See—
- Bangs, Gordon E., Loomis, and Gregory. 2,926,606.
- Gregory, Richard L. Recording device. 2,944,867, 7-12-60, Cl. 346—59.
- Gregory, Russell W., and W. R. Hartill, to Curtiss-Wright Corp. Dual cycle engine distributor construction. 2,934,895, 5-3-60, Cl. 60—35.6.
- Gregory, Russell W., and E. O. Kalil, to Curtiss-Wright Corp. Jet engine ignition system utilizing pyrophoric fuel. 2,959,007, 11-8-60, Cl. 60—39.82.
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- Greif Bros. Cooperae Corp., The: See—
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- Greif, Martin, to American Cyanamid Co. Coated citric acid particles. 2,956,926, 10-18-60, Cl. 167—82.
- Greif, Mortimer, to E. I. du Pont de Nemours and Co. Primer coating composition containing a polymer predominately of vinyl acetate. 2,956,902, 10-18-60, Cl. 117—75.
- Greif, Paul: See—
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- Greig, Harold G., to Radio Corp. of America. Electrostatic printing. 2,963,365, 12-6-60, Cl. 96—1.
- Greig, James W., to Woodall Industries, Inc. Laminated trim sheet. 2,946,712, 7-26-60, Cl. 154—45.9.
- Greig, John H., to Vericonrol Associates. Temperature compensated thermal power relay. 2,936,354, 5-10-60, Cl. 200—122.
- Greig, John H., to Clairex Corp. Photosensitive element. 2,965,867, 12-20-60, Cl. 338—15.
- Greig, Walter A., to The Detroit Edison Co. Method and apparatus for testing meters. 2,938,165, 5-24-60, Cl. 324—74.



- Greiner, Arno, and O. R. Wollentin, to Westinghouse Electric Corp. Fixture for soldering a prefocusing collar to a base of an incandescent projection lamp. 2,924,190, 2-9-60, Cl. 113-99.
- Greiner, Charles J., and A. S. Hubin, to Kimberly-Clark Corp. Papermaking machine. 2,960,023, 11-15-60, Cl. 100-152.
- Greiner & Hausser G.m.b.H.: *See*—  
Hausser, Rolf, and Weissbrodt. 2,925,684.
- Greiner, John R., to Lennox Industries, Inc. Blower mounting construction. 2,939,627, 6-7-60, Cl. 230-117.
- Greiner, John W.: *See*—  
Cunningham, Fay L., Riebe, and Greiner. 2,963,494.
- Greiner, Leonard: *See*—  
Forney, Harry B., and Greiner. 2,927,850.
- Greiner, Leonard, to Experiment Inc. Pumping system. 2,959,004, 11-8-60, Cl. 60-39.48.
- Greissinger, Georg. Artificial foot provided with ankle-joint. 2,923,948, 2-9-60, Cl. 3-33.
- Greist Mfg. Co., The: *See*—  
Baehr, Carl G. 2,935,959.  
Baehr, Carl G., and Currelo. 2,952,228.  
Baehr, Carl G., and Nickerson. 2,920,589.  
Burgess, Robert W., Currelo, and Nickerson. 2,952,077.  
Caldwell, Samuel P. 2,946,128.  
Caldwell, Samuel P., and Capuano. 2,925,795.  
Connors, John, and Carignan. 2,958,950.  
Nickerson, Basil S. 2,932,267.
- Greist Manufacturing Co., The: *See*—  
Burgess, Robert W., and Gorton. 2,939,412.
- Gremmelmaier, Rolf: *See*—  
Welker, Heinrich, Folberth, Gremmelmaier, and Grimm. 2,933,384.
- Gremmelmaier, Rolf, and O. G. Folberth, to Siemens-Schuckertwerke Aktiengesellschaft. Methods of producing junction-type semiconductor devices. 2,928,761, 3-15-60, Cl. 148-1.5.
- Grenci, Dominic A., to National Distillers and Chemical Corp. Plastic window covering and method of making the same. 2,943,676, 7-5-60, Cl. 160-368.
- Grenco, Inc.: *See*—  
Zenczak, Piotr. 2,947,764.
- Grenier, Maurice, to L'Air Liquide Societe Anonyme pour l'Etudes et l'Exploitation des Procédes Georges Claude. Process for air separation by liquefaction and rectification. 2,959,021, 11-8-60, Cl. 62-29.
- Grenier, Pierre: *See*—  
De Vienne, Robert A. and J. P., and Grenier. 2,958,548.
- Gresdel, Harold B. Table saw set works. 2,929,420, 3-22-60, Cl. 143-174.
- Gresham, Claude D., and E. Hoffmann, to Tip-Top Products Co. Hair curler. 2,937,649, 5-24-60, Cl. 132-41.
- Gresham, Garnett. Road and sidewalk jointer. 2,949,068, 8-16-60, Cl. 94-45.
- Gresham, James T., to Kimberly-Clark Corp. Manufacture of wadding. 2,920,373, 1-12-60, Cl. 28-72.2.
- Gresham, Leroy Q.: *See*—  
Alexander, Granison T., Jr., and Gresham. 2,945,540.
- Gresham, Paul J. Flush tank valve. 2,925,608, 2-23-60, Cl. 4-57.
- Gresham, Roy: *See*—  
Gecsey, John, Gresham, and Sapoff. 2,959,755.
- Gresham, William C., and R. H. Asby, to Mud Control Laboratories, Inc. Automatic well drilling apparatus. Re. 24,818, 4-26-60, Cl. 254-173.
- Gresham, William F., and M. Hunt, to E. I. du Pont de Nemours and Co. Sulfur vulcanizable unsaturated elastomeric interpolymers of monoolefins and diolefins. 2,933,480, 4-19-60, Cl. 260-80.5.
- Greshel, Leonard J., J. M. Robinson, and P. O. Dahlman, to North Electric Co. Multiline telephone substation set. 2,936,341, 5-10-60, Cl. 179-99.
- Gresky, Alan T., to United States of America, Atomic Energy Commission. Ruthenium decontamination method. 2,945,740, 7-19-60, Cl. 23-14.5.
- Gresky, Alan T., E. O. Nurmi, D. L. Foster, R. P. Wischow, and J. E. Savolainen, to United States of America, Atomic Energy Commission. Preparation of dibasic aluminum nitrate. 3,931,706, 4-5-60, Cl. 23-102.
- Gress, Ludwig: *See*—  
Kaufmann, Waldemar, Ragoss, Fitzer, and Gress. 2,957,716.
- Gressel, Edmond. Reducing coupling. 2,937,891, 5-24-60, Cl. 285-177.
- Gretener, Edgar, to E. Gretener, A.G. Method of producing a subtractive color film copy. 2,962,544, 11-29-60, Cl. 178-5.2.
- Gretener, Edgar, A.G.: *See*—  
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- Gretsch, Fred, Mfg. Co., The: *See*—  
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- Gretzinger, John R., to General Motors Corp. Oil filter. 2,933,192, 4-19-60, Cl. 210-316.
- Greunke, Orville V., to Sperry Rand Corp. Combined electronic data storage and control system. 2,926,730, 3-1-60, Cl. 164-111.
- Greuter, Robert, to Oerlikon Engineering Co. Quenched-spark gap, especially for overvoltage suppressors. 2,922,915, 1-26-60, Cl. 313-325.
- Greutman, Martha N.: *See*—  
Greutman, William J. and M. N. 2,937,851.
- Greutman, William J. and M. N. Wire stretcher. 2,937,851, 5-24-60, Cl. 254-71.
- Greutman, Weldon W.: *See*—  
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- Grewe, Ferdinand: *See*—  
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- Grey, David S.: *See*—  
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- Greyson, William L.: *See*—  
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- Grib, Boris F., to Philanon Laboratories, Inc. Tuning fork oscillator. 2,956,242, 10-11-60, Cl. 331-156.
- Gribble, Fred, to R. J. McDonnell. Valve lifting tool. 2,965,958, 12-27-60, Cl. 29-217.
- Gribin, Murray A., and A. C. Oechsle, to Alliance Mfg. Co., Division of Consolidated Electronics Industries Corp. Remote control device. 2,934,963, 5-3-60, Cl. 74-10.
- Gribler, Ludwig A., to General Motors Corp. Fluid power steering reaction limiting valve. 2,929,364, 3-22-60, Cl. 121-46.5.
- Grice, Kenneth D.: *See*—  
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- Gridley, Darrin H. Shaft position converter device. 2,953,777, 9-20-60, Cl. 340-347.
- Griebstein, William J.: *See*—  
St. John, Wayne L., and Griebstein. 2,954,347.
- Grieder, Louis W. Roller bearing. 2,965,420, 12-20-60, Cl. 308-206.
- Grieg, Donald D. Control means for transistor oscillators. 2,959,745, 11-8-60, Cl. 331-113.
- Grieg, Donald D., H. F. Engelmann, and J. A. Kostriza, to International Telephone and Telegraph Corp. Microwave radio receiver. 2,951,149, 8-30-60, Cl. 250-20.
- Grieger, Paul W., and E. J. McCabe, to General Electric Co. Supporting means for furnace charges. 2,940,745, 6-14-60, Cl. 263-47.
- Griem, Gustav A. Rotary engine. 2,943,609, 7-5-60, Cl. 123-11.
- Griem, Milton E.: *See*—  
Hultkrans, Paul B., Griem, and Davis. 2,955,941.
- Griemsman, Henry E.: *See*—  
Banfield, Raymond F., and Griemsman. 2,922,597.
- Grieshaber, Herman R. Speculum. 2,954,025, 9-27-60, Cl. 128-17.
- Griesheimer, Richard E.: *See*—  
Hazelton, Merrill W., Griesheimer, and Allnutt. 2,944,468.
- Griesinger, William K.: *See*—  
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- Griess, John C., Jr.: *See*—  
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- Griessl, Rudolf. Toy helicopter. 2,931,132, 4-5-60, Cl. 46-75.
- Grieve, Margaret, and B. Wisner, to Shields Inc. Jewelry display container. 2,925,907, 2-23-60, Cl. 206-45.14.
- Griffi, Romeo. Ladies' shoes having shank support. 2,958,962, 11-8-60, Cl. 36-2.5.
- Griffin, Anthony L., and E. G. Chetwynd. Parking meter. 2,945,341, 7-19-60, Cl. 58-142.
- Griffin, Bryant W.: *See*—  
Townes, Edward J. 2,964,207.
- Griffin, Cornell Co.: *See*—  
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- Griffin, Denis L. Method of purification of sewage and industrial effluents by upflow clarification. 2,938,867, 5-31-60, Cl. 210-20.
- Griffin, Donald N., and J. W. Orr, to Olin Mathieson Chemical Corp. Compression ignition gun. 2,947,221, 8-2-60, Cl. 89-7.
- Griffin & George Ltd.: *See*—  
Morris, Richard H. 2,935,797.
- Griffin, Gerald J., Jr., R. P. Watson, C. Miglore, and D. J. Hodges, to General Electric Co. Voltage tunable magnetron. 2,930,933, 3-29-60, Cl. 315-39.63.
- Griffin, Ira L. and W. A. Apparatus for drying warp and the like. 2,926,429, 3-1-60, Cl. 34-159.
- Griffin, James E., to ACF Industries, Inc. Single push button motor starter. 2,962,634, 11-29-60, Cl. 317-139.
- Griffin, Joan M.: *See*—  
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- Griffin Mfg. Co.: *See*—  
De Vore, Raymond E. 2,937,399.
- Griffin, Richard D. Ankle support. 2,965,983, 12-27-60, Cl. 36-8.5.
- Griffin, Roger C., Jr., to Reynolds Metals Co. Textile staple fibers and production thereof. 2,926,415, 3-1-60, Cl. 28-1.
- Griffin, Waldo R. Nasal irrigator. 2,945,495, 7-19-60, Cl. 128-250.
- Griffin, William A.: *See*—  
Griffin, Ira L. and W. A. 2,926,420.
- Griffin, William D., and G. G. Joris, to Allied Chemical Corp. Production of alpha-methylstyrene oxides. 2,942,007, 6-21-60, Cl. 260-348.5.
- Griffith, Alan A., to Rolls-Royce Ltd. Aircraft structure. 2,941,760, 6-21-60, Cl. 244-119.
- Griffith, Alan A., to Rolls-Royce Ltd. Cabin air supply means for aircraft. 2,958,211, 11-1-60, Cl. 62-402.
- Griffith, Alan A., and W. Shaw, to Rolls-Royce Ltd. Jet sustained and propelled aircraft. 2,938,969, 5-17-60, Cl. 244-12.



- Griffith, Ben H., Jr., to United States of America, Air Force. Printed circuit assembly. 2,939,051, 5-31-60, Cl. 317-101.
- Griffith, George W. S.: *See*—  
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- Griffith, Joseph W. Device for mounting electronic components. 2,927,298, 3-1-60, Cl. 339-198.
- Griffith Laboratories, Inc., The: *See*—  
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Sair, Louis. 2,938,800.  
Sair, Louis. 2,947,636.  
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Schnell, Carl. Re. 24,764.  
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Ziegler, John A. 2,944,909.
- Griffith, Paul H.: *See*—  
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- Griffith, Richard: *See*—  
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- Griffith, Rolland C., to Heald Machine Co. Wheelhead. 2,954,207, 9-27-60, Cl. 253-50.
- Griffiths, David K., to United States Steel Corp. Method of heating objects. 2,966,349, 12-27-60, Cl. 263-52.
- Griffiths, Edward G.: *See*—  
Javna, Stephen L., Griffiths, and Small. 2,943,855.
- Griffiths, Edward M., to National Glass Co. Door weatherstripping construction. 2,930,086, 3-29-60, Cl. 20-16.
- Griffiths, Gordon H.: *See*—  
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- Griffiths, Leland R., to International Harvester Co. Hay crushing rolls with spiral grooves. 2,957,292, 10-25-60, Cl. 56-1.
- Griffiths, William C., Jr., and I. E. Smith, to Radio Corp. of America. High power, high frequency electron tube. 2,951,172, 8-30-60, Cl. 313-247.
- Griff, Wouter, and J. L. Roulet, to North American Philips Co., Inc. Magnetic recording device. 2,920,146, 1-5-60, Cl. 179-100.2.
- Grigger, John C., to Pennsalt Chemicals Corp. Method of electroplating lead dioxide. 2,945,790, 7-19-60, Cl. 204-57.
- Griggs, David T.: *See*—  
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- Griggs, William H.: *See*—  
Bryce, Robert S., and Griggs. 2,925,340.
- Grigsby, Gail G. Differential screw actuated pinch valve. 2,958,502, 11-1-60, Cl. 251-8.
- Grills, Lee J.: *See*—  
Dykstra, Laurence J., and Grills. 2,921,112.
- Grim, Oscar F., and A. Lankin, to Love Box Co., Inc. Shipping container. 2,957,575, 10-25-60, Cl. 206-62.
- Grim, Ralph E., to Minerals & Chemicals Corp. of America. Vitreous refractory composition and method for making same. 2,945,768, 7-19-60, Cl. 106-52.
- Grimal, Adolf. Camera tripod. 2,940,708, 6-14-60, Cl. 248-168.
- Grimaly, Rafael. Skate for moving railroad equipment. 2,919,659, 1-5-60, Cl. 105-215.
- Grimes, Charles E., to Toro Mfg. Corp. Gang mower assembly for utility tractors. 2,936,561, 5-17-60, Cl. 56-7.
- Grimes, David D., to United States of America, Navy. Armoring mechanism. 2,928,346, 3-15-60, Cl. 102-702.
- Grimes, Emory H., Jr., to General Electric Co. Window closure for room air conditioner. 2,946,274, 7-26-60, Cl. 98-94.
- Grimes, George R., to American Metal Climax, Inc. Cleaning apparatus for exhaust pipe assemblies in sublimed oxide furnaces. 2,958,587, 11-1-60, Cl. 23-264.
- Grimes Mfg. Co.: *See*—  
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- Grimes, Thomas H., and R. J. Meythaler. Toy camera construction. 2,939,244, 6-7-60, Cl. 46-175.
- Grimes, Warren R.: *See*—  
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- Grimes, William W., to The Standard Oil Co. Solvent extraction process for high octane gasoline. 2,949,422, 8-16-60, Cl. 208-321.
- Grimland, Charles J.: *See*—  
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- Grimland Co. Manufacturers Inc.: *See*—  
Grimland, Joseph F. and C. J. 2,960,083.
- Grimland, Joseph F. and C. J., to Grimland Co. Manufacturers Inc. Controlled volume blast valve. 2,960,083, 11-15-60, Cl. 124-11.
- Grimm, John F., to Tung-Sol Electric Inc. Adjustable constant current device. 2,934,664, 4-26-60, Cl. 313-54.
- Grimm, Oskar, to Landis & Gyr, A.G. Recording and printing mechanism. 2,928,707, 3-15-60, Cl. 346-24.
- Grimm, Phillip R., to The Dole Valve Co. Variable concentrate proportioner. 2,920,579, 1-12-60, Cl. 103-262.
- Grimm, Rudolf: *See*—  
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- Grimm, Wilhelm: *See*—  
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- Grimme, Walter, and H. Schmitz, to Rheinpreussen Aktien-gesellschaft für Bergbau und Chemie. Purification of crude  $\beta$ - $\beta$ -bis-(4-hydroxyphenyl) propane. 2,959,622, 11-8-60, Cl. 260-619.
- Grimmer, George G.: *See*—  
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- Grimmond, Robert: *See*—  
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Ridler, Desmond S., and Grimmond. 2,952,840.  
Ridler, Desmond S., and Grimmond. 2,958,853.
- Grimone, Frank H., and J. M. Calehuff, to Sylvania Electric Products Inc. Frame grid. 2,936,392, 5-10-60, Cl. 313-348.
- Grimsen, Gerhard, and J. Augustin, to International Standard Electric Corp. Tabulator mechanism for teleprinters. 2,956,120, 10-11-60, Cl. 178-25.
- Grinage, Claude M., to The Bullard Co. Machine tool program spacing mechanism. 2,961,898, 11-29-60, Cl. 77-4.
- Grindell, Duncan H., to The British Thomson-Houston Co. Ltd. Apparatus for smoke detection. 2,932,966, 4-19-60, Cl. 73-28.
- Grindrod, George E. Apparatus for precision control of the surface temperature of metallic heaters. 2,955,184, 10-4-60, Cl. 219-19.
- Griner, William E.: *See*—  
Onksen, George W., Miller, Griner, Martin, and Skinner. 2,937,250.
- Gring, John L.: *See*—  
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- Gringorten, Irving I., to United States of America, Air Force. Plotter for navigational flight planning. 2,952,074, 9-13-60, Cl. 33-1.
- Grinnell Corp.: *See*—  
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Thielsch, Helmut J. 2,933,584.  
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- Grinsell, George J. Portable chiropractic table. 2,965,425, 12-20-60, Cl. 311-7.
- Grip Nut Co.: *See*—  
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- Grip, William H.: *See*—  
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- Griparris, Andrew G. Flour sifter. 2,922,523, 1-26-60, Cl. 209-327.
- Grisar, Ulrich: *See*—  
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- Griscom-Russell Co., The: *See*—  
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Boni, Frank, Jr. 2,956,704.  
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Gardner, Karl A. 2,920,874.  
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Heimberger, Oscar W., and Wallace. 2,962,805.
- Grise, Frederick G. J., to The U. N. Co., Inc. Resilient latch-operating mechanism for dump truck tail gates. 2,954,995, 10-4-60, Cl. 298-23.
- Griset, Ernest J., Jr.: *See*—  
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- Griset, Ernest J., Jr., and J. A. McIntosh, to E. I. du Pont de Nemours and Co. Bulking yarn. 2,924,000, 2-9-60, Cl. 28-1.
- Griset, Charles V., and W. J. Langton, to Crown Zellerbach Corp. Snap lock closure for a rectangular container. 2,948,456, 8-9-60, Cl. 229-39.
- Grish, Anthony J. Fly swatter. 2,934,851, 5-3-60, Cl. 43-137.
- Griss, Charles H.: *See*—  
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- Grissinger, John H., to Mohawk Sporting Equipment Co. Hunting head for an arrow or the like. 2,937,873, 5-24-60, Cl. 273-106.5.
- Griswold, Charles J., Jr.: *See*—  
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- Griswold, Charles J., Jr., and J. D. Leslie, to General Motors Corp. Mechanical door latch for a pillarless automobile. 2,937,043, 5-17-60, Cl. 292-5.
- Griswold Co.: *See*—  
Griswold, Roger W., II. 2,927,748.
- Griswold, Damon E. Testing and test recording device. 2,943,400, 7-5-60, Cl. 35-9.
- Griswold, David E., to D. G. Griswold. Pilot valve actuator construction. 2,919,590, 1-5-60, Cl. 74-104.
- Griswold, David E., to D. G. Griswold. Combination adjustable needle and check valve. 2,925,243, 2-16-60, Cl. 251-117.
- Griswold, David E., to D. G. Griswold. Solenoid control for pilot valves and the like. 2,931,233, 4-5-60, Cl. 74-104.
- Griswold, David E., to D. G. Griswold. Fluid actuated valve. 2,937,660, 5-24-60, Cl. 137-549.
- Griswold, David E. Hydraulic motor and/or pump. 2,945,451, 7-19-60, Cl. 103-174.
- Griswold, David E., to Donald G. Griswold. Variable interval time-controlled valve. 2,952,273, 9-13-60, Cl. 137-624.16.
- Griswold, David E., to Donald G. Griswold. Batch feeding apparatus and systems. 2,952,363, 9-13-60, Cl. 210-193.
- Griswold, David E., to D. G. Griswold. Snap action control means. 2,961,880, 11-29-60, Cl. 74-100.



- Griswold, Donald G.: *See*—  
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 Griswold, Elizabeth M.: *See*—  
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 Griswold, Wallace R., and H. M. Passman, to Collins Radio Co. Coupling-actuated duct valve. 2,929,404, 3-22-60, Cl. 137-560.  
 Griswold, Walter R., to A. O. Smith Corp. Apparatus for unloading articles from a moving conveyor. 2,944,655, 7-12-60, Cl. 198-35.  
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 Graf, Martin. 2,936,793.  
 Wagner, Otto. 2,949,936.  
 Grob, Ernst: *See*—  
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 Grob, Theodore and E. Metal rolling machine. 2,934,980, 5-3-60, Cl. 80-23.  
 Grob, Willy. Warp-beam brake. 2,958,341, 11-1-60, Cl. 139-100.  
 Grober, Christian: *See*—  
 Noldge, Hellmut, Grober, and Todten. 2,931,222.  
 Groce, John C., J. K. Bates, Jr., and D. G. Hunt, to International Telephone and Telegraph Corp. Signal translation system. 2,930,987, 3-29-60, Cl. 330-136.  
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 Grodt, Rudolph, to Thompson Ramo Wooldridge Inc. Tubular elements with integral end fittings and method of making. 2,953,674, 9-20-60, Cl. 219-152.  
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 Groen, Fred H., Jr., to Groen Mfg. Co. Jacketed kettle mounting assembly. 2,950,904, 8-30-60, Cl. 257-1.  
 Groen Mfg. Co.: *See*—  
 Groen, Fred H., Jr. 2,950,904.  
 Groen, Rein J., and W. A. Rice. Process of quick-freezing raw onions. 2,950,203, 8-23-60, Cl. 99-193.  
 Groeneweg, Ronald L.: *See*—  
 Groeneweg, Walter H., W. G., and R. L. 2,929,382.  
 Groeneweg, Wallace G.: *See*—  
 Groeneweg, Walter H., W. C., and R. L. 2,929,382.  
 Groeneweg, Walter H., W. G. and R. L. Rock releasing device for corn sheller cylinder cages. 2,929,382, 3-22-60, Cl. 130-6.  
 Groenewegen, Hermanus Y., deceased, by E. J. Schepers, legal representative, to Algemene Kunstzijde Unie N.V. Safety grips for use in vehicles. 2,923,558, 2-2-60, Cl. 280-150.  
 Groetschel, Karl M. Connection for lagging irons. 2,959,924, 11-15-60, Cl. 61-45.  
 Groezinger, Hans R., to Daimler-Benz Aktiengesellschaft. Starter arrangement for internal combustion engines. 2,940,437, 6-14-60, Cl. 123-179.  
 Groetzinger, Robert S.: *See*—  
 Jordan, Robert O., and Cunningham. 2,927,963.  
 Groff, Emory L., Jr.: *See*—  
 Hawkes, Thomas H. 2,940,667.  
 Groff, Jerome J.: *See*—  
 Weideman, Bernard A., and Groff. 2,944,573.  
 Grogan, Cecile M., and L. T. Sawyer; said Grogan assor. to said Sawyer. Sanitary drip catching device. 2,948,452, 8-9-60, Cl. 229-15.  
 Grogan, Charles H., and L. M. Rice, to The Geschickter Fund for Medical Research, Inc. N-substituted-3-azabicyclo-octanes [3:3:0] and salts thereof. 2,962,496, 11-29-60, Cl. 260-247.5.  
 Grogan, Edward C., to Minneapolis-Honeywell Regulator Co. Means compensating for the time delay of a transmission line. 2,923,307, 2-2-60, Cl. 137-86.  
 Grogan, Edward C., to Minneapolis-Honeywell Regulator Co. Controller having proportional band adjustment. 2,949,922, 8-23-60, Cl. 137-86.  
 Grogan, Robert D.: *See*—  
 Dies, Herbert F., and Grogan. 2,931,209.  
 Grogan, Robert D., to Hurd Lock & Mfg. Co. Lock construction. 2,945,371, 7-19-60, Cl. 70-78.  
 Groh, Alan B.: *See*—  
 Hertzwig, Waldemar R., Groh, Herring, and Pansing. 2,938,859.  
 Grohe, Edward J., to Burroughs Corp. Magnetron tube. 2,962,618, 11-29-60, Cl. 313-157.  
 Grohe, Hans. Clamp support for shower devices. 2,931,613, 4-5-60, Cl. 248-230.  
 Grohoski, Edward G.: *See*—  
 Morton, Robert D., and Grohoski. 2,962,001.  
 Grohsal, Alexis C., to Cable Electric Products, Inc. Electrical wiring devices. 2,952,829, 9-13-60, Cl. 339-22.  
 Groll, Alvin F. Device for feeding strip metal to power presses having positive works clamp releasing means. 2,944,458, 7-12-60, Cl. 83-437.  
 Groll, Alvin F. Tilttable roll transfer ramp. 2,947,402, 8-2-60, Cl. 193-40.  
 Groll, Alvin F. Device for peeling strip metal from coils thereof. 2,965,328, 12-20-60, Cl. 242-78.8.  
 Groll, Herbert P. A. Process and apparatus for cooling exothermic reactions. 2,925,319, 2-16-60, Cl. 23-1.  
 Groll, Herbert P. A. Fractionation of oils by selective extraction. 2,941,941, 6-21-60, Cl. 208-319.  
 Grönberg, Anton B. Straw cutter for combines. 2,954,812, 10-4-60, Cl. 146-123.  
 Grönberg, Anton B. Straw cutter for combines. 2,956,602, 10-18-60, Cl. 146-123.  
 Grondona, John L., and H. S. Hughes, to Grondona Store Systems, Inc. Store merchandise carry-out apparatus. 2,925,886, 2-23-60, Cl. 186-1.  
 Grondona Store Systems, Inc.: *See*—  
 Grondona, John L., and Hughes. 2,925,886.  
 Gronemeyer, Herbert W., to Armco Steel Corp. Method of hot forming metallic articles. 2,965,960, 12-27-60, Cl. 29-417.  
 Groner, Edward L., and L. J. Herndon, Jr., to Welx, Inc. Well bore caliper. 2,946,130, 7-26-60, Cl. 33-178.  
 Gronner, Alfred D., to The Liquidometer Corp. Electrically-conductive liquid level measuring system. 2,919,579, 1-5-60, Cl. 73-304.  
 Gronqvist, Borje B.: *See*—  
 Otto, Carl L., and Gronqvist. 2,944,304.  
 Groody, Albert E. Book construction. 2,941,819, 6-21-60, Cl. 283-42.  
 Groot, Jacob, and W. J. Pieters, to Shell Oil Co. Associates of inorganic metal compounds with copolymers containing a plurality of hydroxy groups. 2,952,636, 9-13-60, Cl. 252-25.  
 Groov-Pin Corp.: *See*—  
 Braendel, Felix W. 2,922,455.  
 Retherath, Valentin. 2,929,282.  
 Gros, Charles, to Etablissements Neyrpic. Turbines for drilling and coring. 2,944,792, 7-12-60, Cl. 255-4.  
 Grosclaude, René, to Laboratoires Vifor S.A. Apparatus for the infusion of liquids in a body, comprising a reservoir for the liquid to be infused. 2,929,378, 3-22-60, Cl. 128-214.  
 Grose, Allen J.: *See*—  
 Toms, Robert U., and Grose. 2,964,819.  
 Grosholz, James R., to Air-Shields, Inc. Humidifying equipment for medical use. 2,928,664, 3-15-60, Cl. 261-78.  
 Grosjean, Henri. Apparatus for introducing parallelepipedic articles into bags of plastic material. 2,964,892, 12-20-60, Cl. 53-188.  
 Gross, Albert: *See*—  
 Schuler, Wilhelm A., and Gross. 2,953,562.  
 Gross, Elmer J., to O & S Products, Inc. Carton-loading and unloading device. 2,921,702, 1-19-60, Cl. 214-310.  
 Gross, Emil, to Allis-Chalmers Mfg. Co. Fabrication of large structural members and method thereof. 2,955,353, 10-11-60, Cl. 29-469.  
 Gross, Frank C., to Package Machinery Co. Feeding device for adhesive in solid rod or rope form for coating applicators. 2,928,370, 3-15-60, Cl. 118-600.  
 Gross, Frank C., to Package Machinery Co. Carton locking apparatus. 2,940,235, 6-14-60, Cl. 53-376.  
 Gross, Friedrich: *See*—  
 Noeske, Heinz, Gross, and Borns. 2,962,387.  
 Gross, Gisella: *See*—  
 Bernhauer, Konrad, Friedrich, Gross, and Spaude. 2,943,983.  
 Gross, Helmut: *See*—  
 Benink, Christian J. M., Gross, and Winz. 2,928,362.  
 Gross, Henry and S. Cash registers. 2,934,266, 4-26-60, Cl. 235-144.  
 Gross, John H., to International Minerals & Chemical Corp. Purification of sand. 2,952,516, 9-13-60, Cl. 23-182.  
 Gross, Kenneth J., and S. Koster. Game. 2,930,621, 3-29-60, Cl. 273-134.  
 Gross, Reinhold J., and C. N. Moser, to United States of America, Air Force. Apparatus for retrieving objects descending by parachute. 2,942,815, 6-28-60, Cl. 244-137.  
 Gross, Robert A., to Fairchild Engine and Airplane Corp. Flame stabilization by corona discharge. 2,963,864, 12-13-60, Cl. 60-39.82.  
 Gross, Robert D.: *See*—  
 Tear, James D., D'Onofrio, McKenney, Gross, and McKeown. 2,952,846.  
 Gross, Samuel: *See*—  
 Gross, Henry and S. 2,934,266.  
 Gross, Theodore J., to Union Bag-Camp Paper Corp. Box gauge. 2,952,076, 9-13-60, Cl. 33-165.  
 Gross, William L., to Bond Street Jewel Case Corp. Jewel box. 2,966,386, 12-27-60, Cl. 312-276.  
 Grosschopf, Herbert: *See*—  
 Klein, Heinrich, Steingrübner, and Grosschopf. 2,931,162.  
 Grosse, Aristid V., and A. G. Streng, to Research Institute of Temple University. Storage of explosive gases. 2,928,529, 3-15-60, Cl. 206-6.  
 Grossen, Harry W.: *See*—  
 Kraft, George H., Grossen, and Bell. 2,949,372.  
 Grosser, Christian E., and G. H. Branch, to Philip Morris, Inc. Dispensing reel brake. 2,963,236, 12-6-60, Cl. 242-75.45.



- Grosser, Frederick, to General Aniline & Film Corp. Production of uniform gels of water-insoluble polymeric N-vinyl-lactams. 2,927,913, 3-8-60, Cl. 260-88.3.
- Grosser, Frederick, to General Aniline & Film Corp. Insoluble polymers of vinyl pyrrolidone and process for producing same. 2,938,017, 5-24-60, Cl. 260-88.3.
- Grossfeld, Aaron M. Wiping implement. 2,929,090, 3-22-60, Cl. 15-24.5.
- Grossman, Herbert P.: See—  
McDonough, James O., Susskind, Grossman, and Lee. 2,963,137.
- Grosskinsky, Otto: See—  
Benning, Anton, Emte, Grosskinsky, and Fruhbuss. 2,966,514.
- Grosskopf, Karl, to O. H. Drager. Alcohol testing reagent. 2,939,768, 6-7-60, Cl. 23-232.
- Grossing, Bernardo F., to California Research Corp. Bubble oscillation eliminator. 2,956,261, 10-11-60, Cl. 340-15.
- Grossman, Bert W., to G. F. Wales. Perforating implement with stripper sleeve retaining means. 2,953,051, 9-20-60, Cl. 83-140.
- Grossman, Harold H.: See—  
Kummer, Joseph T., Kressley, Grossman, and North. 2,932,739.
- Grossman, Jack J.: See—  
Benson, Sidney W., Grossman, and Elkin. 2,938,116.
- Grossman, John S. Sliding door lock. 2,941,832, 6-21-60, Cl. 292-207.
- Grossman, Paul, to Ciba Ltd. Anthraquinone dyes and polyethylene terephthalate fibers dyed therewith. 2,922,691, 1-26-60, Cl. 8-39.
- Grossman, Paul R., J. L. Harvey, and H. N. Bluehosh, to The Babcock & Wilcox Co. Observation or lance door. 2,920,585, 1-12-60, Cl. 110-179.
- Grossman, Rose: See—  
Friedman, Philip and G. J. 2,929,651.  
Friedman, Philip and G. J. 2,931,206.
- Grossmeyer, Roy. Composite scouring and wiping device. 2,940,100, 6-14-60, Cl. 15-118.
- Grosso, Anthony J., to American District Telegraph Co. Tuned intruder alarm system. 2,928,081, 3-8-60, Cl. 340-276.
- Grosso, John S., and H. A. R. Wegener, to Tung-Sol Electric Inc. Optical crystal alignment. 2,957,385, 10-25-60, Cl. 88-14.
- Grosvalet, Jean, to Compagnie Generale de Telegraphie Sans Fil. Junction transistor devices having zones of different resistivities. 2,962,605, 11-29-60, Cl. 307-88.5.
- Grosvenor, William M., Jr., to The American Sugar Refining Co. Purification of sugar solutions. 2,954,305, 9-27-60, Cl. 127-55.
- Grosz, Stephen J.: See—  
Hoffmann, Arthur K., Grosz, and Thomas. 2,934,556.  
Hoffmann, Arthur K., Grosz, and Thomas. 2,950,322.  
Stafiej, Stanley F., and Grosz. 2,945,882.  
Stafiej, Stanley F., and Grosz. 2,951,867.
- Grosz, Stephen J., to American Cyanamid Co. Compounds containing boron and silicon. 2,957,900, 10-25-60, Cl. 260-448.2.
- Grosz, Stephen J., and A. K. Hoffmann, to American Cyanamid Co. Method of making a vinylphenyl boroxole. 2,926,195, 2-23-60, Cl. 260-606.5.
- Grosz, Stephen J., and N. E. Day, to American Cyanamid Co. Tri-n-propanolamine borate. 2,942,021, 6-21-60, Cl. 260-462.
- Grosz, Stephen J., and S. F. Stafiej, to American Cyanamid Co. Composition comprising vinyl carbazole, inorganic peroxide, substituted borazole cellulose nitrate and amino-plast resin. 2,952,645, 9-13-60, Cl. 260-15.
- Grosz, Stephen J., and S. F. Stafiej, to American Cyanamid Co. Polymers of an unsaturated borazole. 2,954,361, 9-27-60, Cl. 260-45.4.
- Grosz, Stephen J., and S. F. Stafiej, to American Cyanamid Co. Compounds containing boron and nitrogen. 2,954,401, 9-27-60, Cl. 260-551.
- Grosz, Stephen J., and N. E. Day, to American Cyanamid Co. Composition comprising an acrylonitrile polymer and tri-n-propanolamine borate. 2,957,840, 10-25-60, Cl. 260-30.4.
- Groth, Kjell J. I.: See—  
Holgersson, Sigbjörn P. H. E., and Groth. 2,932,602.
- Groth, Willard B.: See—  
Breed, Roland N., Groth, Irwin, Kille, and Riggs. 2,946,984.
- Grotke, Luther M., to M & D Store Fixtures, Inc. Panel joint assembly. 2,965,242, 12-20-60, Cl. 211-148.
- Grotlich, Victor W., to The Dow Chemical Co. Method for cleaning non-drainable tubes. 2,935,429, 5-3-60, Cl. 134-22.
- Grott, Frank S. Air distributing conduit system for portable air conditioners. 2,960,924, 11-22-60, Cl. 98-94.
- Grotta, Henry M.: See—  
Glavis, Frank J., Downing, and Grotta. 2,956,046.
- Grotta, Henry M., to American-Marietta Co. Synthesis of carbazole. 2,921,942, 1-19-60, Cl. 260-315.
- Gröttrup, Helmut, and R. Weber, to International Standard Electric Corp. Mechanical device for the reading and storing of the working positions of a moving machine element. 2,927,169, 3-1-60, Cl. 200-46.
- Groudan, Alan: See—  
Dessauer, Ralph, and Groudan. 2,923,827.
- Groudan, Alan, to Sperry Rand Corp., The Ford Instrument Co. Division. Direct coupled polarity inverter D.C. level adjuster. 2,947,948, 8-2-60, Cl. 330-193.
- Groutage, Thomas E., to The Hoover Co. Access openings for electrical motors. 2,939,022, 5-31-60, Cl. 310-71.
- Grove, Cornelius S., Jr., and V. T. Stannett, to W. R. Grace & Co. Dichlorourea-diamine resins. 2,963,466, 12-6-60, Cl. 260-77.5.
- Grove, George L., to The Cincinnati Milling Machine Co. Automatic truing mechanism. 2,937,639, 5-24-60, Cl. 125-11.
- Grove, James E., and W. W. De Lano, to The Hamilton Tool Co. Drilling machine. 2,961,899, 11-29-60, Cl. 77-29.
- Grove, Marvin H., and A. U. Bryant, to Grove Valve and Regulator Co. Valve construction. 2,965,354, 12-20-60, Cl. 251-173.
- Grove, Robert K.: See—  
Nichols, De Owen, Jr., and Grove. 2,939,282.
- Grove Valve and Regulator Co.: See—  
Grove, Marvin H., and Bryant. 2,965,354.
- Grover, Ben L.: See—  
Kirkham, Don, and Grover. 2,949,766.
- Grover, Charles F., and R. L. Werner, to R. D. Werner Co., Inc. Stairway type scaffold. 2,941,616, 6-21-60, Cl. 182-115.
- Grover, Lafayette C., and J. H. Schmorde, to Multiposter, Inc. Multiposter. 2,948,974, 8-16-60, Cl. 40-36.
- Grover, Martin M.: See—  
Been, Jerome L., and Grover. 2,920,990.
- Grover, Philip D., and M. G. Kraft, to Controls Co. of America. Device for rendering electric switches environment-resistant. 2,950,373, 8-23-60, Cl. 200-168.
- Grover, Robert R. Electric clutch and brake. 2,947,393, 8-2-60, Cl. 192-18.
- Grover, Robert R. Electric clutch and brake. 2,947,394, 8-2-60, Cl. 192-18.
- Groves, James D.: See—  
Evans, Arthur W., Hughes, and Groves. 2,964,386.
- Groves, James D., to British Titan Products Co. Ltd. Discharge of solid by-products separated from chlorination gases. 2,940,827, 6-14-60, Cl. 23-87.
- Groves, James H., to American Can Co. Pressure relief valve. 2,923,403, 2-2-60, Cl. 206-46.
- Groves, James H., to American Can Co. Container side seam. 2,934,236, 4-26-60, Cl. 220-81.
- Groves, James H., to American Can Co. Adhesive composition. 2,962,468, 11-29-60, Cl. 260-42.
- Groves, John H.: See—  
Buss, Edward J., Fansher, Groves, and O'Donald. 2,956,189.
- Groves, Kenneth D., to American Viscose Corp. Method of making soil conditioning materials. 2,951,753, 9-6-60, Cl. 71-1.
- Groves, Leonard H., J. A. Hall, and J. W. Roberts, to Imperial Chemical Industries Ltd. Process for the production of water-repellent finishes on textiles and composition therefor. 2,944,921, 7-12-60, Cl. 117-161.
- Groves, Ronald C., to General Motors Corp. Fuel injection system. 2,924,206, 2-9-60, Cl. 123-119.
- Groves, Walter R., to British Industrial Plastics Ltd. Moulding presses. 2,954,584, 10-4-60, Cl. 18-16.
- Grozinger, Alfred: See—  
Bechstein, Herbert, Sokol, Grozinger, and Heydenbluth. 2,956,190.
- Grozinger, Hans R., and H. Gauss, to Daimler-Benz Aktiengesellschaft. Apparatus for controlling a fuel injection pump particularly for motor vehicles. 2,924,208, 2-9-60, Cl. 123-140.
- Grow, Joseph A., Jr., to Atlas Powder Co. Explosives packaging. 2,940,352, 6-14-60, Cl. 86-1.
- Growall, William H. Fluid pump. 2,942,556, 6-28-60, Cl. 103-103.
- Grüb, Richard. Apparatus to smooth floorings. 2,963,059, 12-6-60, Cl. 144-115.
- Grubb, Kenneth W., to Turn-A-Bore Equipment Co. Door and jamb mortising machine. 2,945,520, 7-19-60, Cl. 144-27.
- Grubb, Sir Howard, Parsons & Co. Ltd.: See—  
Martin, Albert E. 2,938,118.
- Grubb, Willard T., Jr., to General Electric Co. Solid state electric cell. 2,933,547, 4-19-60, Cl. 136-100.
- Grubbs, William J., Jr.: See—  
Doucette, Edward L., and Grubbs. 2,954,551.
- Grubbs, William J., Jr., to Bell Telephone Laboratories, Inc. Nonreciprocal transmission assembly. 2,927,283, 3-1-60, Cl. 333-7.
- Grube, Wallace M., and B. N. Torell, to United Aircraft Corp. Exhaust nozzle control device. 2,924,933, 2-16-60, Cl. 60-35.6.
- Grube, Wolfgang O., to Mergenthaler Linotype Co. Phototypographical machine. 2,923,213, 2-2-60, Cl. 95-4.5.
- Grubelic, Nicholas, to Pervi Auto Stamp Corp. Device for moistening envelope and cutting and applying the cut stamp to the envelope. 2,952,375, 9-13-60, Cl. 216-29.
- Gruber, Bernard A., to Monsanto Chemical Co. Method for the preparation of pure elemental phosphorus. 2,965,552, 12-20-60, Cl. 204-60.
- Gruber, Carl F.: See—  
Rott, Horst-Gunther, Gruber, Beha, and Ankert. 2,936,930.
- Gruber, Helmut, and H. Scheidig, to W. C. Heraeus G.m.b.H. Feed control for vacuum arc smelting furnace. 2,956,098, 10-11-60, Cl. 13-13.



- Gruber, Jerry R., to Viking Mfg. Co. Soil working and fertilizer and seed distributing apparatus. 2,965,053, 12-20-60, Cl. 111-10.
- Gruber, Joseph J., and J. J. De Falco, to Fenestra, Inc. Sound absorbing structure. 2,924,857, 2-16-60, Cl. 20-4.
- Gruber, Théophile, to Thermindex S.A. Electric switch having contacts. 2,928,914, 3-15-60, Cl. 200-87.
- Gruen, Arnold E.: *See*—
- Schumacher, Berthold W., and Gruen. 2,952,776.
- Gruenberg, Elliot L., to The W. L. Maxson Corp. Traveling wave tube device. 2,954,553, 9-27-60, Cl. 343-100.
- Gruenberg, Ivor J. Device for retrieving objects. 2,935,750, 5-10-60, Cl. 9-9.
- Gruendler Crusher and Pulverizer Co.: *See*—
- Freeman, Leo. 2,954,937.
- Gruending, Charles M., to Riverside Tool & Die Co. Improvement in brick handling machines. 2,927,360, 3-8-60, Cl. 25-1.
- Gruending, Charles M., to Riverside Tool & Die Co. Brick handling machine. 2,927,361, 3-8-60, Cl. 25-1.
- Gruenhagen, Richard H., to The Dow Chemical Co. Method and composition for the control of fungus organisms. 2,922,742, 1-26-60, Cl. 167-30.
- Gruget, André, to La Spirotechnique. Balanced valve. 2,951,676, 9-6-60, Cl. 251-144.
- Gruhky, George S. Automatic dumping vehicle. 2,919,953, 1-5-60, Cl. 298-5.
- Grukke, Carl A.: *See*—
- Johnson, Richard E., Darland, Grukke, Cahoon, and Schaefer. 2,948,767.
- Grumbles, Samuel C., to Anchor Hocking Glass Corp. Tear strip seal. 2,925,188, 2-16-60, Cl. 215-37.
- Grummitt, Oliver J.: *See*—
- Berthold, Alfred, and Grummitt. 2,950,982.
- Grunberg, Jacques F., to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude. Process for the production of ammonia synthesis gas. 2,936,593, 5-17-60, Cl. 62-20.
- Grunberger, Peter R.: *See*—
- Buchel, Werner, and Grunberger. 2,936,121.
- Grund, Carl C.: *See*—
- Jackson, Albert P., and Grund. 2,964,047.
- Grundig, Max: *See*—
- Dreyer, Karl-August. 2,938,947.
- Hebel, Martin. 2,941,716.
- Koib, Georg. 2,937,534.
- Mayer, Walter. 2,955,155.
- Stednitz, Wolfgang. 2,955,169.
- Weise, Dominikus H. 2,963,296.
- Gründer, Christof, to Joh. Jacob Rieter & Co. Ltd. Brake means for spinning and twisting spindles. 2,966,025, 12-27-60, Cl. 57-88.
- Grundman, Richard G., to General Motors Corp. Liquid spray nozzle. 2,954,172, 9-27-60, Cl. 239-443.
- Grundmann, Christoph J.: *See*—
- Schroeder, Hansjuergen A., and Grundmann. 2,951,079.
- Grundmann, Gustave L.: *See*—
- Sonnenfeldt, Richard W., Grundmann, and Cuccia. 2,955,153.
- Grundmann, Gustave L., and R. W. Sonnenfeldt, to Radio Corp. of America. Notch filter in brightness channel of color television transmitter. 2,921,121, 1-12-60, Cl. 178-54.
- Grundmann, John F., and B. A. Hilliard, to Web Wilson Oil Tools, Inc. Gripping dies for pipe wrenches and similar devices. 2,962,919, 12-6-60, Cl. 81-86.
- Grundy, Walton E.: *See*—
- Rdzok, Edward J., and Grundy. 2,931,757.
- Gruener, Charles T., to General Motors Corp. Filter device. 2,922,488, 1-26-60, Cl. 183-43.
- Grunsky, Charles, to C. R. Farrar and E. Hillman. Pipe puller. 2,939,739, 6-7-60, Cl. 294-96.
- Grunwald, Arnold P., to Capital Engineering & Mfg. Corp. Radial phonograph pick-up arm. 2,935,326, 5-3-60, Cl. 274-23.
- Grunwald, Arnold P., to Capital Engineering & Mfg. Corp. Automatic record changer and player. 2,947,542, 8-2-60, Cl. 274-10.
- Grunwald, Arthur A., and R. Ostrom, to Durakool, Inc. Electrical terminal. 2,946,039, 7-19-60, Cl. 339-269.
- Grunwald, Edward. Protective floor covering bar. 2,927,339, 3-8-60, Cl. 16-16.
- Grunwald, Frederick A.: *See*—
- Sumerford, Wooten T., and Grunwald. 2,932,645.
- Grunwald, Robert F.: *See*—
- Wallace, Richard R., and Grunwald. 2,939,972.
- Grunwald, Robert F., R. R. Wallace, and H. Bowen, to The Harward Co., Inc. Testing device for film. 2,934,949, 5-3-60, Cl. 73-157.
- Grunze, Herbert, and E. Thilo, to Deutsche Akademie der Wissenschaften zu Berlin. Process for the preparation of dichloro phosphoric esters. 2,960,527, 11-15-60, Cl. 260-461.
- Grupe, Frederick A., Sr.: *See*—
- Klaue, Karl, and Grupe. 2,934,870.
- Gruss, George A., to American Machine & Foundry Co. Bowling pin spotting apparatus. 2,964,317, 12-13-60, Cl. 273-43.
- Grussen, Jean. Container for fluid or pulverulent material and process for making it. 2,951,628, 9-6-60, Cl. 229-55.
- Grutsch, James F.: *See*—
- Austin, Robert J., Grutsch, and Mallatt. 2,948,677.
- Grutsch, James F., to Standard Oil Co. Universal titrating agent generator. 2,954,336, 9-27-60, Cl. 204-195.
- Gruver, John H., to Addressograph-Multigraph Corp. Printing machines. 2,945,088, 7-12-60, Cl. 178-6.6.
- Gruver, John H., to Addressograph-Multigraph Corp. Printing machines. 2,950,341, 8-23-60, Cl. 178-6.6.
- Gzesnikowski, Eugene, to Samuel Jackson's Sons, Inc. Propeller shaft strut for motorboats. 2,934,034, 4-26-60, Cl. 115-34.
- Gschwend, Paul, 2nd, and J. M. Sharf, to Armstrong Cork Co. Bottle stopper. 2,953,273, 9-20-60, Cl. 215-47.
- Guanella, Gustav: *See*—
- Güttinger, Paul, Guanella, Weber, and Gallo. 2,954,555.
- Guanella, Gustav, 60% to K. Rath. High frequency heating apparatus. 2,943,175, 6-28-60, Cl. 219-10.55.
- Guardian Electric Mfg. Co.: *See*—
- Kral, Fred G. 2,921,151.
- Obszarny, Theodore J., and Schmidt. 2,937,249.
- Pratt, Elmer J. 2,936,780.
- Guardian S.A.: *See*—
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- Guardigli, Pio: *See*—
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- Guardigli, Pio. Speed reduction servosystem. 2,925,543, 2-16-60, Cl. 318-27.
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- Guarino, Nicholas A. Gauge for sheet metal working presses. 2,924,260, 2-9-60, Cl. 153-21.
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- Gubernick, Saul. Cable support and retractor. 2,955,149, 10-4-60, Cl. 174-135.
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- Gubitz, Franklyn W.: *See*—
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- Gubler, Hans, to Alpura A.G. Apparatus for sterile packaging sterile consumer goods. 2,928,219, 3-15-60, Cl. 53-180.
- Guckel, Gerhart A., to James Dole Engineering Co. Product metering apparatus and method. 2,934,101, 4-26-60, Cl. 141-11.
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- Gudmand-Hoyer, Julius V. Burners for liquid fuel. 2,956,621, 10-18-60, Cl. 158-91.
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- Guensch, George W. Toy train operated game of skill. 2,960,336, 11-15-60, Cl. 273-37.
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- Guenthard, Jacques: *See*—
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- Guerber, Howard P., and B. Adler, to Radio Corp. of America. Gating pulse generator. 2,948,884, 8-9-60, Cl. 340-174.
- Guenther, John H.: *See*—
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- Guenther, John R.: *See*—
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- Guenther, Paul A. Orifice fitting. 2,964,063, 12-13-60, Cl. 138-44.
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- Guerne, William, to Brevets Aero-Mecaniques S.A. Centrifugally armed percussion fuze. 2,921,527, 1-19-60, Cl. 102-79.
- Guernsey, Ray R. Throttle control for outboard motors. 2,947,193, 8-2-60, Cl. 74-479.
- Guernsey, Roscoe, Jr., to General Electric Co. Digital transducer. 2,966,673, 12-27-60, Cl. 340-347.
- Guerra, John P., J. J. Mahoney, and J. F. Frediani, to Fedders Corp. Air conditioning apparatus. 2,940,282, 6-14-60, Cl. 62-429.
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- Guggenheim, S. Frederic, and A. S. Louis. Self-locking adjustable potentiometer. 2,926,322, 2-23-60, Cl. 338-167.
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- Guggi, Walter B., to Westinghouse Electric Corp. Voltage to pulse-width conversion device. 2,965,766, 12-20-60, Cl. 307-88.5.
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- Guilbert, Inc.: *See—*  
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- Guild, William H., to Carpenter Mfg. Co. Portable safety lamp. 2,955,195, 10-4-60, Cl. 240-11.3.
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- Guillon, Henri, and J. Thénard, to Commissariat a l'Energie Atomique. Time selectors. 2,939,002, 5-31-60, Cl. 250-27.
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- Guimond, George A. Convertible hand cart. 2,938,734, 5-31-60, Cl. 280-30.
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- Guins, Sergei G., to The Chesapeake and Ohio Railway Co. Draft gear rigging. 2,965,246, 12-20-60, Cl. 213-8.
- Guiot, Maurice R., to Weselco Ltd. Electronic ignition system for internal combustion engines. 2,953,719, 9-20-60, Cl. 315-171.
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- Gulesich, John J., and J. A. Marlino, to Smith Kline & French Laboratories. Stabilized phenothiazine preparations. 2,928,767, 3-15-60, Cl. 167-52.
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 Gunning, Paul E., to Union Carbide Corp. Chrome protector. 2,956,888, 10-18-60, Cl. 106-10.  
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 Gunsalus, Irwin C.: See—  
 Good, Robert C., and Gunsalus. 2,927,059.  
 Gunst, Raymond: See—  
 Brassel, Jakob, Fasciati, Gunst, and von Krannichfeldt. 2,938,024.  
 Fasciati, Alfred, Gunst, Riat, and Seitz. 2,945,021.  
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 Gunst, Samuel B., and R. T. Bayard, to United States of America, Atomic Energy Commission. Neutron-counter. 2,965,781, 12-20-60, Cl. 313-61.  
 Gunter, Lee, Jr.: See—  
 Bauer, Benjamin B., Gunter, and Seeler. 2,939,716.  
 Gunter, Lee, Jr., and C. R. Anderson, to Shure Bros., Inc. Phonograph pick-up. 2,962,290, 11-29-60, Cl. 274-37.  
 Gunter, Phyllis R.: See—  
 Reed, Roland D. 2,945,372.  
 Güntert, Walter, to N.V. Optische Industrie "De Oude Delft," Photofluorographic camera. 2,953,683, 9-20-60, Cl. 250-65.  
 Günthard, Hans H., and J. J. Primas, to Trüb, Tauber & Co., A.G. Generating of homogeneous static magnetic fields. 2,953,727, 9-20-60, Cl. 317-123.



- Gunthel, Alfred B., Jr., to Dossert Mfg. Corp. Connectors for electrical cables or conductors. 2,935,550, 5-3-60, Cl. 174-71.
- Gunthel, Alfred B., Jr., to Dossert Mfg. Corp. Multiple cable connector. 2,950,936, 8-30-60, Cl. 287-75.
- Gunther, Arnold, to S. and A. Lipetz. Process for treating rubber-covered nylon fiber. 2,921,038, 1-12-60, Cl. 260-23.
- Gunther, Harry B., to The Martin Co. Stretch press jaw. Re. 24,842, 6-28-60, Cl. 279-4.
- Gunther, Hermann, to Quarzlampen Gesellschaft m.b.H. Operating room lamp. 2,944,143, 7-5-60, Cl. 240-1.4.
- Gunther, Karl-Georg, to Siemens-Schuckertwerke Aktiengesellschaft. Vaporization method of producing thin layers of semiconducting compounds. 2,938,816, 5-31-60, Cl. 117-212.
- Gunther, Norbert, to Carl Zeiss. Stereoscopic range finders. 2,932,234, 4-12-60, Cl. 88-2.7.
- Gunther, Roland: *See*—  
Dietrich, Paul, and Gunther. 2,928,344.
- Gunther, Roland E. Micrometer calipers. 2,933,816, 4-26-60, Cl. 33-164.
- Gunther, Roland E. Power amplifying servomechanisms. 2,945,167, 7-12-60, Cl. 318-28.
- Gunther, Willi, to Zeiss Ikon A.G. Photographic cameras adapted for interchangeable lens systems. 2,926,576, 3-1-60, Cl. 95-44.
- Günther, Willi, A. Böpple, and J. Hahn, to Zeiss Ikon A.G. Stuttgart. Rollfilm camera. 2,938,443, 5-31-60, Cl. 95-31.
- Gunzner, George, to Vlier Engineering Corp. Index plunger. 2,936,652, 5-17-60, Cl. 74-527.
- Guptail, Clarence H.: *See*—  
Austin, Harold A., and Guptail. 2,928,587.
- Guptill, Edwin C.: *See*—  
Corson, Almon J., and Guptill. 2,947,941.
- Guptill, Frank E., Jr., to Texaco Inc. Preventing scale formation in slurry feeding processes by means of a mixture of ammonia and carbon dioxide. 2,924,578, 2-9-60, Cl. 252-373.
- Gurasich, Stephen W.: *See*—  
Butterworth, Gilbert J., and Gurasich. 2,929,244.
- Gurewitsch, Anatole M., and H. C. Pollock, to General Electric Co. Ionic vacuum pump. 2,925,214, 2-16-60, Cl. 230-69.
- Gurgio, Arthur E., to The Dow Chemical Co. Stannous salts as catalysts for the polymerization of olefin oxides. 2,933,459, 4-19-60, Cl. 260-2.
- Gurgio, Arthur E., to The Dow Chemical Co. Process for polymerization of alkylene oxides with metal salts. 2,934,505, 4-26-60, Cl. 260-2.
- Gurin, Lawrence, to Orthodontic Specialties, Inc. Orthodontic device. 2,959,856, 11-15-60, Cl. 32-14.
- Gurinsky, David H.: *See*—  
Schweitzer, Donald G., Weeks, Kammerer, and Gurinsky. 2,926,111.
- Gurley, W. & L. E.: *See*—  
Loeck, Gunther F. E. 2,949,056.
- Gurney, Benjamin F., to Loyola University. Sterilizing and antiseptic compositions. 2,927,056, 3-1-60, Cl. 167-60.
- Gurney, Frank A., and H. M. Keating, to Monsanto Chemical Co. Apparatus for winding thermoplastic film into rolls. 2,942,796, 6-28-60, Cl. 242-56.
- Gurries Mfg. Co.: *See*—  
Curlett, John, and Gurries. 2,952,245.
- Gurries, Raymond A., and Curlett. 2,934,078.
- Gurries, Raymond A.: *See*—  
Curlett, John, and Gurries. 2,952,245.
- Gurries, Raymond A., and J. Curlett, to Gurries Mfg. Co. Pendulum controlled valve actuating mechanism. 2,934,078, 4-26-60, Cl. 137-45.
- Gurries, Richard M. Accumulator rule. 2,924,015, 2-9-60, Cl. 33-107.
- Gury, John B., Jr. Knife sharpener for cutting machine. 2,945,332, 7-19-60, Cl. 51-246.
- Gusching, Nagle V.: *See*—  
Lundeen, David E., Ulman, Gusching, and Boyer. 2,951,342.
- Gusken, Jean, Maschinenfabrik u. Eisengiesserei: *See*—  
Stauder, Ernst A. 2,939,490.
- Gusman, Samuel, to Rohm & Haas Co. Blended methacrylate coating compositions and articles coated therewith. 2,940,950, 6-14-60, Cl. 260-32.8.
- Gusman, Samuel, and A. W. Rytina, to Rohm & Haas Co. Thermosetting coating compositions. 2,951,048, 8-30-60, Cl. 260-21.
- Gusman, Samuel, and S. Melamed, to Rohm & Haas Co. Method of coating metal and article produced thereby. 2,940,872, 6-14-60, Cl. 117-75.
- Guss, Louis F. Amusement devices. 2,921,792, 1-19-60, Cl. 273-129.
- Gussack, Nathan A., to Grant Pulley & Hardware Corp. Slide with shock locks. 2,926,048, 2-23-60, Cl. 308-3.8.
- Gussler, Ova L., Jr. Saw gauge for cutting window members. 2,962,063, 11-29-60, Cl. 143-174.
- Gustafson, Blaine W., to Deere & Co. Rake tooth mounting means. Re. 24,825, 5-10-60, Cl. 56-400.
- Gustafson, Blaine W., and A. E. Breed, to Deere & Co. Rake tooth mounting means. 2,957,299, 10-25-60, Cl. 56-400.
- Gustafson, Burch O.: *See*—  
Perrault, Arthur. 2,945,334.
- Gustafson, Hilding B.: *See*—  
Carlson, Herbert G., and Gustafson. 2,938,868.
- Gustafson, Hjalmer C.: *See*—  
Huffman, Mervin C., Gustafson, and Pearson. 2,942,578.
- Gustafson, Hjalmer C. Heater for air line oilers. 2,924,950, 2-16-60, Cl. 62-5.
- Gustafson, Lloyd T., to The Creamery Package Mfg. Co. Heat-treating apparatus. 2,943,844, 7-5-60, Cl. 257-312.
- Gustafson, Walter G.: *See*—  
Brown, John T. L., and Gustafson. 2,938,982.
- Gustafson, Walter G., to Bell Telephone Laboratories, Inc. Relay. 2,938,981, 5-31-60, Cl. 200-112.
- Gustafson, Wayne, and B. W. Leggin, to FM Engineering Co., Inc. Rotary egg washer. 2,929,254, 3-22-60, Cl. 74-48.
- Gustafsson, Amuth. Soldering tool with solder chamber and feeding device for one hand. 2,952,763, 9-13-60, Cl. 219-27.
- Gustafsson, Gotthard V. A. Method of and apparatus for inserting a voltage into an electrical circuit. 2,920,274, 1-5-60, Cl. 324-98.
- Gustafsson, Rune: *See*—  
Svavar, Filip, Gustafsson, and Waern. 2,939,222.
- Gustafsson, Stig, to AB Svenska Flaktfabriken. Collecting electrode of the hollow box type for electrofilters. 2,936,850, 5-17-60, Cl. 183-7.
- Gustafsson, Stig, to AB Svenska Flaktfabriken. Collecting electrode for electrofilter. 2,946,400, 7-26-60, Cl. 183-7.
- Gustat, James J.: *See*—  
Fessler, Frank. 2,958,570.
- Gustavsson, Karl A. G., and B. G. E. Mansson, to Aktiebolaget Bahco. Centrifugal wind classifiers. 2,922,520, 1-26-60, Cl. 209-144.
- Gustin-Bacon Mfg. Co.: *See*—  
Hogendobler, Henry R., and Wands. 2,952,298.
- Stephens, Joseph F. 2,950,776.
- Stephens, Joseph F. 2,951,003.
- Stephens, Joseph F., and Kerr. 2,946,371.
- Warkoczewski, Joseph T. 2,947,446.
- Wands, Howard G., and McPherson. 2,923,487.
- Gustin, Daniel S., and J. K. Robertson, to Sylvania Electric Products Inc. Method of providing an electric lamp envelope with a non-uniform light-diffusing coating. 2,950,414, 11-15-60, Cl. 117-9.
- Gustine, Floyd L., to Allis-Chalmers Mfg. Co. Cam actuated cutter for cutting layers of spiral wound insulation on a cable. 2,955,501, 10-11-60, Cl. 83-628.
- Gustison, Robert A., and F. W. Hurd, to Union Carbide Corp. Purification of uranium concentrates by liquid extraction. 2,958,573, 11-1-60, Cl. 23-14.5.
- Gut, Stanley J., to General Precision, Inc. Device for adjusting rotational angular relation between two concentric shafts. 2,955,480, 10-11-60, Cl. 74-395.
- Gute, Loren R., to General Motors Corp. Switch assemblies. 2,957,056, 10-18-60, Cl. 200-4.
- Gute, Loren R., W. D. Harrison, and H. W. Schmitz, to General Motors Corp. Windshield wiper actuating mechanism. 2,959,968, 11-15-60, Cl. 74-70.
- Gutehoffnungshutte Sterkrade Aktiengesellschaft: *See*—  
Stoltenburg, Wilhelm. 2,960,704.
- Guterman, Sadia S.: *See*—  
Kodis, Robert D., Ruhman, and Guterman. 2,935,735.
- Guterman, Sadia S., to Minneapolis-Honeywell Regulator Co. Electrical pulse producing apparatus. 2,959,686, 11-8-60, Cl. 307-88.
- Gutert Quality Products, Inc.: *See*—  
Ertel, Edwin H. E., and Gutknecht. 2,939,238.
- Ertel, Edwin H. E., and Gutknecht. 2,962,248.
- Gutfreund, Sol. Meat grinder coupling. 2,965,145, 12-20-60, Cl. 146-182.
- Guth, David C.: *See*—  
Schuller, Walter H., and Guth. 2,958,682.
- Guth, Edwin F., Co., The: *See*—  
Guth, Edwin F., Sr. 2,927,200.
- Guth, Edwin F., Sr. 2,927,994.
- Guth, Edwin F., Sr. 2,960,604.
- Guth, Edwin F., Sr., to The Edwin F. Guth Co. Light controllers for illuminating devices. 2,927,200, 3-1-60, Cl. 240-78.
- Guth, Edwin F., Sr., to The Edwin F. Guth Co. Light diffusers for illuminating devices. 2,927,994, 3-8-60, Cl. 240-78.
- Guth, Edwin F., Sr., to The Edwin F. Guth Co. Light diffusers for illuminating devices. 2,960,604, 11-15-60, Cl. 240-78.
- Guth, Eugene D., to Phillips Petroleum Co. Method for improving the storage stability of ammonium salts. 2,943,928, 7-5-60, Cl. 71-64.
- Guth, Eugene D., to Phillips Petroleum Co. Composite solid rocket propellants. 2,962,368, 11-29-60, Cl. 52-5.
- Guth, Eugene D., to Phillips Petroleum Co. Burning rate catalysts for ammonium nitrate propellants. 2,963,356, 12-6-60, Cl. 52-5.
- Guth, Lauren W.: *See*—  
Sasnett, Russell M., and Guth. 2,959,179.
- Guthrie, Alfred A.: *See*—  
Newman, Ferris E., and Guthrie. 2,935,763.
- Guthrie, Donald A.: *See*—  
Black, James F., Hollyday and Guthrie. 2,955,995.
- Maisel, Daniel S., and Guthrie. 2,947,675.



- Guthrie, Donald A., and R. M. Thomas, to Esso Research and Engineering Co. Radiochemical preparation of ion-exchange resins and soil conditioners. 2,955,994, 10-11-60, Cl. 204-158.
- Guthrie, Jack A.: *See*—  
Blissard, Harold S., Smith, Rockstroh, and Guthrie. 2,943,992.
- Guthrie, Jack A., to Sun Oil Co. Production of benzene. 2,944,090, 7-5-60, Cl. 260-668.
- Guthrie, John D.: *See*—  
Reeves, Wilson A., Drake, and Guthrie. 2,933,367.  
Reeves, Wilson A., and Guthrie. 2,927,050.
- Guthrie, Stanford A.: *See*—  
MacMaster, Harry D., Bauer, and Guthrie. 2,943,357.
- Gutierrez, Donald D. Traction device. 2,947,336, 8-2-60, Cl. 152-216.
- Gutknecht, Herbert A.: *See*—  
Ertel, Edwin H. E., and Gutknecht. 2,939,238.  
Ertel, Edwin H. E., and Gutknecht. 2,962,248.
- Gutkowski, Janusz, to Parmatic Engineering Ltd. High pressure oil filter unit having threaded bowl assembly valve actuating means. 2,955,712, 10-11-60, Cl. 210-234.
- Gutlove, Norman M.: *See*—  
Bittman, Loran R., Gutlove, and Geyer. 2,945,154.
- Gutman, Alfred S.: *See*—  
Gradisar, Albin A., Gutman, and Meyer. 2,933,655.
- Gutman, David. Pedestrian protective device. 2,928,691, 3-15-60, Cl. 293-16.
- Gutmann, Fritz, to I-T-E Circuit Breaker Co. Electromagnetic clutch lamination treatment. 2,921,659, 1-19-60, Cl. 192-107.
- Gutmann, Hugo, O. Straub, and P. Zeller, to Hoffmann-La Roche Inc. 1-[6-methyl nicotinoyl]-2-lower alkyl hydrazine. 2,934,539, 4-26-60, Cl. 260-295.5.
- Gutmann, Hugo, B. Hegedüs, and P. Zeller, to Hoffmann-La Roche Inc. Hydrazine derivatives. 2,951,849, 9-6-60, Cl. 260-326.3.
- Gutmann, William R.: *See*—  
Fleming, Harold W., and Gutmann. 2,959,627.
- Gutos Metallschliessen-Fabrik Bader & Hoch Kommanditgesellschaft: *See*—  
Hoch, Fritz. 2,923,044.
- Gutridge, Jack E., and W. J. H. Roth, to Pullman-Standard Car Mfg. Co. Trailer positioning mechanism. 2,940,403, 6-14-60, Cl. 105-368.
- Guttag, Alvin. Phenol-carbon tetrachloride beryllium halide complex. 2,923,697, 2-2-60, Cl. 260-57.
- Gutting, Robert D. Masonry cutting machine. 2,933,079, 4-19-60, Cl. 125-23.
- Gutting, Robert D. Razor knife. 2,960,768, 11-22-60, Cl. 30-162.
- Guttinger, Paul, G. Guanella, G. Weber, and M. Gallo, to Contraves A.G., and Patenhold Patentverwertungs-Elektro-Holding A.G. Radio guiding system. 2,954,555, 9-27-60, Cl. 343-106.
- Güttler, Meinhard, to Telefunken G.m.b.H. High frequency pulse generation. 2,937,310, 5-17-60, Cl. 315-3.5.
- Guttmann, Ernest, to Leslisle Co., Inc. Power operated cutting device. 2,945,298, 7-19-60, Cl. 30-272.
- Gutton, Henri, and H. Famillier, to Compagnie Generale de Telegraphie Sans Fil. Radioelectric distance measuring systems. 2,950,473, 8-23-60, Cl. 343-6.5.
- Gutton, Henri, H. Famillier, and B. Ginger, to Compagnie Generale de Telegraphie Sans Fil. Electromagnetic navigation systems. 2,959,780, 11-3-60, Cl. 343-9.
- Guttridge, Eric J., and D. W. Skinner, to International Computers and Tabulators Ltd. Connection box with slidable pluggboard. 2,929,042, 3-15-60, Cl. 339-18.
- Gutzeit, Gregoire, P. Talmei, and W. G. Lee, to General American Transportation Corp. Chemical nickel plating processes and baths therefor. 2,935,425, 5-3-60, Cl. 117-130.
- Gutzmer, Ernest R., to Intercompany Corp. Production of lithographic printing plates. 2,941,499, 6-21-60, Cl. 118-11.
- Guy, Arthur L., and L. J. Castellanos, to Jersey Production Research Co. Lifting assembly for structures. 2,954,676, 10-4-60, Cl. 61-46.5.
- Guy, Frederick M., to U.S. Universal Joins Co. Flexible coupling and bushing construction. 2,930,211, 3-29-60, Cl. 64-11.
- Guy, Granville M., to Poly Industries, Inc. Overcenter latch. 2,920,370, 1-12-60, Cl. 24-271.
- Guy, William R.: *See*—  
Frey, Edward J., and Guy. 2,939,320.
- Guyer, August, F. Marti, and T. Sztchelski, to Lonza Electric and Chemical Works Ltd. Process for the manufacture of urea in granular form. 2,933,526, 4-19-60, Cl. 260-555.
- Guyer, August, F. Marti, and T. Sztchelski, to Lonza Electric and Chemical Works Ltd. Process for the manufacture of urea in granular form. 2,933,527, 4-19-60, Cl. 260-555.
- Guyer, August and P., and W. Richarz, to Lonza Electric and Chemical Works Ltd. Preparation of gas mixtures suitable for the manufacture of nitriles. 2,955,130, 10-4-60, Cl. 260-465.2.
- Guyer, August, E. Hess, F. Marti, E. Peterhans, and W. Zollinger, to Lonza Electric and Chemical Works Ltd. Method of producing carbon dioxide and ammonia from intermediate reaction products in the synthesis of urea. 2,955,916, 10-11-60, Cl. 23-150.
- Guyer, Frank L.: *See*—  
Gierke, Wayne, and Guyer. 2,940,416.
- Guyer, Hubert A. Door closer. 2,949,625, 8-23-60, Cl. 16-52.
- Guyer, Pio: *See*—  
Guyer, August and P., and Richarz. 2,955,130.
- Guyer, Reynolds: *See*—  
Luck, Raymond T., and Guyer. 2,924,902.
- Guyer, Reynolds, to Waldorf Paper Products Co. Container. 2,933,228, 4-19-60, Cl. 229-14.
- Guyer, Reynolds. Dispensing carton. 2,936,937, 5-17-60, Cl. 225-48.
- Gwynn, Harold H. Carpenter's plane with interchangeable shoes. 2,925,838, 2-23-60, Cl. 145-5.
- Guyton, James H., to General Motors Corp. Radiant energy relay means. 2,939,053, 5-31-60, Cl. 317-147.
- Guyton, James H., and K. S. Vogt, to General Motors Corp. Transistor power oscillator. 2,925,560, 2-16-60, Cl. 331-62.
- Guzell, Walter A. Sawhorse tool carrier. 2,937,675, 5-24-60, Cl. 144-285.
- Guzell, Walter A. Nailing device. 2,940,080, 6-14-60, Cl. 1-46.
- Guzell, Walter A. Paper clip. 2,947,047, 8-2-60, Cl. 24-66.
- Guzowski, Frank. Contour grinder. 2,927,405, 3-8-60, Cl. 51-100.
- Gwin, Gilmore T., B. N. Hill, R. S. Manne, N. P. Peet, G. R. L. Shepherd, and A. M. Souby, to Esso Research and Engineering Co. Hydrocarbon treating process. 2,925,374, 2-16-60, Cl. 208-86.
- Gwinn, G. S.: *See*—  
Tryon, David H. 2,947,468.
- Gwinn, Joseph M., Jr., to Gar Wood Industries, Inc. Ripper attachment. 2,931,446, 4-5-60, Cl. 172-464.
- Gwinn, Joseph M., Jr., to Gar Wood Industries, Inc. Refuse loading mechanism. 2,939,594, 6-7-60, Cl. 214-503.
- Gwinn, Joseph M., Jr., to Gar Wood Industries, Inc. Dozer blade assembly. 2,963,802, 12-13-60, Cl. 37-144.
- Gwyn, James D.: *See*—  
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- Gwyn, James D., and H. F. Moyer, to Libbey-Owens-Ford Glass Co. Multiple glass sheet glazing unit and method of fabrication. 2,964,809, 12-20-60, Cl. 20-56.5.
- Gwynn, Marion H.: *See*—  
Sowerwine, Elbert O., Jr. 2,921,022.
- Gyger, Cecil E., and A. D. Scarbrough, to Thompson Ramo Wooldridge Inc. Internal shield for electromagnetic head. 2,945,216, 7-12-60, Cl. 340-174.
- Gyllenberg, John L., to A. Brandenthaler. Slab-barking machine having rotatable articulated brush. 2,934,111, 4-26-60, Cl. 144-208.
- Gyorgy, Ernst M., to Bell Telephone Laboratories, Inc. Wave guide filter. 2,924,792, 2-9-60, Cl. 333-73.
- Gyrex Corp., The: *See*—  
Holt, William J., Jr. 2,939,971.
- Gysin, Hans, and E. Knusli, to J. R. Geigy, A.-G. Triazine derivatives. 2,923,614, 2-2-60, Cl. 71-2.5.
- Gysin, Hans, and E. Knusli, to J. R. Geigy A.-G. Method for inhibiting the growth of plants. 2,936,227, 5-10-60, Cl. 71-2.5.
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- Gysling Hermann, and H. J. Peterli, to J. R. Geigy A.-G. Oxidizable organic compositions stabilized with hydrogenated pyrazoles. 2,936,290, 5-10-60, Cl. 252-401.
- Gyurik, Stephan: *See*—  
Fullam, John P., and Gyurik. 2,959,410.
- Gzemsli, Felix C., and K. D. Ford, to The Atlantic Refining Co. Composition for protecting metallic structures. 2,935,412, 5-3-60, Cl. 106-122.
- H & C Engineering Corp.: *See*—  
Hottenderf, William J., and Harshman. 2,933,987.
- HG Enterprises: *See*—  
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- H & L Realty Corp.: *See*—  
Rachman, Isadore B., and Bobb. 2,942,921.  
Rachman, Isadore B., and Bobb. 2,943,243.
- HRB-Singer, Inc.: *See*—  
Eiland, Phillip F., Jr. 2,966,640.  
Higdon, Robert V., and McLucas. 2,936,333.
- Haab, Gordon W. Casing machine. 2,951,323, 9-6-60, Cl. 53-61.
- Haack, Erich, and A. Hagedorn, to C. F. Boehringer & Soehne G.m.b.H. Tetrahydroisoquinoline biguanides. 2,951,843, 9-6-60, Cl. 260-288.
- Haack, Erich, A. Hagedorn, W. Peschke, W. Aumüller, and H. Wagner, to C. F. Boehringer & Soehne G.m.b.H. Sulfonyl urea compounds and a process of making same. 2,953,578, 9-20-60, Cl. 260-347.2.
- Haack, Erich, H. Dimroth, A. Hagedorn, W. Heimberger, and W. Peschke, to C. F. Boehringer & Soehne G.m.b.H. Process of preparing 1-nitro phenyl-2-amino-propanediols-(1,3) of the three-series and their N-acetylated derivatives. 2,957,916, 10-25-60, Cl. 260-562.
- Haack, Erich, A. Hagedorn, H. Ruschig, and G. Korgor, to C. F. Boehringer & Soehne, G.m.b.H. Orally effective compounds for treating diabetes and a process of making same. 2,964,560, 12-13-60, Cl. 260-553.
- Haag, Franz A.: *See*—  
Durr, Walter, Geffcken, Huber, Haag, and Strittmatter. 2,926,855.  
Durr, Walter, Haag, and Strittmatter. 2,959,214.



- Haag, William T., to Gadget-Of-The-Month Club, Inc. Multiple dish container. 2,949,200, 8-16-60, Cl. 214-310.
- Haage, Konrad, to Delmag-Maschinenfabrik Reinhold Dornfeld. Diesel hammer for pile drivers and other driving devices. 2,953,615, 9-20-60, Cl. 123-187.5.
- Haagen, Karl, to Farbenfabriken Bayer Aktiengesellschaft. Ion exchanger membranes from polyvinylidene chloride and phenolic resin reactants. 2,951,818, 9-6-60, Cl. 260-2.1.
- Haagen-Smit, Jan: See—
- Thayer, Louis C., and Haagen-Smit. 2,943,036.
- Haagensen, Duane B.: See—
- Buoymaster, Ned W., and Haagensen. 2,955,895.
- Haagensen, Duane B., to Raytheon Mfg. Co. Microwave ovens. 2,920,174, 1-5-60, Cl. 219-10.55.
- Haake, Paul T., to Crane Packing Co. Rotary mechanical seal. 2,922,668, 1-26-60, Cl. 286-11.15.
- Haakh, Hermann, and A. Ruckert, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for fixing pigments on fibrous materials. 2,933,416, 4-19-60, Cl. 117-103.
- Haalck, Fritz, to Askania-Werke A.G. Calibration of torsion magnetometers. 2,950,434, 8-23-60, Cl. 324-48.
- Haalck, Fritz, to Askania-Werke A.G. Gravimeter. 2,959,961, 11-15-60, Cl. 73-382.
- Haanes, Arnt U. Adjustable stroke reciprocating fluid pressure motor. 2,922,397, 1-26-60, Cl. 121-38.
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- Haanstra, Hendrik B., to North American Philips Co., Inc. Microtome. 2,927,505, 3-8-60, Cl. 88-40.
- Haanstra, John W.: See—
- Maron, Melvin E., and Haanstra. 2,944,738.
- Haantjes, Johan, and G. J. Lubben, to North American Philips Co. Inc. Picture tubes for three-colour television systems comprising deflection coils. 2,945,157, 7-12-60, Cl. 315-13.
- Haarler, Hendrikus G., and N. Wittenberg, to North American Philips Co., Inc. Recorder having visual indicator for high-frequency generator operation. 2,935,573, 5-3-60, Cl. 179-100.2.
- Haas, Arthur J., Jr.: See—
- Allen, Thomas S., Gould, Haas, and O'Connell. 2,942,039.
- Haas, Chas., Co., The: See—
- Haas, Charles R., Jr. 2,950,790.
- Haas, Charles R., Jr., to The Chas. Haas Co. Window and method of assembling. 2,950,790, 8-30-60, Cl. 189-77.
- Haas, Gustav, to Allmanna Svenska Elektriska Aktiebolaget. Charging electric furnaces under operation. 2,940,620, 6-14-60, Cl. 214-18.
- Haas, Harry: See—
- Chevan, Albert, and Haas. 2,956,727.
- Haas, Henry A. Fifth wheel steering assembly for trailers. 2,925,285, 2-16-60, Cl. 280-426.
- Haas, Herbert H., to Continental Motors Corp. Lubrication system. 2,919,767, 1-5-60, Cl. 184-6.
- Haas, Herbert H., to Continental Aviation and Engineering Corp. Engine accessory drive. 2,929,367, 3-22-60, Cl. 123-41.65.
- Haas, Hermann: See—
- Strauss, Wennemar, Kirstahler, Gundel, and Haas. 2,937,973.
- Haas, Howard C.: See—
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- Land, Edwin H., Blout, and Haas. 2,956,877.
- Haas, Howard C., to Polaroid Corp. Sheet stock for dichroic dye light-polarizing means. 2,931,272, 4-5-60, Cl. 88-65.
- Haas, Howard C., and P. M. Kamath, to Polaroid Corp. Process of polymerizing styrene in the presence of methoxystyrene polymer. 2,949,436, 8-16-60, Cl. 260-45.5.
- Haas, Irv., to Sperry Rand Corp. Electronic logic circuit. 2,966,599, 12-27-60, Cl. 307-88.5.
- Haas, Josef, to International Fiber Development Corp. Method of processing vegetable fibers. 2,926,391, 3-1-60, Cl. 19-7.
- Haas, Karl: See—
- Herold, Robert, Petschel, Woll, and Haas. 2,935,673.
- Haas, Kenneth C.: See—
- Frankel, Samuel R., Hunt, Haas, and Wenrich. 2,958,302.
- Frankel, Samuel R., Hunt, Haas, and Wenrich. 2,961,591.
- Haas, Paul, to Sylvania Electric Products Inc. Target assembly for cathode ray tubes. 2,922,063, 1-19-60, Cl. 313-85.
- Haas, Paul, to Sylvania Electric Products Inc. Cathode ray tube structure. 2,932,241, 4-12-60, Cl. 95-1.
- Haas, Paul, to Fidelity Machine Co., Inc. Auxiliary gap closing mechanism. 2,946,209, 7-26-60, Cl. 66-112.
- Haas, Ralph W., and J. R. Scantlin, to General Dynamics Corp. Superregenerative detector. 2,922,032, 1-19-60, Cl. 250-20.
- Haas, Richard G.: See—
- Colgren, Carl T., and Haas. 2,933,231.
- Haas, Sidney V., Jr., to Valco Machine Co. Apparatus for treating textiles. 2,928,229, 3-15-60, Cl. 57-77.3.
- Haas, Tibor. Methods for indicating the expiration of the assigned or safe life of structural members. 2,920,480, 1-12-60, Cl. 73-88.
- Haase, Allen P., to General Electric Co. Grid construction. 2,946,915, 7-26-60, Cl. 313-348.
- Haase, Elmer A., to The Bendix Corp. Afterburner apparatus for gas turbine engines. 2,955,538, 10-11-60, Cl. 103-12.
- Haase, Elmer A., to The Bendix Corp. Fuel supply system. 2,958,321, 11-1-60, Cl. 123-119.
- Haase, Elmer A., and A. P. Schnaible, to The Bendix Corp. Fuel feed and power control systems for gas turbine engines. 2,950,596, 8-30-60, Cl. 60-39.28.
- Haase, Elmer A., and C. S. Longstreet, to The Bendix Corp. Fuel control system for gas turbine engines, particularly engines utilizing afterburning. 2,966,030, 12-27-60, Cl. 60-39.28.
- Haase, Jorgen I., to The Goodyear Tire & Rubber Co. Tire building drum. 2,926,721, 3-1-60, Cl. 154-9.
- Haase, Jorgen I., to The Goodyear Tire & Rubber Co. Tire band applying mechanism and method. 2,936,813, 5-17-60, Cl. 154-9.
- Haase, Jorgen I., to The Goodyear Tire & Rubber Co. Tire building machine. 2,951,526, 9-6-60, Cl. 154-10.
- Haase, Nelson K.: See—
- Barker, Paul F., Carlsen, Critchley, and Haase. 2,930,163.
- Haavik, Nils J.: See—
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- Haavik, Nils J., to Elektrokemisk A/S. Electrode holders for electric smelting furnaces. 2,948,765, 8-9-60, Cl. 13-16.
- Haayman, Pieter W.: See—
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- Haayman, Pieter W., and J. J. A. P. Van Amstel, to North American Philips Co., Inc. Method of manufacturing electrode systems. 2,925,643, 2-23-60, Cl. 29-25.3.
- Haban, Frank: See—
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- Habegger, Herman R., to Cornell-Dubilier Electric Corp. Electromagnetic coil. 2,955,238, 10-4-60, Cl. 317-158.
- Haber, Herbert S.: See—
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- Haber, Joseph G. Self adjusting socket reducing wrench. 2,938,417, 5-31-60, Cl. 81-185.
- Haber, Leo. Wall finishing masonry implement. 2,930,096, 3-29-60, Cl. 25-131.
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- Haberland, Ernest R., to Hughes Aircraft Co. Miniature switch mechanism. 2,932,703, 4-12-60, Cl. 200-87.
- Haberland, Ernest R. Torpedo arming device. 2,953,279, 11-1-60, Cl. 102-16.
- Haberland, Ernest R. Self-excited chopper for mines and torpedoes. 2,965,030, 12-20-60, Cl. 102-18.
- Haberland, Frederick C., and W. J. Kundrat, to Borg-Warner Corp. Multiple chamber valve plural motors. 2,953,164, 9-20-60, Cl. 137-622.
- Haberland, Hans: See—
- Heinz, Anton R., Haberland, and Rosahl. 2,965,604.
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- Habernickel, Valentin, to Henkel & Cie. G.m.b.H. Process for preparing stable peroxide-containing borates. 2,937,998, 5-24-60, Cl. 252-186.
- Habernickel, Valentin, to Henkel & Cie. G.m.b.H. Process for the production of biguanide derivatives containing active chlorine. 2,945,061, 7-12-60, Cl. 260-551.
- Haberstump, Alfred H., to Haberstump-Harris, Inc. Article arranging and collecting device. 2,943,764, 7-5-60, Cl. 221-68.
- Haberstump-Harris, Inc.: See—
- Haberstump, Alfred H. 2,943,764.
- Habgood, Warren J. Machine for taping objects on cards. 2,922,265, 1-26-60, Cl. 53-73.
- Habicht, Ernst, to Cilag Ltd. Certain N-(2-benzothiazolyl), aminoalkylthioalkyl carboxylic acid amides and process. 2,952,687, 9-13-60, Cl. 260-305.
- Habicht, Ernst, to Cilag-Chemie Ltd. New bis-sulfonyl ureas and process for the production thereof. 2,962,530, 11-29-60, Cl. 260-553.
- Hachmeister, Charles A., to L. C. Krazinski. Electrical timing circuit. 2,938,152, 5-24-60, Cl. 317-142.
- Hachmeister, Ernest G., and M. Epstein, to Industrial Engineering and Equipment Co. Terminal structure for electrical heating unit. 2,961,632, 11-22-60, Cl. 339-136.
- Hachmuth, Karl H., to Phillips Petroleum Co. Fractionation method and apparatus for conducting same. 2,965,543, 12-20-60, Cl. 202-40.
- Hack, Frank W. Multi-cone ore concentration apparatus. 2,946,442, 7-26-60, Cl. 209-482.
- Hack, Heinrich, to Carl Schenck Maschinenfabrik G.m.b.H. Methods and apparatus for compensation of rotor unbalance. 2,933,984, 4-26-60, Cl. 90-11.
- Hack, Heinrich, to Carl Schenck Maschinenfabrik G.m.b.H. Method and machines for balancing rotors. 2,954,711, 10-4-60, Cl. 77-5.
- Hack, Kenneth M.: See—
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- Hack, Leonard, to Ripple Sole Corp. Resilient shoe tap. 2,941,316, 6-21-60, Cl. 36-59.
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- Hackbart, Reuben J., and E. T. Neubauer, to The Trane Co. Reciprocating piston compressor. 2,955,751, 10-11-60, Cl. 230-187.
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- Hacklander, Hans, to The Singer Mfg. Co. Sewing machine lubrication. 2,942,566, 6-28-60, Cl. 112-256.
- Hacklander, Hans, to The Singer Mfg. Co. Loop throw out for sewing machines. 2,946,301, 7-26-60, Cl. 112-200.
- Hacklander, Hans, to The Singer Mfg. Co. Sewing machines. 2,947,270, 8-2-60, Cl. 112-258.
- Hacklander, Hans, to The Singer Mfg. Co. Puller feed mechanisms for sewing machines. 2,948,243, 8-9-60, Cl. 112-256.
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- Hackley, Reginald A., and E. S. Rogers, to United States of America, Navy. Scanning systems. 2,925,581, 2-16-60, Cl. 340-6.
- Hackley, Roy C., Jr. Manufacture of graphitizable petroleum coke. 2,922,755, 1-26-60, Cl. 208-39.
- Hackman, Amos W., to Tuttle Electric Products, Inc. Open coil electric heater. 2,921,172, 1-12-60, Cl. 219-19.
- Hackman, Clarence B., to The Budd Co. Gib for forming dies. 2,925,305, 2-16-60, Cl. 308-3.
- Hackman, Frank W.: *See*—  
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- Hackman, Robert L., and R. P. Sullivan, to Union Carbide Corp. Electric arc process and apparatus. 2,922,023, 1-19-60, Cl. 219-74.
- Hackman, Robert L., and G. W. Oyler, to Union Carbide Corp. Gas shielded internally cooled electrode welding torch. 2,922,868, 1-26-60, Cl. 219-75.
- Hackman, Robert L., R. P. Sullivan, and R. R. Lobosco, to Union Carbide Corp. Gas shielded arc welding. 2,922,871, 1-26-60, Cl. 219-131.
- Hackman, William C.,  $\frac{1}{2}$  to American Energetics Corp. Gang circuit maker and breaker. 2,956,130, 10-11-60, Cl. 200-5.
- Hackmann, Johannes T., to Shell Development Co. Acyl thiourea fungicidal and bactericidal composition and method of protecting plants with the same. 2,923,656, 2-2-60, Cl. 167-22.
- Hackmann, Johannes T., and P. T. Haken, to Shell Oil Co. Method for control of plant growth. 2,960,395, 11-15-60, Cl. 71-2.5.
- Hackmyer, Saul A.,  $\frac{2}{3}$  to H. L. Davis, and  $\frac{1}{3}$  to E. Waterman. Closure means for dispensing cartons. 2,919,845, 1-5-60, Cl. 229-44.
- Hackney, Robert F., O. C. Payne, and W. M. Sapp, Jr., to Cabin Crafts, Inc. Tufted rug machine design control mechanism. 2,954,865, 10-4-60, Cl. 203-210.
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- Haden, Walter L., Jr., to Minerals & Chemicals Corp. of America. Tobacco composition and smoking unit containing material for eliminating deleterious matter. 2,933,420, 4-19-60, Cl. 131-17.
- Haden, Walter L., Jr., to Minerals & Chemicals Corp. of America. Tobacco composition and smoking unit containing material for eliminating deleterious matter. 2,941,906, 6-21-60, Cl. 131-17.
- Hadfield, Harry R.: *See*—  
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- Hadfield, Harry R., B. Batterbee, and D. R. Lemin, to Imperial Chemical Industries Ltd. New dyeing process. 2,950,165, 8-23-60, Cl. 8-54.
- Hadley, Howard C., to Deere & Co. Corn harvester. 2,961,818, 11-29-60, Cl. 56-18.
- Hadley, Howard C., to Deere & Co. Gathering and conveying mechanism for corn pickers and the like. 2,961,820, 11-29-60, Cl. 56-119.
- Hadfield, James, to Beyer Peacock & Co. Ltd. Pivot centres. 2,929,662, 3-22-60, Cl. 308-137.
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- Hadley, Harlan A., to Toledo Scale Corp. Weighing scale. 2,937,863, 5-24-60, Cl. 265-54.
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- Haefner, Albert J., and P. W. Trotter, to Ethyl Corp. Polymerization of polyvinyl chloride/polyvinyl acetate copolymer. 2,962,483, 11-29-60, Cl. 260-87.1.
- Haegert, Clarence B. Battery terminal clamp. 2,940,060, 6-7-60, Cl. 339-100.
- Haehn, James B., and R. J. Ettinger, to The B. F. Goodrich Co. Resinous 1-monoolefinic hydro carbon compositions stabilized with silicon monoxide. 2,959,563, 11-8-60, Cl. 260-41.
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- Haemmerle, Alfred: *See*—  
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- Haenel, Nisso, to Societe Electromag. Spool-driving mechanism in magnetic tape recorders. 2,951,653, 9-6-60, Cl. 252-55.12.
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- Haensel, Vladimir, to Universal Oil Products Co. Combination process of isomerization and selective fractionation followed by a sorption process. 2,921,104, 1-12-60, Cl. 260-683.65.
- Haensel, Vladimir, to Universal Oil Products Co. Hydrocarbon conversion catalyst. 2,930,763, 3-29-60, Cl. 252-441.
- Haensel, Vladimir, to Universal Oil Products Co. Hydroisomerization process. 2,952,716, 9-13-60, Cl. 260-668.
- Haensel, Vladimir, to Universal Oil Products Co. Reforming process and catalyst therefor. 2,957,819, 10-25-60, Cl. 208-136.
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- Haensel, Vladimir, and G. R. Donaldson, to Universal Oil Products Co. Process for the production of aromatic hydrocarbons. 2,966,529, 12-27-60, Cl. 260-668.
- Haerich, Bruno F.: *See*—  
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- Haerther, William W., Jr., to Hawley Products Co. Acoustical devices. 2,960,177, 11-15-60, Cl. 181-32.
- Haerther, William W., Jr., to Hawley Products Co. Acoustical devices. 2,962,109, 11-29-60, Cl. 181-32.
- Häfele, Walter, to Robert Bosch G.m.b.H. Injection pump. 2,958,289, 11-1-60, Cl. 103-41.
- Hafensteiner, Georg, to Bayerische Motoren Werke Aktiengesellschaft. Feed and control device for spindle-driven machines. 2,937,552, 5-24-60, Cl. 82-1.
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- Hafner, Theodore. Microwave transmission and receiving systems. 2,921,979, 1-19-60, Cl. 179-25.
- Hafner, Theodore. Repeater amplifiers for surface wave transmission. 2,946,970, 7-26-60, Cl. 333-95.
- Hafner, Theodore, to Surface Conduction Inc. Microwave communication lines. 2,949,589, 8-16-60, Cl. 333-95.
- Hafner, Theodore. Flexible surface wave transmission lines. 2,966,644, 12-27-60, Cl. 333-95.
- Hafner, Walter, and E. O. Fischer, to Union Carbide Corp. Method for preparing organo-metallic compounds. 2,953,586, 9-20-60, Cl. 260-429.
- Hafstad, Carl E. Door latch mechanism. 2,957,719, 10-25-60, Cl. 292-76.
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- Hagan, James J., R. E. Clarke, and F. B. Ablondi, to American Cyanamid Co. Processes for preparing human plasminogen from human placenta sources. 2,923,665, 2-2-60, Cl. 195-66.
- Hagar, James A. Adjuster for oil pumps. 2,931,247, 4-5-60, Cl. 74-586.
- Hagar, John F., to Diamond National Corp. Display and carrying package for merchandise. 2,923,401, 2-2-60, Cl. 206-4533.
- Hagberg, Warner V. Window holding rack. 2,920,857, 1-12-60, Cl. 248-317.
- Hage, Albert. Bicycle fender bracket. 2,950,891, 8-30-60, Cl. 248-226.
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- Haack, Erich, Hagedorn, Peschke, Aumueller, and Wagner. 2,953,578.
- Haack, Erich, Hagedorn, Ruschig, and Korger. 2,964-560.
- Hagedorn, Erwin C., and D. P. Hall, to Owens-Illinois Glass Co. Yellow glass composition. 2,965,503, 12-20-60, Cl. 106-52.
- Hagelbarger, David W., to Bell Telephone Laboratories, Inc. Continuous digital error correcting system. 2,956,124, 10-11-60, Cl. 178-69.
- Hagelbarger, David W., to Bell Telephone Laboratories, Inc. Permanent magnet code recording system. 2,958,568, 11-1-60, Cl. 346-74.
- Hagemann, Franz. Device for the rapid attachment and release of roller cages, toothed rollers or machines mounted on sole-plates. 2,959,258, 11-8-60, Cl. 189-36.
- Hagemann, Guy, L. Penasse, and J. Teillon, to Les Laboratoires Français de Chimiothérapie. Process of preparing O-carbamyl-D-serine. 2,938,836, 5-31-60, Cl. 195-80.
- Hagemeyer, Hugh J., Jr., and M. A. Perry, to Eastman Kodak Co. 2-propylheptanol and its esters. 2,921,089, 1-12-60, Cl. 260-475.
- Hagemeyer, Hugh J., Jr., and M. B. Edwards, to Eastman Kodak Co. Polymerization of  $\alpha$ -olefins to solid polymers with a three-component catalyst. 2,935,498, 5-3-60, Cl. 260-93.7.
- Hagemeyer, Hugh J., Jr., D. C. Hull, and M. A. Perry, to Eastman Kodak Co. Process of manufacturing 2,2,4-trimethyl-3-penten-1-ol and 2,2,4-trimethyl-pentanol. 2,941,011, 6-14-60, Cl. 260-638.
- Hagen, Carl F. Adjustable drill jig. 2,929,277, 3-22-60, Cl. 77-62.
- Hagen, Clarence R., to International Harvester Co. Dump-body assembly and attaching means for complementary tractor. 2,947,571, 8-2-60, Cl. 298-10.
- Hagen, Glenn E.: See—
- Beek, Joseph A., Jr., and Hagen. 2,939,634.
- Beek, Robert M., Beek, Hagen, Russell, and Williams. 2,923,470.
- Hagen, Glenn E. Data processing apparatus. 2,930,316, 3-29-60, Cl. 101-93.
- Hagen, Harold F. and W. F., to Union Stock Yard and Transit Co. of Chicago. Turbo-refrigeration device. 2,925,723, 2-23-60, Cl. 62-402.
- Hagen, Joseph, to Saul & Co., as Nominee of Fidelity Union Trust Co., executive trustee under Sandoz Trust. Filtering apparatus. 2,948,400, 8-9-60, Cl. 210-256.
- Hagen, Kenneth R. Key chain coin attachment. 2,920,632, 1-12-60, Cl. 133-6.
- Hagen, Paul A., to The Gamewell Co. Repeat cycle timers. 2,946,902, 7-26-60, Cl. 307-141.4.
- Hagen, Richard E., and R. T. Jacobsen, to The Electric Storage Battery Co. Flashlight. 2,949,530, 8-16-60, Cl. 240-10.61.
- Hagen, Robert E., R. D. Lopez, and G. H. Sundin, to United States Steel Corp. Compound traverse conveyor for pattern feeding. 2,946,468, 7-26-60, Cl. 214-18.
- Hagen, Robert F.: See—
- Keil, Harvard L., Hagen, and Flaws. 2,953,462.
- Hagen, William F.: See—
- Hagen, Harold F. and W. F. 2,925,723.
- Hagenbuch, Ernst, to Bandfabrik Breitenbach A.G. Textile ribbons. 2,928,432, 3-15-60, Cl. 139-391.
- Hager, Archie W. Devices for applying pressure to auto fuel tanks. 2,956,737, 10-18-60, Cl. 230-169.
- Hager, Glenn E., to E. I. du Pont de Nemours and Co. Process for preparing carbon tetrafluoride essentially free from other halocarbons. 2,924,623, 2-9-60, Cl. 260-653.
- Hager, Onslow B., and B. Coe, to Alco Oil & Chemical Corp. Process for producing condensation products of alkylated phenols with aldehydes. 2,932,671, 4-12-60, Cl. 260-619.
- Hager, Robert E., to Acme Steel Co. Box strapping machine. 2,959,118, 11-8-60, Cl. 100-26.
- Hagerty, Andrew T., to The Adlake Co. Lock for swinging window. 2,926,515, 3-1-60, Cl. 70-89.
- Hagerty, Andrew T., to The Adlake Co. Window. 2,938-247, 5-31-60, Cl. 20-53.
- Haggai, Theodore F., and F. F. Shoup, to Radio Corp. of America. Tachometer. 2,927,268, 3-1-60, Cl. 324-70.
- Haggar, Elie B. Carpet construction. 2,956,594, 10-18-60, Cl. 139-403.
- Haggar, Robert W. Combined filing cabinet and viewing arrangement for photographic transparencies. 2,943,410, 7-5-60, Cl. 40-106.1.
- Haggard, Ward M. Reducing liquid level in well tubing. 2,942,663, 6-28-60, Cl. 166-45.
- Hagglad, John G. Pipe stem clip. 2,926,672, 3-1-60, Cl. 131-186.
- Hagger, Albert, to Svenska Aktiebolaget Gasaccumulator. Acoustic alarm device. 2,921,551, 1-19-60, Cl. 116-70.
- Hagger, Albert, to AGA-Aktiengesellschaft. Warning device for breathing apparatus. 2,954,792, 10-4-60, Cl. 137-63.
- Haggis, Geoffrey A., and A. Lambert, to Imperial Chemical Industries Ltd. Process of foaming a saturated polyester using a dicarboxylic acid diazide as the blowing agent and product obtained thereby. 2,930,769, 3-29-60, Cl. 260-25.
- Hagihara, Bunji: See—
- Okunuki, Kazuo, Hagihara, and Ukita. 2,952,586.
- Hagiwara, Hikoichi: See—
- Hasegawa, Takezi, Takahashi, Nishikawa, and Hagiwara. 2,966,444.
- Haglund, Gustaf, to AB Hedemora Verkstäder. Contacting apparatus for gases and liquids. 2,934,325, 4-26-60, Cl. 261-92.
- Haglund, John H., to Aktiebolaget Kanthal. Flame spraying method and composition. 2,943,951, 7-5-60, Cl. 117-22.
- Haglund, Karl B. Door constructions. 2,951,565, 9-6-60, Cl. 189-46.
- Hagmaier, Eugen, W. Walther, and H. Bischoff, to Firma Robert Bosch G.m.b.H. Mounting plate for ignition distributors and housing therefor. 2,929,888, 3-22-60, Cl. 200-30.
- Hagner, Walter W.: See—
- Blackburn, Charles M., and Hagner. 2,925,722.
- Hagopian, Jacob J.: See—
- Hodson, Waldo G., Peterson, Kenkel, Hagopian, and Hennies. 2,939,020.
- Hagopian, Jacob J., to International Business Machines Corp. Method of making perpendicular magnetic recording head. 2,920,379, 1-12-60, Cl. 29-155.58.
- Hagopian, Jacob J., to International Business Machines Corp. Magnetic transducer. 2,928,078, 3-8-60, Cl. 340-174.
- Hagopian, Jacob J., to International Business Machines Corp. Gated magnetic recording head. 2,933,721, 4-19-60, Cl. 340-174.
- Hagopian, Jacob J., to International Business Machines Corp. Printing directory. 2,950,672, 8-30-60, Cl. 101-93.
- Hagstrand, Helge W.: See—
- Baird, Russell T., and Hagstrand. 2,920,513.
- Hagstrand, Helge W., to Artos Engineering Co. Multiple wire cutter and stripper. 2,929,284, 3-22-60, Cl. 81-9.51.



- Hague, Clark E., to North American Mfg. Co. Jet pipe relay for operation submerged in oil with minimum inertia and frictional resistance. 2,960,995, 11-22-60, Cl. 137-83.
- Hague, John D., and R. L. Haynes. Double integration memory circuit responding to bi-polar pulse video input signal. 2,939,083, 5-31-60, Cl. 328-150.
- Hague, Robert Z.: *See*—  
Treff, Conrad C., and Hague. 2,921,468.
- Hagy, James D., and H. A. Waughtal, to Pan American Petroleum Corp. Combustion chamber burner. 2,941,587. 6-21-60, Cl. 158-99.
- Hahn, Donald: *See*—  
Lonaberger, Robert F., and Hahn. 2,960,831.
- Hahn, Donald E., to General Electric Co. Electronic cooking apparatus. 2,929,905, 3-22-60, Cl. 219-10.55.
- Hahn, Donald E., to General Electric Co. Electronic ovens. 2,958,754, 11-1-60, Cl. 219-10.55.
- Hahn, Eberhard: *See*—  
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- Hahn, Edgar A., to Lyon Inc. Chromium plated baking pans. 2,950,839, 8-30-60, Cl. 220-64.
- Hahn, Edwin E., and M. L. Schultz, to United States of America, Navy. Light beam signalling. 2,964,619, 12-13-60, Cl. 250-7.
- Hahn, Emil H., and H.-J. Tsai, to Lambert Brake Corp. Heavy duty oil-cooled friction device. 2,928,504, 3-15-60, Cl. 188-72.
- Hahn, Erich, and E. Geissler, to VEB Zeiss Ikon Dresden. Exposure regulator. 2,922,347, 1-26-60, Cl. 95-10.
- Hahn, Erich, and E. Geissler, to VEB Kamera-und Kinowerke Dresden. Photoelectric light meter. 2,960,003, 11-15-60, Cl. 88-23.
- Hahn, Frank J.: *See*—  
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- Hahn, Frank J. Fish pole holder and support. 2,926,874, 3-1-60, Cl. 248-44.
- Hahn, Gilbert B.: *See*—  
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- Hahn, Harold T., to United States of America, Atomic Energy Commission. Method of making  $UO_2$ -bi slurries. 2,937,982, 5-24-60, Cl. 204-154.2.
- Hahn, Helmut: *See*—  
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- Hahn, Johann: *See*—  
Günther, Willi, Bopple, and Hahn. 2,938,443.
- Sauer, Edgar, Hahn, Jörg and Rall. 2,925,764.
- Hahn, Johannes B.: *See*—  
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- Hahn, Paul R. T.: *See*—  
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- Hahn, Richard H., and H. V. French. Vent valve. 2,942,622, 6-28-60, Cl. 137-625.5.
- Hahn, Robert S., to Heald Machine Co. Grinding machine. 2,930,167, 3-28-60, Cl. 51-165.
- Hahn, Werner, and O. Fischer, to VEB Zeiss Ikon Dresden. Photographic shutter for monocular mirror reflex cameras. 2,920,546, 1-12-60, Cl. 95-63.
- Hahn, Werner, H. Schulze, and R. Noack, to VEB Kamera-und Kinowerke Dresden. Cocking device for photographic between the lens shutter. 2,931,285, 4-5-60, Cl. 95-63.
- Hahn, Willard E., to St. Regis Paper Co. Method and apparatus for forming seams in multiwall bags. 2,953,976, 9-27-60, Cl. 93-8.
- Hahne, Karl H.: *See*—  
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- Raydt, Ulrich, and Hahne. 2,956,311.
- Raydt, Ulrich E., and Hahne. 2,964,090.
- Haidegger, Hans, to Ebauches S.A. Charging device. 2,965,263, 12-20-60, Cl. 221-162.
- Haig, Richard R., to Esso Research and Engineering Co. Prevention of disperse phase coke deposition in fluid coker. 2,952,617, 9-13-60, Cl. 208-127.
- Haigh, Daniel H.: *See*—  
Roberts, Carleton W., and Haigh. 2,952,712.
- Haigh, John T., and R. C. Roloff, to Strong-Scott Mfg. Co. Pulverizing and classifying apparatus. 2,939,638, 6-7-60, Cl. 241-52.
- Haigh, Leslie B.: *See*—  
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- Haigh, Leslie B., and J. I. Bellamy, to International Telephone and Telegraph Corp. Terminal-per-station telephone party-line switching system. 2,929,881, 3-22-60, Cl. 179-17.
- Haigh, Louis E., and I. C. Summers, to Philco Corp. Raster size and linearity control for cathode ray tubes. 2,931,932, 4-5-60, Cl. 313-76.
- Haight, Howard N., to C. F. Braun & Co. Heat exchanger. 2,919,906, 1-5-60, Cl. 257-239.
- Haigler, Edmund D.: *See*—  
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- Haigler, Edmund D., to Fischer & Porter Co. Pressure or temperature responsive mechanism. 2,943,489, 7-5-60, Cl. 73-418.
- Hailston, Ellis W.: *See*—  
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- Halmes, Simon L.: *See*—  
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- Haims, Philip L. Impeller blade. 2,957,621, 10-25-60, Cl. 230-259.
- Haimsohn, Jerome N., to Stauffer Chemical Co. Manufacture of titanium tetrachloride utilizing hydrogen chloride. 2,962,353, 11-29-60, Cl. 23-87.
- Haimsohn, Jerome N., and G. E. Lukes, to Stauffer Chemical Co. Alkyl thiocyanate isomerization. 2,954,393, 9-27-60, Cl. 260-454.
- Haine, Michael E., and T. Mulvey, to Metropolitan-Vickers Electrical Co. Ltd. Electron lenses. 2,926,254, 2-23-60, Cl. 250-49.5.
- Haine, Michael E., and T. Mulvey, to Metropolitan-Vickers Electrical Co. Ltd. Electron lenses. 2,950,390, 8-23-60, Cl. 250-49.5.
- Haine, Michael E., and T. Mulvey, to Metropolitan-Vickers Electrical Co. Ltd. X-ray apparatus. 2,951,157, 8-30-60, Cl. 250-52.
- Haine, Michael E., R. N. Bloomer, and E. W. R. Francis, to Siemens Edison Swan Ltd. Production of high vacua by gettering. 2,957,619, 10-25-60, Cl. 230-69.
- Haine, Walter A.: *See*—  
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- Haines, Edward M., and C. E. Hughes, to General Electric Co. Combination kitchen appliances. 2,934,913, 5-3-60, Cl. 62-161.
- Haines, Harold. Conical element for sizing roll. 2,949,189, 8-16-60, Cl. 209-106.
- Haines, Harold L., to Economy Baler Co. Ejector for baling presses. 2,965,017, 12-20-60, Cl. 100-218.
- Haines, Jesse H., to Allen B. Du Mont Laboratories, Inc. Transparent conductive surface with travelling wave properties. 2,928,317, 3-15-60, Cl. 88-61.
- Haines, Lawrence A.: *See*—  
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- Haines, Lawrence A., and L. C. Small, Jr., to United Aircraft Corp. Turbine bearing support. 2,928,648, 3-15-60, Cl. 253-39.
- Haines, Malcolm P., to Merz Engineering, Inc. Instrument case. 2,924,495, 2-9-60, Cl. 312-251.
- Haines, Malcolm P., to Marz Engineering, Inc. Tilting plate segregator. 2,944,648, 7-12-60, Cl. 193-39.
- Haines, Paul G.: *See*—  
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- Haines, Robert M.: *See*—  
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- Annable, Weldon G., Haines, and Jacobs. 2,963,420.
- Haining, Lester E.: *See*—  
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- Hainsworth, John G.: *See*—  
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- Hairlok Co. Ltd., The: *See*—  
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- Hairston, Terry H. Fish scaler. 2,928,118, 3-15-60, Cl. 17-5.
- Haislip, Albert S. Venetian blind slat stiffening brace. 2,937,394, 5-24-60, Cl. 15-268.
- Hait, James M., to Food Machinery and Chemical Corp. Combined power transmission and steering mechanism for tracklaying vehicles. 2,946,239, 7-26-60, Cl. 74-710.5.
- Hait, James M., to Food Machinery and Chemical Corp. Hammer driven sprinkler. 2,963,228, 12-6-60, Cl. 239-230.
- Hait, James M., and B. H. Kellogg, to Food Machinery and Chemical Corp. Apparatus for orienting indented fruit. 2,923,396, 2-2-60, Cl. 198-33.
- Hait, James M., and B. H. Kellogg, deceased, by H. J. Kellogg, administratrix, to Food Machinery and Chemical Corp. Apparatus for orienting indented fruit. 2,933,174, 4-19-60, Cl. 198-33.
- Hajart, Joseph. Tire chain. 2,936,807, 5-17-60, Cl. 152-225.
- Hajek, Ladimir. Rear sight for a handgun. 2,939,217, 6-7-60, Cl. 33-47.
- Hajjar, James J.: *See*—  
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- Hajny, Charles E., to Baso Inc. Fluid fuel burner. 2,920,126, 1-5-60, Cl. 136-4.
- Hajny, Charles E., to Baso Inc. Modulating and on-off fuel control apparatus. 2,924,387, 2-9-60, Cl. 236-1.
- Hajny, Charles E., to Baso Inc. Control device. 2,951,189, 8-30-60, Cl. 317-156.
- Hajny, Charles E., to Baso Inc. Fuel control apparatus. 2,953,198, 9-20-60, Cl. 158-131.
- Hajny, Charles E., to Baso Inc. Pilot burner-thermoelectric generator bracket assembly. 2,959,218, 11-8-60, Cl. 158-123.
- Hajny, Charles E., to Baso Inc. Control apparatus. 2,959,219, 11-8-60, Cl. 158-130.
- Hajny, Charles E., to Baso Inc. Fluid conductor motor operated control devices and apparatus employing the same. 2,959,650, 11-8-60, Cl. 200-112.
- Hajos, Eugene, to Hydraxtor Co. Apparatus for folding. 2,942,874, 6-28-60, Cl. 270-83.
- Hakala, Niilo V.: *See*—  
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- Hakala, Thomas H.: *See*—  
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- Hakala, Thomas H., and J. J. Laffey, to Esso Research and Engineering Co. Stabilizing halogenated rubbery copolymers. 2,958,675, 11-1-60, Cl. 260-45.75.
- Hakala, Thomas H., and J. J. Laffey, to Esso Research and Engineering Co. Stabilizing halogenated copolymers by adding the stabilizers before compounding and curing the copolymers. 2,964,493, 12-13-60, Cl. 260-45.8.



- Hakala, William A.: See—  
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- Hake, Albert C.: See—  
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- Hake, Walter T.: See—  
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- Hake, Walter T., to American Steel Foundries. Rotary limit switch. 2,945,097, 7-12-60, Cl. 200-47.
- Haken, Pieter T.: See—  
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- Hakogi, Ichiuro. All-automatic apparatus for handling curved-surface articles. 2,936,059, 5-10-60, Cl. 198-30.
- Halacsy, Andrew A. Method of applying insulating coating. 2,950,997, 8-30-60, Cl. 117-232.
- Halberg, Robert W., to Borg-Warner Corp. Fuel injection apparatus. 2,930,369, 3-29-60, Cl. 123-139.
- Halberg, Robert W., and R. S. Hutton, to Borg-Warner Corp. Bearing positioning mechanism. 2,926,738, 3-1-60, Cl. 180-70.
- Halberg, Robert W., and R. S. Hutton to Borg-Warner Corp. Bearing positioning mechanism for propeller shaft. 2,939,540, 6-7-60, Cl. 180-70.
- Halberg, Robert W., and R. S. Hutton, to Borg-Warner Corp. Bearing positioning mechanism for propeller shaft. 2,953,213, 9-20-60, Cl. 180-70.
- Halberstam, Mendel, and A. Jacobs, to Autometric Corp. Cathode-ray tube sweep control system. 2,929,956, 3-22-60, Cl. 315-10.
- Halbig, Paul. Preparation of shaped polyacrylonitrile structures. 2,928,715, 3-15-60, Cl. 18-54.
- Halbig, Paul, and P. Wicht, to Lonza Electric and Chemical Works Ltd. Preparation of polyvinyl alcohol. 2,940,948, 6-14-60, Cl. 260-29.6.
- Halbreich, Oscar, to Kem Button Corp. Adjustable chute for button feeders. 2,945,575, 7-19-60, Cl. 193-38.
- Halbreich, Oscar, to Kem Button Corp. Hopper for button feeding. 2,954,110, 9-27-60, Cl. 193-2.
- Haldemann, Heinz, and H. Stutz, to Contraves, A.G. Electro-mechanical curve sensing system. 2,948,840, 8-9-60, Cl. 318-29.
- Haldex Aktiebolag: See—  
Sjöblom, Johan V. 2,934,265.
- Hale, Andrew, and H. G. Bailey, to Blaw-Knox Co. Continuous mill. 2,954,580, 10-4-60, Cl. 18-2.
- Hale, Andrew, and C. L. Conley Jr., to Blaw-Knox Co. Take-off mechanism for plastic mills. 2,962,753, 12-6-60, Cl. 18-2.
- Hale, Arthur N., and C. C. Smith, to Union Special Machine Co. Hem folder and edge guide attachment for sewing machines. 2,952,227, 9-13-60, Cl. 112-143.
- Hale, Clarence A., to R. Y. Patterson. Relay. 2,942,078, 6-21-60, Cl. 200-104.
- Hale, Danforth R., and J. M. Jost, to Clevite Corp. Method of growing quartz single crystals and seed body therefor. 2,923,606, 2-2-60, Cl. 23-301.
- Hale, Douglas K.: See—  
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- Hale, Frank B., to United States of America, Air Force. Fuze. 2,947,256, 8-2-60, Cl. 102-79.
- Hale, George C.: See—  
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Audrieth, Ludwig F., and Hale. 2,929,699.
- Hale, Hayden E., to Shakespeare Products Co. Push button actuating mechanism. 2,932,213, 4-12-60, Cl. 74-479.
- Hale, Leonard D.: See—  
Stogner, Joel M., Hale, and McGuire. 2,954,961.
- Hale, Loren. Spray gun. 2,965,312, 12-20-60, Cl. 239-407.
- Hale, Nathan C. Adjustable manhole frame. 2,930,295, 3-29-60, Cl. 94-34.
- Hale, Owen W., to The Anderson Co. Windshield wiper blade assembly. 2,923,021, 2-2-60, Cl. 15-245.
- Hale, Presley E. Safety device for stoves. 2,926,656, 3-1-60, Cl. 124-42.
- Hale, Theodore A., and W. F. Morgan. Lawn edge trimmer. 2,946,172, 7-26-60, Cl. 56-25.4.
- Hale, William T., to Koppers Co., Inc. Sealing ring. 2,962,332, 11-29-60, Cl. 309-46.
- Hales, Everett B., to General Precision, Inc. Alternating current function generator. 2,937,330, 5-17-60, Cl. 322-36.
- Hales, Kenneth R., and H. E. Godshall, to Philco Corp. Semi-conductor units and methods of making them. 2,932,684, 4-12-60, Cl. 174-50.5.
- Haley, Alfred J., Jr.: See—  
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- Haley, Harold A., to American Viscose Corp. Processing of viscose rayon cakes containing polyacrylamide resin. 2,948,582, 8-9-60, Cl. 18-54.
- Haley, James C., to United States of America, Air Force. Explosion test sampling chamber. 2,937,530, 5-24-60, Cl. 73-432.
- Haley, John W. Cantilever spring suspension for tandem wheel trailer. 2,953,392, 9-20-60, Cl. 280-124.
- Haley, Joseph P. Rafter cut marking guide. 2,965,969, 12-27-60, Cl. 33-90.
- Haley, Kenneth M., and A. S. Henderson, to The Reserve Mining Co. Magnetic material feed control. 2,962,150, 11-29-60, Cl. 198-37.
- Haley, Theodore G. Sheet dispensing starter. 2,951,623, 9-6-60, Cl. 225-54.
- Halford, Charles W., Jr. Apparatus for producing animated effects. 2,937,564, 5-24-60, Cl. 88-16.
- Halford, Frank B., deceased (by A. H. Bentley, G. P. Bulman, and J. H. Bentley, executors), F. M. Owner, and G. F. Clarke, to The De Havilland Engine Co. Ltd. Adjustable propulsion nozzles. 2,926,489, 3-1-60, Cl. 60-35.6.
- Halford, Frank B., and G. F. Clarke, to The De Havilland Engine Co. Ltd. Stators of multi-stage axial flow compressors or turbines. 2,959,394, 11-8-60, Cl. 253-78.
- Halford, George W., to Gadget-Of-The-Month Club, Inc. Charcoal broiler. 2,923,229, 2-2-60, Cl. 99-339.
- Halfiter, George, and G. Koehler, to J. R. Gelgy, A.-G. Apparatus for automatic titration. 2,950,178, 8-23-60, Cl. 23-253.
- Halgren, John A., E. A. Solecki, and R. H. Pinkel, to International Harvester Co. Reduction of chloride salts in austempering quench baths. 2,931,745, 4-5-60, Cl. 148-28.
- Halifax Paper Co., Inc.: See—  
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- Halina, Joseph W., to D. E. Campbell. Coding and decoding system. 2,962,553, 11-29-60, 179-15.6.
- Halip, Nickolas J. Merchandise exhibitor. 2,920,767, 1-12-60, Cl. 211-175.
- Halip, Nickolas J. Display board and parts thereof. 2,920,768, 1-12-60, Cl. 211-183.
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- Halkey-Roberts Corp.: See—  
Lardner, George E. 2,942,614.
- Halkyard, Harold, to British Celanese Ltd. Yarn winding. 2,956,756, 10-18-60, Cl. 242-45.
- Hall, Arthur J. C., and J. G. Hayes, to Commonwealth of Australia, Crown Solicitor's Office. Producing scales, patterns and the like in glass. 2,927,042, 3-1-60, Cl. 117-38.
- Hall, Baird, to C. H. Dana Co., Inc. Device for identifying animals. 2,956,361, 10-18-60, Cl. 40-300.
- Hall, Buford C., Jr. Tape recorder indicator attachment. 2,944,750, 7-12-60, Cl. 242-55.12.
- Hall, Charles E.: See—  
Naeser, Howard J., Hall, and Bergvall. 2,942,308.
- Hall, Claude C., to Smith Kline & French Laboratories. Tablet counting machine. 2,930,509, 3-29-60, Cl. 221-265.
- Hall, Clifford F., to Sylvania Electric Products Inc. Electronic chassis construction. 2,960,633, 11-15-60, Cl. 317-101.
- Hall, Dallas P.: See—  
Hagedorn, Erwin C., and Hall. 2,965,503.
- Hall, Daniel L., to Deere & Co. Control apparatus. 2,935,890, 5-10-60, Cl. 74-471.
- Hall, Don F.: See—  
Chisholm, Douglas S., and Hall. 2,932,565.
- Hall, Donald A., to United States of America, Navy. System for synchronizing an event with a camera. 2,925,008, 2-16-60, Cl. 88-16.
- Hall, Edward O., and R. H. Bates, to Minneapolis-Honeywell Regulator Co. Electric current to air-pressure transducer. 2,927,593, 3-8-60, Cl. 137-85.
- Hall, Edwin A., to Indiana General Corp. Magnetic unloader and method. 2,957,281, 10-25-60, Cl. 51-134.
- Hall, Edwin J. and G. E. Traction drive assembly. 2,941,846, 6-21-60, Cl. 305-1.
- Hall, Elisha W., and A. S. Rock, to F. L. & J. C. Codman Co. Rotary finger buff. 2,920,428, 1-12-60, Cl. 51-193.5.
- Hall, Elmer D. Hydraulic method and apparatus for flexing stuck pipe in well bores. 2,939,531, 6-7-60, Cl. 166-55.
- Hall, Elmer D. Apparatus for freeing stuck pipe. 2,956,626, 10-18-60, Cl. 166-177.
- Hall, Everett, and J. H. Walsh, to Owens-Illinois Glass Co. Lift fork for stacking articles. 2,953,269, 9-20-60, Cl. 214-653.
- Hall, Fred B., Jr. Toy miniature bridge and overpass. 2,927,396, 3-8-60, Cl. 46-17.
- Hall, Fred F. Hydraulic hose line couplings. 2,922,662, 1-26-60, Cl. 284-4.
- Hall, Gardner V., to Pace Mfg. Co. Silk screen printing press. 2,936,705, 5-17-60, Cl. 101-123.
- Hall, Garrison K. Magazine for storage of strip material. 2,965,325, 12-20-60, Cl. 242-67.4.
- Hall, George E., Jr., to Wyandotte Chemicals Corp. Production of precipitated calcium carbonate. 2,964,382, 12-13-60, Cl. 23-66.
- Hall, George H.: See—  
Lamada, Ralph M., Jr., Whitehouse, Di Magglo, Hall, and Wood. 2,954,906.
- Hall, Gordon E.: See—  
Hall, Edwin J. and G. E. 2,941,846.
- Hall, Guy D. Fluid pressure sensing and feeding device. 2,940,469, 6-14-60, Cl. 137-495.
- Hall, Harry G.: See—  
Bisso, Louis A., and Hall. 2,939,011.
- Hall, Harry H., to American Viscose Corp. Substantially anhydrous oil base finish composition for fibrous hydrophobic cellulosic derivatives. 2,956,950, 10-18-60, Cl. 252-8.8.



- Hall, Howard T., to General Electric Co. High temperature high pressure apparatus. 2,941,242, 6-21-60, Cl. 18-16.5.
- Hall, Howard T., to General Electric Co. High temperature high pressure apparatus. 2,941,248, 6-21-60, Cl. 18-16.5.
- Hall, Howard T., to General Electric Co. Reaction vessel. 2,941,250, 6-21-60, Cl. 18-34.
- Hall, Howard T., to General Electric Co. Reaction vessel. 2,944,289, 7-12-60, Cl. 18-34.
- Hall, Howard T., to General Electric Co. Diamond synthesis. 2,947,608, 8-2-60, Cl. 23-209.1.
- Hall, Howard T., H. M. Strong, and R. H. Wentorf, Jr., to General Electric Co. Method of making diamonds. 2,947,610, 8-2-60, Cl. 23-209.1.
- Hall, Hugh. Container. 2,935,108, 5-3-60, Cl. 150-48.
- Hall, Hugh E., Jr., to Texaco Inc. Well logging systems. 2,922,889, 1-26-60, Cl. 250-83.6.
- Hall, Hugh J., to Varian Associates. Magnet apparatus. 2,947,920, 8-2-60, Cl. 317-158.
- Hall, Jack A. House and boat trailer. 2,942,744, 6-28-60, Cl. 214-500.
- Hall, James A., to Reynolds Metals Co. Evaporator restrictor. 2,949,746, 8-23-60, Cl. 62-56.
- Hall, James R., to Radio Corp. of America. Pulse distributor. 2,930,851, 3-29-60, Cl. 179-15.
- Hall, Jesse E., Sr. Multistage hydrafracturing process and apparatus. 2,927,638, 3-8-60, Cl. 166-42.
- Hall, Jewell M.: *See—*  
McCullough, Hugh S., Jr., and Hall. 2,965,334.
- Hall, John A.: *See—*  
Groves, Leonard H., Hall, and Roberts. 2,944,921.
- Hall, John L., J. M. Mergen, and D. A. Elliott, to Curtiss-Wright Corp. Jet engine speed and nozzle controls. 2,944,387, 7-12-60, Cl. 60-35.6.
- Hall, John L., and D. A. Elliott, to Curtiss-Wright Corp. Coordinated fuel and speed scheduling control for gas turbine engines. 2,960,826, 11-22-60, Cl. 60-39.28.
- Hall, John N., to E. I. du Pont de Nemours and Co. Yarn-treating apparatus. 2,958,112, 11-1-60, Cl. 28-1.
- Hall, Joseph. Door closing device. 2,953,810, 9-27-60, Cl. 16-52.
- Hall, Joseph. Door closing unit. 2,953,811, 9-27-60, Cl. 16-66.
- Hall, Kenneth J.: *See—*  
Cederlund, Albert, Hall, and Darwin. 2,961,008.
- Hall, Larry R. Livestock oiler. 2,964,011, 12-13-60, Cl. 119-157.
- Hall, Lawrence G., and W. M. Brubaker, to Bell & Howell Co. Formation of electrical fields. 2,945,124, 7-12-60, Cl. 250-41.9.
- Hall, Lawrence G., and G. D. Perkins, to Consolidated Electrodynamics Corp. Direct writing oscillograph. 2,963,335, 12-6-60, Cl. 346-74.
- Hall, Leo C.: *See—*  
Hultenius, Sture A., and Hall. 2,944,455.
- Hall, Lloyd A., to The Griffith Laboratories, Inc. Sterilization of hospital and physicians' supplies. 2,938,766, 5-31-60, Cl. 21-58.
- Hall, Lloyd M.: *See—*  
Jarvie, Alexander G., and Hall. 2,958,059.
- Hall, Malcolm S., to Fairbanks, Morse & Co. Self-priming pumping apparatus. 2,941,474, 6-21-60, Cl. 103-5.
- Hall, Marchand B., and A. L. Winkler, to Acme Steel Co. Conveyor for packages. 2,943,558, 7-5-60, Cl. 100-1.
- Hall, Marchand B., and R. E. Fogg, to Acme Steel Co. Strap stretching device. 2,964,295, 12-13-60, Cl. 254-51.
- Hall, Maynard.: *See—*  
Luzader, Gilbert B., and Hall. 2,927,064.
- Hall, Ralph, E. L. Smith, and G. D. Hiker, to Phelps Dodge Copper Products Corp. Friction magnet wire. 2,935,427, 5-3-60, Cl. 117-218.
- Hall, Ralph N., to Allied Chemical Corp. Purification of aqueous liquors containing phenol. 2,928,882, 3-15-60, Cl. 260-627.
- Hall, Robert N., to General Electric Co. Base connection for N-P-N junction transistor. 2,922,934, 1-26-60, Cl. 317-235.
- Hall, Robert N., to General Electric Co. Semiconductor devices. 2,936,256, 5-10-60, Cl. 148-33.
- Hall, Robert T., to Kelsey-Hayes Co. Checking device. 2,929,147, 3-22-60, Cl. 33-174.
- Hall, Ronald H.: *See—*  
Hawley, Henry B., and Hall. 2,935,503.
- Hall, Russell S., and D. Johnson, to General Motors Corp. Turbofan-ramjet engine. 2,952,973, 9-20-60, Cl. 60-35.6.
- Hall, Stephen K. Portable equatorial sundial. 2,963,790, 12-13-60, Cl. 33-62.
- Hall, Thomas R., to McCabe-Powers Body Co. Articulated aerial ladder. 2,936,848, 5-17-60, Cl. 182-46.
- Hall, Victor C., to Snyder Tool & Engineering Co. Capsule handling machine. 2,962,851, 12-6-60, Cl. 33-198.
- Hall, Wade E., to Armstrong Cork Co. Method of forming fine polyethylene powders. 2,945,020, 7-12-60, Cl. 260-94.9.
- Hall, Wilbur S., to Amchem Products, Inc. Process and composition for treating metal to increase corrosion resistance. 2,921,858, 1-19-60, Cl. 106-14.
- Hall, William B., to United Kingdom Atomic Energy Authority. Heat transfer systems. 2,965,555, 12-20-60, Cl. 204-193.2.
- Hall, William D. Control device for fans. 2,944,168, 7-5-60, Cl. 307-117.
- Hall, William G.: *See—*  
Decker, Richard O., and Hall. 2,962,602.
- Hall, William J., to W. Steel & Co. Ltd. Folding beds. 2,950,485, 8-30-60, Cl. 5-4.
- Hall, William R. Adjustable multiple V-belt pulley control mechanism. 2,953,033, 9-20-60, Cl. 74-230.17.
- Hallahan, Gerald B. Indexing table and control therefor. 2,959,074, 11-8-60, Cl. 74-821.
- Hallam, Thomas B., B. H. Jones, and G. H. Kidd, to The Sperry Gyroscope Co. Ltd. Article handling machine. 2,926,770, 3-1-60, Cl. 198-21.
- Hallden, Frederick C., to Hazeltine Research, Inc. Binary adding circuit. 2,933,253, 4-19-60, Cl. 235-176.
- Hallden, Frederick C., and C. J. Hirsch, to Hazeltone Research, Inc. Repeater system. 2,961,616, 11-22-60, Cl. 330-207.
- Hallden, Karl W., to The Hallden Machine Co. Balanced-torque drive of a rotary system at cyclically continuously varying velocity. 2,933,940, 4-26-60, Cl. 74-437.
- Hallden Machine Co.: *See—*  
Angham, James D., and Brewer. 2,957,363.
- Hallden, Karl W. 2,933,940.
- Halle, Mitchell J., and G. D. Bowne, to Sylvania Electric Products Inc. Fluxless solder seal. 2,942,328, 6-28-60, Cl. 29-25.3.
- Hallén, Alf E. Mast constructions. 2,929,515, 3-22-60, Cl. 212-3.
- Hallenbeck, Emerson J. Mower with independently manipulated cutting head. 2,957,294, 10-25-60, Cl. 56-25.4.
- Hallenbeck, Roy E., Jr., to Pace, Inc. Thermoresponsive switch means. 2,944,130, 7-5-60, Cl. 200-136.5.
- Hallenius, Nils R., to Christian Berner, Aktiebolag. Stacking machines and vertical conveyors. 2,931,524, 4-5-60, Cl. 214-95.
- Hallerberg, Theodore W. Parachute actuator. 2,953,063, 9-20-60, Cl. 89-1.
- Halley, Angus M., to James Halley & Sons Ltd. Air heating device for incorporation in printing apparatus. 2,941,062, 6-14-60, Cl. 219-39.
- Halley, James, & Sons Ltd.: *See—*  
Halley, Angus M. 2,941,062.
- Halley, James W.: *See—*  
Tenenbaum, Michael, Halley, and Luerksen. 2,947,622.
- Halley, James W., to Inland Steel Co. Iron ore reduction process. 2,919,983, 1-5-60, Cl. 75-38.
- Hallgren, Charles G., to National Lock Co. Play pen latch. 2,929,094, 3-22-60, Cl. 16-144.
- Halliburton Oil Well Cementing Co.: *See—*  
Brown, Thomas L., and Hulme. 2,925,573.
- Copland, George V., Love, and Pittman. 2,960,861.
- Evans, Robert T. 2,946,388.
- Hyde, Walter E. 2,947,361.
- Maly, Joe W. 2,922,478.
- Medford, Erskine L., Jr. 2,961,047.
- Mihram, Russell G., and Garrett. 2,951,535.
- Moeller, Robert E., and Stogner. 2,961,046.
- Oliver, Owen N. 2,925,865.
- Schwegman, Harry E. 2,919,709.
- Stogner, Joel M., Hale, and McGuire. 2,954,961.
- Stogner, Joel M., Brown, and McGuire. 2,961,045.
- Stogner, Joel M., and McGuire. 2,955,654.
- Waggoner, Homer F. 2,929,729.
- Halliday, John E., Jr., and M. H. Faust. Method of knitting a combination pantie girdle. 2,952,149, 9-13-60, Cl. 66-177.
- Halliday, Kenneth C., Jr., to United States of America, Army. Ignition system for rocket motors. 2,949,006, 8-16-60, Cl. 60-35.4.
- Halliday, William, and F. P. Youell, to Kelvin & Hughes Ltd. Magnetostrictive transducers. 2,930,911, 3-29-60, Cl. 310-26.
- Halliday, William, and R. W. G. Haslett. Apparatus for training operators to work from unstable positions. 2,940,182, 6-14-60, Cl. 35-25.
- Halligan, Eugene P., to Nye Tool Co. Die head. 2,962,140, 11-29-60, Cl. 192-43.2.
- Hallinan, William W., to Holly Mfg., Inc. Automatic floor drain shut-off valves. 2,965,126, 12-20-60, Cl. 137-410.
- Hallisey, William A. Land leveling computing device. 2,928,176, 3-15-60, Cl. 33-1.
- Hallman, Edward C., to Joy Mfg. Co. Reversible extensible belt conveyor. 2,925,901, 2-23-60, Cl. 198-139.
- Hallman, Harold T.: *See—*  
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- Hallman, Russell H., to Vickers Inc. Power transmission. 2,962,971, 12-6-60, Cl. 103-42.
- Hallmann, Günther, to BYK-Gulden Lomberg Chemische Fabrik G.m.b.H. 3,4,6-trioxo hexanhydripyridazine compounds, and a process of making same. 2,931,811, 4-5-60, Cl. 260-250.
- Hallmann, Günther, to Byk-Gulden Lomberg Chemische Fabrik G.m.b.H. Process for the preparation of magnesium aluminate hydrate, and therapeutic agents so produced. 2,923,660, 2-2-60, Cl. 167-55.
- Hallmark Cards, Inc.: *See—*  
Campbell, Ernest C., Jr. 2,954,573.
- Wrob, Ronald M., Carlson, and Stephens. 2,943,560.
- Hallock, Goldwin M. T. Safety chain connection for trailer hitch. 2,954,988, 10-4-60, Cl. 280-457.
- Halloran, Aaron J. Golf practice device. 2,926,919, 3-1-60, Cl. 273-185.



- Hallstein, Robert S., to Thatcher Glass Mfg. Co., Inc. Filling device. 2,938,551, 5-31-60, Cl. 141—227.
- Hallstrom, Gustave A.: See—
- Andrus, Budd W., and Hallstrom. 2,966,182.
- Hallstrom, Olof A., Jr. Diaphragm pump and milk transfer apparatus. 2,934,024, 4-26-60, Cl. 103—152.
- Hallworth, Robert, to Henry Simon Ltd. Air separation devices. 2,936,885, 5-17-60, Cl. 209—36.
- Halo Lighting Products, Inc.: See—
- Fremont, Robert S. 2,935,602.
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- Asp, Howard L. 2,951,721.
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- Haloid Xerox Inc.: See—
- Bickmore, John T., and Hoffman. 2,965,754.
- Bogdonoff, Harold. 2,955,531.
- Burris, William J., Huber, and Kaiser. 2,965,136.
- Byrne, John F. 2,951,443.
- Byrne, John F. 2,965,483.
- Carlson, Chester F. 2,922,230.
- Carlson, Chester F. 2,928,575.
- Carlson, Chester F. 2,940,934.
- Carlson, Chester F., and Bogdonoff. 2,955,052.
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- Dessauer, John H. 2,962,374.
- Dessauer, John H., Gundlach, and Mott. 2,965,482.
- De Witt, Richard N. 2,934,650.
- Ebert, James P. 2,932,742.
- Eichler, Rolf W. 2,965,868.
- Eichler, Rolf W., Eichorn, and Rutkus. 2,945,434.
- Gundlach, Robert W. 2,949,849.
- Gundlach, Robert W. 2,965,481.
- Gundlach, Robert W. 2,965,573.
- Hayford, Richard E., and Kaiser. 2,965,069.
- Huber, Charles L. 2,935,234.
- Kurz, Philip F. 2,952,536.
- Mott, George R. 2,949,848.
- Ricker, Eugene C. 2,943,950.
- Rosenthal, Joseph F. 2,940,358.
- Rutkus, John, Jr., Shepardson, and Wolfe. 2,965,266.
- Schaffert, Roland M. 2,962,375.
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- Schwartz, Frederick A. 2,919,967.
- Steinhilper, Frank A. 2,955,938.
- Van Dorn, Warren G., and Ulrich. 2,937,944.
- Vyverberg, Robert G. 2,965,756.
- Walkup, Lewis E. 2,934,649.
- Walkup, Lewis E. 2,937,943.
- Walkup, Lewis E., and Bixby. 2,955,035.
- Haloski, Frank, to Vacuum Can Co. Portable thermal food container. 2,960,250, 11-15-60, Cl. 220—17.
- Halpern, Benjamin D., and W. Karo, to The Borden Co. Ternary polymers of trifluoroethyl acrylate, acrylonitrile, and an ester of acrylic acid. 2,947,732, 8-2-60, Cl. 260—80.5.
- Halpern, Benjamin D., and W. Karo, to The Borden Co. Copolymer of 2,2,2-trifluoroethyl acrylate and vinylidene chloride. 2,947,734, 8-2-60, Cl. 260—86.3.
- Halpern, Benjamin D., and W. Karo, to The Borden Co. Fungus-resistant elastomer. 2,951,830, 9-6-60, Cl. 260—79.5.
- Halpern, Benjamin D., W. Karo, and P. Levine, to Monomer-Polymer, Inc. N-alkylated fluorinated acrylamide monomers. 2,957,914, 10-25-60, Cl. 260—561.
- Halpern, Benjamin D., and R. B. Dean, to The Borden Co. Trace element fertilizer. 2,958,594, 11-1-60, Cl. 71—1.
- Halperin, Jack S. Changeable display sign. 2,961,788, 11-29-60, Cl. 40—137.
- Halpern, Joseph: See—
- Beinfest, Sidney, Adams, and Halpern. 2,934,559.
- Halpern, Joseph, to Berkeley Chemical Corp. Preparation of mucochloric anhydride. 2,957,026, 10-18-60, Cl. 260—546.
- Halpern, Otto, to United States of America, Navy. Method and means for minimizing reflection of high-frequency radio waves. 2,923,934, 2-2-60, Cl. 343—18.
- Halpern, Otto, to United States of America, Navy. Reflecting surface and microwave absorptive layer. 2,954,552, 9-27-60, Cl. 343—18.
- Halpern, Otto, and M. H. Johnson, to United States of America, Navy. Absorbent for electromagnetic waves. 2,951,246, 8-30-60, Cl. 343—18.
- Halpern, Otto, M. H. Johnson, Jr., and R. W. Wright, to United States of America, Navy. Isotropic absorbing layers. 2,951,247, 8-30-60, Cl. 343—18.
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- Halpert, David, to Vertol Aircraft Corp. Electroplating titanium and titanium alloys. 2,921,888, 1-19-60, Cl. 204—32.
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- Lease, Clarence E., and Halse. 2,950,146.
- Halstead, John H. Vehicle lifting apparatus. 2,949,978, 8-23-60, Cl. 187—8.75.
- Halstead, John H. Automatic safety leg. 2,956,643, 10-18-60, Cl. 187—8.49.
- Halstead, John H. Adjustable frame assembly for lifts. 2,956,645, 10-18-60, Cl. 187—8.67.
- Haltenberger, Jules. Free piston engine. 2,948,269, 8-9-60, Cl. 123—46.
- Halter, Allan C.: See—
- Gladnick, Irvin J., and Halter. 2,941,121.
- Halter, Ludwig. Chair for hydrotherapeutic treatment. 2,944,592, 7-32-60, Cl. 155—28.
- Halvorson, Gaylord H., to United States Steel Corp. Method of beneficiating, reducing and briquetting iron ore. 2,944,884, 7-12-60, Cl. 75—33.
- Halvorson Products Mfg. Co.: See—
- Smith, Daniel W. 2,920,888.
- Halvorson Trees, Inc.: See—
- Holmes, Carlton A., and Madsen. 2,928,633.
- Halward, Folke, to Detroit Mold Engineering Co. Unit die cast dies. 2,956,321, 10-18-60, Cl. 22—68.
- Ham, George E., to The Chemstrand Corp. Method of purifying aromatic dicarboxylic acids. 2,949,483, 8-16-60, Cl. 260—516.
- Ham, James H., Jr., H. J. Hershey, L. A. Hohmann, Jr., and F. W. Kinsman, to Bell Telephone Laboratories, Inc. Magnetic drum repertory dialer. 2,941,043, 6-14-60, Cl. 179—90.
- Hamachek, Frank B., III: See—
- Buell, Warren M., and Hamachek. 2,964,071.
- Hamada, Toshio: See—
- Sasaki, Yozo, and Hamada. 2,924,573.
- Hamai, Jiro. Apparatus for grinding a drill. 2,926,462, 3-1-60, Cl. 51—72.
- Hamaker, John D.: See—
- Humphrey, I. J., and Hamaker. 2,954,175.
- Haman, James P., to Wholorange Corp. Process of preserving the fresh flavor of citrus fruits. 2,935,407, 5-3-60, Cl. 99—100.
- Hamann-Rechenmaschinen: See—
- Hornauer, Gunter. 2,940,664.
- Hambach, August J., and J. Van Caneghem, to Horace L. Smith, Jr., Inc. Yarn winding apparatus. 2,964,261, 12-13-60, Cl. 242—158.2.
- Hambleton, George E.: See—
- Brand, Frank A., and Hambleton. 2,926,312.
- Hambling, Stewart K., to The Standard Motor Co. Ltd. Gas turbine power plant. 2,946,192, 7-26-60, Cl. 60—39.51.
- Hambling, Stewart K., to The Standard Motor Co. Ltd. Gas turbine power plant. 2,949,731, 8-23-60, Cl. 60—6.
- Hamburgen, Arthur: See—
- Greanias, Evon C., Hamburgen, and Leimer. 2,959,769.
- Hamburger, Joseph: See—
- Taubenslag, Morris J., Goulden, and Hamburger. 2,942,147.
- Hamel, Armand D., and J. V. Cloutier. Core squeezer. 2,956,485, 10-18-60, Cl. 93—83.
- Hamel, Edmund. Reversible spindle drive for textile machine. 2,946,178, 7-26-60, Cl. 57—100.
- Hamel, Edmund. Stop motion. 2,951,331, 9-6-60, Cl. 57—84.
- Hamelink, William B., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,924,720, 2-9-60, Cl. 250—83.6.
- Hamer, Leland S., to Chiksan Co. Visible wedge valve. 2,931,394, 4-5-60, Cl. 138—94.5.
- Hamer, Leland S., to Chiksan Co. Fast operating plate valve. 2,946,349, 7-26-60, Cl. 138—94.3.
- Hamer, Martin, to Standard Oil Co. Distillate fuel composition. 2,938,776, 5-31-60, Cl. 44—69.
- Hamerstrand, George E.: See—
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- Hamill-Markus Industries, Inc.: See—
- Randol, Glenn T. 2,931,180.
- Randol, Glenn T. 2,959,011.
- Hamilton, Alan G.: See—
- Bjarnow, Fred B., Cichelli, and Hamilton. 2,939,760.
- Hamilton, Allen R., to Consolidated Vacuum Corp. Automatic control circuit. 2,938,387, 5-31-60, Cl. 73—399.
- Hamilton, Allen R., to Consolidated Vacuum Corp. Automatic interrupter circuit. 2,947,918, 8-2-60, Cl. 317—152.
- Hamilton, Andrew, to Metropolitan-Vickers Electrical Co. Ltd. Electrical spark-over protective devices. 2,960,632, 11-15-60, Cl. 317—69.
- Hamilton, Arthur R., 1/2 to F. B. Kiger. Ampule filling and sealing machine. 2,961,815, 11-29-60, Cl. 53—266.
- Hamilton, Bertis F., deceased (W. S. Hamilton, executor), and E. F. and W. S. Hamilton, to Hamilton Mfg. Corp. Article of furniture. 2,943,671, 7-5-60, Cl. 155—112.
- Hamilton Caster & Mfg. Co., The: See—
- Armentrout, Joseph V. 2,950,126.
- Hamilton, Charles M., E. W. Hine, II, and G. D. Flaith, to Proctor & Schwartz, Inc. Method for bulking tobacco. 2,933,090, 4-19-60, Cl. 131—140.
- Hamilton, Charles R., to United States of America, Army. Fuze safety device. 2,921,526, 1-19-60, Cl. 102—79.
- Hamilton, Clark B., and L. A. Pickle, to Worthington Corp. Jet ejector lubricant return means for a refrigeration compressor. 2,956,730, 10-18-60, Cl. 230—58.
- Hamilton, Clark H. Syringe. 2,933,087, 4-19-60, Cl. 128—218.
- Hamilton Cosco, Inc.: See—
- Hamilton, Earl F. 2,942,654.
- Hamilton, Earl F. 2,948,332.



- Hamilton, Donald A., to Don Baxter, Inc. Puncture point. 2,954,768, 10-4-60, Cl. 128-221.
- Hamilton, Douglas J., to Hughes Aircraft Co. Sawtooth voltage generator. 2,957,090, 10-18-60, Cl. 307-88.5.
- Hamilton, Earl F.: *See—*
- Hamilton, Bertis F., E. F., and W. S. 2,943,671.
- Hamilton, Earl F., to Hamilton Cosco, Inc. Chair. 2,942,654, 6-28-60, Cl. 155-194.
- Hamilton, Earl F., to Hamilton Cosco, Inc. Folding chair. 2,948,332, 8-9-60, Cl. 115-142.
- Hamilton, Edward R., and C. T. Fornstrom, to United States Lift Slab Corp. Anchoring structure for building slabs. 2,930,220, 3-29-60, Cl. 72-1.
- Hamilton, Edwin W. Amusement rides. 2,965,375, 12-20-60, Cl. 272-7.
- Hamilton, Eugene P.: *See—*
- Greene, George B., Hill, Hamilton, Bennett, and Steed. 2,936,118.
- Rinder, Robert M., Walsh, Hamilton, Hill, Cotey, Greene, and Bennett. 2,927,732.
- Hamilton, Fitzhugh L., Jr., to United States of America, Air Force. Relay control circuit for aircraft trim tab control. 2,934,291, 4-26-60, Cl. 244-82.
- Hamilton, Francis E., E. S. Hughes, Jr., and W. K. Lind, to International Business Machines Corp. Data storage and processing machine. 2,959,351, 11-8-60, Cl. 235-153.
- Hamilton, George, and R. M. Wood, to Sylvania Electric Products Inc. Manufacture of junction transistors. 2,942,568, 6-28-60, Cl. 113-99.
- Hamilton, George A., and R. T. Marette, to The Weatherhead Co. Rocket release mechanism. 2,940,363, 6-14-60, Cl. 89-1.7.
- Hamilton, James O., to Bell Telephone Laboratories, Inc. Reflex klystron. 2,954,498, 9-27-60, Cl. 315-5.19.
- Hamilton, James P.: *See—*
- Wilckens, Eibe A., Rainer, Germak, Hamilton, and Redding. 2,936,005.
- Wilckens, Eibe, Rainer, Germak, Hamilton, and Redding. 2,937,404.
- Hamilton, John A. Fishline attachment. 2,924,907, 2-16-60, Cl. 43-43.13.
- Hamilton, Joseph C., to Owens-Illinois Glass Co. Apparatus for severing cast material. 2,957,223, 10-25-60, Cl. 25-107.
- Hamilton, Joseph R., to Lynch Corp. Timer for glassware forming machines and the like. 2,924,103, 2-9-60, Cl. 74-2.
- Hamilton, Joseph R., to Lynch Corp. Mold holder and finish ring holder locking means. 2,942,382, 6-28-60, Cl. 49-9.
- Hamilton, Lonie W., Jr., and W. F. Johnston, Jr., to The American Oil Co. Alkylation process. 2,960,553, 11-15-60, Cl. 260-683.53.
- Hamilton, Lyle A., and R. H. Williams, to Socony Mobil Oil Co., Inc. Synthesis of compounds having a carbon-phosphorus linkage. 2,957,931, 10-25-60, Cl. 260-403.
- Hamilton Mfg. Co.: *See—*
- Hamilton, Bertis F., E. F., and W. S. 2,943,671.
- Hiers, Victor H. 2,937,416.
- Hiers, Victor H. 2,928,696.
- Hiers, Victor H., and Kanzelberger. 2,931,128.
- Homme, John E. 2,949,154.
- Kanzelberger, Claude G., and Hiers. 2,924,299.
- Paulsen, Paul L. 2,928,703.
- Schaefer, George E. 2,945,270.
- Hamilton, Norl A., to Olin Mathieson Chemical Corp. Ammonium nitrate explosive. 2,932,251, 4-12-60, Cl. 102-24.
- Hamilton, Raymond J. Tractor unit coupling for trailers. 2,925,135, 2-16-60, Cl. 180-12.
- Hamilton, Robert W., to Magee-Hale Park-O-Meter Co. Selective automatic parking meter. 2,963,136, 12-6-60, Cl. 194-72.
- Hamilton, Sanborn. Remote question-answer apparatus. 2,921,385, 1-19-60, Cl. 35-9.
- Hamilton, Sanborn. Aircraft control by thrust producers. 2,943,822, 7-5-60, Cl. 244-77.
- Hamilton-Skotch Corp.: *See—*
- Piker, Herbert M. 2,920,795.
- Hamilton Tool Co., The: *See—*
- Grove, James E., and De Lano. 2,961,899.
- Hamilton, Wallace: *See—*
- Lovell, Jack, and Hamilton. 2,943,589.
- Hamilton, Wallace, to Cleveland Pneumatic Industries, Inc. Vehicle with elevating platform. 2,926,798, 3-1-60, Cl. 214-130.
- Hamilton, Wallace, to Cleveland Pneumatic Industries, Inc. Aircraft steering mechanism. 2,930,548, 3-29-60, Cl. 244-50.
- Hamilton, Wallace, to Cleveland Pneumatic Industries, Inc. Hatchcover actuation mechanism. 2,938,579, 5-31-60, Cl. 160-188.
- Hamilton, Wallace, to Cleveland Pneumatic Industries, Inc. Sealing connector. 2,943,760, 7-5-60, Cl. 220-75.
- Hamilton, Wallace, to Cleveland Pneumatic Industries, Inc. Exhaust pressure control system. 2,955,576, 10-11-60, Cl. 121-44.
- Hamilton Watch Co.: *See—*
- Biemiller, Philip E. 2,923,123.
- Biemiller, Philip E. 2,924,728.
- Biemiller, Philip E. 2,936,571.
- Biemiller, Philip E., and Reese. 2,954,664.
- Biemiller, Philip E., Reese, and Detwiler. 2,954,663.
- Biemiller, Philip E., and Van Horn. 2,936,572.
- Biemiller, Philip E., and Walmer. 2,966,622.
- Derr, Kenneth W., and Haus. 2,938,328.
- Detwiler, Harry S. 2,954,662.
- Fechter, Edward C. 2,934,862.
- Fritsch, Daniel. 2,926,534.
- Jackson, Roderick M. 2,928,034.
- Jackson, Roderick M. 2,954,642.
- Kempf, Walter R. 2,937,222.
- Kempf, Walter R., and Rhyne. 2,951,891.
- Koehler, Fred. 2,924,932.
- Koehler, Fred. 2,956,142.
- Reese, James H., and Detwiler. 2,952,117.
- Rueger, Herman. 2,952,118.
- Schoenrock, Kenneth H. 2,942,410.
- Torres, Joseph H. 2,940,588.
- Van Horn, John A., Biemiller, and Reese. 2,948,821.
- Van Horn, John A., Biemiller, and Reese. 2,953,896.
- Hamilton, Weber L.: *See—*
- Ranney, Kenneth W., Thielemeyer, Hamilton, and Ranney. 2,937,947.
- Hamilton, William F.: *See—*
- Street, John N., and Hamilton. 2,921,125.
- Street, John N., and Hamilton. 2,921,126.
- Hamilton, William L., to Baldwin-Lima-Hamilton Corp. Vibratory compactor. 2,938,438, 5-31-60, Cl. 94-48.
- Hamilton, William S.: *See—*
- Hamilton, Bertis F., W. S., E. F., and W. S. 2,943,671.
- Hamlet, John C.: *See—*
- Green, George F. H., Hamlet, and Long. 2,945,027.
- Hamlett, Sidney J., to White Sewing Machine Corp. Bobbin winding mechanism. 2,943,586, 7-5-60, Cl. 112-218.
- Hamlin, Bess E.: *See—*
- Hamlin, Jerry F., and Newman. 2,930,503.
- Hamlin, Carl B., to AMP Inc. Method for increasing the diameter of thermoplastic tubing. 2,936,491, 5-17-60, Cl. 18-56.
- Hamlin, Jerry F.: *See—*
- Hamlin, Jerry F., and Newman. 2,930,503.
- Lindstaedt, Frank F., Hamlin, and Call. 2,960,798.
- Hamlin, Jerry F., and L. Newman.  $\frac{1}{2}$  to J. F. Hamlin,  $\frac{1}{2}$  to R. M. Cuykendall,  $\frac{1}{2}$  to M. Cuykendall,  $\frac{1}{2}$  to B. E. Hamlin,  $\frac{1}{2}$  to Louise Newman, and  $\frac{1}{2}$  to Louis Newman. Rivet and mandrel assembly. 2,930,503, 3-29-60, Cl. 218-28.
- Hamm, Clarence L., and W. Widlansky, to General Electric Co. Compensated seal. 2,943,873, 7-5-60, Cl. 286-11.11.
- Hamman, Denver C., to Illinois Tool Works. Preassembled fastener unit adapted for use with soft material. 2,929,426, 3-22-60, Cl. 151-41.73.
- Hamman, Denver C., to Illinois Tool Works. Molding clip. 2,961,723, 11-29-60, Cl. 24-73.
- Hamman, Lyle J., to Eaton Stamping Co. Engine starter. 2,926,648, 3-1-60, Cl. 123-179.
- Hammann, William C., to Monsanto Chemical Co. Pyridazines. 2,945,857, 7-19-60, Cl. 260-250.
- Hammar, Carl W. Fluid drive for vehicles. 2,954,834, 10-4-60, Cl. 180-66.
- Hammar, Gustaf W., deceased (by L. B. Hammar, executrix), and C. F. Gramm, to United States of America, Navy. Infrared viewer. 2,958,802, 11-1-60, Cl. 313-101.
- Hammar, Louise B.: *See—*
- Hammar, Gustaf W., and Gramm. 2,958,802.
- Hammer, James R., Jr., J. E. Smith, and W. V. Goffort. Blasting mats. 2,926,605, 3-1-60, Cl. 102-22.
- Hammell, Allan K., to Minneapolis-Honeywell Regulator Co. Automatic pilot. 2,955,781, 10-11-60, Cl. 244-76.
- Hammell, Kemper M., to AMP Inc. Electrical connectors. 2,945,206, 7-12-60, Cl. 339-276.
- Hammell, Kemper M., to AMP Inc. Impact tool for making connections. 2,962,807, 12-6-60, Cl. 29-254.
- Hammer, Edmond W., Jr., to United States of America, Army. Tilt tray. 2,933,020, 4-19-60, Cl. 89-45.
- Hammer, Emily I.: *See—*
- Merriam, Frederic C., and Hammer. 2,949,443.
- Hammer, Henry F., and V. R. Ciccone, to Chas. Pfizer & Co., Inc. Tannate candy making, and product. 2,963,404, 12-6-60, Cl. 167-82.
- Hammer, George N., and K. L. Uhland, to E. I. du Pont de Nemours and Co. Polymerization catalyst residue removal process. 2,928,815, 3-15-60, Cl. 260-93.7.
- Hammer, James P., to International Business Machines Corp. Process for converting glow discharge tubes to photoelectric tubes. 2,947,590, 8-2-60, Cl. 316-9.
- Hammer, Lee R.: *See—*
- Venditty, Anthony, and Hammer. 2,928,390.
- Hammer, Oscar H., to The Dow Chemical Co. Parasiticide composition of reduced phytotoxicity. 2,944,935, 7-12-60, Cl. 167-30.
- Hammer, Thomas, to Mayflower Electronics Corp. Heating panel. 2,961,522, 11-22-60, Cl. 219-19.
- Hammerly, Herman J.: *See—*
- Miller, Nairn L., and Hammerly. 2,922,004.
- Hammerly, Herman J., and H. A. Nadeau, to General Electric Co. Circuit breaker. 2,953,661, 9-20-60, Cl. 200-88.
- Hammerling, Franz. Tenoning attachment for table saws. 2,941,556, 6-21-60, Cl. 144-198.



- Hammerschlag, Leon G.: *See*—  
Murphy, Harold G. 2,933,965.
- Hammerschmidt, George: *See*—  
Bell, Angus S., Krause, and Hammerschmidt. 2,959,793.
- Hammersley, Stephen H. Detachable collars for garments. 2,920,328, 1-12-60, Cl. 2-98.
- Hammesfahr, Willy, to Firma Gebr. Happich G.m.b.H. Ash-trays for vehicles. 2,944,865, 7-12-60, Cl. 312-341.
- Hamminck, Niles H., to The Scott & Fetzer Co. Dust collector bag cleaning means. 2,948,354, 8-9-60, Cl. 183-60.
- Hammitt, Andrew B., and H. L. Birum, Jr. Structural element. 2,934,180, 4-26-60, Cl. 189-34.
- Hammock, Branch R.: *See*—  
Browning, Herbert M., and Hammock. 2,938,625.
- Hammock, Carl E., Sr. Hydraulic steering apparatus for outboard motorboats. 2,939,417, 6-7-60, Cl. 114-150.
- Hammon, Otto: *See*—  
Kent, Francis J., Hammon, and Vogel. 2,963,151.
- Hammond, Donald L.: *See*—  
Stanley, Joseph M., Theokritoff, Gerber, Chi, and Hammond. 2,944,027.
- Hammond Iron Works: *See*—  
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- Hammond, Jane. Pan greasing device. 2,927,335, 3-8-60, Cl. 15-136.
- Hammond, Jerry J., and G. B. Morse. Music stand. 2,952,485, 9-13-60, Cl. 287-58.
- Hammond, John H., Jr.: *See*—  
Chaffee, Emory L. 2,932,021.
- Hammond, John H., Jr., and E. L. Chaffee, said Chaffee, assor. to said Hammond, Jr. Television reconnaissance system. 2,931,857, 4-5-60, Cl. 178-6.5.
- Hammond, John H., Jr., and E. L. Chaffee, said Chaffee, assor. to said Hammond, Jr. Television reconnaissance system. 2,931,858, 4-5-60, Cl. 178-6.7.
- Hammond, John H., Jr., and E. S. Purington, said Purington assor. to said Hammond, Jr. Secrecy television. 2,961,481, 11-22-60, Cl. 178-5.1.
- Hammond, John V. Drinking cup for cages. 2,931,334, 4-5-60, Cl. 119-18.
- Hammond, John V. Conveyor. 2,933,178, 4-19-60, Cl. 198-203.
- Hammond Laundry-Cleaning Machinery and Supply Co. Inc.: *See*—  
Winslow, Fred H. 2,931,505.
- Hammond, Laurens, to Hammond Organ Co. Artificial reverberation control apparatus. 2,949,805, 8-23-60, Cl. 84-124.
- Hammond, Laurens, J. M. Hanert, and D. R. Kern, to Hammond Organ Co. Means for binaural hearing. 2,942,070, 6-21-60, Cl. 179-100.1.
- Hammond, Lee C.: *See*—  
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- Hammond Machinery Builders, Inc.: *See*—  
Bass, Miles M., Bell, Hammond, and Robischung. 2,922,258.
- Robischung, Philip J. 2,919,522.
- Robischung, Philip J. 2,935,824.
- Hammond Organ Co.: *See*—  
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- Hammond, Laurens, Hanert, and Kern. 2,942,070.
- Hanert, John M. 2,922,329.
- Hanert, John M. 2,933,004.
- Hanert, John M. 2,937,556.
- Hanert, John M. 2,951,412.
- Hanert, John M. 2,953,055.
- Hanert, John M. 2,953,056.
- Hanert, John M., and Kern. 2,928,306.
- Hammond, R. Philip, and L. D. P. King, to United States of America, Atomic Energy Commission. Convection reactor. 2,929,767, 3-22-60, Cl. 204-193.2.
- Hammond, Richard F.: *See*—  
Spicer, Hugh C., and Hammond. 2,933,633.
- Hammond, Roland P. Train couplings. 2,922,531, 1-26-60, Cl. 213-62.
- Hammond, Roland P., H. M. Busey, and W. R. Wykoff, to United States of America, Atomic Energy Commission. High temperature, high power heterogeneous nuclear reactor. 2,940,915, 6-14-60, Cl. 204-154.2.
- Hammond, S. Duane: *See*—  
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- Hammond, Wardlaw M., Jr., to The Martin Co. Air vehicle. 2,947,495, 8-2-60, Cl. 244-3.
- Hamor, Glenn H. 2-sulfamoylbenzoic acid esters. 2,946,815, 7-26-60, Cl. 260-470.
- Hampden Specialty Products, Inc.: *See*—  
Panice, Richard L. 2,949,155.
- Panice, Richard L. 2,964,099.
- Hampe, Friedrich: *See*—  
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- Hampel, Herbert J.: *See*—  
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- Hampf, Edwin F., to Aktiebolaget Harbor. Conveyors. 2,919,791, 1-5-60, Cl. 198-139.
- Hampl, Walter. Tensioning stirrup for lower aprons of drawing systems in textile spinning machines. 2,944,299, 7-12-60, Cl. 19-131.
- Hampshire, William J., to Goodyear Aircraft Corp. Method and apparatus for spraying a mixture of fibers and resin material. 2,929,436, 3-22-60, Cl. 154-1.
- Hampson, George C.: *See*—  
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- Hampton, Andrew T.: *See*—  
Galba, Edward P., Slate, Hampton, and Slate. 2,953,176.
- Hampton, Edward L.: *See*—  
McLarny, Frank R., and Hampton. 2,950,893.
- Hampton, George L.: *See*—  
Barney, Walter. 2,931,953.
- Hampton, Robert S., and W. Josephian, to Lox Equipment Co. Support means for the movable end of a vessel. 2,925,934, 2-23-60, Cl. 220-15.
- Hampton, Robert S., and W. Josephian, to Lox Equipment Co. Vessel support structure. 2,952,380, 9-13-60, Cl. 220-15.
- Hampton, Thomas K.: *See*—  
Porkert, Lloyd G. 2,955,427.
- Porkert, Lloyd G. 2,962,974.
- Hampton, William C., to American Instrument Co., Inc. Temperature-responsive bridge circuit. 2,932,784, 4-12-60, Cl. 323-69.
- Hamrick, James C.: *See*—  
Hensley, Owen L., and Hamrick. 2,930,584.
- Hamrick, James C., to Jet Lines Products Co., Inc. Angular adapter for attachment to gun barrel. 2,955,586, 10-11-60, Cl. 124-30.
- Hams, Anthony F.: *See*—  
Stevenson, Herbert A., Marshall, and Hams. 2,937,970.
- Stevenson, Herbert A., Marshall, and Hams. 2,938,042.
- Hamson, Roger E., to Radio Corp. of America. Loudspeaker magnetic field structure. 2,964,597, 12-13-60, Cl. 179-115.5.
- Hanache, Jean E.: *See*—  
Fior, Frank H., and Hanache. 2,955,042.
- Hanatsuka, Tadashi. Variable discharge rotary pump. 2,963,981, 12-13-60, Cl. 103-125.
- Hanawa, Koshiro: *See*—  
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- Hanback, Francis J., to Douglas Aircraft Co., Inc. Swivel cluster coupling. 2,943,868, 7-5-60, Cl. 285-62.
- Hanback, Krance U.: *See*—  
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- Hanby, William E.: *See*—  
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- Hance, Harold V. Off-center cursor for PPI. 2,950,475, 8-23-60, Cl. 343-10.
- Hanchett, Miles T.: *See*—  
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- Hancock Brick and Tile Co., The: *See*—  
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- Hancock Industries, Inc.: *See*—  
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- Hancock, James E. Tractor trailer coupling and power transmission therethrough. 2,931,451, 4-5-60, Cl. 180-14.
- Hancock, Percy W. P.: *See*—  
Facey, Stanley R., and Hancock. 2,947,210.
- Hancock, Ralph J. Egg case. 2,925,206, 2-16-60, Cl. 224-45.
- Hancock, William. Drying apparatus for clay cakes such as are used in the manufacture of tiles. 2,934,832, 5-3-60, Cl. 34-225.
- Hand, Avery C., Jr.: *See*—  
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- Hand, Thomas J.: *See*—  
Roller, Donald C., and Hand. 2,930,470.
- Hand, William M. Mine track assembly. 2,952,411, 9-13-60, Cl. 238-10.
- Handel, George J., Jr.: *See*—  
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- Handel, Neil E., to Industrial Nucleonics Corp. Measuring system. 2,942,113, 6-21-60, Cl. 250-83.6.
- Handel, Neil E., to Industrial Nucleonics Corp. Magnet assembly for nuclear magnetic resonance apparatus. 2,948,845, 8-9-60, Cl. 243-5.
- Handler, Bernard: *See*—  
Handler, Joseph E. 2,939,139.
- Handler, Joseph E., deceased (B. Handler, administrator), to United States of America, Army. Transmit-receive systems with means for adjusting receiver output during transmission time. 2,939,139, 5-31-60, Cl. 343-180.
- Handler, Joseph E., to Motorola, Inc. Electron-coupled ultra high frequency coaxial transmitter. 2,958,050, 10-25-60, Cl. 331-101.
- Handler, Milton E., and R. J. Bellon, to S. A. Hirsh Mfg. Co. Steel shelving. 2,939,589, 6-7-60, Cl. 211-135.
- Handley Brown Heater Co.: *See*—  
Handley, Harold E. 2,931,383.
- Handley, Harold E. 2,946,562.
- Handley, Harold E., to Handley Brown Heater Co. Curb box having locating magnet therein. 2,931,383, 4-5-60, Cl. 137-369.
- Handley, Harold E., to Handley Brown Heater Co. Mooring reel. 2,946,562, 7-26-60, Cl. 254-161.
- Handley, John. Type-printing telegraph apparatus. 2,943,150, 6-28-60, Cl. 178-30.



- Handley, John, to Creed & Co. Ltd. Printing telegraph apparatus. 2,944,111, 7-5-60, Cl. 178-35.
- Handley, John. Type-printing telegraph apparatus. 2,955,694, 10-11-60, Cl. 197-10.
- Handley, John. High speed perforators for recording information. 2,960,163, 11-15-60, Cl. 164-111.
- Handwerk, Erwin C., and W. T. Monson, to American Metal Climax, Inc. Selenium recovery process. 2,948,591, 8-9-60, Cl. 23-139.
- Handwerk, William B., and E. Sherrill, to M. J. Crose Mfg. Co., Inc. Apparatus for grinding pipe ends preparatory to interconnection by welding. 2,931,146, 4-5-60, Cl. 51-241.
- Handy, Carleton T.: *See*—  
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- Handy, Carleton T., and H. S. Rothrock, to E. I. du Pont de Nemours and Co. Vinyl or allyl salicylate-ethylene copolymers and chelates thereof. 2,933,474, 4-19-60, Cl. 260-62.
- Handy Hannah Products Corp.: *See*—  
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- Handy, Richard L., and D. T. Davidson. Method of accelerating the setting of lime-fly ash-soil mixes. 2,942,993, 6-28-60, Cl. 106-118.
- Handy Things Mfg. Co.: *See*—  
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- Handyside, James B., to British Miller Hydro Co. Ltd. Apparatus for cleansing liquid containing tanks or vessels. 2,933,093, 4-19-60, Cl. 134-168.
- Hanel, Rudolf A., and R. A. Stampf, to United States of America, Army. High impedance transistor circuits. 2,942,200, 6-21-60, Cl. 330-18.
- Haner, Robert B., Jr., to General Railway Signal Co. Carrier transmitter. 2,947,814, 8-2-60, Cl. 178-66.
- Hanert, John M.: *See*—  
Hammond, Laurens, Hanert, and Kern. 2,942,070.
- Hanert, John M., to Hammond Organ Co. Electrical musical instrument with multiple utilization of tone signal sources. 2,922,329, 1-26-60, Cl. 84-112.
- Hanert, John M., to Hammond Organ Co. Combined piano and electrical monophonic instrument. 2,933,004, 4-19-60, Cl. 84-101.
- Hanert, John M., to Hammond Organ Co. Electrical musical instruments. 2,937,556, 5-24-60, Cl. 84-126.
- Hanert, John M. Adjustable tone producing instrumentality. 2,943,527, 7-5-60, Cl. 84-403.
- Hanert, John M., to Hammond Organ Co. Electrical musical instrument with percussion apparatus. 2,951,412, 9-6-60, Cl. 84-126.
- Hanert, John M., to Hammond Organ Co. Percussion tone electrical musical instrument. 2,953,055, 9-20-60, Cl. 84-126.
- Hanert, John M., to Hammond Organ Co. Percussion tone electrical musical instrument. 2,953,056, 9-20-60, Cl. 84-126.
- Hanert, John M., and D. R. Kern, to Hammond Organ Co. Oscillators and circuitry for a musical instrument with rapid starting characteristics. 2,928,306, 3-15-60, Cl. 84-126.
- Hanes, Arnold L.: *See*—  
Boyd, John R., and Hanes. 2,938,332.
- Hanes, Barbara: *See*—  
Hanes, Richard. 2,930,482.
- Hanes, Richard, deceased, by B. Hanes, executrix, to Imperial Chemical Industries Ltd. Apparatus for torsion-breaking extrusion residue from finished product. 2,930,482, 3-29-60, Cl. 207-1.
- Hanes, Roger A., and E. Tegland. Rake. 2,939,266, 6-7-60, Cl. 56-400.2.
- Hanff, Edward A., to Swindell-Dressler Corp. Magnetomotive agitator for molten metal baths or the like. 2,964,581, 12-13-60, Cl. 13-26.
- Hanford, Henry M.: *See*—  
Baker, Clyde W., and Hanford. 2,926,697.
- Hanger, Randolph T., to Boeing Airplane Co. Self aligning drill motor clamp. 2,963,927, 12-13-60, Cl. 77-13.
- Hanggi, George J., to Continental Oil Co. Constant force variable speed vibrator. 2,921,477, 1-19-60, Cl. 74-87.
- Hanin, Mireille, and J. Voeltzel, to Institut de Recherches de La Siderurgie. Valve operated by the action of liquid. 2,949,926, 8-23-60, Cl. 137-202.
- Hanisian, John: *See*—  
Chrones, James, Greco, and Hanisian. 2,953,905.
- Hanje, Abe J.: *See*—  
Hunter, Robert H., Hanje, and Smith. 2,940,515.  
Hunter, Robert H., Hanje, and Smith. 2,962,020.
- Hanje, Abe J., and R. H. Hunter; said Hanje, assor. to said Hunter. Instant flame torch. 2,940,674, 6-14-60, Cl. 239-413.
- Hankel, Melvin C., and B. W. Foss, to Tokheim Corp. Variable capacity pump. 2,922,376, 1-26-60, Cl. 103-120.
- Hanken, Anne. Girdles and like undergarments. 2,962,026, 11-29-60, Cl. 128-523.
- Hankins Container Co., The: *See*—  
Miessler, Paul W., Sr. 2,940,653.
- Hanks, Charles W., to Stauffer Chemical Co. Vacuum melting process. 2,960,331, 11-15-60, Cl. 266-34.
- Hanks, Charles W., and H. R. Smith, Jr., to Stauffer Chemical Co. Continuous high vacuum melting. 2,963,530, 12-6-60, Cl. 13-31.
- Hanks, Claude L.: *See*—  
Hughes, Samuel T. 2,962,836.
- Hanks, Wesley C., Sr., and R. E. Williams; said Williams assor. to said Hanks. Foldable derrick. 2,941,633, 6-21-60, Cl. 189-16.
- Hanks, Wesley C., Sr., and R. E. Williams; said Williams assor. to said Hanks. A-frame hoisting device. 2,941,634, 6-21-60, Cl. 189-16.
- Hanlet, Jacques M. N., to Societe d'Electronique et d'Automatisme. Pulse distributing devices. 2,921,220, 1-12-60, Cl. 313-188.
- Hanlet, Jacques M. N., to Societe d'Electronique et d'Automatisme. Electroluminescence devices. 2,929,950, 3-22-60, Cl. 313-108.
- Hanlet, Jacques M. N., to Societe d'Electronique et d'Automatisme. Preparation of layers of electroluminescent materials. 2,936,252, 5-10-60, Cl. 117-211.
- Hanlet, Jacques M. N., to Societe d'Electronique et d'Automatisme. Electromagnetically controlled switching devices. 2,936,353, 5-10-60, Cl. 200-94.
- Hanlet, Jacques M. N., to Societe d'Electronique et d'Automatisme. Electronic anticoincidence device. 2,964,638, 12-13-60, Cl. 250-213.
- Hankins, George D. Combination stretcher and mountaineer's back pack frame. 2,924,831, 2-16-60, Cl. 5-82.
- Hankus, Chester P., 65% to C. P. Hankus, 10% to P. Van Beek, 10% to T. Hankus, and 15% to K. T. Snow. Packaging device. Re. 2,4774, 2-2-60, Cl. 206-65.
- Hankus, Theodore: *See*—  
Hankus, Chester P. Re. 2,4774.
- Hanley Co.: *See*—  
Bozman, William D. 2,961,973.  
Else, Harry T. 2,962,163.
- Hanley, Frank H.: *See*—  
Foley, Daniel E., and Hanley. 2,929,970.
- Hanley, Frank H., and C. J. Votaw, to American Telephone and Telegraph Co. Clock controlled automatic recycling switching circuit. 2,947,803, 8-2-60, Cl. 178-3.
- Hanley, John A., deceased (M. C. Hanley, executrix of said J. A. Hanley),  $\frac{1}{2}$  to A. J. Slimak. Revolver loading device. 2,944,359, 7-12-60, Cl. 42-89.
- Hanley, Margaretta C.: *See*—  
Hanley, John A. 2,944,359.
- Hanley, William G., to Rockwell-Standard Corp. Dual wheel stub axle, support strut and brake assembly. 2,957,706, 10-25-60, Cl. 280-124.
- Hanley, William L. Ceramic ware dryer and preheater and method. 2,932,905, 4-19-60, Cl. 34-213.
- Hanley, William L. Tunnel kiln cooling section. 2,959,836, 11-15-60, Cl. 25-142.
- Hanley, William L. Preheating section for tunnel kiln and method. 2,961,732, 11-29-60, Cl. 25-142.
- Hanlon, Paul C. Axial play gauge for bearings. 2,932,900, 4-19-60, Cl. 33-174.
- Hann, Earl K., to Westinghouse Electric Corp. Applying protective metal coatings on molybdenum. 2,952,904, 9-20-60, Cl. 29-194.
- Hann, George C.: *See*—  
Beck, Warren R., and Hann. 2,943,059.
- Hann, Gordon E., and J. R. Humphrey, to The Tremco Mfg. Co. Continuous multiple spool coiling apparatus for mastic filaments. 2,925,227, 2-16-60, Cl. 242-35.5.
- Hann, Melvin M.: *See*—  
Carlson, Floyd E., Hann, and Moon. 2,941,365.
- Hann, Melvin M., H. C. Moon, Jr., and F. E. Carlson, to Sundstrand Corp. Hydraulic transmission. 2,942,421, 6-28-60, Cl. 60-52.
- Hann, Paul D., to Phillips Petroleum Co. Combined solid adsorbent and liquid absorbent and method of using same. 2,956,015, 10-11-60, Cl. 208-310.
- Hann, Paul D., to Phillips Petroleum Co. Temperature control in a fluidized bed reactor. 2,963,422, 12-6-60, Cl. 208-160.
- Hanna, Clinton R., to Westinghouse Electric Corp. High frequency response valve. 2,945,478, 7-19-60, Cl. 121-41.
- Hanna, Clinton R., K. A. Oplinger, and L. B. Lynn, to Westinghouse Electric Corp. Aircraft flight control apparatus. 2,924,200, 2-9-60, Cl. 121-41.
- Hanna, Clinton R., and K. A. Oplinger, to Westinghouse Electric Corp. Apparatus for controlling the movement of an aircraft control surface. 2,933,269, 4-19-60, Cl. 244-79.
- Hanna, Edward C., to Landis Machine Co. Work holding mechanism. 2,923,184, 2-2-60, Cl. 80-6.
- Hanna, Edward C., to Landis Machine Co. Thread rolling machine and work feeding means therefor. 2,923,185, 2-2-60, Cl. 80-6.
- Hanna, Fares: *See*—  
Castellanos, Leopold J. 2,934,360.
- Hanna, James: *See*—  
McCartney, William F., and Hanna. 2,949,760.
- Hanna, John P., to General Electric Co. Apparatus for recording and portraying a visible magnetic image. 2,943,908, 7-5-60, Cl. 346-74.
- Hanna, M. A., Co., The: *See*—  
Bunge, Fred H., and Pocrnich. 2,944,666.  
Vidmar, John F. 2,947,263.
- Hanna, William L., to Bugbee and Niles Co. Fabric making machine. 2,949,135, 8-16-60, Cl. 140-3.
- Hannaert, Henri A.: *See*—  
Braconier, Frederic F. A., and Hannaert. 2,937,714.
- Hannah, Alexander, to Wyandotte Chemicals Corp. Aluminum etching composition and method. 2,942,955, 6-28-60, Cl. 41-42.



- Hannah, Kenneth W.: *See*—  
Beckerich, John F., and Hannah. 2,939,135.
- Hannam, Herbert J., to General Electric Co. Target electrode assembly. 2,922,907, 1-26-60, Cl. 313-68.
- Hannam, William E.: *See*—  
Blakistone, James T. 2,923,864.
- Hannant, Theodore N., and W. F. Wismar, to Specialties Development Corp. Double vent operated flood valve. 2,937,846, 5-24-60, Cl. 251-29.
- Hannas, Carl L. Merry-go-round. 2,925,272, 2-16-60, Cl. 272-33.
- Hanneken, Henry P., to Pittsburgh Plate Glass Co. Edge seaming apparatus. 2,966,013, 12-27-60, Cl. 51-78.
- Hanneman, Walter M., to Illinois Tool Works. Machine for measuring torque and tension. 2,957,342, 10-25-60, Cl. 73-133.
- Hanner, Allen W., and J. C. Kratky, to The Soil Mover Corp. Elevator scraper. 2,956,353, 10-18-60, Cl. 37-8.
- Hannewald, Erich, and S. Friedrich, to Felten & Guillaume Fernmeldeanlagen G.m.b.H. Distortion correction in modulators. 2,959,749, 11-8-60, Cl. 332-9.
- Hannibal, Joseph O., Jr., to International Business Machines Corp. Accumulator for accumulating fractions. 2,935,258, 5-3-60, Cl. 235-154.
- Hannigan, Mary V.: *See*—  
Luvisi, Fred P., Happich, and Hannigan. 2,942,930.
- Hanning-Lee, Francis E. and S. Hydrofoil craft. 2,942,810, 6-28-60, Cl. 244-105.
- Hanning-Lee, Stella: *See*—  
Hanning-Lee, Francis E. and S. 2,942,810.
- Hannold, John R., to Welding Engineers, Inc. Extrusion apparatus. 2,961,701, 11-29-60, Cl. 18-12.
- Hannon, Donald F., to Laminators Inc. Identification card. 2,932,913, 4-19-60, Cl. 30-22.
- Hannum, Donald R., to Chrysler Corp. Vehicle steering mechanism. 2,958,235, 11-1-60, Cl. 74-499.
- Hansberg, Fritz. Agitatorless foundry shooting device. 2,928,147, 3-15-60, Cl. 22-36.
- Hansberg, Fritz. Process and devices for the production of blanks, cores and moulds for casting purposes. 2,933,785, 4-26-60, Cl. 22-10.
- Hansburg, Milton, to United States of America, Navy. Automatic earth field balance control system for magnetometers. 2,938,164, 5-24-60, Cl. 324-43.
- Hanscom, H. F. & Co., Inc.: *See*—  
Hanscom, Harris F. 2,931,930.
- Hanscom, Harris F., to H. F. Hanscom & Co., Inc. Field coil retaining means. 2,931,930, 4-5-60, Cl. 310-194.
- Hanseatische Motoren-Gesellschaft M.b.H.: *See*—  
Werner, Günther. 2,964,898.
- Hänsel, Otto, Junior G.m.b.H.: *See*—  
Lesch, Hans. 2,938,320.
- Hansel, Paul G., to Servo Corp. of America. Direct reading frequency meter. 2,928,046, 3-8-60, Cl. 324-79.
- Hansel, William B., and E. T. Young, to Sun Oil Co. Gyroscope drift compensating means. 2,940,320, 6-14-60, Cl. 74-54.
- Hansel, William B., and E. T. Young, to Sun Oil Co. Odograph. 2,964,376, 12-13-60, Cl. 346-138.
- Hansell, Grant E.: *See*—  
Atwood, John B., and Hansell. 2,937,272.
- Hansell, Paul D.: *See*—  
Eckweiler, Howard J., Jr., Hansell, O'Malley, Barnes, and Dickerson. 2,955,209.
- Hanselman, Harold G., Jr., and P. L. Bundy, to Michigan Carton Co. Longitudinal side opening carton and blank therefor. 2,964,231, 12-13-60, Cl. 229-51.
- Hansen, Alfred A. E. Indexable joint. 2,922,669, 1-26-60, Cl. 287-14.
- Hansen, Albert B. A.: *See*—  
Hartmann, Louis M., and Hansen. 2,946,426.
- Hansen, Andrew C., Jr., to Universal Oil Products Co. Production of high octane gasoline. 2,943,038, 6-28-60, Cl. 208-79.
- Hansen, Asgar, to Mikrovaerk A/S. Conveyor arrangement in plants for moulding chocolate and similar masses. 2,944,653, 7-12-60, Cl. 198-20.
- Hansen, Bobby J. Grouser shoes. 2,964,361, 12-13-60, Cl. 305-54.
- Hansen, Christian A., Jr., to Esso Research and Engineering Co. Regeneration and reuse of catalyst. 2,963,425, 12-6-60, Cl. 208-264.
- Hansen, Conrad A. Lifting fork for roast meat. 2,943,883, 7-5-60, Cl. 294-49.
- Hansen, Cyril D.: *See*—  
Russell, Duane J., and Hansen. 2,952,818.
- Hansen, Donald J. Gas regulator. 2,952,272, 9-13-60, Cl. 137-483.
- Hansen, Edward H. Combination lock. 2,920,473, 1-12-60, Cl. 70-298.
- Hansen, Einar T., to Outboard Marine Corp. Electric starter attachment for internal combustion engines. 2,939,448, 6-7-60, Cl. 123-179.
- Hansen, Emil C.: *See*—  
Bergman, Carl A., and Hansen. 2,953,526.
- Hansen, Floyd R.: *See*—  
Fuchsman, Charles H., Zaremsky, and Hansen. 2,949,439.
- Hansen, Francis W., to Simmons Co. Wardrobe construction. 2,948,577, 8-9-60, Cl. 312-264.
- Hansen, Franklin A., to Black, Sivalls & Bryson, Inc. Safety pressure relief device. 2,924,354, 2-9-60, Cl. 220-89.
- Hansen, Franklin A., to Black, Sivalls & Bryson, Inc. Relief valve. 2,928,413, 3-15-60, Cl. 137-493.9.
- Hansen, Franklin A., to Black, Sivalls & Bryson, Inc. Safety pressure relief device. 2,934,237, 4-26-60, Cl. 220-89.
- Hansen, Franklin A., and R. S. Coffman, to Black, Sivalls & Bryson, Inc. Safety pressure relief device. 2,954,897, 10-4-60, Cl. 220-89.
- Hansen, Fred A., to Lindberg Engineering Co. Heating furnace. 2,966,573, 12-27-60, Cl. 219-35.
- Hansen, Frithjof N.: *See*—  
Hay, Warren H., and Hansen. 2,948,826.
- Hansen, George E., and F. J. Sanoica, to Crane Co. Steam trap. 2,945,505, 7-19-60, Cl. 137-183.
- Hansen, Gerhard, M. Drodofsky, and H. Plesse, to Carl Zeiss. Telemeter system for measuring distances by means of modulated light. 2,930,278, 3-29-60, Cl. 88-1.
- Hansen, Gunnar B., to Polyplex Danish-American Plastics Co. Methods of molding reinforced organic plastics for the production of curved plates. 2,964,442, 12-13-60, Cl. 154-110.
- Hansen, Hans R. A.: *See*—  
Caldwell, James N., and Hansen. 2,929,975.
- Hansen, Hans E., to Westinghouse Electric Corp. Handrail structure for moving stairways. 2,956,662, 10-18-60, Cl. 198-16.
- Hansen, Hans E., to Westinghouse Electric Corp. Moving stairways. 2,962,149, 11-29-60, Cl. 198-16.
- Hansen, Hans U. Adjustable door hinge. 2,940,115, 6-14-60, Cl. 16-131.
- Hansen, Harold: *See*—  
Miller, Earle C., Stone, and Hansen. 2,925,055.
- Hansen, Harold. Combination coat and pants hanger. 2,943,774, 7-5-60, Cl. 223-88.
- Hansen, Harold V., to Deere & Co. Cotton cell drop attachment for planters. 2,946,490, 7-26-60, Cl. 222-227.
- Hansen, Harold V., to Deere & Co. Marker. 2,962,103, 11-29-60, Cl. 172-126.
- Hansen, Harry. Slide fasteners. 2,939,192, 6-7-60, Cl. 24-205.13.
- Hansen, Harry. Apparatus for use in the manufacture of slide fasteners. 2,942,336, 6-28-60, Cl. 29-208.
- Hansen, Jan W. F. Stephen, and N. H. Swanson, to Western Electric Co., Inc. Apparatus for assembling relays. 2,934,817, 5-3-60, Cl. 29-203.
- Hansen, Jay M.: *See*—  
Forbath, Frank P., and Hansen. 2,928,938.
- Hansen, John. Multiple-band power hone. 2,961,809, 11-29-60, Cl. 51-246.
- Hansen, John A.: *See*—  
Riedel, Kurt A., and Hansen. 2,952,065.
- Hansen, John A., to Kearney & Trecker Corp. Index mechanism for a combination machine tool. 2,956,454, 10-18-60, Cl. 77-25.
- Hansen, John A., C. A. Parske, and K. A. Riedel, to Kearney & Trecker Corp. Machine tool with a mechanical cutting tool changer. 2,952,170, 9-13-60, Cl. 77-25.
- Hansen, Julius E. Truss. 2,933,084, 4-19-60, Cl. 128-105.
- Hansen, Kenneth H., F. E. Howdle, and T. B. Jochem, to Cutler-Hammer, Inc. Mechanism for counting and stacking articles. 2,939,578, 6-7-60, Cl. 209-82.
- Hansen, Lloyd F.: *See*—  
Stearns, Carl L., and Hansen. 2,954,935.
- Hansen, Lloyd F., and C. L. Stearns, to American Cyanamid Co. Apparatus for casting gelatin upon a cooled drum including drum warp compensating means. 2,927,345, 3-8-60, Cl. 18-15.
- Hansen, Lloyd F., and R. Glorig, to American Cyanamid Co. Machine for marking capsules. 2,929,320, 3-22-60, Cl. 101-248.
- Hansen, Lorenzo D. Military interval swagger stick. 2,923,063, 2-2-60, Cl. 33-161.
- Hansen, Nils B., to Continental Can Co., Inc. Trussed-end paperboard carton. 2,962,202, 11-29-60, Cl. 229-37.
- Hansen, Odd A., and W. Haumann, to Union Carbide Corp. Method and apparatus for dispensing gas material. 2,964,918, 12-20-60, Cl. 62-52.
- Hansen, Oliver H. Method of fastening wood or like members together. 2,955,291, 10-11-60, Cl. 1-60.
- Hansen, Oscar C. Fluid operated machine tool. 2,932,192, 4-12-60, Cl. 77-33.5.
- Hansen, Quinten A., to R. H. and R. N. Stearns. Self-applying electromagnetically releasable brake. 2,939,551, 6-7-60, Cl. 188-171.
- Hansen, Ralph C., and C. A. Miller, Jr., to Libbey-Owens-Ford Glass Co. Railroad cars for transporting sheets or plates. 2,940,402, 6-14-60, Cl. 105-367.
- Hansen, Robert C., and R. L. Pease, to Hughes Aircraft Co. Surface wave device. 2,921,308, 1-12-60, Cl. 343-754.
- Hansen, Roger, to Bayerische Schrauben-und Federnfabriken Richard Bergner and Kabelwerk Vohwinkel A.G. Couplers of the plug and socket type. 2,960,675, 11-15-60, Cl. 339-49.
- Hansen, Siegfried, to Hughes Aircraft Co. Astrometrical means and method. 2,941,080, 6-14-60, Cl. 250-203.
- Hansen, Wilford M. Door hinge. 2,948,015, 8-9-60, Cl. 16-145.
- Hansen, Wilford N., to United States of America, Atomic Energy Commission. Electrolysis of thorium and uranium. 2,951,793, 9-6-60, Cl. 204-1.5.
- Hansen's, Chr., Laboratory, Inc.: *See*—  
Rosenthal, Waldemar A., and Pinkalla. 2,946,688.



- Hanset, Eugene. Plastic broom or brush and method of fabrication. 2,934,777, 5-3-60, Cl. 15-171.
- Hansford, Rowland C., to Union Oil Co. of California. Preparation of basic metal fluorides. 2,959,557, 11-8-60, Cl. 252-442.
- Hansgen, Klaus: *See*—
- Hiersig, Heinz M., and Hansgen. 2,922,321.
- Hansley, Virgil L.: *See*—
- Frank, Charles E., Hansley, and Nobis. 2,954,410.
- Muller, Werner C., and Hansley. 2,963,362.
- Schott, Stuart, and Hansley. 2,950,963.
- Schott, Stuart, and Hansley. 2,956,862.
- Schott, Stuart, Hansley, and Greenberg. 2,962,352.
- Hansley, Virgil L., and E. H. Pryde, to E. I. du Pont de Nemours & Co. Preparation of sodium borohydride. 2,934,401, 4-26-60, Cl. 23-14.
- Hansley, Virgil L., and S. Schott, to National Distillers and Chemical Corp. Purification of titanium tetrachloride. 2,958,574, 11-1-60, Cl. 23-87.
- Hansley, Virgil L., C. E. Frank, and J. F. Nobis, to National Distillers and Chemical Corp. Metalation reactions. 2,966,526, 12-27-60, Cl. 260-665.
- Hanslick, Roy S.: *See*—
- Seifert, Joseph, Hanslick, and Freed. 2,945,041.
- Hansmann, Arthur J.: *See*—
- Mascaretti, Leo T. 2,950,012.
- Hanson, Alden W., to The Dow Chemical Co. Treatment of subterranean formations containing water-soluble minerals. 2,944,803, 7-12-60, Cl. 262-3.
- Hanson, Alfred H. Device for remote control operation of automobile foot pedals. 2,964,965, 12-20-60, Cl. 74-481.
- Hanson, Berger G., and L. G. Oechsner, to Hughes Aircraft Co. Cutter support. 2,941,451, 6-21-60, Cl. 90-11.
- Hanson, Charles W.: *See*—
- Hanson, William and C. W. 2,961,836.
- Hanson, Darrell A.: *See*—
- Newby, Bill J., Hanson, and May. 2,964,130.
- Hanson, Elbin C. Toy and stick. 2,952,095, 9-13-60, Cl. 46-220.
- Hanson, Estyle D., to Western Electric Co., Inc. Apparatus for magazine articles. 2,935,226, 5-3-60, Cl. 221-171.
- Hanson, Estyle D., to Western Electric Co., Inc. Apparatus for cutting tacky material. 2,966,085, 12-27-60, Cl. 83-117.
- Hanson, Eugene E., and A. R. Daniels, to Monroe Auto Equipment Co. Vehicle power steering device. 2,925,804, 2-23-60, Cl. 121-41.
- Hanson, Frank E.: *See*—
- Richa, John H., and Hanson. 2,940,646.
- Hanson, George E., and L. B. Croley, to Phillips Petroleum Co. Removal of solids from polymer solutions. 2,930,784, 3-29-60, Cl. 260-94.9.
- Hanson, George H., to Phillips Petroleum Co. Automatic process control with radioisotopes. 2,945,127, 7-12-60, Cl. 250-43.5.
- Hanson, Glenn N., and E. Werdier. Bale sealing machine. 2,948,098, 8-9-60, Cl. 53-378.
- Hanson, Harold B., to Meat Packers Equipment Co. Belt-supporting wheel. 2,940,585, 6-14-60, Cl. 198-184.
- Hanson, Harry L., to Good Roads Machinery Corp. Air blower. 2,951,632, 9-6-60, Cl. 230-133.
- Hanson, Henry L., to Minneapolis-Honeywell Regulator Co. Motor control circuit. 2,927,999, 3-8-60, Cl. 250-27.
- Hanson, John H., and F. H. Schnebly, to Northrop Corp. Portable radiant heater. 2,961,523, 11-22-60, Cl. 219-19.
- Hanson, Leroy C., to Ferro Corp. Heating unit. 2,957,068, 10-18-60, Cl. 219-37.
- Hanson, Ramond A. Grade control for digging machines. 2,952,928, 9-20-60, Cl. 37-94.
- Hanson Scale Co.: *See*—
- Hanssen, Stan B. 2,960,329.
- Hanson, Sterling A.: *See*—
- Swanson, Fred R., and Hanson. 2,949,063.
- Hanson, Theodore L., and L. D. Gore, to The Vendo Co. Coin-operated electrically-controlled cup dispensing machine. 2,961,082, 11-22-60, Cl. 194-13.
- Hanson-Van Winkle-Munning Co.: *See*—
- Arnold, Peter. 2,935,989.
- Raldwin, Allen T. 2,940,870.
- Hauck, Paul A. 2,933,212.
- Hanson, Victor G.: *See*—
- Clausen, Sigurd, and Hanson. 2,929,383.
- Hanson, Walter J.: *See*—
- Bernart, William F., and Hanson. 2,951,697.
- Hanson, Walter J., and R. E. Schmeck, to Pitney-Bowes, Inc. Token issuing machine. 2,923,544, 2-2-60, Cl. 271-2.4.
- Hanson, William and C. W. Flood gate. 2,961,836, 11-29-60, Cl. 61-24.
- Hanson, William A. Drier. 2,948,966, 8-16-60, Cl. 34-1.
- Hanssen, Pierre. Expander and contractor roll. 2,952,889, 9-20-60, Cl. 25-63.
- Hansson, Stan B., to Hanson Scale Co. Weighing scale. 2,960,329, 11-15-60, Cl. 265-68.
- Hansson, Elof, Inc.: *See*—
- Kodaras, Michael J. 2,922,202.
- Hanstein, Walter, and R. H. Jones, to Burroughs Corp. Clutch actuated switch. 2,957,962, 10-25-60, Cl. 200-92.
- Hanstein, Walter, Jr., to Burroughs Corp. Friction clutch. 2,961,079, 11-22-60, Cl. 192-30.
- Hanthorn, George W., to Phillips Petroleum Co. Fractionator feed control. 2,933,900, 4-26-60, Cl. 62-21.
- Hanusch, Hellmut, to Rofusa N.V. Method of preparing synthetic anhydride. 2,937,926, 5-24-60, Cl. 23-122.
- Hanyasz, Eugene A., to General Motors Corp. Vehicle control transmitter. 2,965,188, 12-20-60, Cl. 180-82.
- Hanyasz, Eugene A., C. E. Quinn, and E. F. Weller, to General Motors Corp. Coating thickness gage. 2,920,269, 1-5-60, Cl. 324-34.
- Hanze, Arthur R., H. C. Murray, and O. K. Sebek, to The Upjohn Co. 6 $\beta$ -hydroxycortisone 6,21-diacylate compounds and process for the production thereof. 2,935,521, 5-3-60, Cl. 260-397.45.
- Hanze, Arthur R., J. A. Hogg, and A. H. Nathan, to The Upjohn Co. 11-oxygenated 16 $\alpha$ -hydroxy-4-androstene-3,17-diones and process. 2,951,858, 9-6-60, Cl. 260-397.45.
- Hanzl, Vladimir, and H. Lunak, to Zapadomoravske Strojirny, narodni podnik. Stop motion device for knitting machines. 2,933,909, 4-26-60, Cl. 66-157.
- Hapman, Hannah J.: *See*—
- Hapman, Henry W. 2,922,513.
- Hapman, Henry W. 2,931,306.
- Hapman, Henry W., deceased, 40% to H. J. Hapman, M. S. Huffaker, and H. J. Hapman, co-executors of said H. W. Hapman. Pan conveyor. 2,922,513, 1-26-60, Cl. 198-196.
- Hapman, Henry W., 40% to H. J. Hapman. Low lift method and apparatus. 2,931,306, 4-5-60, Cl. 103-73.
- Happe, Wilhelm: *See*—
- Eckert, Wilhelm, Fuchs, and Happe. 2,965,644.
- Happel, John, and C. J. Marsel. Preparation of stable, concentrated KOH slurries. 2,922,765, 1-26-60, Cl. 252-309.
- Happel, John, C. J. Marsel, and J. H. Blanck. Production of divinyl acetylenes by the dehydration of vinyl acetylenic alcohols in the presence of steam. 2,949,493, 8-16-60, Cl. 260-678.
- Happel, John, and C. J. Marsel. Process for manufacture of acetylenic hydrocarbons. 2,963,521, 12-6-60, Cl. 260-678.
- Happich, William F.: *See*—
- Luvisi, Fred P., Happich, Hannigan, and Beebe. 2,942,930.
- Happoldt, William B., Jr.: *See*—
- Conwell, Yeates, Happoldt, and Lewis. 2,956,306.
- Harada, Henry H., to General Motors Corp. Electric switch. 2,933,568, 4-19-60, Cl. 200-38.
- Harada, Henry H., to General Motors Corp. Drum type electric clock mechanism. 2,959,914, 11-15-60, Cl. 58-125.
- Harada, Mamoru. Electrical exposure meter for photographic camera. 2,959,093, 11-8-60, Cl. 88-23.
- Harada, Tomio. Maximum-minimum thermometer. 2,930,234, 3-29-60, Cl. 73-371.
- Haraden, George A., to The Foxboro Co. Liquid filter system. 2,955,711, 10-11-60, Cl. 210-138.
- Harbison-Walker Refractories Co.: *See*—
- Carson, William H. 2,961,754.
- Davies, Ben. 2,947,649.
- Myers, William H., and Garber. 2,961,805.
- Renkey, Albert L. 2,963,377.
- Sommer, Alvin H., and Shonkwiler. 2,961,978.
- Harbordt, Carl G., and B. F. Buff. Sampling and bumping device for heated zinc retorts. 2,931,059, 4-5-60, Cl. 15-104.1.
- Harbourt, Harry W. Coaxial cable connector. 2,930,024, 3-22-60, Cl. 339-177.
- Harchikov, Konstantin F. Dynamical muffler. 2,935,153, 5-3-60, Cl. 181-60.
- Hard, Florence M. Cup holder. 2,933,280, 4-19-60, Cl. 248-350.
- Hard, Herbert G., Jr.: *See*—
- Sproull, Reavis C., and Hard. 2,934,686.
- Hard af Segerstad, Carl G. Operating and controlling device. 2,935,972, 5-10-60, Cl. 121-46.5.
- Hard af Segerstad, Carl G., to Sandvikens Jernverks Aktiebolag. Measuring apparatus. 2,943,477, 7-5-60, Cl. 73-37.5.
- Hardcastle, Glenn A., Jr.: *See*—
- Johnson, David A., Hardcastle, and Perron. 2,936,307.
- Hardebol, Jacobus, and W. P. Hendal, to Shell Oil Co. Vortex tube with internal cooling. 2,955,432, 10-11-60, Cl. 62-5.
- Harden, Eldon A.: *See*—
- Morkoski, James, Evans, and Harden. 2,943,689.
- Harden, Gail D.: *See*—
- Osborne, William H., and Harden. 2,953,157.
- Shea, Carter L., Harden, and Barrett. 2,953,158.
- Harden, Gail D., to Shell Oil Co. Method and apparatus for controlling the pumping of fluids in a pipeline. 2,965,114, 12-20-60, Cl. 137-1.
- Hardenberg, Jan J. C., to North American Philips Co., Inc. X-ray photography device. 2,928,324, 3-15-60, Cl. 95-11.
- Hardenberg, Jan J. C., to North American Philips Co., Inc. X-ray system. 2,931,908, 4-5-60, Cl. 250-94.
- Hardenbergh, George, J. D. Goodell, and T. Lode, to General Precision, Inc. Magnetic pulse controlling devices. 2,935,733, 5-3-60, Cl. 340-174.
- Hardenbergh, George A., to International Business Machines Corp. Multistable magnetic core circuits. 2,958,787, 11-1-60, Cl. 307-88.
- Harder, Henry F.: *See*—
- Hartman, Grant H., Harder, Rezba, and Reeve. 2,934,434.
- Harders, Fritz, to Dortmund-Hörder Hüttenunion Aktiengesellschaft. Methods of and apparatus for degasifying metals. 2,929,704, 3-22-60, Cl. 75-49.



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- Hardesty, Edwin C., to Western Electric Co., Inc. Apparatus for twisting an advancing strand. 2,926,482, 3-1-60, Cl. 57-11.
- Hardesty, Edwin C., and D. L. Myers, to Western Electric Co., Inc. Method of making spring cords. 2,920,351, 1-12-60, Cl. 18-56.
- Hardesty, George K. C. Polychromatic selective display panel. 2,945,313, 7-19-60, Cl. 40-130.
- Hardgrove, Ralph M., to The Babcock & Wilcox Co. Steam generating and superheating unit with fixed jet blowers directed at superheater platens. 2,940,430, 6-14-60, Cl. 122-392.
- Hardie, Alexander, to The Power-Gas Corp. Ltd. Lubrication of rails. 2,939,546, 6-7-60, Cl. 184-3.
- Hardie, James, & Coy. Pty. Ltd.: See—
- Archibald, Ian W. 2,943,347.
- Hardigan, Blanche, and D. Stern. Inclined staircase elevator. 2,950,948, 8-30-60, Cl. 187-12.
- Hardigg, James S., to Craig Systems, Inc. Bonded metal panels and enclosures. 2,951,613, 9-6-60, Cl. 220-81.
- Hardin, Robert H., to Hughes Aircraft Co. Gating circuit. 2,954,467, 9-27-60, Cl. 250-27.
- Harding, George W., to Automatic Draft and Stove Co., Inc. Coal-fired space heater. 2,948,276, 8-9-60, Cl. 126-67.
- Harding, James: See—
- Baum, Bernard, and Harding. 2,921,870.
- Harding, Kenneth A. Highway barricade. 2,942,854, 6-28-60, Cl. 256-64.
- Harding, Lawrence F.: See—
- Jooss, Reinhold, and Harding. 2,955,305.
- Harding, Luther B. Automatic fish net extender and wading staff. 2,954,633, 10-4-60, Cl. 43-12.
- Harding, Philip A., to Bell Telephone Laboratories, Inc. Measurement and elimination of flutter associated with periodic pulses. 2,958,043, 10-25-60, Cl. 328-140.
- Harding, Roy T.: See—
- McClure, James S. 2,924,722.
- Harding, William R.: See—
- Boyer, Floyd J., Harding, Irwin, McDowall, and Wentz. 2,938,340.
- Hardinge Brothers, Inc.: See—
- MacBlane, James, Sr. 2,951,707.
- Hardinge, Harlowe. Commutating and classifying system and method. 2,922,586, 1-26-60, Cl. 241-19.
- Hardinge, Harlowe. Air classifier. 2,939,579, 6-7-60, Cl. 209-144.
- Hardison, Leslie C., to Universal Oil Products Co. Electric switch circuit. 2,954,512, 9-27-60, Cl. 317-151.
- Hardison, Wilbur T.: See—
- Bouras, Marlan E., Hardison, and O'Brian. 2,935,715.
- Hardman, Peck, & Co.: See—
- Sauerland, Joseph. 2,943,525.
- Hardt Foundation, The: See—
- Hardt, Leo L., and Kratz. 2,936,263.
- Hardt, Leo L., and E. M. Kratz, to The Hardt Foundation. Therapeutic package. 2,936,253, 5-10-60, Cl. 167-55.
- Hardway, Edward V., Jr., to Robertshaw-Fulton Controls Co. Acceleration responsive devices. 2,942,456, 6-28-60, Cl. 73-71.
- Hardway, Edward V., Jr., to Robertshaw-Fulton Controls Co. Acceleration responsive devices. 2,966,617, 12-27-60, Cl. 317-5.
- Hardwick, George J., to General Electric Co. Flashing machine for electric lamps. 2,961,285, 11-22-60, Cl. 316-32.
- Hardwick, George L., and G. F. Simons, to Boeing Airplane Co. Radar corner reflector with electrically conductive liquid reflective surface. 2,922,158, 1-19-60, Cl. 343-18.
- Hardwick, William A.: See—
- Cirillo, Vincent P., Hardwick, and Seeley. 2,928,210.
- Hardwicke, Norman L., to Monsanto Chemical Co. Ethylene polymerization. 2,947,738, 8-2-60, Cl. 260-94.9.
- Hardy, Charles R.: See—
- Honey, Eric M. O., Hardy, and Sharp. 2,959,822.
- Hardy, Edgar E., to Monsanto Chemical Co. Pyrolysis products of dimethyl hydrogen phosphite and method of producing same. 2,923,729, 2-2-60, Cl. 260-461.
- Hardy, Edgar E., to Monsanto Chemical Co. Method of operating a turbojet engine and high energy fuels used therein. 2,949,733, 8-23-60, Cl. 60-35.4.
- Hardy, James A.: See—
- Storey, Arthur, and Hardy. 2,930,641.
- Hardy, James A., to Schwitzer Corp. Apparatus for assembling rubber bushings. 2,958,124, 11-1-60, Cl. 29-235.
- Hardy, James O. Steering indicator. 2,934,035, 4-26-60, Cl. 116-31.
- Hardy, Jean A.: See—
- Serruys, Max Y. A. M., and Hardy. 2,962,015.
- Hardy, John E., and L. J. Brittain, to The British Oxygen Co. Ltd. Electric arc welding of aluminum. 2,965,745, 12-20-60, Cl. 219-127.
- Hardy, Le Grand H., deceased (S. H. Hardy, executrix), G. R. Ferree, and M. C. Rittler, to said Ferree and said Rittler. Means for determining color sensitivity. 2,937,567, 5-24-60, Cl. 88-20.
- Hardy, Peter S., to Peerless Aluminum Foundry Co., Inc. Adjustable table mounting. 2,932,480, 4-12-60, Cl. 248-285.
- Hardy, Robert A., Jr.: See—
- Bonvicino, Guido E., and Hardy. 2,940,969.
- Wright, William B., Jr., Hardy, and Brabander. 2,944,081.
- Hardy, Robert D., to James R. Kearney Corp. Wire clamp. 2,958,067, 10-25-60, Cl. 339-109.
- Hardy, Rodman: See—
- Barber, Albert, Hardy, and Rowbotham. 2,957,205.
- Hardy, Roland L. Resiliently controlled differential tilting assembly for image stabilization and automatic levelling of optical instruments. 2,938,422, 5-31-60, Cl. 88-1.
- Hardy, Susanna H.: See—
- Hardy, Le Grand H., Ferree, and Rittler. 2,937,567.
- Hardy, William B.: See—
- Hosler, John F., and Hardy. 2,927,883.
- Hosler, John F., and Hardy. 2,935,445.
- Thelin, Jack H., and Hardy. 2,963,504.
- Hardy, William B., and J. F. Hosler, to American Cyanamid Co. Fungicide. 2,953,491, 9-20-60, Cl. 167-33.
- Hardy, William B., and F. H. Adams, to American Cyanamid Co. Diphenylamine-lactonitrile condensation product and petroleum hydrocarbons containing it. 2,959,472, 11-8-60, Cl. 44-75.
- Hardy, William B., W. S. Forster, and R. A. Coleman, to American Cyanamid Co. Ortho-hydroxybenzophenones with unsaturated ether substituents. 2,962,533, 11-29-60, Cl. 260-591.
- Hardy, William G., and F. H. Tarlton, to Rolls-Royce Ltd. Fluid-pressure-operated mechanisms with control valve. 2,922,440, 1-26-60, Cl. 137-622.
- Hare, Albert G. Side bearing assembly for railway vehicles. 2,957,733, 10-25-60, Cl. 308-40.
- Hare, Donald E.: See—
- Benjamin, Gordon L., Jr., and Hare. 2,956,823.
- Doyle, Irving W., and Hare. Re. 24,770.
- Hare, Richard C., to Dynex, Inc. Power operated master cylinder. 2,946,195, 7-26-60, Cl. 60-54.5.
- Hare, Richard C., to Dynex, Inc. Slide plate type hydraulic valve. 2,951,505, 9-6-60, Cl. 137-621.
- Hare, Terence G. Reversible ratchet type wrench. 2,957,377, 10-25-60, Cl. 81-63.2.
- Hare, Weston A., to E. I. du Pont de Nemours and Co. Blend of acrylonitrile polymer with polybutadiene vinyl ether, solutions thereof, shaped article therefrom, and method of making same. 2,938,008, 5-24-60, Cl. 260-32.6.
- Hare, Weston A., to E. I. du Pont de Nemours and Co. Compositions and fibers containing acrylonitrile polymer blends and method of making. 2,958,670, 11-1-60, Cl. 260-32.6.
- Hares, George B.: See—
- Dalton, Robert H., and Hares. 2,964,414.
- Harfenist, Morton: See—
- Bavley, Abraham, and Harfenist. 2,925,363.
- Harger, Ait E. Automatic rural mail box signal. 2,954,920, 10-4-60, Cl. 232-35.
- Hargis, Charles W.: See—
- Brannock, Kent C., Hargis, and Young. 2,957,028.
- Hargrave, Deibert A., and F. P. Omelianchuk, to Schaefer, Inc. Gravity-flow open-topped refrigerated display cabinet. 2,932,955, 4-19-60, Cl. 62-255.
- Hargrave, Willard B. Balanced binaural audio trainer. 2,920,139, 1-5-60, Cl. 179-1.
- Hargreaves, Robert F. Dehumidifying unit control means and method of making the same. 2,954,445, 9-27-60, Cl. 200-61.06.
- Hargreaves, William, to Daystrom, Inc. Electrical motor structure. 2,922,902, 1-26-60, Cl. 310-43.
- Hargreaves, William V., Jr., to Allen B. Du Mont Laboratories, Inc. Deviation compensated squelch circuit. 2,942,105, 6-21-60, Cl. 250-20.
- Harhuis, Harm, and F. A. Jacobs, to North American Philips Co., Inc. Assembly method for cathode-ray electrode system. 2,960,595, 11-15-60, Cl. 219-107.
- Haring, Horace E.: See—
- Farnsworth, Frank F., Haring, and Taylor. 2,962,965.
- Haringhuizen, Pieter J., to Stamicarbon N.V. Generation of cold or cooling by evaporation of a liquid evaporating at a very low temperature. 2,959,926, 11-15-60, Cl. 62-13.
- Haringhuizen, Pieter J., to Stamicarbon N.V. Process and apparatus for purifying gases. 2,960,836, 11-22-60, Cl. 62-13.
- Harjes, Frederick W., to Sylvania Electric Products Inc. Method for producing travelling wave tubes. 2,943,382, 7-5-60, Cl. 29-25.13.
- Harkenrider, Robert J., to G. D. Miller. Lubricator for diesel locomotive traction motor suspension bearings. 2,927,827, 3-8-60, Cl. 308-243.
- Harkenrider, Robert J., to Miller Lubricator Co. Journal box packing. 2,927,828, 3-8-60, Cl. 308-243.
- Harkenrider, Robert J., to Miller Lubricator Co. Journal box packing. 2,936,198, 5-10-60, Cl. 308-83.
- Harkenrider, Robert J., to Continental Can Co., Inc. Method and apparatus for injection molding. 2,950,501, 8-30-60, Cl. 18-30.
- Harkenrider, Robert J., L. R. Mizell, and J. Berch, to G. D. Miller. High lift fabric for laminated lubricator wick. 2,943,378, 7-5-60, Cl. 28-78.
- Harker, Charles B., to Bartelt Engineering Co. Package for tobacco or the like. 2,922,568, 1-26-60, Cl. 229-62.



- Harker, Charles B., to Bartelt Engineering Co. Machine for filling and closing cartons. 2,923,112, 2-2-60, Cl. 53—58.
- Harker, Charles B., to Bartelt Engineering Co. Dispensing device. 2,933,220, 4-19-60, Cl. 222—352.
- Harker, Charles B., to Riegel Paper Corp. Apparatus for handling flexible walled bags. 2,941,676, 6-21-60, Cl. 214—7.
- Harker, Charles B., to Bartelt Engineering Co. Packaging mechanism. 2,957,284, 10-25-60, Cl. 53—24.
- Harker, Donald K., and A. R. De Long, to Belco Glass, Inc. Vessel for tissue culture and the like comprising a magnetic stirrer. 2,958,517, 11-1-60, Cl. 259—122.
- Harker, John M., to International Business Machines Corp. Self-loading hydro-dynamic bearing. 2,937,240, 5-17-60, Cl. 179—100.2.
- Harkey, George D.: *See—*  
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- Harkless, Earl T., to Bell Telephone Laboratories, Inc. Wave-guide coupler. 2,922,122, 1-19-60, Cl. 333—10.
- Harkness, Andrew S., Ltd.: *See—*  
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Harkness, Thomas S. 2,944,462.  
Harkness, Thomas S., and Kolb. 2,932,581.
- Harkness, Joseph R., to Briggs & Stratton Corp. Means for timing plug firing in piezoelectric ignition system. 2,954,506, 9-27-60, Cl. 315—55.
- Harkness, Thomas S., to Andrew Smith Harkness Ltd. Cinematograph screen having improved properties. 2,934,997, 5-3-60, Cl. 88—28.9.
- Harkness, Thomas S., to Andrew S. Harkness, Ltd. Cinematograph screens. 2,944,462, 7-12-60, Cl. 88—28.9.
- Harkness, Thomas S., and O. K. Kolb, to A. S. Harkness, Ltd. Cinematograph screens. 2,932,581, 4-12-60, Cl. 117—33.5.
- Harkrader, Carl E., to Alpha Plastics, Inc. Club holder for golf bags. 2,938,559, 5-31-60, Cl. 150—1.5.
- Harlan, Campbell A. Scaffold bracket structure. 2,940,716, 6-14-60, Cl. 248—226.
- Harlan, George H., and J. S. Greenberg, to United States of America, Air Force. Pulse width discriminator. 2,951,988, 9-6-60, Cl. 328—112.
- Harlan, Jerry W., and A. L. Hensley, Jr., to Standard Oil Co. Determining activity of silica-alumina catalyst. 2,965,453, 12-20-60, Cl. 23—230.
- Harlands Ltd.: *See—*  
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- Harle, Harold P.: *See—*  
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- Harless, Charles A., to R. Hoe & Co., Inc. Printing machine folder. 2,919,914, 1-5-60, Cl. 270—77.
- Harless, Charles A., to Hess and Barker. Sheet cutting and folding machine. 2,941,798, 6-21-60, Cl. 270—72.
- Harless, Charles A., to R. Hoe & Co., Inc. Printing machine plate lock-up. 2,946,282, 7-26-60, Cl. 101—415.1.
- Harless, Charles A., and A. R. Hegeman, to R. Hoe & Co., Inc. Reversing gear drives for printing machines. 2,946,230, 7-26-60, Cl. 74—361.
- Harling, Denis W., to The General Electric Co. Ltd. Arrangements for modulating electric carrier wave oscillations. 2,937,344, 5-17-60, Cl. 332—38.
- Harlow, Marion L.: *See—*  
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- Harman, Albert L. Meat cleaner. 2,959,797, 11-15-60, Cl. 15—3.1.
- Harman, Arlington R., and P. H. Koch, to The Babcock & Wilcox Co. Recirculated gas damper control method and system for vapor generating and superheating units. 2,932,288, 4-12-60, Cl. 122—478.
- Harman, Cameron G., to Steel Founders' Society of America. Inorganic bonded cores for steel castings. 2,930,709, 3-29-60, Cl. 106—38.9.
- Harman, Denham: *See—*  
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- Harman, Floyd B. Cyclic multi-circuit interrupter mechanism. 2,945,924, 7-19-60, Cl. 200—33.
- Harman, George G., Jr. Electroluminescent microwave receiver. 2,928,937, 3-15-60, Cl. 250—21.
- Harman, Jack B., to Watts Electric & Mfg. Co. Composite tube structure. 2,941,694, 6-21-60, Cl. 222—107.
- Harman, Marion W., and J. J. D'Amico, to Monsanto Chemical Co. 2-[di-(lower alkyl)aminoethylthio]-4-lower alkylthiazole-5-carboxylic acid lower alkyl esters. 2,961,446, 11-22-60, Cl. 260—302.
- Harman, Robert E., and N. G. Brink, to Merck & Co., Inc. Eulicinine. 2,929,845, 3-22-60, Cl. 260—564.
- Harman, Rowland, and C. Williams, to D. Napier & Son Ltd. Speed control of rotary bladed machines. 2,941,120, 6-14-60, Cl. 317—5.
- Harman, Ward A., to General Electric Co. High frequency energy interchange apparatus. 2,962,620, 11-29-60, Cl. 315—3.5.
- Harmer, Albanus A., 40% to L. E. Cochrane and 20% to J. H. Evans. Placement support for reinforcing rods. 2,924,091, 2-9-60, Cl. 72—122.
- Harmer, David E., and E. T. Heckerth, to The Dow Chemical Co. Process for purifying propylene oxide. 2,949,413, 8-16-60, Cl. 204—154.
- Harnes, Oren B. Predetermined torque release hand tool. 2,924,134, 2-9-60, Cl. 81—52.4.
- Harmon, Albert D.: *See—*  
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- Harmon, Carlyle, to Chicopee Mfg. Corp. Low cover factor woven cellulose textile material resistant to corrugation in washing and tumble drying. 2,945,738, 7-19-60, Cl. 8—116.
- Harmon, Carlyle, and F. W. Shoemaker, to Chicopee Mfg. Corp. Machine for and method of cross stretching non-woven webs. 2,945,283, 7-19-60, Cl. 28—76.
- Harmon, Delbert K.: *See—*  
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- Harmon, Edwin R., to Pacific Turning Unit Corp. Machine for supporting and rotating electric signs. 2,941,322, 6-21-60, Cl. 40—33.
- Harmon, Gregory J., to Reed Research, Inc. Stamp sensing letter sorter. 2,936,886, 5-17-60, Cl. 209—111.
- Harmon, James A., J. Sutherland, and C. A. Pitts, to The Dow Chemical Co. Method of facilitating production of oil or gas from a well penetrating a petroleum-bearing stratum contiguous to a water-bearing zone. 2,959,223, 11-8-60, Cl. 166—22.
- Harmon, Paul V., to Precision Parts Corp. Disappearing stairway. 2,931,456, 4-5-60, Cl. 182—80.
- Harmon, Shepard L., and J. Hohl, to Owens-Illinois Glass Co. Method of and apparatus for closing glass containers. 2,950,587, 8-30-60, Cl. 53—22.
- Harmon, Shepard L., and J. Hohl, to Owens-Illinois Glass Co. Packaging apparatus. 2,962,060, 11-29-60, Cl. 141—70.
- Harmon, Warren J. Kitchen cabinet construction. 2,950,158, 8-23-60, Cl. 312—342.
- Harmos, Ferenc, P. Förstner, G. Csapody, M. Deutsch, and L. Lukacs, to Agrimpex Mezogardasagi Kukereskedelmi. Method for the treatment of beet clusters preparatory to sowing. 2,959,893, 11-15-60, Cl. 47—58.
- Harms, Harland E.: *See—*  
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- Harms, William H.: *See—*  
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- Harnden, John D., Jr., to General Electric Co. Ignition system. 2,961,580, 11-22-60, Cl. 315—254.
- Harner, Kermit L.: *See—*  
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- Harney, Bernard C., to Lipe-Rollway Corp. Automatic bar feed. 2,945,287, 7-19-60, Cl. 29—93.
- Harney, Patrick J. Vortex air thermometer. 2,942,472, 6-28-60, Cl. 73—349.
- Harnisch, Heinz, F. Rodis, and K. Beltz, to Knapsack-Griesheim Aktiengesellschaft. Recovery of hydrogen halides. 2,950,170, 8-23-60, Cl. 23—154.
- Harnischfeger Corp.: *See—*  
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- Harnish, James R., to Borg-Warner Corp. Heat pump systems. 2,928,255, 3-15-60, Cl. 62—81.
- Haroldson, Arthur H., and G. H. Watrous, to Continental-Diamond Fibre Corp. Process for molding sintered polytetrafluoroethylene articles. 2,939,178, 6-7-60, Cl. 18—55.
- Haroldson, Arthur H., E. A. Mulrooney, Jr., and W. P. Hogan, to Continental-Diamond Fibre Corp. Apparatus and method for calendaring plastic sheet material. 2,946,087, 7-26-60, Cl. 18—2.
- Haroldson, Arthur H., J. S. Taylor, and W. F. Cann, Jr., to Continental-Diamond Fibre Corp. Polytetrafluoroethylene tubing and method of making the same. 2,964,065, 12-13-60, Cl. 138—76.
- Haroldson, Victor G. Two-piece pulley. 2,933,934, 4-26-60, Cl. 74—230.3.
- Haroldson, Victor G. Fastener structure for pulleys and the like. 2,958,230, 11-1-60, Cl. 74—230.3.
- Haron, Carl I., to Texas Instruments Inc. Method of molding. 2,955,906, 10-11-60, Cl. 18—47.
- Harowitz, Charles L.: *See—*  
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- Haroy Co.: *See—*  
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- Harp, Alonzo M., to American Machine and Metals, Inc. Fan. 2,932,441, 4-12-60, Cl. 230—117.
- Harp, Marvin W. Two wheeled tractor. 2,934,157, 4-26-60, Cl. 180—21.
- Harper, Arthur C., Jr.: *See—*  
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- Harper, Aubrey E., K. Harrison, and E. G. Cooke, to Imperial Chemical Industries Ltd. Ammonium nitrate compositions. 2,923,610, 2-2-60, Cl. 52—5.
- Harper, Charles E., and R. K. McGraw, to Tilok Corp. Aligning tile spacer. 2,940,264, 6-14-60, Cl. 61—13.
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- Harper, Ernest V., to General Motors Corp. Weld nut. 2,936,806, 5-17-60, Cl. 151—41.7.
- Harper, George F.: *See—*  
Kaye, Joseph, Kurtz, and Harper. 2,927,398.
- Harper, John F., to Globe-Union Inc. Battery mounting structure. 2,925,137, 2-16-60, Cl. 180—68.5.
- Harper, John F. Buffing machinery. 2,964,883, 12-20-60, Cl. 51—76.
- Harper, John L., to Westinghouse Electric Corp. Metals joining apparatus. 2,933,588, 4-19-60, Cl. 219—85.



- Harper, Kenneth A., to Phillips Petroleum Co. Combination catalytic cracking process producing aromatics concentrate. 2,941,936, 6-21-60, Cl. 208-74.
- Harper, Kenneth A., to Phillips Petroleum Co. Fluidized conversion and stripping apparatus. 2,965,454, 12-20-60, Cl. 23-288.
- Harper, Leonard R., to International Business Machines Corp. Single shot bistable circuit. 2,937,291, 5-17-60, Cl. 307-88.5.
- Harper, Leonard R., to International Business Machines Corp. Electronic computer. 2,966,304, 12-27-60, Cl. 235-160.
- Harper, Lyndus E., to B-I-F Industries, Inc. Tilting disk weigher and feeder. 2,922,550, 1-26-60, Cl. 222-55.
- Harper, Murry D. Target pistol. 2,940,202, 6-14-60, Cl. 42-69.
- Harper, Robert H., to Swift & Co. Meat curing. 2,930,703, 3-29-60, Cl. 99-159.
- Harper, Robert H., and R. W. Kittle, to Swift & Co. Getting of vacuum packages. 2,925,346, 2-16-60, Cl. 99-174.
- Harper, Roy. Watering tank heating unit. 2,951,477, 9-6-60, Cl. 126-360.
- Harper, Ted J. Fish and game holding clamp. 2,945,256, 7-19-60, Cl. 17-8.
- Harper-Wyman Co.: See—
- Lamar, Charles C. 2,950,865.
- Remus, Everett A., Lamar, and Huff. 2,961,000.
- Harpman, Sol. Send-and-return envelopes. 2,936,946, 5-17-60, Cl. 229-73.
- Harr, John A.: See—
- Budlong, Willis A., Drew, and Harr. 2,955,165.
- Harr, Robert R., to Symington-Wayne Corp. Safety latch mechanism. 2,954,100, 9-27-60, Cl. 187-8.49.
- Harrel, Chastain G., and W. A. Bosin, to The Pillsbury Co. Feed composition and method of making and testing. 2,928,739, 3-15-60, Cl. 99-2.
- Harrer, Paul H., to Allis-Chalmers Mfg. Co. Reversible belt drive. 2,924,982, 2-16-60, Cl. 74-220.
- Harrer, Theodore M., and M. W. Loveland, to Atlas-Pacific Engineering Co., Inc. Peach half gripper for peach pitting head. 2,952,286, 9-13-60, Cl. 146-28.
- Harrick, Nicolas J., to North American Philips Co., Inc. Pulse delay circuit. 2,941,092, 6-14-60, Cl. 307-88.5.
- Harrick, Nicolas J., to North American Philips Co., Inc. Infra-red-radiation polarizer. 2,964,635, 12-13-60, Cl. 250-86.
- Harries, Barbara K.: See—
- Harries, John H. O., and B. K. 2,932,754.
- Harries, John H. O., to Harries Television Research Ltd. Electron discharge tubes for forming images on display screens. 2,960,615, 11-15-60, Cl. 313-64.
- Harries, John H. O. and B. K., to The Machlett Laboratories, Inc. Electron tubes. 2,932,754, 4-12-60, Cl. 313-69.
- Harries Television Research Ltd.: See—
- Harries, John H. O. 2,960,615.
- Harrigan, Marvin P. Fastener driving devices. 2,932,422, 4-12-60, Cl. 218-34.
- Harriman, Herbert A., and J. L. Paine, to General Electric Co. Peak reading circuit. 2,924,769, 2-9-60, Cl. 321-8.
- Harrington, Ambrose I., to The National Supply Co. Drive for power pumps. 2,925,039, 2-16-60, Cl. 103-4.
- Harrington, Bertie S.: See—
- Gordon, Roy C., and Harrington. 2,938,804.
- Harrington, Frank A., to Marco Industries. Method of fabricating indicator light with molded nylon jacket. 2,934,792, 5-3-60, Cl. 18-59.
- Harrington, George H., and C. F. Ruff; said Harrington assor. to said Ruff. Meter for registering high-rate flow volume. 2,943,484, 7-5-60, Cl. 73-197.
- Harrington Mfg. Co., Inc. The: See—
- Mitchell, John D. 2,943,630.
- Harrington & Richardson, Inc.: See—
- Mulno, Lester F. 2,945,316.
- Harrington, Robert C., Jr.: See—
- Smith, James L., and Harrington. 2,957,014.
- Harrington, Robert C., Jr., to Eastman Kodak Co. Inhibition of color formation during sulfation. 2,928,860, 3-15-60, Cl. 260-458.
- Harrington, Robert C., Jr., and J. L. Smith, to Eastman Kodak Co. Flameproof cellulose organic acid ester fibers and process for their preparation. 2,933,402, 4-19-60, Cl. 106-15.
- Harrington, Roger E., to Union Carbide Corp. Light generation system using rectangular electrode. 2,957,108, 10-18-60, Cl. 315-347.
- Harrington, Roy E., and B. M. Silverberg, to Deere & Co. Tractor mounted cultivator. 2,927,652, 3-8-60, Cl. 172-273.
- Harrington, Roy E., and B. M. Silverberg, to Deere & Co. Seat structure. 2,936,818, 5-17-60, Cl. 155-51.
- Harris, Alan J., and W. C. Ash, to Gilbert-Ash Ltd. Prestressed concrete floor, roof and like structures. 2,925,727, 2-23-60, Cl. 72-61.
- Harris, Ben A.: See—
- Fisher, Charles R., Jr., Harris, and Webster. 2,951,242.
- Harris, Ben A., to General Dynamics Corp. Automatic toll ticketing system with restricted service. 2,925,468, 2-16-60, Cl. 179-8.
- Harris, Ben A., to General Dynamics Corp. Alternate routing in a step-by-step telephone system. 2,938,960, 5-31-60, Cl. 179-18.
- Harris, Ben A., to General Dynamics Corp. Clock-calendar circuit. 2,947,817, 8-2-60, Cl. 179-7.1.
- Harris, Benjamin R., to Continental Oil Co. Preparation of chlormethylated alkyl aromatic hydrocarbons. 2,938,930, 5-31-60, Cl. 260-65.1.
- Harris, Bernard: See—
- Hughes, William, and Harris. 2,937,928.
- Harris, Carl C. Stencil roll. 2,957,191, 10-25-60, Cl. 15-132.5.
- Harris, Charles L. Hollow rectangular sectional metal structural member. 2,941,635, 6-21-60, Cl. 189-34.
- Harris, Dan P. Bathroom rack. 2,936,076, 5-10-60, Cl. 211-113.
- Harris, David P., and C. Mather, to Renold Chains Ltd. Jigs, moulds and the like. 2,936,486, 5-17-60, Cl. 18-34.
- Harris, Donald A., to Hyster Co. Hose control arrangement. 2,932,419, 4-12-60, Cl. 214-652.
- Harris, Donald B. Radio transmission systems with modifiable passive responder. 2,927,321, 3-1-60, Cl. 343-178.
- Harris, Edward F. Process of fabricating a whip antenna. 2,938,210, 5-24-60, Cl. 343-895.
- Harris, Edward F. Multifrequency resonant antenna. 2,966,678, 12-27-60, Cl. 343-809.
- Harris, Edward F. Unloaded helical antenna. 2,966,679, 12-27-60, Cl. 343-895.
- Harris, Edward H., Jr., and E. M. Filachione, to United States of America, Agriculture. Tanning with acetylacetone. 2,938,763, 5-31-60, Cl. 8-94.33.
- Harris, Edward J.: See—
- Fröhlich, Adolf, and Harris. 2,939,175.
- Fröhlich, Adolf, and Harris. 2,939,520.
- Fröhlich, Adolf, and Harris. 2,953,183.
- Fröhlich, Adolf H., and Harris. 2,921,337.
- Fröhlich, Adolf H., and Harris. 2,939,503.
- Harris, Edward P., to General Motors Corp. Apparatus and method for molding foam latex strips and the like. 2,931,063, 4-5-60, Cl. 18-4.
- Harris, Edward P., to General Motors Corp. Apparatus for making tubing. 2,935,003, 5-3-60, Cl. 93-80.
- Harris, Edward P., to General Motors Corp. Seat construction. 2,949,956, 8-23-60, Cl. 155-184.
- Harris, Edward P., and J. R. Wall, to General Motors Corp. Foamed rubber strip manufacturing process. 2,923,029, 2-2-60, Cl. 18-1.
- Harris Foundry & Machine Co.: See—
- Thompson, Wallace M. 2,932,247.
- Harris, Francis L. R., to Stormmaster Tornado Shelter Co. Process for making a concrete shelter. 2,936,504, 5-17-60, Cl. 25-155.
- Harris, Franklin H., to United States of America, Navy. Method of forming a storage electrode. 2,926,419, 3-1-60, Cl. 29-25.17.
- Harris, Franklin H., to United States of America, Navy. Cathode ray signal storage device. 2,957,140, 10-18-60, Cl. 328-124.
- Harris, George A.: See—
- Benn, Robert E., Harris, and Phelps. 2,919,672.
- Harris, George R. Sink mounting device. 2,932,036, 4-12-60, Cl. 4-187.
- Harris, Glen H.: See—
- Bowerman, Hulie E., and Harris. 2,940,128.
- Harris, Gordon R.: See—
- Wayman, Morris, and Harris. 2,939,813.
- Harris, Guy H., P. S. Ichioka, and B. C. Fischback, to The Dow Chemical Co. N-alkanoyl dinitrobenzamides. 2,937,204, 5-17-60, Cl. 260-558.
- Harris, Guy H., and B. C. Fischback, to The Dow Chemical Co. 3,5-dinitro-o-toluic acid hydrazides. 2,951,868, 9-6-60, Cl. 260-558.
- Harris, Herbert. Stapling devices. 2,920,326, 1-12-60, Cl. 1-49.
- Harris, Herbert W.: See—
- Rench, Harry D., and Harris. 2,955,303.
- Rench, Harry D., and Harris. 2,961,673.
- Harris, Hunter C., Jr., M. Leifer, and D. W. Cawood, to Sylvia Electric Products Inc. Modified cross-correlation radio system and method. 2,941,202, 6-14-60, Cl. 343-101.
- Harris, Inc.: See—
- Simblest, Allen L. 2,956,496.
- Harris-Intertype Corp.: See—
- Harris, Wilbur T. 2,949,384.
- Haywood, Russell I. 2,939,357.
- Helmig, Richard W. 2,933,040.
- Hooven, Frederick J., and O'Brien. 2,944,472.
- Miesse, Carlton B., Jr. 2,937,594.
- O'Brien, Richard C. 2,947,917.
- Pritchard, Howard A. 2,940,387.
- Royer, Arthur G. 2,950,107.
- Seel, Howard J. 2,958,527.
- Staines, Alfred J. 2,950,913.
- Taylor, Norman W. 2,928,341.
- Thompson, Robert H. 2,948,216.
- Watts, Sherman S. 2,952,458.
- Yingling, Victor N., and Seel. 2,942,878.
- Harris, Jacob W., and H. G. Hubbard, to Dresser Industries, Inc. Ball valve cage. 2,937,659, 5-24-60, Cl. 137-533.13.
- Harris, James F. Concrete block molding apparatus. 2,958,917, 11-8-60, Cl. 25-41.
- Harris, James O., to Monsanto Chemical Co. Rubber having enhanced resistance to degradation. 2,921,922, 1-19-60, Cl. 260-45.8.



- Harris, Jean F., and H. W. Horlacher, to The Taylor-Winfield Corp. Method and apparatus for removing welding flash. 2,945,117, 7-12-60, Cl. 219-97.
- Harris, Jess W. Device for providing water and liquid food to animals. 2,946,308, 7-26-60, Cl. 119-18.
- Harris, John F., Jr., to E. I. du Pont de Nemours and Co. Novel derivatives of bis(perfluoroalkyl)acetylenes. 2,923,746, 2-2-60, Cl. 260-648.
- Harris, John F., Jr., to E. I. du Pont de Nemours and Co. Nitroaryldisulfide pesticide. 2,962,417, 11-29-60, Cl. 167-30.
- Harris, John F., Jr., to E. I. du Pont de Nemours and Co. Polyfluorothioals and method of preparing same. 2,965,677, 12-20-60, Cl. 260-609.
- Harris, John J., and R. C. Ross, to The New York Air Brake Co. Auxiliary quick service venting mechanism. 2,937,907, 5-24-60, Cl. 303-16.
- Harris, John L. Control device. 2,960,582, 11-15-60, Cl. 200-38.
- Harris, John R., to Bullock Mfg. Co., Inc. Pneumatic rendering machine. 2,920,943, 1-12-60, Cl. 23-269.
- Harris, Joseph E., Jr., and R. K. Becker, to Philco Corp. Cooking range oven with removable liner. 2,944,139, 7-5-60, Cl. 219-35.
- Harris, Joseph M., K. H. Butler, and M. J. Thomas, to Sylvania Electric Products Inc. Electric discharge lamp. 2,966,605, 12-27-60, Cl. 313-109.
- Harris, Joseph N. Apparatus for cleaning brushes. 2,931,661, 4-5-60, Cl. 279-103.
- Harris, Joseph R., to The Federal Machine & Welder Co. Machine slides. 2,919,957, 1-5-60, Cl. 308-6.
- Harris, Kenneth E., and D. A. Levell, to A. C. Cosser Ltd. Secondary radar systems. 2,962,713, 11-29-60, Cl. 343-17.1.
- Harris, Kenneth J., to Deere & Co. Drive mechanism. 2,939,344, 6-7-60, Cl. 74-768.
- Harris, Lionel R. F., to Her Majesty's Postmaster General. Pulse distribution systems. 2,927,161, 3-1-60, Cl. 179-15.
- Harris, Lionel R. F., to Her Majesty's Postmaster General. Alternating current signal receiving apparatus. 2,930,852, 3-29-60, Cl. 179-15.
- Harris, Lionel R. F., to Her Majesty's Postmaster General. Electrical selecting systems. 2,931,013, 3-29-60, Cl. 179-18.
- Harris, Marlin J., Jr. Agricultural process and apparatus for carrying out the same. 2,943,419, 7-5-60, Cl. 47-58.
- Harris, Mary C. Presser attachment for sewing machine. 2,955,554, 10-11-60, Cl. 112-217.
- Harris, Robert C., to Bendix Aviation Corp. Gap bridging material. 2,942,134, 6-21-60, Cl. 313-131.
- Harris, Robert C., to The Bendix Corp. Electrical discharge device. 2,953,704, 9-20-60, Cl. 313-131.
- Harris, Robert L., and D. R. Olsen, to Allied Chemical Corp. Conversion of tetrahydroanthraquinone compound to anthraquinone compound. 2,948,739, 8-9-60, Cl. 260-369.
- Harris, Robert W., to A & W Mfg. Corp. Knitted fabric. 2,923,143, 2-2-60, Cl. 66-192.
- Harris, Sigmund P.: See—Brinkerhoff, Joris M., and Harris. 2,964,665.
- Harris, Sigmund P., to Tracerlab, Inc. Apparatus for producing neutrons. 2,964,634, 12-13-60, Cl. 250-84.5.
- Harris, Stanley E., to The Mollart Engineering Co. Ltd. Universal joints. 2,947,157, 8-2-60, Cl. 64-18.
- Harris, Stephen W., to Lucky Tiger Mfg. Co. Combination container and massage brush. 2,944,273, 7-12-60, Cl. 15-105.
- Harris, Sterling G., to The Blue Channel Corp. Apparatus for recovering meat from bone material by flotation. 2,929,502, 3-22-60, Cl. 209-173.
- Harris, Thomas, to Structural Fibers, Inc. Containers. 2,943,758, 7-5-60, Cl. 220-4.
- Harris, Thomas I., to Bell & Howell Co. Optical objective. 2,962,931, 12-6-60, Cl. 88-57.
- Harris, Thomas I., W. J. Johnson, and I. C. Sandback, to Bell & Howell Co. Wide angle lens attachment. 2,956,475, 10-18-60, Cl. 88-57.
- Harris Transducer Corp.: See—Harris, Wilbur T. 2,922,483.
- Harris, Wilbur T. 2,947,823.
- Harris, Wilbur T. 2,947,888.
- Harris, Wilbur T. 2,947,969.
- Harris, Wilbur T. 2,955,217.
- Harris, Wilbur T. 2,962,695.
- Harris, Wilbur T. 2,964,837.
- Harris, Wilbur T., and Edwards. 2,947,890.
- Harris, Wendell L.: See—Jaffe, Lawrence L., and Harris. 2,940,877.
- Harris, Wilbur T., to The Harris Transducer Corp. Acoustic or mechanical impedance. 2,922,483, 1-26-60, Cl. 181-5.
- Harris, Wilbur T., to The Harris Transducer Corp. Electro-mechanical transducer. 2,947,823, 8-2-60, Cl. 179-110.
- Harris, Wilbur T., to The Harris Transducer Corp. Transducer construction. 2,947,888, 8-2-60, Cl. 310-26.
- Harris, Wilbur T., to The Harris Transducer Corp. Elongated electroacoustic transducer with integral reinforced mounting flanges. 2,947,969, 8-2-60, Cl. 340-5.
- Harris, Wilbur T., to The Harris Transducer Corp. Impregnating roller. 2,949,384, 8-16-60, Cl. 117-93.
- Harris, Wilbur T., to Harris Transducer Corp. Transducer element. 2,955,217, 10-4-60, Cl. 310-26.
- Harris, Wilbur T., to The Harris Transducer Corp. Resonant low-frequency transducer. 2,962,695, 11-29-60, Cl. 340-10.
- Harris, Wilbur T., to The Harris Transducer Corp. Method of transducer manufacture. 2,964,837, 12-20-60, Cl. 29-153.58.
- Harris, Wilbur T., and P. B. Edwards, to The Harris Transducer Corp. Transducer. 2,947,890, 8-2-60, Cl. 310-26.
- Harris, William C., and K. G. Klema, to S. C. Johnson & Son Inc. Resilient hand stamp. 2,966,116, 12-27-60, Cl. 101-368.
- Harris, William E. Differential mounting for a motor vehicle. 2,944,617, 7-12-60, Cl. 180-42.
- Harris, William L. Devotional service assistance table for church use. 2,947,584, 8-2-60, Cl. 311-2.
- Harris, William M., R. H. Linnell, and W. F. Meredith, to Titanium Zirconium Co., Inc. Glass polish and process of polishing glass. 2,934,416, 4-26-60, Cl. 51-309.
- Harris, William P., and I. L. Cooter, to United States of America, Commerce. Bridge method for the measurement of core losses in ferromagnetic material at high flux densities. 2,960,652, 11-15-60, Cl. 324-34.
- Harrison, Ben C.: See—Klein, Morton J., Solomon, and Harrison. 2,961,469.
- Harrison, Benjamin and J. K., to The Oliver Corp. Apparatus for converting a conventional four-wheel tractor into a two-wheel tractor and two-wheel implement combination. 2,922,237, 1-26-60, Cl. 37-126.
- Harrison, Bertram M., to Raytheon Co. Aircraft speed and course measurement. 2,962,244, 11-29-60, Cl. 244-77.
- Harrison, Charles W., to Bell Telephone Laboratories, Inc. Aperture equalizer and phase correction for television. 2,922,965, 1-26-60, Cl. 333-28.
- Harrison, Charles W., to Bell Telephone Laboratories, Inc. Counter or frequency division circuit. 2,924,708, 2-9-60, Cl. 250-27.
- Harrison, Charles W. Regulated voltage supply. 2,942,174, 6-21-60, Cl. 323-22.
- Harrison, Donald A., to International Business Machines Corp. Communications system. 2,946,986, 7-26-60, Cl. 340-174.
- Harrison, Edward S., to The Pfandler Co. Mechanical seal assembly and method of operation. 2,931,631, 4-5-60, Cl. 257-305.
- Harrison, George. Method of and means for making castings. 2,962,777, 12-6-60, Cl. 22-57.3.
- Harrison, George A., Jr.: See—Dumas, Frances L. 2,937,680.
- Harrison, George A., Jr. Toilet flush tank bowl valve guide. 2,931,050, 4-5-60, Cl. 4-57.
- Harrison, George C. Vending device. 2,950,154, 8-23-60, Cl. 312-35.
- Harrison, George C., and H. C. Brinker, to Minnesota Mining and Mfg. Co. Castor oil, diglycolic acid-organic diisocyanate prepolymers and cellular products prepared therefrom. 2,921,916, 1-19-60, Cl. 260-2.5.
- Harrison, George R.: See—Rich, David C., Archer, and Harrison. 2,936,551.
- Harrison, Henry. Wind speed and direction indicator. 2,934,950, 5-3-60, Cl. 73-179.
- Harrison, Homer S., to Allied Steel and Conveyors, Division of The Sparton Corp. Automatic selective dispatch and transfer conveyor system. 2,940,400, 6-14-60, Cl. 104-88.
- Harrison, James B., and O. L. Magell, to Wallace & Tiernan Inc. Peroxy phosphate esters. 2,960,526, 11-15-60, Cl. 260-461.
- Harrison, James M.: See—Smucker, Robert E., and Harrison. 2,928,125.
- Harrison, James M., and R. E. Smucker, to Crown Machine and Tool Co. Molding mechanism and heating arrangement. 2,951,260, 9-6-60, Cl. 18-5.
- Harrison, John B.: See—McCulley, James M., Kiraly, and Harrison. 2,950,159.
- Harrison, John D., to Quality Weaving Co. Bookmarks. 2,964,010, 12-13-60, Cl. 116-119.
- Harrison, John E. R., and S. Kagan, to Avco Mfg. Corp. Variable inductance for loading antenna. 2,931,034, 3-29-60, Cl. 343-750.
- Harrison, John E. R., and S. Kagan, to Avco Mfg. Corp. Transistorized portable communication set. 2,935,606, 5-3-60, Cl. 250-13.
- Harrison, John W.: See—Middleton, John R. L., and Harrison. 2,939,775.
- Harrison, John W., and J. N. Welch, to W. R. Grace & Co. Film sealing mechanism for packaging machines. 2,963,838, 12-13-60, Cl. 53-79.
- Harrison, Jolly K.: See—Harrison, Benjamin and J. K. 2,922,237.
- Harrison, Jonas P.: See—Bourguet, Jean M., and Harrison. 2,951,030.
- Harrison, Kenneth: See—Harper, Aubrey E., Harrison, and Cooke. 2,923,610.
- Harrison, Kenneth, and E. G. Cooke, to Imperial Chemical Industries Ltd. Gas-producing compositions. 2,923,612, 2-2-60, Cl. 52-14.
- Harrison, Kenneth W., to Telephone Mfg. Co. Ltd. Modulating arrangements for carrier wave telephone or like systems. 2,939,917, 6-7-60, Cl. 179-15.



- Harrison, Marvin E.: *See*—  
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 Harrison, Richard, III, H. V. Shriver, and A. J. Holland, Jr. Inflatable shelter. 2,938,526, 5-31-60, Cl. 135-1.  
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 Pearson, Edward K. 2,936,189.  
 Harrison, Samuel F. Combined burglar alarm and window lock. 2,957,445, 10-25-60, Cl. 116-91.  
 Harrison, Stuart A., to General Mills, Inc. Dimeric fatty acids and esters thereof. 2,964,545, 12-13-60, Cl. 260-407.  
 Harrison, Stuart A., to General Mills, Inc. Diimidazoline from C<sub>8</sub> dibasic acid. 2,966,478, 12-27-60, Cl. 260-47.  
 Harrison, Wallace. Portable meter rack. 2,931,512, 4-5-60, Cl. 211-26.  
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 Gute, Loren R., Harrison, and Schmitz. 2,959,968.  
 Harrison, Walter D., to General Motors Corp. Windshield wiper actuating mechanism. 2,949,035, 8-16-60, Cl. 74-70.  
 Harrison, William V., and G. E. Flinn, to Borg-Warner Corp. Control for transmission. 2,938,403, 5-31-60, Cl. 74-472.  
 Harriss, Lloyd J. Frozen pie package. 2,965,501, 12-20-60, Cl. 99-192.  
 Harrod, Belva G. Timer support. 2,948,404, 8-9-60, Cl. 211-74.  
 Harrod, Yeuell W. Rim anchored tire demounting device. 2,925,124, 2-16-60, Cl. 157-126.  
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 Harrop, Clifford B.: *See*—  
 Scarlett, Arthur A., Penfold, and Harrop. 2,959,233.  
 Harrop, Raymond N., and J. M. Gardner, to D. Napier & Son Ltd. Thrust bearings, face seals or the like. 2,950,942, 8-30-60, Cl. 308-160.  
 Harrow, Lee S.: *See*—  
 Cosby, Clarence C., Jr., Harrow, and Phalen. 2,935,228.  
 Harry, Gordon W.: *See*—  
 Elder, Gordon B., and Harry. 2,939,480.  
 Harry, Gordon W., to General Motors Corp. Fuel pump with pulsator. 2,929,333, 3-22-60, Cl. 103-150.  
 Harry, Henry A. Sealing strip for overlapped corrugated panels. 2,923,386, 2-2-60, Cl. 189-36.  
 Harry, Henry A. Window assembly. 2,923,963, 2-9-60, Cl. 16-172.  
 Harsch, William E.: *See*—  
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 Harsco Corp.: *See*—  
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 Harse, Douglas H., to General Electric Co. Mounting means for a deflection yoke assembly. 2,942,127, 6-21-60, Cl. 313-76.  
 Harse, Douglas H., to General Electric Co. Horizontal sweep transformer. 2,956,250, 10-11-60, Cl. 336-192.  
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 Harshberger, Norman P. Method of molding a low density high strength shaped body from a dilute slurry. 2,958,623, 11-1-60, Cl. 162-136.  
 Harshfield, Garth B. Heater. 2,941,525, 6-21-60, Cl. 126-85.  
 Harshman, Chester E.: *See*—  
 Hottendorf, William J., and Harshman. 2,933,987.  
 Harshman, Richard C., and R. L. Holbrook, to Olin Mathieson Chemical Corp. Water treating composition. 2,936,289, 5-10-60, Cl. 252-181.  
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 Harslem, Eric W.: *See*—  
 Burton, Harrison W., and Harslem. 2,928,240.  
 Hart, Adolph. Processing cylinders for pile materials. 2,961,733, 11-29-60, Cl. 26-2.  
 Hart, Benjamin F. Flavanone compounds and preparation thereof. 2,926,162, 2-23-60, Cl. 260-210.  
 Hart, Charles A., to Outboard Marine Corp. Outboard motor transom bracket. 2,954,950, 10-4-60, Cl. 248-4.  
 Hart, Frank A.: *See*—  
 Chatt, Joseph, Hart, and Fielding. 2,922,819.  
 Smith, Joseph D., and Hart. 2,931,157.  
 Hart, Frederick R., Jr., to The Gabriel Co. Weatherproof antenna and reflector and method of making the same. 2,948,896, 8-9-60, Cl. 343-873.  
 Hart, Frederick R., Jr., to The Gabriel Co. Method of making reflector. 2,960,950, 11-22-60, Cl. 113-51.  
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 Hart, Merida L. 2,948,231.  
 Hart, Irwin M. Time-controlled activated vehicular speed limit signal. 2,965,880, 12-20-60, Cl. 340-81.  
 Hart, James A., to Socony Mobil Oil Co., Inc. Conversion of hydrocarbons. 2,921,019, 1-12-60, Cl. 208-169.  
 Hart, James F.: *See*—  
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 Hart, James L., and R. E. Reusser, to Phillips Petroleum Co. Uranium processing. 2,953,432, 9-20-60, Cl. 23-145.  
 Hart, John A.: *See*—  
 Stevens, Norman B., and Hart. 2,922,066.  
 Hart, John B. Anti-friction bearing. 2,933,352, 4-19-60, Cl. 308-1.  
 Hart, John C., and E. A. Luring, to Minnesota and Ontario Paper Co. Fissured coated fiberboard and method of manufacture. 2,947,647, 8-2-60, Cl. 117-41.  
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 Hart, John G., and K. A. Kosbab, to General Motors Corp. Control mechanism for windshield wipers and washers. 2,957,193, 10-25-60, Cl. 15-250.02.  
 Hart, John G., and E. K. Ziegler, to General Motors Corp. Windshield washer. 2,958,891, 11-8-60, Cl. 15-250.02.  
 Hart, Lee D.: *See*—  
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 Hart, Merida L., to Hart Industries, Inc. Wire line operated well pump. 2,948,231, 8-9-60, Cl. 103-181.  
 Hart, Michael J., to North American Philips Co., Inc. Cold-cathode stepping tubes. 2,925,531, 2-16-60, Cl. 315-846.  
 Hart, Raymond, to Rolls-Royce Ltd. Stator for multi-stage axial-flow compressor. 2,928,586, 3-15-60, Cl. 230-133.  
 Hart, Raymond, and P. R. Hodgkinson, to Rolls-Royce Ltd. Rotors for axial-flow fluid machines with pivoted blades and blade pivot retaining means. 2,925,997, 2-23-60, Cl. 253-77.  
 Hart, Raymond, and D. A. Roberts, to Rolls-Royce Ltd. Stator construction for multi-stage axial-flow compressor. 2,932,442, 4-12-60, Cl. 230-122.  
 Hart, Theodore H., and J. F. Pressurized suit. 2,939,148, 6-7-60, Cl. 2-21.  
 Hart, Vincent E., and O. D. Whitwell, to The Clark Controller Co. Wire drawing die block motor control. 2,926,292, 2-23-60, Cl. 318-7.  
 Hart, William F., to American Cyanamid Co. Process for post-bodding styrenated oil-modified alkyd resins. 2,944,991, 7-12-60, Cl. 260-22.  
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 Hardeck, Paul, to Rensselaer Polytechnic Institute. Method of manufacturing heavy water. 2,952,525, 9-13-60, Cl. 23-204.  
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 Hardeck, Paul, and S. Dondes, to United States of America, Atomic Energy Commission. Source of products of nuclear fission. 2,928,780, 3-15-60, Cl. 204-154.2.  
 Hartel, Erwin H., to Cleveland Pneumatic Industries, Inc. Tandem landing gear. 2,930,552, 3-29-60, Cl. 244-103.  
 Hartel, Erwin H., to Cleveland Pneumatic Industries, Inc. Landing gear retraction system. 2,939,655, 6-7-60, Cl. 244-102.  
 Hartel, Erwin H., to Cleveland Pneumatic Industries, Inc. Jetted wheel for aircraft. 2,941,757, 6-21-60, Cl. 244-103.  
 Hartel, Erwin H., to The Cleveland Pneumatic Industries, Inc. Steering disconnect for aircraft. 2,943,867, 7-5-60, Cl. 280-442.  
 Hartel, Erwin H., to Cleveland Pneumatic Industries, Inc. Retractable landing gear. 2,959,381, 11-8-60, Cl. 244-102.  
 Hartel, Erwin H., to The Cleveland Pneumatic Tool Co. Retractable landing gear. 2,960,288, 11-15-60, Cl. 244-102.  
 Hartel, Erwin H., and W. B. Westcott, Jr., to Cleveland Pneumatic Industries, Inc. Landing gear construction. 2,943,827, 7-5-60, Cl. 244-111.  
 Harter Corp.: *See*—  
 Good, Wayne W. 2,935,121.  
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 Harter, Paul G., to Eastman Kodak Co. Shutter release mechanism for a single-lens reflex camera. 2,920,544, 1-12-60, Cl. 95-42.  
 Harter, Paul G., and E. E. Staudt, to Eastman Kodak Co. Shutter release mechanism for a single-lens reflex camera. 2,925,023, 2-16-60, Cl. 95-42.  
 Harter, Thomas R.: *See*—  
 Saylor, Matthias W., Harter, and Kraft. 2,964,840.  
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- Hartje, Howard L. Dowelling jigs. 2,934,979, 5-3-60, Cl. 77-62.
- Hartke, Dexter, and M. J. Willrodt, to Hewlett-Packard Co. Delay generator. 2,945,183, 7-12-60, Cl. 328-48.
- Hartl, Frank. Retriever buoy. 2,941,217, 6-21-60, Cl. 9-9.
- Hartle, Cloyd U., and W. F. Moore, to The Western Union Telegraph Co. Means for transmitting tickets by facsimile. 2,952,930, 9-20-60, Cl. 40-10.
- Hartle, Robert J., to Gulf Research & Development Co. Fuel oil composition. 2,927,012, 3-1-60, Cl. 44-57.
- Hartle, Robert J., and H. I. Thayer, to Gulf Research & Development Co. 3,4-methylenedioxyphenyl N-alkylcarbamate insecticides. 2,951,850, 9-6-60, Cl. 260-340.5.
- Hartley, Arthur C., to Clifford Hartley Patents Ltd. Pipe lines for loading and unloading ships and other vessels. 2,955,626, 10-11-60, Cl. 141-279.
- Hartley, Clayton A. Pants or like hanger. 2,926,791, 3-1-60, Cl. 211-124.
- Hartley, Clifford, Patents Ltd.: See—
- Hartley, Arthur C. 2,955,626.
- Hartley Controls Corp.: See—
- Hartley, Nelson. 2,927,252.
- Hartley, Nelson. 2,931,521.
- Hartley, Nelson. 2,958,107.
- Hartley, Emmett C., to Parker-Hannifin Corp. Molding of O-rings and the like. 2,961,713, 11-29-60, Cl. 18-55.
- Hartley, George C.: See—
- Bray, Frederick H., Knight, and Hartley. 2,960,575.
- Hartley, Henry F.: See—
- Odell, Alexander D., and Hartley. 2,944,164.
- Hartley, James C., to Olin Mathieson Chemical Corp. Erosion- and corrosion-resistant gun barrel adapted to hold a coolant. 2,935,912, 5-10-60, Cl. 89-14.1.
- Hartley, James, and J. D. Downer, to Shell Oil Co. Esters of boric acid and copolymers containing a plurality of hydroxyl groups. 2,945,014, 7-12-60, Cl. 260-87.3.
- Hartley, James C., and J. B. Swett, to Union Hardware Co. Roller skate attachment. 2,937,031, 5-17-60, Cl. 280-11.2.
- Hartley, Nelson, to Hartley Controls Corp. Integrating instrument. 2,927,252, 3-1-60, Cl. 317-123.
- Hartley, Nelson, to Hartley Controls Corp. Level control using alternating current through material of variable resistance. 2,931,521, 4-5-60, Cl. 214-17.
- Hartley, Nelson, to Hartley Controls Corp. Method for automatic moisture control in foundry sand supplies. 2,958,107, 11-1-60, Cl. 232-217.
- Hartley, Wilfred, to Humphreys & Glasgow Ltd. Gas-making process. 2,923,609, 2-2-60, Cl. 48-214.
- Hartloff, Gordon S., to Bell Aircraft Corp. Aircraft flight control. 2,946,944, 7-26-60, Cl. 318-489.
- Hartman, Cletus G.: See—
- Wisman, Andrew P. 2,928,630.
- Hartman, Cletus G. Supporting assembly for outboard motors. 2,928,631, 3-15-60, Cl. 248-4.
- Hartman, Curtis A.: See—
- Woodward, Stephen G., and Hartman. 2,948,272.
- Hartman, Grant H., R. F. Harder, A. J. Rezba, and R. K. Reeve, to Cherry-Burnell Corp. Method and apparatus for producing clusters of lacteal material. 2,934,434, 4-26-60, Cl. 99-56.
- Hartman, Herbert L., to The General Industries Co. Multiple speed phonograph turntable drives and selecting means therefor. 2,924,986, 2-16-60, Cl. 74-472.
- Hartman, Herbert L., to The General Industries Co. Plural-speed phonograph turntable drive mechanisms. 2,925,737, 2-23-60, Cl. 74-199.
- Hartman, Herbert L., to The General Industries Co. Phonograph drive mechanism. 2,961,882, 11-29-60, Cl. 74-200.
- Hartman, Herbert L., to The General Industries Co. Phonograph drive mechanism. 2,961,883, 11-29-60, Cl. 74-200.
- Hartman, Richard A., to United-Carr Fastener Corp. Organization and clip useful for installing furniture webbing. 2,966,206, 12-27-60, Cl. 155-178.
- Hartman, Robert B.: See—
- Brown, Robert A., Cummings, and Hartman. 2,936,362.
- Hartman, Robert B., II: See—
- Brown, Robert A., and Hartman. 2,923,857.
- Hartman, Robert B., II, to Remington Arms Co., Inc. Stud welding apparatus. 2,941,065, 6-14-60, Cl. 219-98.
- Hartman, Robert B., II, to Remington Arms Co., Inc. Modified arc welding system. 2,941,066, 6-14-60, Cl. 219-99.
- Hartman, Robert O.: See—
- Bolles, Julius H., Hartman, and Short. 2,964,774.
- Hartmann, Adolf, and B. Fritzsche, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Manufacture of non-woven two dimensional structures from fibers. 2,962,762, 12-6-60, Cl. 18-47.5.
- Hartmann & Braun Aktiengesellschaft: See—
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- Engelhardt, Heinz. 2,944,418.
- Krupp, Helmar M. 2,951,359.
- Hartmann, Gilbert L., to Milwaukee Faucets, Inc. Faucet valve assembly. 2,920,861, 1-12-60, Cl. 251-357.
- Hartmann, Henry. Incinerator. 2,956,526, 10-18-60, Cl. 110-18.
- Hartmann, Johann, to Siemens-Schuckertwerke Aktiengesellschaft. Bearing assembly. 2,953,415, 9-20-60, Cl. 308-158.
- Hartmann, Louis M., and A. B. A. Hansen, to A/S Brodrene Hartmann. Apparatus for conveying articles. 2,946,426, 7-26-60, Cl. 198-32.
- Hartmann Processing Co.: See—
- Hartmann, Waldemar. 2,935,388.
- Hartmann, Waldemar, to Hartmann Processing Co. Material treating apparatus. 2,935,388, 5-3-60, Cl. 44-2.
- Hartmann, Willy, to Brown, Boveri & Cie Aktiengesellschaft. Soft-ice maker for refrigerators. 2,924,440, 2-9-60, Cl. 259-108.
- Hartnell-Beavis, Michael C. Electronics valves. 2,925,528, 2-16-60, Cl. 315-39.
- Hartnett, Maurice P., to Design Engineers. Safety flasher unit for tractors and the like. 2,937,362, 5-17-60, Cl. 340-87.
- Hartnett, R. H., Co.: See—
- Ackley, Charles. 2,931,292.
- Harton, Joseph P., to E. I. du Pont de Nemours and Co. Bucket process for novelty regenerated cellulose yarn. 2,922,275, 1-26-60, Cl. 57-157.
- Harton, Lynn M., to General Electric Co. Multiphase power distributing apparatus. 2,960,674, 11-15-60, Cl. 339-14.
- Hartridge, Leslie, to Leslie Hartridge Ltd. Smokemeters. 2,966,092, 12-27-60, Cl. 88-14.
- Hartridge, Leslie, Ltd.: See—
- Hartridge, Leslie. 2,966,092.
- Hartsfield, Alfred R., J. W. Kessler, and J. H. Moran, to The Chemstrand Corp. Yarn package and binding device therefor. 2,932,388, 4-12-60, Cl. 206-59.
- Hartstra, Lenze: See—
- Van Der Waarden, Mathijs, Tjepkema, Huyser, Hartstra, and Reman. 2,938,828.
- Hartung, Arthur E.: See—
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- Hartup, Robert R., to Food Machinery and Chemical Corp. Cable hold down device for prestressed concrete casting beds. 2,958,507, 11-1-60, Cl. 254-67.
- Hartup, Harry H.: See—
- Thompson, Theodore F. 2,945,411.
- Hartwell Aviation Supply Co.: See—
- Smith, Lawrence D. 2,921,810.
- Smith, Lawrence D., and Sawyer. 2,927,812.
- Hartwell, Clark: See—
- Smith, Lawrence D. 2,921,810.
- Smith, Lawrence D., and Sawyer. 2,927,812.
- Hartwell, George E.: See—
- Heroy, James H., Jr., Hartwell, and Sanders. 2,962,746.
- Hartwick, Leo L. Cigarette holder. 2,940,457, 6-14-60, Cl. 131-259.
- Hartwick, Ralph C., ½ to W. E. Adair. Nut with adjustable thread means to permit sliding movement. 2,941,438, 6-21-60, Cl. 85-33.
- Hartwig, Ernst: See—
- Braun, Willy, Hartwig, Eisele, and Federkiel. 2,957,745.
- Hartwig, Inc.: See—
- Barnes, Logan V. 2,963,173.
- Hartwig, Edward C., C. B. Stadum, and W. E. Large, to Westinghouse Electric Corp. Electronic sequence timer. 2,962,631, 11-29-60, Cl. 315-197.
- Hartwig, Mathilde, and H. Reissmann, to American Viscose Corp. Method of reducing the swelling capacity of synthetic alginate skins. 2,965,498, 12-20-60, Cl. 99-176.
- Hartz, Harry J.: See—
- Beard, Richard B., and Hartz. 2,960,678.
- Hartz, Harry J., to Minneapolis-Honeywell Regulator Co. Controller. 2,950,729, 8-30-60, Cl. 137-85.
- Hartzband, Harry M.: See—
- Bieber, Herman, and Hartzband. 2,934,497.
- Hartzband, Harry M., B. L. Tarmy, and R. B. Long, to Esso Research and Engineering Co. Preparing lubricating oils using radiation. 2,951,022, 8-30-60, Cl. 204-154.
- Hartzell Propeller, Inc.: See—
- Biermann, David. 2,948,344.
- Hartzmark, Alan. Press lock ring for laminated tires. 2,955,637, 10-11-60, Cl. 152-397.
- Harvard Mfg. Co.: See—
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- Roche, Melvin E. 2,951,252.
- Sands, Hillard J., and Roche. 2,953,832.
- Harvdale Enterprises, Inc.: See—
- Harvey, Chester. 2,922,558.
- Harvel Research Corp.: See—
- Harvey, Mortimer T., and Rosamilia. 2,944,989.
- Harvey, Mortimer T., and Rosamilia. 2,953,478.
- Harvey, Mortimer T., and Rosamilia. 2,963,463.
- Harvey, Allan M., to R. T. Vanderbilt Co., Inc. Process for the preparation of heavy metal salts of substituted dithiocarbamic acids. 2,927,936, 3-8-60, Cl. 260-429.
- Harvey, Bernard G.: See—
- Choppin, Gregory R., Thompson, and Harvey. 2,925,431.
- Harvey, Chester, to Harvdale Enterprises, Inc. Handle means for containers. 2,922,558, 1-26-60, Cl. 224-45.
- Harvey, Donald M., to Eastman Kodak Co. Tension balancing system for a photographic recording apparatus. 2,964,255, 12-13-60, Cl. 242-55.11.
- Harvey, Earle M., to United States of America, Army. Retention means for firearm extractor. 2,929,163, 3-22-60, Cl. 42-25.
- Harvey, Earle M., to United States of America, Army. Bolt assembly for a firearm. 2,950,653, 8-30-60, Cl. 89-185.
- Harvey, Herbert A.: See—
- McLaughlin, George H., Harvey, Cartier, and Robinson. 2,931,974.



- Harvey, James E., to Sylvania Electric Products Inc. Photo-dash switching. 2,928,325, 3-15-60, Cl. 95—11.5.
- Harvey, James L.: *See—*  
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- Harvey, James R.: *See—*  
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- Harvey, John F., to The Babcock & Wilcox Co. Banded pressure vessels. 2,940,734, 6-14-60, Cl. 257—208.
- Harvey, Joseph E. Therapeutic applicator. 2,945,492, 7-19-60, Cl. 128—33.
- Harvey, Joseph E., to Holman Bros. Ltd. Dust extractors for rotary grinders employing flexible grinding discs. 2,954,653, 10-4-60, Cl. 51—273.
- Harvey Machine Co., Inc.: *See—*  
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- Harvey, Mortimer T., and P. L. Rosamilia, to Harvel Research Corp. Acetone-formaldehyde-glycol resins and blends with other polymers. 2,944,989, 7-12-60, Cl. 260—3.
- Harvey, Mortimer T., and P. L. Rosamilia, to Harvel Research Corp. Glass fibers coated with acetone-formaldehyde reaction products. 2,953,478, 9-20-60, Cl. 117—126.
- Harvey, Mortimer T., and P. L. Rosamilia, to Harvel Research Corp. Composition containing reaction products of butadiene and furfural and products of furfural and ketones. 2,963,463, 12-6-60, Cl. 260—45.5.
- Harvey, Robert L., to Radio Corp. of America. Ferrosinopel compositions. 2,923,388, 2-16-60, Cl. 252—62.5.
- Harvey, Robert L., and R. A. Hackley, to Radio Corp. of America. Method of forming a metallic surface layer on a ferrosinopel body and bonding the same. 2,957,238, 10-25-60, Cl. 29—472.9.
- Harvey, Thayer A.: *See—*  
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- Harvey, Wirt T., C. F. Sardou, Jr., and D. R. Bass, to Giannini Controls Corp. Pantograph attachment for lathes and the like. 2,929,288, 3-22-60, Cl. 82—14.
- Harwald Co.: *See—*  
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- Harwald Co., Inc.: *See—*  
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- Harwell, Alfred W. Knock down tubular scaffold. 2,923,374, 2-2-60, Cl. 182—132.
- Harwell, Kenneth E., and W. J. Peppel, to Jefferson Chemical Co., Inc. Resinous compositions and method for producing same. 2,923,696, 2-2-60, Cl. 260—47.
- Harwig, Stephen H., to Libbey-Owens-Ford Glass Co. Testing electrically conductive articles. 2,947,939, 8-2-60, Cl. 324—65.
- Harwood Engineering Co.: *See—*  
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- Harwood, Frederick A., to British Insulated Callender's Cables Ltd. Moulded cable couplings. 2,939,906, 6-7-60, Cl. 174—77.
- Harwood, James, R. A. Reck, and W. W. Abramitis, to Armour and Co. Heavy metal-diamine complex (B). 2,924,551, 2-9-60, Cl. 167—22.
- Harwood, James, R. A. Reck, and W. W. Abramitis, to Armour and Co. Heavy metal-diamine double salts. 2,924,552, 2-9-60, Cl. 167—22.
- Harwood, James, R. A. Reck, and W. W. Abramitis, to Armour and Co. Heavy metal-diamine complex. 2,928,856, 3-15-60, Cl. 260—438.
- Harwood, Kenneth J., to Kimberly-Clark Corp. Sanitary napkin. 2,965,102, 12-20-60, Cl. 128—290.
- Harwood, Kenneth J., to Kimberly-Clark Corp. Cellulosic product. 2,965,224, 12-20-60, Cl. 206—57.
- Harwood, Kenneth J., and W. U. Day, to Kimberly-Clark Corp. Cellulosic product. 2,960,089, 11-15-60, Cl. 128—290.
- Harwood, Mark H.: *See—*  
Napolin, Seymour, and Harwood. 2,936,356.
- Harza, Leroy F., deceased, also known as Leroy Francis Harza, by F. H. Camphausen, and E. W. Hillier, executors, to Z. D. and R. D. Harza, and A. C. Hoffman, heirs and legatees. Water stop. 2,937,065, 5-17-60, Cl. 72—106.
- Harza, Leroy Francis: *See—*  
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- Harza, Richard D.: *See—*  
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- Harza, Zelma D.: *See—*  
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- Hasbany, Woodrow A., to Clark Equipment Co. Regulating valve. 2,950,734, 8-30-60, Cl. 137—495.
- Hasbrouck, Gene B., and H. E. Hutzelman, to Corry-James-town Mfg. Corp. Panel securing structure. 2,934,800, 5-3-60, Cl. 20—56.4.
- Hasche, Rudolph L., to Carbonic Development Corp. Treatment of natural gas in distribution systems. 2,966,402, 12-27-60, Cl. 48—196.
- Hasegawa, Takeji, T. Takahashi, M. Nishikawa, and H. Hagiwara, to Takeda Pharmaceutical Industries, Ltd. Enzymatic oxygenative production of 11- or 19-position hydroxylated steroids. 2,966,444, 12-27-60, Cl. 195—51.
- Hasek, Carl W., Jr., and E. A. Catlin, to The Babcock & Wilcox Co. Steam generator. 2,924,204, 2-9-60, Cl. 122—491.
- Hasek, Robert H.: *See—*  
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Martin, James C., and Hasek. 2,947,784.
- Hasek, Robert H., and E. U. Elam, to Eastman Kodak Co. Preparation of 2,2,4,4-tetraalkylcyclobutane-1,3-diols. 2,936,324, 5-10-60, Cl. 260—617.
- Hasek, William R., to E. I. du Pont de Nemours and Co. Sulfur trifluorides of organic ethers. 2,928,870, 3-15-60, Cl. 260—543.
- Haselton, William M.: *See—*  
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- Haselton, William M., to Cherry-Burrell Corp. Vacuum relief valve. 2,960,996, 11-22-60, Cl. 137—116.
- Hasenacker, Ernst: *See—*  
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- Hasenberger, Anneliese: *See—*  
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- Hashimoto, Teiji, to Canon Camera Co., Inc. Shutter releasing device for motion picture cameras. 2,943,532, 7-5-60, Cl. 88—16.
- Hashimoto, Teiji, to Canon Camera Co., Inc. Focal plane shutter in photographic cameras. 2,961,934, 11-29-60, Cl. 95—57.
- Haskel Engineering Associates: *See—*  
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- Haskelites Mfg. Corp.: *See—*  
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- Haskell, Clarence A.: *See—*  
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- Haskell, John W., to General Motors Corp. Direct current transistor amplifier. 2,954,530, 9-27-60, Cl. 330—19.
- Haskell, Philip R.: *See—*  
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- Haskell, Philip R., R. E. Evans, P. A. Ketchpel, Jr., and L. B. Connor, to Remington Arms Co., Inc. Cartridge-powered piston type tool. 2,949,898, 8-23-60, Cl. 123—24.
- Haskell, Philip R., R. E. Evans, P. A. Ketchpel, Jr., and L. B. Connor, to Remington Arms Co., Inc. Cartridge-powered piston type tool. 2,954,759, 10-4-60, Cl. 123—24.
- Haskins, Lewis B. Book mark. 2,953,115, 9-20-60, Cl. 116—119.
- Haskins, Robert, to Aircraft Radio Corp. Aircraft course director. 2,932,023, 4-5-60, Cl. 343—107.
- Hasko, Robert F.: *See—*  
Fohrhaltz, Howard A., Hasko, and Ochs. 2,927,781.
- Haslam, John H., to E. I. du Pont de Nemours and Co. Pigmentary product and process for making same. 2,941,895, 6-21-60, Cl. 106—193.
- Haslam, Ernest, to Dreh Patents Ltd. Pipe coupling with a pushed-wedge type metallic packing. 2,959,430, 11-8-60, Cl. 285—342.
- Haslam, John H., to E. I. du Pont de Nemours and Co. Ammoniation of superphosphates. 2,964,394, 12-13-60, Cl. 71—42.
- Hasler, Eckart E., and A. J. Murer, to Deering Milliken Research Corp. Overend unwinding device. 2,953,318, 9-20-60, Cl. 242—128.
- Haslett, Roy W. G.: *See—*  
Halliday, William, and Haslett. 2,940,182.
- Hasselblad, Fritz V.: *See—*  
Cronholm, Einar. 2,943,544.
- Hasselhorn, Walter C., to Cook Electric Co. Cable terminal box assembly. 2,953,625, 9-20-60, Cl. 174—60.
- Hasselhorn, Walter C., to Cook Electric Co. Fluid operated clutch or brake. 2,955,684, 10-11-60, Cl. 188—78.
- Hasselhorn, Walter C., and J. S. Baker, to Cook Electric Co. Electric connector. 2,930,021, 3-22-60, Cl. 339—99.
- Hasselhorn, Walter C., and J. S. Baker, to Cook Electric Co. Strand type terminal box. 2,956,106, 10-11-60, Cl. 174—59.
- Hasselmann, Harry E.: *See—*  
Siccama, Nicholas B., and Wirbelauer. 2,948,657.
- Hasselquist, Victor H., to The B. F. Goodrich Co. Stock stripper for splicer heads. 2,956,615, 10-18-60, Cl. 154—42.
- Hasselquist, Victor H., to The B. F. Goodrich Co. Apparatus for transferring bias cut stock from a vertical bias cutter to a horizontal conveyor. 2,962,083, 11-29-60, Cl. 154—42.
- Hasselstrom, Torsten: *See—*  
Hewitt, Eric J., Hasselstrom, MacKay, and Koingsbacher. 2,924,521.
- Hassenbach, Johann F. Map puzzle. 2,953,380, 9-20-60, Cl. 273—157.
- Hassenfeld Bros. Inc.: *See—*  
Di Vozzi, Frank. 2,924,373.
- Hassler, Kenneth E., R. E. Heiks, and C. L. Meyer, to Westinghouse Air Brake Co. Copper alloys for asymmetrical conductors and copper oxide cells made therefrom. 2,942,158, 6-21-60, Cl. 317—138.
- Hassler, Winfield S., to Morton Salt Co. Closure construction. 2,939,617, 6-7-60, Cl. 222—556.
- Hassman, Lawrence M. Eyeglass temple retainer means. 2,959,098, 11-8-60, Cl. 88—52.
- Hast, Nils B. Apparatus for measuring stresses within concrete building structures. 2,924,094, 2-9-60, Cl. 73—88.
- Hastings, Arthur C., Jr. Spark plug. 2,959,703, 11-8-60, Cl. 313—145.
- Hastings, Charles E. Radio position determining system. 2,947,984, 8-2-60, Cl. 343—105.



- Hastings, Donald F., J. B. Venezia, and P. A. Wallace, to Bendix Aviation Corp. Data converter. 2,921,204, 1-12-60, Cl. 250-219.
- Hastings, Donald F., and P. A. Wallace, to The Bendix Corp. Apparatus for controlling the position of a displaceable member to indicate the speed of an engine within predetermined ranges. 2,950,420, 8-23-60, Cl. 317-5.
- Hastings, Homer R., and C. A. Haut, to General Motors Corp. Electrical measuring instrument. 2,939,078, 5-31-60, Cl. 324-146.
- Hastings Mfg. Co.: See—  
Dutterer, Rex J. 2,957,099.  
Phillips, Harold P. 2,938,758.  
Phillips, Harold P. 2,940,803.  
Phillips, Harold P., and Wait. 2,932,871.
- Hastings, Norman R. Match packet snuffer and ashtray. 2,938,522, 5-31-60, Cl. 131-235.
- Hastings, Paul F.: See—  
Merry, Albert B., and Hastings. 2,943,687.
- Hastings, Robert M., to Hoppenstand Motors, Inc. Double diaphragm air cylinder. 2,936,785, 5-17-60, Cl. 137-780.
- Hastings, Sam H.: See—  
Field, Frank H., and Hastings. 2,962,588.
- Hastings, Ward E., to National Dairy Products Corp. Apparatus for imprinting plastic material. 2,924,923, 2-16-60, Cl. 53-111.
- Hastings, William: See—  
Shirman, Jack, Guenther, and Hastings. 2,927,166.
- Hastings, William, and D. M. Rager, Jr., to General Dynamics Corp. Electrical signaling system. 2,935,572, 5-3-60, Cl. 179-84.
- Haszard, Owen I., to Amerac Inc. Tunable microwave apparatus. 2,922,957, 1-26-60, Cl. 331-98.
- Hat Corp. of America: See—  
Hoffman, Stanley G., and Van Ess. 2,926,358.
- Hatala, James B.: See—  
White, Ray C. 2,936,692.
- Hatanaka, Earthur O. Adjustable sprinkler system. 2,954,934, 10-4-60, Cl. 239-231.
- Hatanaka, Tad, to Union Tank Car Co. Liquid fill structure for LP gas tanks. 2,944,701, 7-12-60, Cl. 220-85.
- Hatch, Arthur J.: See—  
Winzeler, John W., and Hatch. 2,952,794.
- Hatch, Arthur J., to The Strong Electric Corp. Projection lamp. 2,950,382, 8-23-60, Cl. 240-31.
- Hatch, George B., to Hagan Chemicals & Controls, Inc. Method of inhibiting corrosion of copper and cuprous alloys in contact with water. 2,941,953, 6-21-60, Cl. 252-389.
- Hatch, Meredith R., to E. W. Bliss Co. Laminated press die cushion. 2,920,675, 1-12-60, Cl. 153-25.
- Hatch, Richard M., and R. Rubin, to Sylvania Electric Products Inc. Wave-transmission couplings. 2,942,210, 6-21-60, Cl. 333-26.
- Hatch, Richard M., Jr., to Sylvania Electric Products Inc. Electromagnetic lens. 2,928,092, 3-8-60, Cl. 343-753.
- Hatch, Richard M., Jr., to United States of America, Air Force. Phase comparator. 2,943,259, 6-28-60, Cl. 324-88.
- Hatch, Robert H., to United States of America, Navy. Electronically controlled microwave attenuator. 2,964,719, 12-13-60, Cl. 333-81.
- Hatcher, Robert D.: See—  
Spencer, Edward G., Hatcher, and Reggia. 2,961,658.
- Hatcher, Russell S., Jr., to Maynard Sash & Door Co. Sealing arrangement. 2,935,771, 5-10-60, Cl. 20-69.
- Hatebur, Friedrich B. Method and apparatus for descaling heated bar or wire stock. 2,961,742, 11-29-60, Cl. 29-81.
- Hatfield, Cleburne B.: See—  
Friedland, Irwin, and Hatfield. 2,955,585.
- Hatfield, Frederick A., to McGraw-Edison Co. Electrical induction apparatus having graded insulation. 2,924,799, 2-9-60, Cl. 336-185.
- Hatfield, George I., to The Bendix Corp. Remote positioning power control. 2,953,728, 9-20-60, Cl. 317-123.
- Hatfield Industries, Inc.: See—  
Seiz, Edward A. 2,926,792.
- Hatfield, John E., to Irving Air Chute Co., Inc. Parachute pack construction. 2,922,604, 1-26-60, Cl. 244-148.
- Hatfield, John E., to Irving Air Chute Co., Inc. Parachute pack release and opening mechanism. 2,950,885, 8-30-60, Cl. 244-141.
- Hathaway, Charles A., to The Torrington Mfg. Co. Centrifugal blower wheel. 2,932,445, 4-12-60, Cl. 230-134.
- Hathaway, Charles A., and S. W. Klonoski, to Torrington Mfg. Co. Blower wheel and method of making. 2,929,549, 3-22-60, Cl. 230-134.
- Hathaway, James C., to Collins Radio Co. Mechanical filter with impedance matching discs. 2,930,006, 3-22-60, Cl. 333-71.
- Hathaway, Stewart S. Inflatable salvage device. 2,938,488, 5-31-60, Cl. 114-54.
- Hatherell, George A., and K. R. Carlisle, to The National Cash Register Co. Photoelectric reader for punched cards. 2,921,736, 1-19-60, Cl. 235-61.11.
- Hatheway, Ernest R. Method of producing cellulosic pulp. 2,962,413, 11-29-60, Cl. 162-89.
- Hathorn, Roy C., and G. L. Turner. Forming pattern or form bar. 2,956,318, 10-18-60, Cl. 22-22.
- Hatt, Lawrence R.: See—  
Nagel, Herbert, and Hatt. 2,944,918.
- Hatten, Faith P. Tractor safeguard. 2,921,799, 1-19-60, Cl. 280-150.
- Hatton, Arthur T., to Barton Electronics, Inc. Gage combination of optical comparator and photoelectric device and the photoelectric device. 2,928,951, 3-15-60, Cl. 250-214.
- Hatton, William, and G. F. McCarthy, to International Telephone and Telegraph Corp. Coordinate switch. 2,942,069, 6-21-60, Cl. 179-27.54.
- Hatton, William, L. B. Haigh, G. F. McCarthy, and A. N. Gulnick, to International Telephone and Telegraph Corp. Coordinate switching system. 2,964,591, 12-13-60, Cl. 179-27.54.
- Hatton, William H. Sap gathering spout. 2,958,158, 11-1-60, Cl. 47-52.
- Hatton, William L., to Raytheon Co. Broad band limiters. 2,964,624, 12-13-60, Cl. 250-27.
- Hattori, Kiyoshi: See—  
Solomon, Irvine J., Kacmarek, and Hattori. 2,951,869.
- Hattori, Ryosuke, and T. Okukawa; said Okukawa assor. to said Hattori. Stripping rolls for carding engines. 2,933,772, 4-26-60, Cl. 19-108.
- Hattori, Yoshio. Apparatus for photographing and projecting a motion picture image of a very wide angle. 2,928,313, 3-15-60, Cl. 83-16.
- Haubein, Albert H., to Hercules Powder Co. Chlorosubstituted bicyclic aldehyde. 2,932,669, 4-12-60, Cl. 260-598.
- Haubrich, Heinz: See—  
Suckfull, Fritz, and Haubrich. 2,920,069.
- Haubrich, Heinz, R. Hornle, and H. Raab, to Farbenfabriken Bayer Aktiengesellschaft. Water-insoluble azo dyestuffs. 2,944,050, 7-5-60, Cl. 260-178.
- Hauck, Arthur E., and P. A. Processing conveyor apparatus. 2,921,008, 1-12-60, Cl. 204-203.
- Hauck, Jon F., to Allis-Chalmers Mfg. Co. Monitoring apparatus for radioactive effluents from nuclear reactors. 2,961,543, 11-22-60, Cl. 250-83.6.
- Hauck, Paul A.: See—  
Hauck, Arthur E., and P. A. 2,921,008.
- Hauck, Paul A., to Hanson-Van Winkle-Munning Co. Processing machine with individual elevators. 2,933,212, 4-19-60, Cl. 214-89.
- Hauck, Robert M.: See—  
Anderson, Arvid A., and Hauck. 2,928,642.
- Hauel, Anna P.: See—  
Van Nordstrand, Robert A., Teter, Keith, and Hauel. 2,938,211.
- Hauf, George F., to Chicago Metal Mfg. Co. Prefabricated sealed building construction. 2,927,665, 3-8-60, Cl. 189-2.
- Hauff, Alfred: See—  
Woydt, Eduard, and Hauff. 2,939,342.
- Haug, Anton J. Two stage pulp refining machine. 2,950,064, 8-23-60, Cl. 241-46.
- Haug, Herbert E.: See—  
Jacobs, Arthur. 2,953,106.
- Haugard, Emil. Patient transfer locking device. 2,959,792, 11-15-60, Cl. 5-92.
- Hauge, Chester B. Wheeled toys. 2,940,217, 6-14-60, Cl. 46-244.
- Haugen, Glenn L., and W. F. Gunkel, to Bendix Aviation Corp. Valve sensing trigger for fuel injection system. 2,920,195, 1-5-60, Cl. 250-27.
- Haugen, Lawrence T., and C. A. Henrikson, to United States Pipe and Foundry Co. Pipe joint. 2,953,398, 9-20-60, Cl. 285-110.
- Haugstad, Arne. Bearing wear indicating means. 2,957,958, 10-25-60, Cl. 200-61.4.
- Haughawout, John H., to Hughes Aircraft Co. Pulsed radar automatic frequency control. 2,957,170, 10-18-60, Cl. 343-11.
- Haugk, George, to Bell Telephone Laboratories, Inc. Information storage system. 2,922,937, 1-26-60, Cl. 340-173.
- Haugland, Raymond J., and H. S. Stevenson. Hydraulic control for drawbar and hitches. 2,922,660, 1-26-60, Cl. 280-468.
- Haugwitz, Otto, to Societe Anonyme Geoffroy-Delore. Systems for producing multi-strand twisted assemblies such as cables. 2,921,429, 1-19-60, Cl. 57-58.52.
- Haugwitz, Otto, to Societe Anonyme Geoffroy-Delore. Feed-out station for wire and the like. 2,927,416, 3-8-60, Cl. 57-86.
- Haugwitz, Otto, to Societe Anonyme Geoffroy-Delore. Compensating mechanism for taping machines and the like. 2,929,573, 3-22-60, Cl. 242-75.45.
- Haulk, Elvro L. Bow string holder. 2,947,301, 8-2-60, Cl. 124-30.
- Haumag Corp., The: See—  
Jacobs, Arthur. 2,935,034.
- Haumann, Wilfried: See—  
Hansen, Odd A., and Haumann. 2,964,918.
- Haun, Charles R.: See—  
Garver, Curtis A., and Haun. 2,962,262.
- Hauni-Werke Körber & Co. K.G.: See—  
Bodner, Fritz. 2,948,569.  
Koch, Hans. 2,944,554.  
Pollmann, Max. 2,933,872.  
Schubert, Bernhard. 2,944,654.
- Haupt, Günter, and R. Fölker, to Graetz Kommanditgesellschaft. Arrangement for the magnetic deflection of the electron beam in cathode ray tubes, particularly for television purposes. 2,926,273, 2-23-60, Cl. 313-76.



- Haupt, Rudolf: *See*—  
Müller, Wilhelm, Casper, Haupt, and Helnen. 2,947,706.  
Hauptman, Dan. Filtered pillow. 2,956,291, 10-18-60, Cl. 5-337.
- Hauptmann K. G.: *See*—  
Hauptmann, Karl B. E. A. 2,920,026.  
Hauptmann, Karl B. E. A., to W. Heine (d.b.a. Hauptmann Kommandit-Gesellschaft). Spot-welding apparatus. 2,922,026, 1-19-60, Cl. 219-90.
- Hauptschein, Murray: *See*—  
Braid, Milton, and Hauptschein. 2,920,111.  
Hauptschein, Murray, to Pennsalt Chemicals Corp. Fluorine compounds. 2,966,517, 12-27-60, Cl. 260-566.  
Hauptschein, Murray, M. Braid, and F. E. Lawlor, to Pennsalt Chemicals Corp. Perfluorodimethylcyclobutanes. 2,957,032, 10-18-60, Cl. 260-648.  
Hauptvogel, Herbert, to VEB Kamera-Werke Niedersiedlitz. Photographic light producing device. 2,923,812, 2-2-60, Cl. 240-13.
- Hauri, Paul: *See*—  
Hurlmann, Hans, and Hauri. 2,928,957.
- Haury, Vernon E.,  $\frac{1}{2}$  to Simco Inc. Sugar manufacture by alcohol extraction. 2,943,004, 6-28-60, Cl. 127-58.
- Haus, Russell W.: *See*—  
Derr, Kenneth W., and Haus. 2,938,328.
- Hausch, Douglas C., to Shell Oil Co. Separation of stabilized gasoline from a reformate. 2,952,616, 9-13-60, Cl. 208-102.
- Hausch, Douglas C., to Shell Oil Co. Distillation of lubricating oil. 2,952,631, 9-13-60, Cl. 208-355.
- Hausch, Raymond M., to Ford Motor Co. Piston and connecting rod assembly. 2,964,365, 12-13-60, Cl. 309-20.
- Hausch, Walter R., to The Firestone Tire & Rubber Co. Polyethylene composition. 2,953,708, 10-11-60, Cl. 206-84.
- Hauschild, William E., and J. E. Solecki, to Western Electric Co., Inc. Apparatus for applying pressure sensitive adhesive labels to articles. 2,920,780, 1-12-60, Cl. 216-9.
- Hause, Gilbert K.: *See*—  
Kelley, Oliver K., and Hause. 2,957,370.  
Kelley, Oliver K., Hause, and Heck. 2,934,177.  
Kelley, Oliver K., Hause, and Heck. 2,955,682.
- Hause, Gilbert K., to General Motors Corp. Transmission. 2,919,608, 1-5-60, Cl. 74-760.
- Hause, Gilbert K., to General Motors Corp. Hydraulic torque converter. 2,932,939, 4-19-60, Cl. 60-12.
- Hause, Gilbert K., and B. Heck, to General Motors Corp. Liquid cooled disk brake. 2,940,549, 6-14-60, Cl. 188-72.
- Hause, Gilbert K., and H. Fischer, to General Motors Corp. Transmission. 2,957,557, 10-25-60, Cl. 192-3.2.
- Hausel, Charles L., to American Viscose Corp. Yarn tail guide assembly. 2,936,962, 5-17-60, Cl. 242-18.
- Hausen, Dietrich K., to The Commonwealth Engineering Co. of Ohio. Magnetic recording tape. 2,923,642, 2-2-60, Cl. 117-68.
- Hauser, Ernst A., deceased (The Merchants National Bank of Boston, executor), and R. C. Kollman, to National Lead Co. Clay complexes with conjugated unsaturated aliphatic compounds of four to five carbon atoms. 2,951,087, 8-30-60, Cl. 260-448.
- Hauser, Lillian E. Hair curling device. 2,955,603, 10-11-60, Cl. 132-37.
- Hauser, Ray L.: *See*—  
Panagrossi, Ahmed, and Hauser. Re. 24,856.  
Panagrossi, Ahmed, Hauser, and Fusco. 2,945,773.
- Hauser, Robert F. Blackboard for instruction in music. 2,946,254, 7-26-60, Cl. 84-471.
- Hauser-Bucher, Walter, to Bucher-Guyer A.-G. Maschinenfabrik. Root crop-harvesting machine having a swinging plow and grate means. 2,932,354, 4-12-60, Cl. 171-132.
- Hauserman, E. F., Co. The: *See*—  
Pollock, Gordon J. 2,943,718.
- Hausermann, Heinrich, to J. R. Geigy A.G. 3-substituted 7-carbalkoxyaminocoumarins. 2,929,822, 3-22-60, Cl. 260-343.2.
- Hausermann, Heinrich, to J. R. Geigy, A.-G. 7-triazinylamino-3-phenyl coumarins. 2,945,033, 7-12-60, Cl. 260-247.5.
- Haushalter, Fred L. Method of installing a resilient cushion insert. 2,924,008, 2-9-60, Cl. 29-451.
- Haushalter, Fred L. Resilient cushion insert. 2,924,470, 2-9-60, Cl. 287-126.
- Haushalter, Fred L. Track shoe with resilient cushion insert. 2,924,490, 2-9-60, Cl. 305-38.
- Haushalter, Fred L. Bushing structure. 2,940,785, 6-14-60, Cl. 287-85.
- Hausknecht, William E., to Acme Steel Co. Stitching machine. 2,960,695, 11-22-60, Cl. 1-2.
- Hausman, John M. Multi-frame press. 2,932,245, 4-12-60, Cl. 100-194.
- Hausman, John M. Aligned double cylinders and rams for plastic mixing apparatus. 2,948,920, 8-16-60, Cl. 18-2.
- Hausmann, George F., to United Aircraft Corp. Compressor blading. 2,934,259, 4-26-60, Cl. 230-122.
- Hausmann, George F., to United Aircraft Corp. By-pass turbojet. 2,947,139, 8-2-60, Cl. 60-35.6.
- Hausmann, George F., to United Aircraft Corp. Combined power plant. 2,955,414, 10-11-60, Cl. 60-35.6.
- Hausmann, George J.: *See*—  
Dunbar, Alver, Hausmann, and Johnson. 2,934,885.  
Dunbar, Alver, Hausmann, and Johnson. 2,935,416.
- Hausmann, Henry C. Magnetic fastening devices. 2,935,662, 5-3-60, Cl. 317-159.
- Hausner, Johann K., to K. K. Kaempfer. Electroplating apparatus. 2,939,828, 6-7-60, Cl. 204-228.
- Hausser, Rolf, and M. Weissbrodt, to Greiner & Hausser G.m.b.H. Doll. 2,925,684, 2-23-60, Cl. 46-173.
- Haussermann, Kurt, to Lamellen und Kupplungsbau August Haussermann. Pressing bodies for resilient members especially friction clutches. 2,952,453, 9-13-60, Cl. 267-1.
- Haussmann, Willy: *See*—  
Ilge, Wilhelm, Herrmann, Haussmann, Mauch, Rittner, and Kubach. 2,952,726.
- Haussner, Theodor H. W.: *See*—  
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- Haussner, Theodor H. W. Electric iron supports. 2,931,609, 4-5-60, Cl. 248-117.1.
- Haussner, Theodor H. W., and S. W. Meyer, to Koppers Co., Inc. Material handling apparatus. 2,948,418, 8-9-60, Cl. 214-1.
- Hauswirth, Vernon O.: *See*—  
Richey, Clarence B., Hauswirth, and McKeon. 2,953,885.
- Haut, Clarence A.: *See*—  
Hastings, Homer K., and Haut. 2,939,078.
- Havelin, Jules E., and F. Kahn. Road building method. 2,937,581, 5-24-60, Cl. 94-22.
- Havelka, Frantisek. Method and a device for measuring the wall thickness of articles made of ferromagnetic materials. 2,929,985, 3-22-60, Cl. 324-34.
- Havely, Theodore W.: *See*—  
Cunningham, Richard G., Havely, and Price. 2,961,405.
- Havely, Theodore W., S. R. Sprague, and L. C. Westcott, to Shell Oil Co. Power transmission mineral oil base fluids. 2,961,408, 11-22-60, Cl. 252-75.
- Havemann, Robert A., to St. Regis Paper Co. Apparatus and method for reinforcing sheet material. 2,954,816, 10-4-60, Cl. 154-176.
- Havemann, Robert A., to St. Regis Paper Co. Apparatus and method for forming and applying strand reinforcement and product produced thereby. 2,954,817, 10-4-60, Cl. 154-176.
- Haven, Alfred C., Jr., to E. I. du Pont de Nemours and Co. Polymeric diols. 2,924,622, 2-9-60, Cl. 260-618.
- Havens, Byron L.: *See*—  
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Deerhake, William J., and Havens. 2,939,001.  
Schreiner, Kenneth E., Amdahl, and Havens. 2,954,164.
- Havens, Byron L., to International Business Machines Corp. Electronic adder. 2,958,465, 11-1-60, Cl. 235-176.
- Havens, Byron L., and C. R. Borders, to International Business Machines Corp. Product generator. 2,934,269, 4-26-60, Cl. 235-159.
- Havens, Byron L., and C. R. Borders, to International Business Machines Corp. Serial-parallel binary-decimal adder. 2,938,668, 5-31-60, Cl. 235-169.
- Havens, Byron L., K. E. Schreiner, L. D. Amdahl, J. P. Cedarholm, J. Jeanel, H. R. Meadows, and G. E. Mitchell, to International Business Machines Corp. High-speed electronic calculator. 2,957,626, 10-25-60, Cl. 235-153.
- Havens, Carl B., to The Dow Chemical Co. Thermal stabilization of haloethylene polymers. 2,952,660, 9-13-60, Cl. 260-45.7.
- Havens, Carl B., to The Dow Chemical Co. Dimensionally stable oriented filaments and method for producing the same. 2,956,855, 10-18-60, Cl. 18-54.
- Havens, Carl B., to The Dow Chemical Co. Composition for making odorless, non-exuding vinylidene chloride copolymer film. 2,956,969, 10-18-60, Cl. 260-23.
- Havens, Carl B., to The Dow Chemical Co. Thermal stabilization of haloethylene polymers. 2,959,568, 11-8-60, Cl. 260-45.75.
- Havens, Carl B., A. J. Mason, and A. T. Widiger, to The Dow Chemical Co. Composition comprising a vinylidene chloride polymer and an organic phosphate. 2,935,490, 5-3-60, Cl. 260-45.7.
- Havens, Carl B., and G. A. Clark, to The Dow Chemical Co. Haloethylene polymers stabilized with diesters of aliphatic dicarboxylic acids and hydroxy benzophenones. 2,943,076, 6-28-60, Cl. 260-45.85.
- Havens, Carl B., and G. A. Clark, to The Dow Chemical Co. 4-monobenzoate of 2,4-dihydroxybenzophenone. 2,964,554, 12-13-60, Cl. 260-476.
- Havens, Elwood L., to Silver Seal Products Co. Valve spring spacer. 2,935,979, 5-10-60, Cl. 123-188.
- Haver, Fritz. Method of treating filling material and an apparatus for carrying out this method. 2,939,494, 6-7-60, Cl. 141-1.
- Haye, John G., and C. D. Baker, to Wilson Athletic Goods Mfg. Co., Inc. Wood-type golf club. 2,960,338, 11-15-60, Cl. 273-80.
- Haviland, Robert P., to General Electric Co. Combustion motor starting and signal means. 2,935,843, 5-10-60, Cl. 60-39.14.
- Havnosky, Stanley J. Angularly adjustable and axially extendable antenna array. 2,939,144, 5-31-60, Cl. 343-835.
- Havstad, Harald, to International Telephone and Telegraph Corp. Frequency multiplier. 2,920,286, 1-5-60, Cl. 331-53.
- Havstad, Harald, to International Telephone and Telegraph Corp. Amplitude sensitive circuit. 2,928,002, 3-8-60, Cl. 250-27.



- Haw, John O., to E. I. du Pont de Nemours and Co. Roller guide. 2,930,080, 3-29-60, Cl. 18—8.
- Hawaiian Pineapple Co. Ltd.: *See*—  
Knapp, Samuel B., and Wethern. 2,924,547.  
Knapp, Samuel B., and Wethern. 2,944,929.  
Stanley, Henry B., and Ross. 2,961,979.
- Hawes, Roland C., to Applied Physics Corp. Electrical terminal having insulating bushing. 2,948,773, 8-9-60, Cl. 174—153.
- Hawes, Russell L. Chip deflector for metal cutting machines. 2,961,906, 11-29-60, Cl. 82—34.
- Hawk, Albert R.: *See*—  
Cooper, John J., and A. R. and D. Hawk. 2,958,543.
- Hawk, Dale W.: *See*—  
Rockwell, Harvey W., and Hawk. 2,950,926.
- Hawk, Donald: *See*—  
Cooper, John J., and A. R. and D. Hawk. 2,958,543.
- Hawk, Elwin A., Jr.: *See*—  
Hawk, Elwin A., Sr., E. A. Hawk, Jr., and Marchiano. 2,962,786.
- Hawk, Elwin A., Sr., E. A. Hawk, Jr., and P. P. Marchiano. Apparatus for forming composite extruded articles. 2,962,786, 12-6-60, Cl. 25—1.
- Hawk, Gale F., and G. S. Kiester, to The Aro Equipment Corp. Spaced wall insulated storage container. 2,924,351, 2-9-60, Cl. 220—15.
- Hawk, Samuel S.: *See*—  
Hawk, William M., Jr., and S. S. 2,932,105.
- Hawk, William M., Jr., and S. S., to McKinley Corp. Grocery cart display. 2,932,105, 4-12-60, Cl. 40—125.
- Hawkes, Thomas B. Gripper devices. 2,943,666, 7-5-60, Cl. 153—48.
- Hawkes, Thomas H., 10% to E. L. Groff, Jr. Egg counting device. 2,940,667, 6-14-60, Cl. 235—98.
- Hawkeye Products Corp.: *See*—  
Wittkuhn, Bruno A. 2,944,635.
- Hawkins, Charles T., to Westinghouse Air Brake Co. Motion transmitting apparatus. 2,941,415, 6-21-60, Cl. 74—409.
- Hawkins, Curtis D. Liquid level signaling device. 2,939,419, 6-7-60, Cl. 116—117.
- Hawkins, Cyril M., to General Motors Corp. Propeller brake. 2,951,540, 9-6-60, Cl. 170—135.75.
- Hawkins, Earl C. Impaling means on a clamp for holding packing material to be cut. 2,926,906, 3-1-60, Cl. 269—131.
- Hawkins, Edwin G. E., to The Distillers Co. Ltd. Process for the production of 3-ketotetrahydrofuran. 2,944,066, 7-5-60, Cl. 260—347.8.
- Hawkins, George A., to United States of America, Army. Gun cooling valve. 2,922,339, 1-26-60, Cl. 89—1.
- Hawkins, George A., to United States of America, Army. Machine gun cooling system. 2,942,524, 6-28-60, Cl. 89—14.
- Hawkins, Harold M., and W. A. Goldtrap, to Phillips Petroleum Co. Processing of polymer made in slurry process. 2,949,447, 8-16-60, Cl. 260—93.7.
- Hawkins, Havilah S. Work feed device for machine tools. 2,934,107, 4-26-60, Cl. 143—171.
- Hawkins, Jack, 40% to G. E. Swicegood. Tire pressure signal device. 2,958,746, 11-1-60, Cl. 200—61.25.
- Hawkins, Jack S.: *See*—  
Steward, Lewis B., and Hawkins. 2,920,162.
- Hawkins, James E., to Seismograph Service Corp. Radio location system. 2,943,320, 6-28-60, Cl. 343—105.
- Hawkins, James E., to Seismograph Service Corp. Method of seismic prospecting. 2,946,393, 7-26-60, Cl. 181—5.
- Hawkins, James E., to Seismograph Service Corp. Method and apparatus for electrical well logging. 2,965,837, 12-20-60, Cl. 324—1.
- Hawkins, James E., to Seismograph Service Corp. Method and apparatus for electrical prospecting. 2,966,627, 12-27-60, Cl. 324—1.
- Hawkins, John C. P. Whyte, and W. T. B. Marchant. Ditching machines. 2,942,360, 6-28-60, Cl. 37—91.
- Hawkins, Joseph K., and R. E. Jackson, to Alwac International. Data converter and punch card transducer for digital computers. 2,929,556, 3-22-60, Cl. 235—155.
- Hawkins, Owen C., Jr.: *See*—  
Warner, Dwight W., Jr., and Hawkins. 2,953,655.
- Hawkins, Paul W. Mechanical rodeo horse. 2,922,649, 1-29-60, Cl. 272—53.1.
- Hawkins, Ronald E., and G. Pendl, to The Bendix Corp. Copper tube core process. 2,963,757, 12-13-60, Cl. 22—167.
- Hawkins, Royal R., and J. J. Rudolf, Jr., to Minneapolis-Honeywell Regulator Co. Electrically controlled hydraulic drive. 2,939,285, 6-7-60, Cl. 60—53.
- Hawkins, Willis M., Jr., to Lockheed Aircraft Corp. Jet deflector and orifice control. 2,928,238, 3-15-60, Cl. 60—35.54.
- Hawkinson, Donald R., and S. Z. Dushkes, to Shell Oil Co. Pumping system delivering fluid at a controlled rate. 2,965,119, 12-20-60, Cl. 137—115.
- Hawkinson, Earle W., to Paul E. Hawkinson Co. Pneumatic tire spreader and method. 2,919,892, 1-5-60, Cl. 254—50.3.
- Hawkinson, Earle W., to Paul E. Hawkinson Co. Tire buffing machine. 2,945,534, 7-19-60, Cl. 157—13.
- Hawkinson, Earle W., to Paul E. Hawkinson Co. Tire buffing machine. 2,965,162, 12-20-60, Cl. 157—13.
- Hawkinson, Paul E., Co.: *See*—  
Hawkinson, Earle W. 2,919,892.  
Hawkinson, Earle W. 2,945,534.  
Hawkinson, Earle W. 2,965,162.
- Hawks, Huron B. Lariat holder and guide. 2,944,518, 7-12-60, Cl. 119—153.
- Hawks, Orris D.: *See*—  
Gray, Glen G., and Hawks. 2,937,088.
- Hawks, Verl J., E. K. Van Tassel, and D. C. Weller, to Bell Telephone Laboratories, Inc. Rural carrier telephone transmission system. 2,932,694, 4-12-60, Cl. 179—15.
- Hawksley & Sons, Ltd.: *See*—  
Hayler, Reginald. 2,948,965.
- Hawley, Don M., to Hawley Products Co. Fishing tackle case. 2,948,080, 8-9-60, Cl. 43—54.5.
- Hawley, Don M., and J. C. Williams, to Hawley Products Co. Process of preparing felted products containing hydratable and non-hydratable fibers. 2,932,601, 4-12-60, Cl. 162—145.
- Hawley, George P., and L. M. Cowden, to Union Carbide Corp. Pulse powder feed for detonation waves. 2,950,867, 8-30-60, Cl. 239—13.
- Hawley, Harry C. Fumes control system. 2,923,227, 2-2-60, Cl. 98—115.
- Hawley, Helen E.: *See*—  
Hawley, J. C. and H. E., and van Sickler. 2,964,042.
- Hawley, Henry B., and R. H. Hall, to Aplin & Barrett Ltd. Production of nisin. 2,935,503, 5-3-60, Cl. 260—112.
- Hawley, Jack S., to Shand and Jurs Co. Function control system and apparatus. 2,952,836, 9-13-60, Cl. 340—163.
- Hawley, John C., deceased (H. E. Hawley and R. van Sickler, executors), 25% to R. van Sickler and 75% to H. E. Hawley and I. H. Baker. Visible publication apparatus and system. 2,964,042, 12-13-60, Cl. 129—16.
- Hawley Products Co.: *See*—  
Curtis, Russell H. 2,932,604.  
Haerther, William W., Jr. 2,960,177.  
Haerther, William W., Jr. 2,962,109.  
Hawley, Don M. 2,948,080.  
Hawley, Don M., and Williams. 2,932,601.  
Kyle, Colin. Re. 24,860.  
Stewart, John S. 2,941,574.
- Haworth, Lionel, to Rolls-Royce Ltd. Propeller-driving compound gas-turbine engine for aircraft. 2,947,364, 8-2-60, Cl. 170—135.71.
- Haworth, Lionel, and R. J. Shire, to Rolls-Royce Ltd. Heat-resisting wall structures. 2,919,549, 1-5-60, Cl. 60—39.65.
- Haworth, Lionel, and D. McLean, said Haworth assignor to Rolls-Royce Ltd. Gas-turbine engine with failure-operated control means. 2,930,188, 3-29-60, Cl. 60—39.09.
- Haworth, Lionel, and J. Palfreyman to Rolls-Royce Ltd. Supplying pressure oil to pitch change mechanism of airscrew driven by gas-turbine engine. 2,928,474, 3-15-60, Cl. 170—135.75.
- Hawryluk, Mykola.: *See*—  
Laemmle, David C., and Hawryluk. 2,937,382.
- Haws, Ernest R. Foldable partition. 2,929,445, 3-22-60, Cl. 160—32.
- Haws, Ernest R. Foldable partition. 2,945,535, 7-19-60, Cl. 160—40.
- Hawthorne, Gerald D.: *See*—  
Denman, Stephen A., and Hawthorne. 2,936,647.
- Hawthorne, Lowell H., to Revere Copper and Brass Inc. Welding guns. 2,938,106, 5-24-60, Cl. 219—125.
- Hawthorne, Lowell H., to Revere Copper and Brass Inc. Welding tubes to tube sheets. 2,962,306, 11-29-60, Cl. 285—222.
- Hawthorne, Marion F., to Rohm & Haas Co. Process for the preparation of cyclopropanes. 2,954,411, 9-27-60, Cl. 260—666.
- Hawthorne, Millo M., to Dresser Industries, Inc. Earth well tubing anomaly detector. 2,934,697, 4-26-60, Cl. 324—37.
- Hawthorne, Millo M., to Go Oil Well Services, Inc. Bore hole detector and firing apparatus. 2,946,926, 7-26-60, Cl. 317—80.
- Hawthorne, Nathaniel F.: *See*—  
Davis, Elwood A., and Hawthorne. 2,926,845.
- Hawtin, Selwyn G., D. R. Parker, and J. Downing, to British Celanese Ltd. Manufacture of artificial materials. 2,943,946, 7-5-60, Cl. 106—196.
- Hawver, Roy: *See*—  
Bobek, William J., and Hawver. 2,939,740.
- Hawthurst, John E., to International Business Machines Corp. Roll spacing for a card punch mechanism. 2,947,358, 8-2-60, Cl. 164—115.
- Haxton, Jerry D.: *See*—  
Haxton, John L. and J. D. 2,958,306.
- Haxton, John L. and J. D. Boat. 2,958,306, 11-1-60, Cl. 115—22.
- Haxton, Manford R., and W. F. Johnston, Jr., to The American Oil Co. Controlling heat fronts in platinum catalyst hydroforming. 2,944,008, 7-5-60, Cl. 208—140.
- Haxton, Manford R., W. F. Johnston, Jr., and K. A. Muller, Jr., to The American Oil Co. Regenerative platinum catalyst reforming. 2,952,611, 9-13-60, Cl. 208—65.
- Haxton, Manford R., W. F. Johnston, Jr., and I. F. Teykl, to The American Oil Co. Catalytic hydrogenation of dipropene. 2,953,612, 9-20-60, Cl. 260—683.9.
- Hay, Allan S., to General Electric Co. Oxidation of hydrocarbons and carbonyl compounds. 2,920,087, 1-5-60, Cl. 260—406.
- Hay, Arthur C., to General Electric Co. Interlock arrangement for a circuit breaker having a stored-energy closing device. 2,943,163, 6-28-60, Cl. 200—50.



- Hay, Charles N., to General Motors Corp. Method and apparatus for finishing annular grooves. 2,946,160, 7-26-60, Cl. 51-58.
- Hay, Daniel C. Emergency exit door and lock mechanism therefor. 2,959,440, 11-8-60, Cl. 292-92.
- Hay, David W. G.: See—
- Pfisterer, Heinz A., and Hay. Re. 24,761.
- Hay, Donald R., to Her Majesty the Queen in the right of Canada as represented by the Minister of National Defence. Refractometer comprising a pair of oscillators and beat frequency indicating means. 2,958,829, 11-1-60, Cl. 331-37.
- Hay, Horace E., to Atlas Powder Co. Detonator plug manufacture. 2,964,835, 12-20-60, Cl. 29-155.5.
- Hay, Peter M., to American Can Co. Coated collapsible tubes. 2,957,077, 10-18-60, Cl. 250-49.5.
- Hay, Russell G., to Goodrich-Gulf Chemicals, Inc. Olefin polymerization process using catalyst obtained by mixing a reducible heavy metal compound and a reducing metal-containing compound and promoted by a boron halide. 2,922,782, 1-26-60, Cl. 260-94.9.
- Hay, Warren H., and F. N. Hansen, to Sylvania Electric Products Inc. Induction lamp. 2,948,826, 8-9-60, Cl. 313-223.
- Hay, Wayne W.: See—
- Dietrich, Harold A., and Hay. 2,944,545.
- Hayashi, Shuichi: See—
- Mita, Shigeru, and Hayashi. 2,934,638.
- Hayashida, George M., and N. R. Hack, to The Bendix Corp. Guide for moving tape. 2,950,072, 8-23-60, Cl. 242-76.
- Haycock, Peter H., J. J. Ryan, and M. Tuson, to Tootal Broadhurst Lee Co. Ltd. Process for delustring textile materials. 2,962,392, 11-29-60, Cl. 117-139.5.
- Hayden, Edward L., and K. M. Spencer, to Sylvania Electric Products Inc. Tab straightening device. 2,954,067, 9-27-60, Cl. 153-32.
- Hayden, Ernest A. Chain saw equipped with bar stops. 2,925,105, 2-16-60, Cl. 143-32.
- Hayden, Eugene L., S. P. Skoll, and C. J. Witt, to Mojonnier Bros. Co. Flo-mix unit. 2,927,594, 3-8-60, Cl. 137-115.
- Hayden, Frederick L.: See—
- Kelday, Roy M., and Hayden. 2,928,528.
- Hayden, J. Page: See—
- Dugle, Thomas E. 2,941,117.
- Engelmann, Richard H. 2,941,118.
- Hayden, James F., and G. W. Offensend, to Eastman Kodak Co. Document handling apparatus. 2,947,218, 8-2-60, Cl. 88-24.
- Hayden, John: See—
- Coates, William H., and Hayden. 2,943,704.
- Coates, William H., and Hayden. 2,957,757.
- Hayden, John, to British Titan Products Co. Ltd. Separation of metallic halides. 2,925,145, 2-16-60, Cl. 183-119.
- Hayden, John E., Jr., and G. R. Pitmon, to The Cleveland-Cliffs Iron Co. Specific gravity measuring device. 2,952,157, 9-13-60, Cl. 73-438.
- Hayden-Nilos Ltd.: See—
- Potter, John J. 2,923,939.
- Potter, John J. 2,932,032.
- Hayden, William: See—
- Johnson, Peter W. R., Hayden, Georgette, and Fuhr. 2,943,897.
- Haydin, Edward. Frost free well pipe connection and casing adapter. 2,931,379, 4-5-60, Cl. 137-236.
- Haydin, Edward, and L. N. Reuter; said Haydin assor. to said Reuter. Well pump adapter. 2,960,166, 11-15-60, Cl. 166-85.
- Haydock, Raymond, said R. Haydock, trustee. Tray clip. 2,963,761, 12-13-60, Cl. 24-257.
- Hayduk, Walter: See—
- Welch, Donald H., Livingstone, and Hayduk. 2,961,472.
- Hayek, Arthur F., to General Precision, Inc. Variable speed drive. 2,933,932, 4-26-60, Cl. 74-198.
- Hayer, Frederick W. Rotary tooth cleaning device. 2,960,712, 11-22-60, Cl. 15-179.
- Hayes Aircraft Corp.: See—
- Argabright, Marvin L. 2,964,701.
- McLoughlin, William G. 2,950,876.
- Hayes, Dale I., to American Zinc, Lead and Smelting Co. Self loading transport. 2,953,263, 9-20-60, Cl. 214-78.
- Hayes, Donald W., to The Goodyear Tire & Rubber Co. Methods for agglomerating powdered pigments. 2,921,931, 1-19-60, Cl. 260-79.5.
- Hayes, Dudley W., and L. E. Abbott, to Food Machinery and Chemical Corp. Carton closing machine. 2,927,412, 3-8-60, Cl. 53-376.
- Hayes, Edmund W. Pie shield. 2,944,725, 7-12-60, Cl. 229-43.
- Hayes, Frances. Slumber pillow. 2,961,668, 11-29-60, Cl. 5-337.
- Hayes, Frank A.: See—
- Crockford, Jack A., Hayes, Feurt, Jenkins, and Palmer. 2,923,243.
- Hayes, Glenn O., to Ethyl Corp. Operation and discharge of sodium cells. 2,944,950, 7-12-60, Cl. 204-68.
- Hayes, Jack D.: See—
- Ely, Albert R., Hayes, and Lawrence. 2,944,485.
- Hayes, James G.: See—
- Hall, Arthur J. C., and Hayes. 2,927,042.
- Hayes, John D., and L. M. Hudson, to Bausch & Lomb Optical Co. Objective lens. 2,949,821, 8-23-60, Cl. 88-57.
- Hayes, John R., and S. C. Lampman, to General Motors Corp. Turbine nozzles. 2,925,998, 2-23-60, Cl. 253-78.
- Hayes, John R., to General Motors Corp. Two-piece turbine bucket. 2,930,580, 3-29-60, Cl. 253-39.15.
- Hayes, John R., to General Motors Corp. Turbine blade lock. 2,942,842, 6-28-60, Cl. 253-77.
- Hayes, Monson H., to Link Aviation, Inc. Resistance checker. 2,925,554, 2-16-60, Cl. 324-57.
- Hayes, Oliver L., to Commercial Solvents Corp. Process for the production of a cooled ammonium nitrate product. 2,958,589, 11-1-60, Cl. 23-302.
- Hayes, Paul M., to United States of America, Atomic Energy Commission. Low energy counting chambers. 2,925,509, 2-16-60, Cl. 313-93.
- Hayes, Richmond S., Jr., and R. H. Lohnas, to Carrier Corp. Apparatus for treating air. 2,962,116, 11-29-60, Cl. 183-22.
- Hayes, Robert A., and S. P. Boutsicaris, to The Firestone Tire & Rubber Co. Reacting an alkylene oxide with an acrylic-type acid using an alkaline organic or inorganic catalyst. 2,929,835, 3-22-60, Cl. 260-486.
- Hayes, Robert M., and G. W. Mayle, to Magnavox Co. Card processing apparatus. 2,965,019, 12-20-60, Cl. 101-53.
- Hayes, Robert M., A. M. Nelson, and J. B. Wiener, to Magnavox Co. Card processing system. 2,965,291, 12-20-60, Cl. 235-61.7.
- Hayes, Roy E.: See—
- Hoffman, George R., and Hayes. 2,947,912.
- Hayes, Stanley W., to Hayes Track Appliance Co. Articulated track skate. 2,935,030, 5-3-60, Cl. 104-259.
- Hayes Track Appliance Co.: See—
- Hayes, Stanley W. 2,935,030.
- Hayes, William S., to General Motors Corp. Warning device. 2,950,364, 8-23-60, Cl. 200-56.
- Hayes, William S., to General Motors Corp. Signal mechanisms. 2,952,011, 9-6-60, Cl. 340-263.
- Hayford, Richard E., and C. B. Kaiser, to Haloid Xerox Inc. Xerographic developing apparatus. 2,965,069, 12-20-60, Cl. 118-637.
- Hayhurst, Lewis J.: See—
- Coffey, Frank O., Hayhurst, and Kraft. 2,955,045.
- Hayler, Reginald, to Hawksley & Sons, Ltd. Measuring instrument. 2,948,965, 8-16-60, Cl. 33-125.
- Hayne, Wilbur L., Jr.: See—
- Traise, Thornton, Hayne, and Bunting. 2,925,387.
- Hayner, Paul F.: See—
- Pope, Harold W., Hayner, and Henderson. 2,945,380.
- Hayner, Paul F., to Sanders Associates, Inc. Differential hydraulic valve. 2,929,362, 3-22-60, Cl. 121-41.
- Hayner, Paul F., to Sanders Associates, Inc. Two-stage hydraulic servo valve. 2,962,002, 11-29-60, Cl. 121-46.5.
- Hayner, Paul F., and S. K. Tally, to Sanders Associates, Inc. Condenser winding machine. 2,925,228, 2-16-60, Cl. 242-56.1.
- Haynes, Artemas J., and E. F. Allen, to V. E. Macy, Jr. Cooker. 2,925,028, 2-16-60, Cl. 99-446.
- Haynes, Don A., to Calmar, Inc. Lock for container covers. 2,947,431, 8-2-60, Cl. 215-9.
- Haynes, George M.: See—
- Hurd Ira S., and Haynes. 2,961,344.
- Haynes, Munro K.: See—
- Buchholz, Werner, Haynes, and Whitney. 2,931,014.
- Haynes, Munro K., to International Business Machines Corp. Magnetic core circuits. 2,962,215, 11-29-60, Cl. 235-175.
- Haynes, Munro K., to International Business Machines Corp. Apparatus for transferring pulse information. 2,966,661, 12-27-60, Cl. 340-174.
- Haynes, Robert L.: See—
- Hague, John D., and Haynes. 2,939,083.
- Raab, Herman P., Jr., and Haynes. 2,958,011.
- Haynes, William R. Signaling filler pipe. 2,935,099, 5-3-60, Cl. 141-95.
- Haynman, Alexandre, to International Resistance Co. Fuse resistor. 2,966,649, 12-27-60, Cl. 338-322.
- Hays Corp., The: See—
- Kingma, Gerben R. 2,934,958.
- Hays, Harry H. Air conditioner. 2,945,552, 7-19-60, Cl. 183-14.
- Hays Mfg. Co.: See—
- Bartnik, Raymond J. 2,957,496.
- Bradbury, James G. 2,919,717.
- Windsor, Richard T. 2,951,503.
- Hays, Noble E., to Armco Steel Corp. Method of continuously forming welded coated steel tubing. 2,927,371, 3-8-60, Cl. 29-429.
- Hayslip, Gerald C. Supporting means for fish nets. 2,945,658, 7-19-60, Cl. 248-125.
- Hayssen Mfg. Co.: See—
- Gausman, Alfred P. 2,950,588.
- Gausman, Alfred P. 2,956,383.
- Wilson, David A. 2,962,848.
- Hayward, Albert J., to The George Cohen 600 Group Ltd. Variable speed friction drive transmission units. 2,931,234, 4-5-60, Cl. 74-200.
- Hayward, Albert J., to The George Cohen 600 Group Ltd. Variable speed friction drive transmissions. 2,931,235, 4-5-60, Cl. 74-200.
- Hayward, Gamon B. Paint shield for vehicle wheels. 2,954,752, 10-4-60, Cl. 118-505.
- Hayward, John T. Method of stabilizing submerged hulls on sand bottoms. 2,919,552, 1-5-60, Cl. 61-46.5.



- Hayward, John T. Submergible barges with anchor spuds. 2,960,832, 11-22-60, Cl. 61—46.5.
- Hayward, John T. Marine foundation structure. 2,960,833, 11-22-60, Cl. 61—46.5.
- Hayward, Leroy S., to Stapling Machines Co. Cleat feeding apparatus for box-making machines. 2,940,637, 6-14-60, Cl. 221—116.
- Haywood, George L., to Norton Co. Method of forming coated abrasives. 2,928,136, 3-15-60, Cl. 18—56.
- Haywood, Russell L., to Harris-Intertype Corp. Cutting machines with means for automatically disabling the cutting drive and reducing the pressure of the clamp drive during replacement of the blade. 2,939,357, 6-7-60, Cl. 83—380.
- Hazak, John T., to Raymond International Inc. Concrete piles and methods for forming and installing same. 2,920,456, 1-12-60, Cl. 61—57.
- Hazard, Frank M., Jr.: *See—*  
Scott, John W., Jr., and Hazard. 2,932,611.
- Hazard, Frederick E. Heat exchanger. 2,934,322, 4-26-60, Cl. 257—256.
- Hazard, Frederick E. Heat-conducting system, especially for transport containers. 2,951,642, 9-6-60, Cl. 237—43.
- Hazel, Herbert K.: *See—*  
Lawson, Axel A., and Hazel. 2,924,199.
- Hazel, Herbert K., to Melpar, Inc. Component feed and insertion. 2,947,447, 8-2-60, Cl. 221—299.
- Hazeltine Research, Inc.: *See—*  
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Baum, Peter A. 2,951,153.  
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Czina, Richard H., Keogh, and Richman. 2,943,263.  
Doncesse, George, and Farber. 2,931,946.  
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Loughlin, Bernard D. 2,924,651.  
Loughlin, Bernard D. 2,941,072.  
Loughlin, Bernard D. 2,943,142.  
Loughlin, Bernard D. 2,944,105.  
Loughlin, Bernard D. 2,950,349.  
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Richman, Donald. 2,936,332.  
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Wilhelmsen, Carl R. 2,927,204.  
Wilhelmsen, Carl R. 2,929,025.  
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- Hazelton, Henry S., Jr., to Pitney-Bowes, Inc. Letter inverter. 2,947,406, 8-2-60, Cl. 198—33.
- Hazelton, Merrill W., R. E. Griesheimer, and J. M. Allnutt, to The Cincinnati Shaper Co. Shaper. 2,944,468, 7-12-60, Cl. 90—48.
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- Hazen, Frank D. Method of and apparatus for welding metal tubes. 2,942,091, 6-21-60, Cl. 219—67.
- Hazen, Gretzolon L., to Rockwood & Co. Feeding device. 2,926,629, 3-1-60, Cl. 119—52.
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- Hazzard, Harry I.: *See—*  
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- Hazzeltine, Alan, to Hazeltine Research, Inc. Cathode-ray tube scanning apparatus. 2,944,173, 7-5-60 Cl. 313—77.
- Heacock, Ralph H., to Radio Corp. of America. Stereophonic sound for drive-in theatres. 2,956,129, 10-11-60, Cl. 179—100.1.
- Heacock, Ward J., to Link-Belt Co. Car haul. 2,922,625, 1-26-60, Cl. 254—185.
- Headley, John. Grain blower assembly. 2,946,629, 7-26-60, Cl. 302—37.
- Heal, Henry G., to United States of America, Atomic Energy Commission. Method of separating plutonium. 2,925,322, 2-16-60, Cl. 23—14.5.
- Heal, Robert G., to Staples & Co. Ltd. Helical spring forming apparatus. 2,960,600, 11-15-60, Cl. 219—153.
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- Healy, Joseph F., to Boots Aircraft Nut Corp. Flat expanding insert having an arched connecting member. 2,933,007, 4-19-60, Cl. 85—24.
- Healy, Wesley P. Color television screen and method of producing same. 2,955,348, 10-11-60, Cl. 29—25.17.
- Heape, Helen B. Game apparatus. 2,919,920, 1-5-60, Cl. 273—108.
- Heaphy, William G. Connecting means for scaffolding or the like. 2,961,259, 11-22-60, Cl. 287—53.5.
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- Heard, Harrison L., to Canadian Pittsburgh Industries Ltd. Preparation of lead sulphide mirrors. 2,934,454, 4-26-60, Cl. 117—35.
- Hearn, Daniel P., to Well Surveys, Inc. Multiple well logging system. 2,942,112, 6-21-60, Cl. 250—83.3.
- Hearn, William R., A. N. MacLean, and F. W. Trusler, to Colgate-Palmolive Co. Heavy duty liquid detergent compositions. 2,920,045, 1-5-60, Cl. 252—137.
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- Hearsum, Desmond R., and E. V. Gulden, to The National Cash Register Co. Data analyzing apparatus. 2,943,788, 7-5-60, Cl. 235—61.9.
- Heart, Herbert L., to Otis Elevator Co. Control for an elevator closure. 2,931,462, 4-5-60, Cl. 187—29.
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- Heath, Charles A. Leak control device. 2,958,592, 11-1-60, Cl. 48—193.
- Heath, Harry C., to The McKee Co. Multiple drill. 2,942,850, 6-28-60, Cl. 255—4.4.
- Heath, Harry C. Pumping rig and method. 2,949,861, 8-23-60, Cl. 103—179.
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- Heath, Theodore H., 51% to J. Pentony. Compartment locking system. 2,940,292, 6-14-60, Cl. 70—241.
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- Heberlein, Georg, and K. Risch, to Heberlein Patent Corp. Process for metalizing textiles and products therefrom. 2,921,864, 1-19-60, Cl. 117—56.
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- Hebert, John W., P. R. Schubert, and H. L. Coles, to Calcinator Corp. Incinerators. 2,962,987, 12-6-60, Cl. 110—8.
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Peilstöcker, Günter, and Hechelhammer. 2,964,797.
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- Heerlein, William J., to General Electric Co. Dishwashing machine. 2,960,093, 11-15-60, Cl. 134—182.
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- Heffernan, William R., and R. F. Schenk, to Johnson and Johnson. Air-permeable product and method of making the same. 2,922,418, 1-26-60, Cl. 128-141.
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- Hefti, Walter, to Schweizerische Lokomotiv- und Maschinenfabrik. Stabilizer for damping the rolling motion of ships. 2,964,008, 12-13-60, Cl. 114-124.
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- Hegji, Rudolph E., to Continental Can Co., Inc. Can and handle connecting means. 2,936,478, 5-17-60, Cl. 16-125.
- Hegna, Norman O. Elevating and loading mechanism for semi-liquids. 2,920,745, 1-12-60, Cl. 193-121.
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- Duschinsky, Robert, and Heidelberger. 2,948,725.
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- Heider, Richard A., to International Shoe Corp. Outsole with a peripheral lip. 2,936,535, 5-17-60, Cl. 36-25.
- Heidergott, Harry W., and W. O. Simpson, to Western Electric Co., Inc. Apparatus for filling and capping telephone transmitter components. 2,948,304, 8-9-60, Cl. 141-75.
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- Heidorn, John H., to General Motors Corp. Refrigerating apparatus. 2,929,551, 3-22-60, Cl. 230-186.
- Heigs, Henry E., and T. Kalisher, to Specialties Development Corp. Control head. 2,949,274, 8-16-60, Cl. 251-74.
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- Heijnis, James W. I., and C. J. Gonsalves, to American Enka Corp. Crimping apparatus. 2,949,659, 8-23-60, Cl. 28-1.
- Heikel, John B. Mount for a camera and prompter. 2,923,219, 2-2-60, Cl. 95-12.
- Heikes, Robert R., and W. D. Johnston, to Westinghouse Electric Corp. Thermoelements and devices embodying them. 2,921,973, 1-19-60, Cl. 136-5.
- Heikes, Robert R., and W. D. Johnston, to Westinghouse Electric Corp. Thermoelements and devices embodying them. 2,953,617, 9-20-60, Cl. 136-5.
- Heiks, Ray E.: *See*—  
Hassler, Kenneth E., Heiks, and Meyer. 2,942,158.
- Heil Equipment Co. of New York Inc.: *See*—  
Krause, Benjamin. 2,965,304.
- Heil, Hans: *See*—  
Ahlburg, Hayo, and Heil. 2,947,627.
- Heil, Hans, to General Electric Co. Methods and structures correcting for beam deflections in a television picture tube. 2,925,524, 2-16-60, Cl. 315-8.
- Heil, Hans, to General Electric Co. Color picture tube screen. 2,947,898, 8-2-60, Cl. 313-92.
- Heil, Jesse P., to The Valley Machine Co., Inc. Thread protector. 2,954,804, 10-4-60, Cl. 138-96.
- Heil, Oskar. Gas detector. 2,956,224, 10-11-60, Cl. 324-33.
- Heil, Oskar, L. A. Noble, and A. S. Wolfson, to Eitel-McCullough, Inc. Gettering electron gun. 2,956,192, 10-11-60, Cl. 313-82.
- Heil, Theodore, to Heilite Trailers. Portable packing scales. 2,944,809, 7-12-60, Cl. 265-68.
- Heil, Theodore, to Heilite Trailers. Portable kitchen. 2,944,862, 7-12-60, Cl. 312-237.
- Heilbronner, Harry S., to The Perry Knitting Co. Child's sleeping garment. 2,929,072, 3-22-60, Cl. 2-83.
- Heilfron, Jacques: *See*—  
Trautman, De Forest L., Rosenbloom, and Heilfron. 2,951,295.
- Heilfron, Jacques, to The Regents of the University of California. Discrete-variable electronic traffic simulator. 2,951,296, 9-6-60, Cl. 35-10.2.
- Heilig, Harland E., and F. A. Jehle, to Olin Mathieson Chemical Corp. Pharmaceuticals. 2,954,322, 9-27-60, Cl. 167-82.
- Heilig, Morton L. Stereoscopic-television apparatus for individual use. 2,955,156, 10-4-60, Cl. 178-6.5.
- Heiligenstaedt, Hans E. W., to Roehling'sche Eisen- und Stahlwerke G.m.b.H. Process and apparatus for heating a cross stream shaft furnace in view of heating solid materials, particularly for the calcination of limestone. 2,948,521, 8-9-60, Cl. 263-29.
- Heilite Trailers: *See*—  
Heil, Theodore. 2,944,809.
- Heil, Theodore. 2,944,862.
- Heilman, Glenn A. In-row-straddle row cultivator. 2,959,231, 11-8-60, Cl. 172-42.
- Heilman, William O.: *See*—  
Read, Chester L., and Heilman. 2,947,681.
- Heilman, William O., and J. A. Reilly, to Jersey Production Research Co. Secondary recovery operation. 2,924,276, 2-9-60, Cl. 166-11.
- Heim Co., The: *See*—  
Heim, Lewis R. 2,941,290.
- Heim, Edward L., to National Rejectors, Inc. Coin separators. 2,931,480, 4-5-60, Cl. 194-102.
- Heim, Jacob G. 35% to T. P. Mahoney. Holster. 2,951,622, 9-6-60, Cl. 224-2.
- Heim, Lewis R., to The Heim Co. Method of producing a sphere with a hole therethrough. 2,941,290, 6-21-60, Cl. 29-545.
- Heiman, Jordan L. Room space heater. 2,942,600, 6-28-60, Cl. 126-110.
- Heiman Pneumatic Machine Co.: *See*—  
Lasater, John A., and Deakins. Re. 24,827.
- Heimann, Hugo, D. H. Kohn, and Y. Israel, 1/4 to Technion Research and Development Foundation Ltd. Corrosion inhibitor composition and method of using same. 2,965,577, 12-20-60, Cl. 252-148.
- Heimberger, Oscar W., and F. Boni, Jr., to The Griscom-Russell Co. Head closure construction for heat exchanger. 2,937,782, 5-24-60, Cl. 220-46.
- Heimberger, Oscar W., and R. M. Wallace, to The Griscom-Russell Co. Method of making heat exchanger tube-tube sheet joints. 2,962,805, 12-6-60, Cl. 29-157.4.
- Heimberger, Werner: *See*—  
Haack, Erich, Dimroth, Hagedorn, Heimberger, and Peschke. 2,957,916.



- Heimel, Kurt, to Linotype G.m.b.H. Matrix-setting and line casting machines. 2,924,327, 2-9-60, Cl. 199-18.
- Heimers, Friedrich O.: See—
- Heimers, Rudolph H., F. O., and S. I. 2,945,694.
- Heimers, Rudolph H., F. O., and S. I. 2,945,695.
- Heimers, Rudolph H., F. O., and S. I. Hand held captive ball apparatus. 2,945,694, 7-19-60, Cl. 273-95.
- Heimers, Rudolph H., F. O., and S. I. Tennis racket with captive ball apparatus. 2,945,695, 7-19-60, Cl. 273-97.
- Heimers, Siegfried I.: See—
- Heimers, Rudolph H., F. O., and S. I. 2,945,694.
- Heimers, Rudolph H., F. O., and S. I. 2,945,695.
- Heimlicher, Conrad D., and H. D. Spence. Folding ladder and multi-directional latch therefor. 2,962,113, 11-29-60, Cl. 182-230.
- Heimlicher, Paul, and F. Meierhofer, to Maschinenfabrik Winkler, Fallert & Co. A.G. Article conveying and transferring means. 2,950,805, 8-30-60, Cl. 198-25.
- Heimo, Elmer E.: See—
- Rose, Stanley E., and Heimo. 2,950,667.
- Heimsch, Robert A.: See—
- Andersen, John W., and Heimsch. 2,949,427.
- Andersen, John W., and Heimsch. 2,965,680.
- Weesner, William E., and Heimsch. 2,949,486.
- Hein, George N., Jr., to Becton, Dickinson and Co. Hypodermic assembly. 2,940,446, 6-14-60, Cl. 128-218.
- Hein, George N., Jr., to Becton, Dickinson and Co. Controlled dosage syringe. 2,952,255, 9-13-60, Cl. 128-218.
- Hein, George N., Jr., to Becton, Dickinson and Co. Thermometer shaker. 2,955,468, 10-11-60, Cl. 73-373.
- Hein, Henry W., to The Cyril Bath Co. Stretch forming machine. 2,945,529, 7-19-60, Cl. 153-40.
- Hein, Kenneth L., and D. L. Lindsey. Drilling fluids and compositions for use in modification of same. 2,923,681, 2-2-60, Cl. 252-8.5.
- Hein, Lehmann & Co. Aktiengesellschaft: See—
- Sander, Hans E. G. 2,926,785.
- Hein-Werner Corp.: See—
- Rhodes, Stanley J. 2,938,564.
- Heine, Edmund C., Jr.: See—
- Mongan, William T., and Heine. 2,961,802.
- Heine, Edmund C., Jr. Flexural tension framing system and structural unit thereof. 2,928,360, 3-15-60, Cl. 108-1.
- Heine, Henry W. Manufacture of acoustic fireproof tiles. 2,934,789, 5-3-60, Cl. 18-47.5.
- Heine Kommandit-Gesellschaft: See—
- Hauptmann, Karl B. E. A. 2,922,026.
- Heine, Lawrence J., to Mack Trucks, Inc. Control system for exhaust brake. 2,947,392, 8-2-60, Cl. 192-3.
- Heine, Richard W.: See—
- King, Edward H., Heine, and Schumacher. 2,920,970.
- Heine, Thomas H.: See—
- Wainio, Albert W., and Heine. 2,930,934.
- Heine, Wilhelm: See—
- Hauptmann, Karl B. E. A. 2,922,026.
- Heinemann, Burdet, to Producers Creamery Co., and Misouri Farmers Association, Inc. Egg-milk product. 2,920,966, 1-12-60, Cl. 99-113.
- Heinemann, Burdet, to Producers Creamery Co. Method of packaging liquids. 2,920,967, 1-12-60, Cl. 99-171.
- Heinemann Electric Co.: See—
- Camp, William W. 2,958,751.
- Heinemann, Rolf, to Firma Georgii Elektro-Motoren-Apparatebau-Kommanditgesellschaft. Clutch or brake. 2,962,143, 11-29-60, Cl. 192-84.
- Heinemann, Rolf, and M. Zeh, to Firma Georgii Elektro-Motoren-Apparatebau-Kommanditgesellschaft. Device for holding a pair of members together so that they do not move relative to each other, such as a clutch or a brake. 2,962,144, 11-29-60, Cl. 192-84.
- Heinen, Josef: See—
- Müller, Wilhelm, Casper, Haupt, and Heinen. 2,947,706.
- Heinicke Instruments Co.: See—
- Heinicke, Kurt J. 2,947,312.
- Heinicke, John B.: See—
- Jarvis, Lactance A., and Heinicke. 2,949,497.
- Heinicke, Julius W., to S. A. Adok. Timer device for fluid control mechanism. 2,928,644, 3-15-60, Cl. 251-54.
- Heinicke, Kurt J., to Heinicke Instruments Co. Washing and sterilizing machine for glassware. 2,947,312, 8-2-60, Cl. 134-191.
- Heinis, Robert P.: See—
- Goldstein, Harry, and Heinis. 2,942,108.
- Heinkel, Ernst, Aktiengesellschaft: See—
- Speer, Horst. 2,964,056.
- Heinlein, John L., and L. E. Barnes, to The Oliver Corp. Cross feed mechanism for harvester or baler. 2,920,752, 1-12-60, Cl. 198-223.
- Heinmiller, Percival M., and I. Karsh, to Utility Trailer Mfg. Co. Towing assembly for trailers. 2,933,329, 4-19-60, Cl. 280-116.
- Heinr. Auer, Mühlenwerke: See—
- Neidhardt, Karl. 2,928,523.
- Heinrich, Adeline: See—
- Heinrich, August H. 2,941,825.
- Heinrich, August H.: See—
- Donley, Philip F., and Heinrich. 2,961,258.
- Heinrich, August H., deceased; A. Heinrich, executrix. Sealing system for bearings, shafts, etc. 2,941,825, 6-21-60, Cl. 286-11.
- Heinrich, Chester J. Wheel-type gravity conveyors. 2,920,734, 1-12-60, Cl. 193-35.
- Heinrich Envelope Co.: See—
- Marban, Teodoro E. G. 2,951,625.
- Heinrich, Otho: See—
- Flottmann, Friedrich H., and Heinrich. 2,965,362.
- Heinrich, Raymond L.: See—
- Thorpe, Charles L., Heinrich, Hoffman, and Anderson. 2,950,242.
- Heinrich, Robert A.: See—
- Campe, William T., and Heinrich. 2,935,653.
- Ensign, Angus C., Jr., and Heinrich. 2,956,446.
- Heins, Harold: See—
- Alexander, Herbert C., and Heins. 2,947,956.
- Heintz, James C., Co., The: See—
- Fassero, Anthony T., and Maddox. 2,928,119.
- Heinz, Alexander, to VEB Kamera- und Kinowerke Dresden. Motion picture camera with sliding shutter and device for backwinding of the film. 2,955,510, 10-11-60, Cl. 88-17.
- Heinz, Anton R., H. Haberland, and D. Rosahl, to Farbenfabriken Bayer Aktiengesellschaft. Polymerization of chloroprene. 2,965,604, 12-20-60, Cl. 260-45.8.
- Heinze, Robert V., and L. H. Reyerson, to Submerged Combustion, Inc. Processing of lignite. 2,949,350, 8-16-60, Cl. 44-30.
- Heinze, Werner, and W. Jülich, to Precisia A.G. Rechenmaschinenfabrik. Ten-keys key board for calculating machines. 2,945,622, 7-19-60, Cl. 235-60.
- Heintzel, Joseph F.: See—
- Kelly, Clyde W., McKinnon, Heintzel, and Harper. 2,948,366.
- Heintzelman, Leo A. Drain valve for compressed air reservoir. 2,950,731, 8-30-60, Cl. 137-183.
- Heintzelman, Richard V.: See—
- Szmuszkovicz, Jacob, and Heintzelman. 2,933,499.
- Heintzelmann, Richard V., to The Upjohn Co. Bis[ $\beta$ -(ortho-hydroxycarboxyphenyl) isopropyl] amines. 2,930,731, 3-29-60, Cl. 167-52.
- Heintzelman, Richard V., R. B. Moffett, and B. D. Aspergren, to The Upjohn Co. 10-aminoalkanol-phenothiazines. 2,933,495, 4-19-60, Cl. 260-243.
- Heintzelman, Richard V., R. B. Moffett, and B. D. Aspergren, to The Upjohn Co. 10-aminoalkanolphenothiazine oxides. 2,933,496, 4-19-60, Cl. 260-243.
- Heinzen, Ruth W., to McGraw-Edison Co. Supporting bracket. 2,966,324, 12-27-60, Cl. 248-221.
- Heinzer, Hans, to Schweizerische Industrie-Gesellschaft. Machines for the production of bags consisting at least on their inside of thermoplastic material. 2,944,469, 7-12-60, Cl. 93-8.
- Heinzmann, Fred C.: See—
- Crane, Hewitt D., Bannion, and Heinzmann. 2,958,854.
- Heinzmann, Fritz. Centrifugal governor. 2,957,351, 10-25-60, Cl. 73-537.
- Heise, Howard L.: See—
- Bruce, Donald S., and Heise. 2,954,353.
- Heise, Lorenz W., and M. Johnson, to A. O. Smith Corp. Soil additive and process for fertilizing and conditioning soil. 2,920,950, 1-12-60, Cl. 71-1.
- Heise, Paul A. Adjustable mounting for a view finder. 2,933,278, 4-19-60, Cl. 248-226.
- Heise, Richard H.: See—
- De Pew, Thomas N., and Heise. 2,925,921.
- De Pew, Thomas N., and Heise. 2,942,826.
- Heise, Rudolf, and W. Strauss, to Dehydtag, Deutsche Hydrierwerke G.m.b.H. Process for the production of carboxylic acid esters. 2,965,660, 12-20-60, Cl. 260-410.9.
- Heiseler, George W. Self-tightening gripping device. 2,936,625, 5-17-60, Cl. 74-1.
- Heisenberg, Erwin, and W. Jurgleit, to Vereinigte Glanzstoff-Fabriken AG. Process for polymerization of vinyl compounds in the presence of a tertiary phosphine. 2,921,055, 1-12-60, Cl. 260-88.7.
- Heiser, Joachim: See—
- Aldinger, Ulrich, and Heiser. 2,935,062.
- Heiser, Joachim, to Robert Bosch G.m.b.H. Injection pump. 2,937,637, 5-24-60, Cl. 123-140.
- Heiser, William H., to International Telephone and Telegraph Corp. Multir circuit. 2,934,707, 4-26-60, Cl. 328-146.
- Heiskell, Theodore W., G. A. Carlson, and S. W. Brown, to Columbia-Southern Chemical Corp. Method of electrolyzing brine. 2,954,333, 9-27-60, Cl. 204-98.
- Heiskell, Theodore W., and F. C. Dehn, to Columbia-Southern Chemical Corp. Oxychlorinating of alkanes. 2,957,924, 10-25-60, Cl. 260-662.
- Heisler, Albert: See—
- Starr, Anthony J., and J. S. and A. Heisler. 2,962,185.
- Heisler, Clarence J. Apparatus for washing and sterilizing milking machines and the like. 2,956,571, 10-18-60, Cl. 134-169.
- Heisler, Jerome S.: See—
- Starr, Anthony J., and J. S. and A. Heisler. 2,962,185.
- Heisler, Robert Y.: See—
- Crowe, Bernard F., and Heisler. 2,958,695.
- Newman, Stanley R., Heisler, and Alpert. 2,921,955.
- Newman, Stanley R., Heisler, and Alpert. 2,937,932.
- Heisler, Robert Y., S. R. Newman, and N. Alpert, to Texaco Inc. Fuel composition. 2,937,933, 5-24-60, Cl. 44-70.
- Heisler, Robert Y., S. R. Newman, and N. Alpert, to Texaco Inc. Process for suppressing deposit formation in an internal combustion engine. 2,956,870, 10-18-60, Cl. 44-70.



- Heisler, William C., to Guilbert, Inc. Fire latch for elevator doors. 2,925,895, 2-23-60, Cl. 189-48.
- Heisler, William C., to Guilbert, Inc. Safety astragal for dumbwaiter doors. 2,949,648, 8-23-60, Cl. 20-19.
- Heiss, John P.: *See—*  
 Sampietro, Achilles C., and Heiss. 2,960,825.
- Heiss, John P., to Thompson Products, Inc. Leveling strut joint. 2,933,309, 4-19-60, Cl. 267-64.
- Heiss, John P., to Thompson Ramo Wooldridge Inc. Pump. 2,939,398, 6-7-60, Cl. 103-42.
- Heiss, John P., to Thompson Ramo Wooldridge Inc. Hydraulic leveling mechanism. 2,940,772, 6-14-60, Cl. 280-112.
- Heiss, John P., to Thompson Ramo Wooldridge Inc. Fluid pressure self-leveling assembly for vehicle suspensions. 2,957,702, 10-25-60, Cl. 280-124.
- Heiss, John P., to Thompson Ramo Wooldridge Inc. Calibrated orifice for high pressure struts. 2,962,280, 11-29-60, Cl. 267-64.
- Heiss, John P., to Thompson Ramo Wooldridge Inc. Leveling valve. 2,965,373, 12-20-60, Cl. 267-64.
- Heitche, Regis D., Sr., to Westinghouse Electric Corp. Refrigerating apparatus. 2,963,216, 12-6-60, Cl. 230-58.
- Heitlinger, Eugene V., to Compotometer Corp. Significant digit indicating mechanism for a split accumulator mechanism. 2,928,598, 3-15-60, Cl. 235-82.
- Heitmann, Arnold M., to General Electric Co. Valve operating mechanism. 2,927,590, 3-8-60, Cl. 137-17.
- Heitmann, Herbert: *See—*  
 Stobbe, Helmut, Glas, and Heitmann. 2,945,916.
- Heitner, Manfred, to North American Philips Co., Inc. Resilient device for urging a magnetic record. 2,935,574, 5-3-60, Cl. 179-100.2.
- Helberg, David. Device for demonstrating fractions and decimal equivalents. 2,926,432, 3-1-60, Cl. 35-31.
- Helbig, Lutz E.: *See—*  
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- Helbig, Walter A.: *See—*  
 Sublette, Ivan H., and Helbig. 2,952,838.
- Helbing, Clarence H.: *See—*  
 Brunnick, Wayne A., and Helbing. 2,946,698.
- Held, Betty. Shoe construction with adjustable shank portions. 2,952,925, 9-20-60, Cl. 36-2.5
- Held, Chester W.: *See—*  
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- Held, Joseph, to Textile Machine Works. Knitting machines and operating mechanism therefor. 2,921,452, 1-19-60, Cl. 66-86.
- Held, Joseph, to Textile Machine Works. Element positioning means for straight knitting machines. 2,941,386, 6-21-60, Cl. 66-86.
- Held, Joseph E., to American Cystoscope Makers, Inc. Self-threading suturing instrument. 2,959,172, 11-8-60, Cl. 128-340.
- Held, Louis F.: *See—*  
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- Held, Serge S. Electrically driven clockwork. 2,948,104, 8-9-60, Cl. 58-28.
- Helda, Robert W.: *See—*  
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- Heldstab, Willard. Device for guying masts. 2,923,382, 2-2-60, Cl. 189-31.5.
- Helfand, Victor M.: *See—*  
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- Helgeson, Virgil L., to General Motors Corp. Vehicle steering control system with lateral acceleration computer. 2,957,535, 10-25-60, Cl. 180-79.2.
- Heli-Coil Corp.: *See—*  
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- Heling, Paul, to Kürbi & Niggeloh. Panorama heads for tripods and the like. 2,948,501, 8-9-60, Cl. 248-183.
- Helix Corp.: *See—*  
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- Helke, Robert C.: *See—*  
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- Hell, Dr. Ing. Rudolf: *See—*  
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- Hell, Dr.-Ing. Rudolf, Kommanditgesellschaft: *See—*  
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- Hell, Hans: *See—*  
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- Hell, Rudolf, to Dr.-Ing. Rudolf Hell Kommanditgesellschaft. Method of and apparatus for producing screened printing patterns. 2,925,463, 2-16-60, Cl. 178-6.6.
- Hell, Rudolf, to Dr.-Ing. Rudolf Hell Kommanditgesellschaft. Form-printing facsimile receiver. 2,938,948, 5-31-60, Cl. 178-6.6.
- Hell, Rudolf, to Dr.-Ing. Rudolf Hell Kommanditgesellschaft. Apparatus for transmitting teleprinter characters. 2,943,148, 6-28-60, Cl. 178-17.
- Hell, Rudolf, to Kommanditgesellschaft Dr. Ing. Rudolf Hell. Apparatus for producing punched coding tapes of very long period. 2,949,501, 8-16-60, Cl. 178-22.
- Hellberg, William M. Game and practice attachment for a gun. 2,934,634, 4-26-60, Cl. 240-2.
- Helle, Fritz K., and G. J. T. Rosenfeldt, to North American Philips Co., Inc. Method of coating electrical discharge tube. 2,951,773, 9-6-60, Cl. 117-211.
- Helle, George A., and R. K. Neal, to Chance Vought Aircraft, Inc. Pressure-extending apparatus. 2,940,498, 6-14-60, Cl. 153-21.
- Helle, Heinz, to VEB Maschinenbau Jonsdorf. Feed device for woodworking machines especially planing machines. 2,937,674, 5-24-60, Cl. 144-247.
- Heller, Austin N., and J. H. Staub, to Allied Chemical Corp. Cyclic method for removal of impurities from coke oven tar by water washing. 2,937,130, 5-17-60, Cl. 208-39.
- Heller, B., & Co.: *See—*  
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- Heller Co., The: *See—*  
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- Heller, David M. Device and method for "place packing" pimento stuffed olives and the like. 2,957,286, 10-25-60, Cl. 53-35.
- Heller, Ferdinand P., to Amchem Products, Inc. Method of forming a chromate conversion coating on magnesium. 2,961,358, 11-22-60, Cl. 148-6.2.
- Heller, Gerald K. Speed indicator. 2,952,807, 9-13-60, Cl. 324-70.
- Heller, Gerhard: *See—*  
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- Heller, Hansjorg, to The B. F. Goodrich Co. Composition comprising a vinylidene cyanide copolymer and a cyanoethyl compound as plasticizer. 2,952,653, 9-13-60, Cl. 260-30.8.
- Heller, Herbert H.: *See—*  
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 Bird, James R., Frederico, and Heller. 2,958,830.  
 Waterfield, Clayton F., Calderhead, and Heller. 2,946,005.
- Heller, Herbert H., to Bird Electronic Corp. Diminutive coaxial line resistive termination. 2,966,639, 12-27-60, Cl. 333-22.
- Heller, Hugo R., deceased, M. Heller, administratrix. Bag opener or tearing device. 2,936,938, 5-17-60, Cl. 225-82.
- Heller, Irving, to The Heller Co. Sliding door assembly. 2,962,773, 12-6-60, Cl. 20-19.
- Heller, John H. Method and apparatus for continuous measurement of moisture. 2,920,206, 1-5-60, Cl. 250-83.6.
- Heller, John H., to New England Institute for Medical Research. Immunizing against and treatment of diseases. 2,952,585, 9-13-60, Cl. 167-78.
- Heller, Joseph N., and N. J. Amlott, to General Motors Corp. Air cleaner means. 2,936,853, 5-17-60, Cl. 183-43.
- Heller, Laszlo, and A. Baker, to Licencia Talalmányokát Ertekcsito Vallalat. Process of and apparatus for cooling electrical generators. 2,934,655, 4-26-60, Cl. 290-2.
- Heller, Laszlo, and L. Forgó, to "Licencia" Talalmányokát Ertekcsito Vallalat. Finned construction for heat exchangers. 2,963,277, 12-6-60, Cl. 257-262.11.
- Heller, Marion: *See—*  
 Heller, Hugo R. 2,936,938.
- Heller, Paul: *See—*  
 Scherer, Otto, and Heller. 2,960,534.
- Heller, Paul, to Westinghouse Electric Corp. Retaining device. 2,922,908, 1-26-60, Cl. 313-76.
- Heller, Paul, to Westinghouse Electric Corp. Beam centering apparatus. 2,922,909, 1-26-60, Cl. 313-76.
- Heller, Richard V., and J. Di Nunzio, to American Viscose Corp. Packaging apparatus. 2,959,902, 11-15-60, Cl. 53-180.
- Heller, Robert B., to Curtiss-Wright Corp. Self-balancing ultrasonic instrument. 2,949,769, 8-23-60, Cl. 73-67.6.
- Heller, Robert B., to Curtiss-Wright Corp. Ultrasonic testing device. 2,966,056, 12-27-60, Cl. 73-67.6.
- Heller, Robert B., to Curtiss-Wright Corp. Apparatus for measuring attenuation of ultrasonic energy. 2,966,057, 12-27-60, Cl. 73-67.6.
- Heller, Robert M., to Watts Electric & Mfg. Co. Socket structure. 2,920,302, 1-5-60, Cl. 339-93.
- Heller, Robert M., to Watts Electric & Mfg. Co. Mold structure. 2,928,126, 3-15-60, Cl. 18-36.
- Heller, Robert M., to Watts Electric & Mfg. Co. Protective cap structure. 2,928,500, 3-15-60, Cl. 184-88.
- Heller, Robert M., to Watts Electric & Mfg. Co. Electrical receptacle. 2,941,182, 6-14-60, Cl. 339-131.
- Heller, Robert M., to Watts Electric & Mfg. Co. Composite article. 2,948,036, 8-9-60, Cl. 24-73.
- Heller Roberts Mfg. Corp.: *See—*  
 Rinehardt, Albert J. 2,923,938.
- Heller, Rudolf, to Contraves A.G. Connecting arrangement. 2,930,637, 3-29-60, Cl. 287-20.3.
- Heller, Zindel H., and J. J. Dudek, to Sperry Rand Corp. Automatic frequency control circuit. 2,933,598, 4-19-60, Cl. 250-20.
- Hellermann, Paul: *See—*  
 Kabel, Heinrich. 2,944,335.
- Hellermann, Paul, Fabrik elektrotechnischer Spezialartikel: *See—*  
 Kabel, Heinrich. 2,944,335.
- Hellier, Edward G., and G. L. Martin, to National Research Corp. Production of tantalum powder. 2,950,185, 8-23-60, Cl. 75-5.
- Hellin, Michel C. F., and F. C. Coussemant, to Institut Français du Pétrole des Carburants et Lubrifiants. Process for making 4,4-dimethylmetadioxane. 2,962,507, 11-29-60, Cl. 260-340.7.



- Helling, Werner, and H. Neunzig, to Vereinte Aluminum-Werke Aktiengesellschaft. Apparatus for polishing metals. 2,940,228, 6-14-60, Cl. 51-263.
- Hellinger, Clyde B. Portable refrigerator. 2,926,504, 3-1-60, Cl. 62-236.
- Hellman, Max: See—  
Wall, Leo A., Hellman, and Pummer. 2,927,138.
- Hellman, Nison N.: See—  
Kinsman, George H., and Hellman. 2,948,616.  
Kinsman, George H., and Hellman. 2,964,410.  
Kinsman, George H., Hellman, and Baker. 2,938,795.
- Hellman, Werner, to Bar Zim Toy Mfg. Co., Inc. Wind actuated toy musical instrument. 2,937,557, 5-24-60, Cl. 84-330.
- Hellman, Werner F. Dart toy. 2,930,161, 3-29-60, Cl. 46-84.
- Hellner, Gustaf: See—  
Carlsson, Sven, and Hellner. 2,940,614.
- Hellstrom, Axel G., to Aktiebolaget Electrolux. Refrigerator employing secondary refrigeration system. 2,946,206, 7-26-60, Cl. 62-334.
- Hellstrom, Gosta L., to Aktiebolaget Electrolux. Multi-purpose suction cleaner nozzle. 2,960,715, 11-22-60, Cl. 15-373.
- Hellstrom, Gosta L., to Aktiebolaget Electrolux. Multi-purpose suction cleaner nozzle. 2,961,690, 11-29-60, Cl. 15-417.
- Hellstrom, Melbourne J., to Westinghouse Electric Corp. Automatic gain control. 2,953,640, 9-20-60, Cl. 178-7.3.
- Hellund, Emil J., to The Fluor Corp., Ltd. Compressor plant analog. 2,924,894, 2-16-60, Cl. 35-19.
- Hellund, Emil J. Attenuation of pulsations in fluid lines. 2,963,044, 12-6-60, Cl. 138-30.
- Hellwig, August. Method and apparatus for angular measurement of pipe bends. 2,950,536, 8-30-60, Cl. 33-86.
- Hellwig, August. Raceway network. 2,950,575, 8-30-60, Cl. 50-127.
- Hellwig, August, deceased (F. P. Hellwig, administrator of said A. Hellwig). Forming and pressure dies for pipe-bending machines. 2,955,638, 10-11-60, Cl. 153-32.
- Hellwig, Donald J. Diaper rinsing device. 2,940,289, 6-14-60, Cl. 68-214.
- Hellwig, Frank P.: See—  
Hellwig, August. 2,955,638.
- Hellyer, Frederick G.: See—  
Bradshaw, Arthur, Hellyer, Robbins, Smith, and Toon. 2,960,721.
- Helm, Edward J., to Koppers Co., Inc. Production of diammonium phosphate from coke oven gas. 2,921,837, 1-19-60, Cl. 23-107.
- Helm, Edward J., to Koppers Co., Inc. Debenzoling wash oil. 2,922,751, 1-26-60, Cl. 197-99.
- Helm, Edward J., and E. V. Schulte, to Koppers Co., Inc. Production of diammonium phosphate. 2,946,655, 7-26-60, Cl. 23-107.
- Helm, Edward J., and E. V. Schulte, to Koppers Co., Inc. Coke oven gas by-product recovery. 2,961,065, 11-22-60, Cl. 183-114.6.
- Helm, Frederick A. Car top carrier. 2,919,841, 1-5-60, Cl. 224-42.1.
- Helm, Homer E., to United States of America, Army. Automatic indexing device. 2,920,531, 1-12-60, Cl. 89-1.
- Helm, Jack D. Paper bags having airtight areas to facilitate automatic bag feeding. 2,938,657, 5-31-60, Cl. 229-55.
- Helm, Mark W., to The Hoover Co. Suction appliance. 2,954,576, 10-4-60, Cl. 15-320.
- Helmers, Carl J., and C. R. Turvey, to Phillips Petroleum Co. Method for improving used cracking catalysts. 2,921,018, 1-12-60, Cl. 208-114.
- Helmers, Gert, to The Scholl Mfg. Co., Inc. Shoe with cushion foundation. 2,938,284, 5-31-60, Cl. 36-71.
- Helmick, Fred E.: See—  
Randles, Arthur E., Jr. 2,935,917.  
Randles, Arthur E., Jr. 2,946,497.
- Helmick, Walter E.: See—  
Caryl, Coleman R., and Helmick. 2,945,417.
- Helmig, Richard W., to Harris-Intertype Corp. Sheet gripper element. 2,933,040, 4-19-60, Cl. 101-412.
- Helminak, John E., and J. H. Sreb, to United States of America, Navy. Electrical switch. 2,931,868, 4-5-60, Cl. 200-61.46.
- Helmke, Edward C., to Gisholt Machine Co. Thread chasing attachment for lathes with interconnected carriage drive and tool cross slide feed means. 2,920,332, 1-12-60, Cl. 10-101.
- Helmke, Emil A. Constant velocity universal joint structure. 2,921,451, 1-19-60, Cl. 64-21.
- Helmrich, Hans: See—  
Fischer, Josef, Aidn, Lind, Ruhland, Krautwald, and Helmrich. 2,941,130.
- Helms, Howard D., to Radio Corp. of America. Dynamic bistable or control circuit. 2,964,646, 12-13-60, Cl. 307-88.
- Helton, James A. Test adapter for electronic equipment. 2,952,810, 9-13-60, Cl. 324-158.
- Helton, William J., to Foster Brothers Mfg. Co. Folding sofa bed structure. 2,947,997, 8-9-60, Cl. 5-13.
- Helton, William J., to Foster Bros. Mfg. Co. Folding sofa bed structure. 2,948,904, 8-16-60, Cl. 5-13.
- Heltzel, Francis O. Rotisserie barbecue device. 2,929,311, 3-22-60, Cl. 99-421.
- Heltzel Steel Form & Iron Co., The: See—  
Carnes, Fred D. 2,949,828.  
Graves, Gordon R. 2,965,987.
- Helus, Richard R., and G. M. Dyer, to United States of America, Navy. Method of propellant stowage, arming and initiation of propellant flow for a liquid fuel propulsion system in a liquid fuel rocket motor. 2,954,670, 10-4-60, Cl. 60-39.48.
- Helvern, James O., and W. F. Erickson, to General Motors Corp. Fluid pressure control of circulating fluid in a brake. 2,928,511, 3-15-60, Cl. 188-264.
- Helversen, Frederick D.: See—  
Burton, John A., Helversen, and Hyde. 2,928,619.
- Helvey, Edward E., and G. H. Hohmann, to United States of America, Navy. Slow speed camera. 2,928,312, 3-15-60, Cl. 88-16.
- Helwig, Ralph W., to Gulf Research & Development Co. Separating volatile components from a heavy oil by means of a venturi tube. 2,937,141, 5-17-60, Cl. 208-361.
- Helwig, Robert A.: See—  
Snyder, Donald L., and Helwig. 2,965,229.
- Helwig, Walter O. Electric brushes for electric motors and generators. 2,923,842, 2-2-60, Cl. 310-248.
- Helwig, William J., to Radio Corp. of America. High trans-conductance electron tube. 2,932,757, 4-12-60, Cl. 313-268.
- Hembrook, Emil F., to Muzak Corp. Automatic control circuit. 2,921,291, 1-12-60, Cl. 340-167.
- Hemig, Ernst, to T. C. Rogers. Storage battery cap. 2,930,831, 3-29-60, Cl. 136-177.
- Hemion, John R., P. Covalence, and K. J. Riddle, to Daystrom, Inc. Electrical instrument. 2,949,778, 8-23-60, Cl. 73-361.
- Hemkens, Gerard C.: See—  
Leaders, William M., Rhodes, Kuhlman, and Hemkens. 2,953,430.
- Hemker, Herman W., C. E. Herschel, and I. Wilson, to American Viscose Corp. Staple fiber cutting machine with stationary blade deflected toward rotary cutting blades. 2,961,909, 11-29-60, Cl. 83-349.
- Hennmann, William A. Tall grass bending and conditioning attachment for reel type lawn mowers. 2,919,533, 1-5-60, Cl. 56-220.
- Hemmeter, George T. Balancer mount. 2,929,599, 3-22-60, Cl. 243-205.
- Hemmeter, George T. Wheel balancer. 2,954,699, 10-4-60, Cl. 73-458.
- Hemminger, Charles E.: See—  
Dunlop, Donald D., and Hemminger. 2,934,490.
- Hemminger, Charles E., to Esso Research and Engineering Co. Water washing of tar sands. 2,940,919, 6-14-60, Cl. 203-11.
- Hemminger, Charles E., to Esso Research and Engineering Co. Hydroformated feed improved by adsorption of normal paraffins. 2,945,804, 7-19-60, Cl. 208-91.
- Hemminger, Charles E., to Esso Research and Engineering Co. Catalytic cracking of hydrocarbons. 2,948,673, 8-9-60, Cl. 208-164.
- Hemminger, Charles E., and R. C. Morbeck, to Esso Research and Engineering Co. Hydrogenation of heavy oils. 2,934,492, 4-26-60, Cl. 208-112.
- Hempel, Gustav A., to McDowell Mfg. Co. Spouted gate valve. 2,925,989, 2-23-60, Cl. 251-145.
- Hempel, Gustav A., to McDowell Mfg. Co. Spouted gate valve. 2,925,990, 2-23-60, Cl. 251-145.
- Hempel, Gustav A., to McDowell Mfg. Co. Spouted gate valve. 2,925,991, 2-23-60, Cl. 251-145.
- Hempel, Herbert W., and T. R. McLeMORE, to Marsh Stencil Machine Co. Fountain roller applicator. 2,965,911, 12-27-60, Cl. 15-132.5.
- Hemphill, Alfred A., and J. M. Tewksbury, to Bendix Aviation Corp. Remote tuning servosystem for radio receivers. 2,943,249, 6-28-60, Cl. 318-29.
- Hemphill, Charles A. Carrying case. 2,950,011, 8-23-60, Cl. 211-1.
- Hemphill Co.: See—  
Green, Isaac H. C. 2,934,921.  
Green, Isaac H. C. 2,961,857.  
Letzerich, Hellmut. 2,939,302.
- Hemphill, Frederick A.: See—  
Dickinson, William A., Hemphill, and Johnson. 2,939,980.
- Hemphill, Stanley R., to Safety Automatic Brake Corp. Parking safety device. 2,959,261, 11-8-60, Cl. 192-3.
- Hemsley, Thomas B., 1/2 to Clarke, Chapman & Co. Ltd. Lubricators for sprocket chains. 2,920,720, 1-12-60, Cl. 184-15.
- Hemsley, Thomas B., 1/2 to Clarke, Chapman & Co. Ltd. Continuous trough conveyors. 2,936,063, 5-10-60, Cl. 198-196.
- Hemstreet, Harold S., and R. A. Woodson, to General Precision, Inc. Means for producing visual display in grounded aircraft trainers. 2,938,279, 5-31-60, Cl. 35-12.
- Hemsworth, Martin C., to General Electric Co. Compressor blade adjustment means. 2,932,440, 4-12-60, Cl. 230-114.
- Hemsworth, Martin C., to General Electric Co. Compressor. 2,955,744, 10-11-60, Cl. 230-114.
- Henahan, John F.: See—  
Willard, Joe R., and Henahan. 2,928,862.  
Willard, Joe R., and Henahan. 2,941,920.
- Henchert, John, to Continental Can Co., Inc. Tab equipped can. 2,934,843, 5-3-60, Cl. 40-2.



- Henchert, John, to Continental Can Co., Inc. Bail ear and body blank assembly. 2,936,928, 5-17-60, Cl. 220-91.
- Henchert, John, to Continental Can Co., Inc. Plastic nozzle and screw cap assembly. 2,950,033, 8-23-60, Cl. 22-551.
- Henchert, John, to Continental Can Co., Inc. Bail ear and body blank assembly. 2,957,600, 10-25-60, Cl. 220-91.
- Hencken, James E., and W. H. Merker, to General Motors Corp. Shaft support and lubricating arrangement. 2,919,962, 1-5-60, Cl. 308-187.
- Hendal, Willem P.: *See*—  
Hardebol, Jacobus, and Hendal. 2,955,432.
- Hendee, Charles F., and S. Fine, to North American Philips Co., Inc. X-ray analysis apparatus. 2,924,715, 2-9-60, Cl. 250-53.
- Hendee, Charles F., W. B. Brown, and S. Fine, to North American Philips Co., Inc. Apparatus and method for the electrodeposition of rare metals. 2,959,532, 11-8-60, Cl. 204-224.
- Hendel, Carl E.: *See*—  
Notter, George K., and Hendel. 2,959,487.
- Hendel, Joseph A. Hygroscopic valve construction. 2,931,376, 4-5-60, Cl. 137-197.
- Hendel, Joseph A. Hydraulic damper device. 2,931,391, 4-5-60, Cl. 138-26.
- Henderson, Ashland S.: *See*—  
Cross, Carol D., Henderson, Riede, and Reisinger. 2,941,732.
- Haley, Kenneth M., and Henderson. 2,962,150.
- Henderson, Ashland S., and E. W. Davis, to Reserve Mining Co. Plant operating control means. 2,965,316, 12-20-60, Cl. 241-34.
- Henderson, Cyril, to Smiths America Corp. Mechanical power transmission systems. 2,942,498, 6-28-60, Cl. 74-759.
- Henderson, Eldon C. Holder for headed tools. 2,956,715, 10-18-60, Cl. 224-5.
- Henderson, Eulas W., to Phillips Petroleum Co. Transportation of fluids. 2,930,682, 3-29-60, Cl. 48-190.
- Henderson, George A.: *See*—  
Kendall, James M., and Henderson. 2,954,734.
- Henderson, George C. Monorail track and trolley. 2,954,743, 10-4-60, Cl. 104-93.
- Henderson, Harry B., to The Anaconda Co. Recovery of molybdenite by flotation. 2,957,576, 10-25-60, Cl. 209-167.
- Henderson, J. Alvin, to International Telephone and Telegraph Corp. Memory circuit. 2,965,884, 12-20-60, Cl. 340-173.
- Henderson, J. Alvin, D. L. Johnson, and E. W. Koenig, to International Telephone and Telegraph Corp. System for separating and extracting related recorded information. 2,941,083, 6-14-60, Cl. 250-206.
- Henderson, Jack C., and G. L. Parodi, to The Upjohn Co. Guide structure for bottle stoppering apparatus. 2,934,238, 4-26-60, Cl. 221-36.
- Henderson, James R.: *See*—  
Zoeller, Richard J., and Henderson. 2,949,369.
- Henderson, John, and T. E. Langston, to Bennett Rose Co. Battery filling apparatus. 2,921,609, 1-19-60, Cl. 139-245.
- Henderson, John D. Hearing aid plastic ear pieces. 2,939,923, 6-7-60, Cl. 179-182.
- Henderson, Joseph E., to United States of America, Navy. Fuze. 2,952,778, 9-13-60, Cl. 250-208.
- Henderson, Knox B., to National Tank Co. Metering emulsion treaters. 2,940,310, 6-14-60, Cl. 73-200.
- Henderson, Leonard L. Dry cleaning apparatus and electrical solution control device. 2,940,287, 6-14-60, Cl. 68-13.
- Henderson, Richard B.: *See*—  
Pope, Harold W., Hayner, and Henderson. 2,945,380.
- Henderson, Robert, and B. Lindenberg. Extensible automobile trailer. 2,965,412, 12-20-60, Cl. 296-23.
- Henderson, Robert D. Tire demounting tool. 2,940,514, 6-14-60, Cl. 157-122.
- Henderson, Scott W. Rotary cutter. 2,923,117, 2-2-60, Cl. 56-294.
- Henderson, Shelby F., Jr.: *See*—  
Ginsburg, Charles P., Henderson, Dolby, and Anderson. 2,921,990.
- Ginsburg, Charles P., Henderson, Dolby, and Anderson. 2,956,114.
- Henderson, Stanford A., to Gomco Surgical Mfg. Corp. Vaporizer. 2,963,021, 12-6-60, Cl. 128-188.
- Henderson, Walter P. Valves. 2,934,307, 4-26-60, Cl. 251-41.
- Henderson, William A.: *See*—  
Johnson, Herbert L., and Henderson. 2,946,779.
- Henderson, William B., to Phillips Petroleum Co. Recovery of olefin polymers from solution. 2,964,516, 12-13-60, Cl. 260-94.9.
- Henderson, William H. Safety locking device. 2,964,237, 12-13-60, Cl. 232-16.
- Henderson, William P., and V. Pershon. Windshield container. 2,953,253, 9-20-60, Cl. 211-41.
- Hendley, James A., to Talon, Inc. Slide fastener and tape therefor. 2,940,478, 6-14-60, Cl. 139-384.
- Hendrich, Henry A.: *See*—  
Walsh, Francis W., and Hendrich. 2,927,789.
- Hendricks, James O., to Minnesota Mining & Mfg. Co. Pressure-sensitive adhesive tapes. 2,956,904, 10-18-60, Cl. 117-93.
- Hendricks, Klaas: *See*—  
Drew, Robert D., and Hendricks. 2,955,786.
- Hendricks Supply Co., Inc.: *See*—  
Vanden Berg, Roy. 2,965,397.
- Hendrickson, Ben F. Coal-sizing screen. 2,924,334, 2-9-60, Cl. 209-393.
- Hendrickson, Charles C. Disc harrow. 2,950,927, 8-30-60, Cl. 280-462.
- Hendrickson, Donald E.: *See*—  
Schwartz, Daniel M., and Hendrickson. 2,922,536.
- Hendrickson, Fritz E., 1/2 to M. Ireland. Buffing wheel. 2,940,225, 6-14-60, Cl. 51-193.
- Hendrickson, George W., to Hendrickson Mfg. Co. Gear shift. 2,944,435, 7-12-60, Cl. 74-335.
- Hendrickson, Jack, to Continental Machines, Inc. Drive mechanism for machine tool carriages. 2,957,368, 10-25-60, Cl. 74-665.
- Hendrickson, Joe G., to The American Oil Co. Synthesis of trialkylbenzenes. 2,920,117, 1-5-60, Cl. 260-668.
- Hendrickson, John J., to Hendrickson Machine Co. Chuck assembly. 2,966,363, 12-27-60, Cl. 279-52.
- Hendrickson Machine Co.: *See*—  
Hendrickson, John J. 2,966,363.
- Hendrickson Mfg. Co.: *See*—  
Hendrickson, George W. 2,944,435.
- Hendrickson, Robert T. 2,940,771.
- Hendrickson, Paul C., and D. C. Johnson. Draftsman's template. 2,963,793, 12-13-60, Cl. 33-174.
- Hendrickson, Robert T., to Hendrickson Mfg. Co. Resilient axle suspension for vehicles. 2,940,771, 6-14-60, Cl. 280-104.5.
- Hendrickson, Roy E. Play pen. 2,937,385, 5-24-60, Cl. 5-93.
- Hendrickson, Roy H., and S. A. Sweeting, to Rochester Button Co. Orienter for articles in a hopper. 2,959,324, 11-8-60, Cl. 221-168.
- Hendrickson, Severin B., to Heywood-Wakefield Co. Stacking chairs. 2,936,024, 5-10-60, Cl. 155-2.
- Hendrickson, Thomas A., to International Business Machines Corp. Relay impulse counter. 2,930,526, 3-29-60, Cl. 235-92.
- Hendrie, George S.: *See*—  
Bradley, Stephen D., and Hendrie. 2,958,909.
- Henrikson, Karl E., deceased; F. B. Henrikson, executrix. Material hardness detector. 2,956,432, 10-18-60, Cl. 73-81.
- Hendrix, Charles A.: *See*—  
Lytton, Kenneth G., Wise, and Hendrix. 2,952,047.
- Hendrix, John W., to Deere & Co. Fertilizer distributor. 2,950,737, 8-30-60, Cl. 137-625.48.
- Hendrix, Hurshel V., to Phillips Petroleum Co. Dual storage caverns. 2,934,904, 5-3-60, Cl. 61-5.
- Hendry, Adolph R. Engine muffler. 2,933,148, 4-19-60, Cl. 181-39.
- Hendry, Eric D.: *See*—  
Turk, Walter E., and Hendry. 2,923,843.
- Hendry, James M.: *See*—  
Cowden, Lewis M., and Hendry. 2,940,592.
- Hendry, John C. Method and apparatus for injection molding of plastics. 2,921,341, 1-19-60, Cl. 18-30.
- Henel, James L. Voltage and polarity tester. 2,956,229, 10-11-60, Cl. 324-133.
- Heney, John F., and P. E. Dorney, to International Telephone and Telegraph Corp. Gas discharge tube. 2,945,149, 7-12-60, Cl. 313-346.
- Henfling, Arthur N. Fleshing machine. 2,941,391, 6-21-60, Cl. 69-46.
- Hengel, Mathew C., to American Cyanamid Co. Mechanism for packing long length dynamite cartridges of low density. 2,940,353, 6-14-60, Cl. 86-20.
- Hengstebeck, Robert J.: *See*—  
Conn, Arthur L., and Hengstebeck. 2,956,004.
- Sanders, William W., and Hengstebeck. 2,938,854.
- Sanders, William W., and Hengstebeck. 2,941,928.
- Hengstebeck, Robert J., to Standard Oil Co. Coking apparatus. 2,929,765, 3-22-60, Cl. 196-128.
- Henig, Seymour, to United States of America, Navy. Pre-determined target dispersal rocket launcher. 2,958,261, 11-1-60, Cl. 89-17.
- Henisch, Heinz K., to Sylvania Electric Products Inc. Electronic counter. 2,922,898, 1-26-60, Cl. 307-88.5.
- Henisch, Heinz K., to Sylvania Electric Products Inc. Thermal switches. 2,929,968, 3-22-60, Cl. 317-132.
- Henisch, Heinz, to Sylvania Electric Products Inc. Photo-conductive cells. 2,962,595, 11-29-60, Cl. 250-211.
- Henjum, James E.: *See*—  
Blinka, Joseph, and Henjum. 2,941,948.
- Henke, Alfred M.: *See*—  
Bercik, Paul G., and Henke. 2,953,519.
- Beuther, Harold, Henke, and McKinley. 2,960,458.
- Henke, Alfred M., and A. E. Somers, to Gulf Research & Development Co. Process for separating a mixture of ethyl benzene and styrene. 2,922,828, 1-26-60, Cl. 260-674.
- Henke, Alfred M., and H. C. Stauffer, to Gulf Research & Development Co. Rotating thermal diffusion unit and process. 2,936,859, 5-17-60, Cl. 210-72.
- Henke, Alfred M., and H. C. Stauffer, to Gulf Research & Development Co. Molecular sieve adsorption process utilizing a two-stage desorption technique. 2,940,926, 6-14-60, Cl. 208-310.



- Henkel & Cie. G.m.b.H.: See—  
 Alsfeld, Max, and Dierichs. 2,934,453.  
 Blaser, Bruno, Schirp, and Stein. 2,948,750.  
 Blaser, Bruno, Stein, and Schirp. 2,948,737.  
 Blaser, Bruno, Stein, and Schirp. 2,948,735.  
 Blaser, Bruno, and Tischbirek. 2,964,564.  
 Dohr, Manfred, Krause, and Wulff. 2,943,099.  
 Dohr, Manfred, Krause, and Wulff. 2,956,068.  
 Habernickel, Valentin. 2,937,998.  
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 Schenk, Walter. 2,931,829.  
 Schenk, Walter, and Schwarte. 2,930,813.  
 Schirp, Hubert, and Stein. 2,938,050.  
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 Tischbirek, Gunther. 2,931,822.
- Henkels, Herbert W., and D. L. Moore, to Westinghouse Electric Corp. Silicon semiconductor devices. 2,964,830, 12-20-60, Cl. 29—25.3.
- Henle, Robert A.: See—  
 Bruce, George D., Henle, and Walsh. 2,963,594.
- Henle, Robert A., and M. L. Wood, to International Business Machines Corp. Binary adder using transformer logical circuits. 2,943,791, 7-5-60, Cl. 235—176.
- Henle, Robert A., and J. B. Mackay, to International Business Machines Corp. Transistor power inverter circuit. 2,947,879, 8-2-60, Cl. 307—88.5.
- Henley, Charles F., to Ever-Ready Razor Products Ltd. Magazines for holding wafer-type razor blades and other thin articles. 2,928,531, 3-15-60, Cl. 206—16.
- Henley, Charlotte L.: See—  
 Oberg, Andrew L., Henley, and Bidwell. 2,963,003.
- Henley, Edward J. Electrical contact device. 2,931,877, 4-5-60, Cl. 200—166.
- Henley, Edward J. Electronic tone generator system. 2,941,435, 6-21-60, Cl. 84—122.
- Henley, James D. Tooth paste dispenser. 2,936,006, 5-10-60, Cl. 141—360.
- Henne, George B., & Co., Inc.: See—  
 Windmassinger, George. 2,942,451.
- Henneberry, Harold L., Jr. Clothspin. 2,928,152, 3-15-60, Cl. 24—139.
- Hennemann, Georg, and A. G. Luthgerhorst, to American Enka Corp. Process for conferring antistatic properties to synthetic textile fibers. 2,936,249, 5-10-60, Cl. 117—76.
- Hennen, Joseph W., to Standard Metal Fabricating Co. Sheet metal attachment means. 2,950,131, 8-23-60, Cl. 285—189.
- Hennessey, Desmond E.: See—  
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- Hennessey, Raymond G.: See—  
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- Hennessey, Russell J., to Waldorf Paper Products Co. Floor stands. 2,920,852, 1-12-60, Cl. 248—174.
- Hennessey, Russell J., to Waldorf Paper Products Co. Display cartons. 2,946,433, 7-26-60, Cl. 206—45.19.
- Hennessey, Russell J., to Waldorf Paper Products Co. Pad for packing articles. 2,959,340, 11-8-60, Cl. 229—40.
- Hennessey, Douglas J., and R. J. Mosby, to American Lecithin Co., Inc. Enhanced phosphate products. 2,952,694, 9-13-60, Cl. 260—403.
- Hennessey, Howard A., and N. Dasher, to Progress Mfg. Co., Inc. Lamp socket mounting. 2,928,065, 3-8-60, Cl. 339—128.
- Hennicke, William, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of dispersible sulfur-containing products, suitable for the purpose of plant protection. 2,957,798, 10-25-60, Cl. 167—20.
- Hennies, Stuart R.: See—  
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- Hennig, Harvey: See—  
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- Hennig, Harvey, and H. A. Lindahl, to The Pure Oil Co. Production of dimethylammonium dimethyl carbamate. 2,927,129, 3-1-60, Cl. 260—501.
- Hennig, Harvey, to The Pure Oil Co. Process for improving the octane number of naphthas. 2,947,683, 8-2-60, Cl. 208—65.
- Hennig, Horst: See—  
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- Henniges, Ernst, to Gerda C. M. L. Runknagel, nee Wentwig. Lubricating cushion assembly especially for axle bearings of rail vehicles. 2,955,883, 10-11-60, Cl. 308—88.
- Henniges, Ernst H., to Etablissement Rugero Co. Lubricator pad for axle bearings especially of rail vehicles. 2,928,699, 3-15-60, Cl. 308—88.
- Henning, Frederick E.: See—  
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- Henning, Frederick W., Jr., and C. T. Levinsky, to Westinghouse Electric Corp. Aviation jet propulsion apparatus. 2,929,203, 3-22-60, Cl. 60—35.6.
- Henning, Frederick W., Jr., and C. T. Levinsky, to Westinghouse Electric Corp. Fuel injection system for an aircraft engine. 2,951,341, 9-6-60, Cl. 60—39.74.
- Henning, George E.: See—  
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- Henning, George E., to Western Electric Co., Inc. Apparatus for advancing strands. 2,929,493, 3-22-60, Cl. 203—200.
- Henning, George E., to Western Electric Co., Inc. Apparatus for distributing filamentary material into coil form. 2,929,574, 3-22-60, Cl. 242—82.
- Henning, George E., to Western Electric Co., Inc. Apparatus for distributing a strand into coil form. 2,929,576, 3-22-60, Cl. 242—82.
- Henning, George E., to Western Electric Co., Inc. Apparatus for coiling strands. 2,929,577, 3-22-60, Cl. 242—83.
- Henning, George E., to Western Electric Co., Inc. Polyethylene coated with wax and polystyrene or polytetrafluoroethylene and preparation of cellular article therefrom. 2,945,827, 7-19-60, Cl. 260—2.5.
- Henning, George E., to Western Electric Co., Inc. Composite materials for producing cellular polyethylene articles. 2,945,828, 7-19-60, Cl. 260—2.5.
- Henning, George E., to Western Electric Co., Inc. Methods of making composite electrical conductors. 2,955,968, 10-11-60, Cl. 154—227.
- Henning, George E., to Western Electric Co., Inc. Method of making plastic articles. 2,960,482, 11-15-60, Cl. 260—2.5.
- Henning, James E., to Bjorksten Research Laboratories, Inc. Glass fiber treatment. 2,932,598, 4-12-60, Cl. 154—128.
- Henning, Richard A. Cushion liner for a clamp operable at extreme temperatures. 2,922,733, 1-26-60, Cl. 154—53.6.
- Henning, Robert W.: See—  
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- Henning, Robert W., and R. Marsh, to Olin Mathieson Chemical Corp. Cartridge firing apparatus. 2,931,039, 4-5-60, Cl. 1—44.5.
- Henning, Robert W., E. F. Pfaff, and R. J. Kopf, to Olin Mathieson Chemical Corp. Threaded plug and explosively driven stud therefor. 2,954,717, 10-4-60, Cl. 85—1.
- Henning, Robert W., and R. J. Kopf, to Olin Mathieson Chemical Corp. Receptor for positioning discs and the like at the muzzle of the barrel of explosively actuated tools. 2,957,175, 10-25-60, Cl. 1—44.5.
- Henning, Robert W., R. J. Kopf, and R. Marsh, to Olin Mathieson Chemical Corp. Explosively actuated fastener driving tool with safety and cartridge extractor means. 2,957,176, 10-25-60, Cl. 1—106.
- Henning, William W.: See—  
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- Henningsen, Etlar A.: See—  
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- Henningsen, Etlar A., to International Harvester Co. Spike tooth harrow with leaf spring relief structure. 2,954,087, 9-27-60, Cl. 172—635.
- Hennion, Joseph B., to Tyler Refrigeration Corp. Refrigerated merchandising unit. 2,950,605, 8-30-60, Cl. 62—250.
- Hennion, Joseph B., to Tyler Refrigeration Corp. Cabinet. 2,961,283, 11-22-60, Cl. 312—311.
- Hennis, Robert B., to International Business Machines Corp. Transistor neon driver. 2,927,247, 3-1-60, Cl. 315—135.
- Henquet, Andre J., to International Standard Electric Corp. Potential comparing systems. 2,921,234, 1-12-60, Cl. 315—163.
- Henquet, Andre J., and J. J. Perrot, to International Standard Electric Corp. Concentrators of telephone lines or the like. 2,944,115, 7-5-60, Cl. 179—18.
- Henrich, Gunter, to Farbenfabriken Bayer Aktiengesellschaft. Method of recovering hydrazine hydrate from an aqueous solution of hydrazine hydrate and acetone. 2,955,921, 10-11-60, Cl. 23—190.
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- Henriksen, Arthur L., to Norsk Hydro-Elektrisk Kvaestofaktielselskab. Method and apparatus for sealing bags. 2,924,196, 2-9-60, Cl. 118—423.
- Henrikson, Bror W., and B. J. Oom, to American Seating Co. Chair. 2,921,622, 1-19-60, Cl. 155—55.
- Henrikson, Bror W., A. C. Hoven, W. S. Lindberg, and B. E. Rimkus, to American Seating Co. Single standard stadium chair. 2,965,155, 12-20-60, Cl. 155—83.
- Henrikson, Carl A.: See—  
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- Henrikson, Thor O., to Pacific Car and Foundry Co. Mechanical refrigerator cars. 2,949,751, 8-23-60, Cl. 62—239.
- Henriksson, Fred E., to United Shoe Machinery Corp. Shoe cream applicators with laminated plastic sponge pads. 2,962,743, 12-6-60, Cl. 15—135.
- Henrite Products Corp.: See—  
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- Henry, Admiral D., Soil treating machine. 2,950,566, 8-30-60, Cl. 47-1.
- Henry, Albert R., to Henry Mfg. Co., Inc. Variable load limiting system for extensible masts and booms. 2,946,406, 7-26-60, Cl. 187-9.
- Henry, Augustus P., Rotary fluid actuator. 2,960,076, 11-15-60, Cl. 121-99.
- Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Fuel injection system for internal combustion engines. 2,952,250, 9-13-60, Cl. 123-28.
- Henry, Frances, to W. C. Henry. Mutable feminine facial style display means. 2,919,502, 1-5-60, Cl. 35-59.
- Henry, George E., to General Electric Co. Quality control device. 2,938,669, 5-31-60, Cl. 235-179.
- Henry, Harry M., Work holst. 2,939,590, 6-7-60, Cl. 214-1.
- Henry, Herbert W., Base sack anchoring means. 2,947,540, 8-2-60, Cl. 273-25.
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- Henry, James J., to Conch International Methane Ltd. Tank for the storage and transportation of a low boiling liquid. 2,966,040, 12-27-60, Cl. 62-54.
- Henry, John B., and G. B. Price, to The Flexicore Co., Inc. Pre-cast concrete beam construction. 2,956,375, 10-18-60, Cl. 50-128.
- Henry, Lyell D., Means for sensing and tabulating the accumulated roughness of a roadway surface. 2,946,644, 7-26-60, Cl. 346-13.
- Henry Mfg. Co., Inc.: *See—*  
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- Henry, Nelson B., to Aldrich Machine Works. Lap indicator. 2,959,863, 11-15-60, Cl. 33-147.
- Henry, Patrick F.: *See—*  
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- Henry, Robert L., and J. L. Baker, to Henrite Products Corp. Machine support device. 2,945,988, 7-19-60, Cl. 317-2.
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- Henry, William V., to American Enka Corp. Tire yarn beam. 2,953,316, 9-20-60, Cl. 242-118.7.
- Henry, William V., D. C. Cole, and M. L. Smathers, to American Enka Corp. Method and apparatus for producing a transfer tail. 2,949,722, 8-23-60, Cl. 57-34.
- Henschel-Werke Gesellschaft mit beschränkter Haftung: *See—*  
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- Hense, Theo, to Olympia Werke A.G. Matrix storage register. 2,932,007, 4-5-60, Cl. 340-166.
- Hense, Theo, to Olympia Werke A.G. High speed printing apparatus. 2,936,704, 5-17-60, Cl. 101-93.
- Hense, Theo, to Olympia Werke A.G. Magnetomechanical matrix register and input device therefor. 2,964,740, 12-13-60, Cl. 340-174.
- Hensel, Erich, Tightening device for spanned curtains on windows, glass doors and the like parts in a building. 2,953,256, 9-20-60, Cl. 211-105.5.
- Hensel, Hans R., B. Eistert, H. Bäumann, and J. Dehnert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. New metal complex dyestuffs. 2,920,071, 1-5-60, Cl. 260-148.
- Hensgen, Bernard T., and J. D. Ingle, to Swift & Co. Stacking device for strip material. 2,925,269, 2-16-60, Cl. 270-52.
- Hensgen, Bernard T., L. Chandler, and E. C. Vandenberg, to Swift & Co. Apparatus for preparing equal weight slices of product. 2,954,811, 10-4-60, Cl. 146-95.
- Henshall, Albert E.: *See—*  
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- Henshaw, Thomas A., to The Pyrene Co. Ltd. Inductors. 2,946,293, 7-26-60, Cl. 103-273.
- Henshaw, Wallace H., Jr., to General Electric Co. Control system for wash water storage and re-use system. 2,920,469, 1-12-60, Cl. 68-12.
- Henshaw, Wallace H., Jr., to General Electric Co. Control system for automatic washing machines. 2,950,612, 8-30-60, Cl. 68-12.
- Henshaw, Wallace H., Jr., to General Electric Co. Control arrangement for clothes washing machine. 2,955,449, 10-11-60, Cl. 68-12.
- Henshaw, Wallace H., Jr., to General Electric Co. Control system for wash water storage and re-use system. 2,959,042, 11-8-60, Cl. 68-12.
- Henshaw, Wallace H., Jr., and P. H. Houser, to General Electric Co. Control arrangement for clothes washing machine. 2,934,925, 5-3-60, Cl. 68-12.
- Hensler, Joseph R., to Bausch & Lomb Optical Co. Methods of making reticles. 2,923,624, 2-2-60, Cl. 96-35.
- Hensler, Walter W., and G. B. Mann, to Howard W. Sams & Co., Inc. Automatic motor control unit. 2,922,941, 1-26-60, Cl. 318-207.
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- Hensley, James L., to Ty-Sa-Man Machine Co. Work holder. 2,925,005, 2-16-60, Cl. 83-176.
- Hensley, Owen L., and J. C. Hamrick, to Jet Line Products, Inc. Method and apparatus for inserting wires in conduits. 2,930,584, 3-29-60, Cl. 254-134.3.
- Hensley, Raymond, to North American Aviation, Inc. Automatic weight loader. 2,946,580, 7-26-60, Cl. 265-48.
- Hensley, Robert K., Jr. Key and coin combination lock. 2,948,379, 8-9-60, Cl. 194-92.
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- Henson, Clarence E., to J. I. Case Co. Depth control for mounted plow. 2,960,172, 11-15-60, Cl. 172-448.
- Henss, Heinrich, to Firma Vdo Tachometer Werke Adolf Schindling G.m.b.H. Measuring devices and warning instruments to indicate operating conditions of a vehicle. 2,935,729, 5-3-60, Cl. 340-52.
- Henstree, Harold S., to General Precision, Inc. Servomechanism. 2,954,514, 9-27-60, Cl. 318-28.
- Henstridge, Alec G., to Bristol Aero-Engines Ltd. Supporting structure for a gas turbine bearing. 2,930,662, 3-29-60, Cl. 308-189.
- Hentschel, Friedrich, to Telefunken G.m.b.H. Remote indicator system. 2,961,485, 11-22-60, Cl. 178-6.
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- Hentzi, Joffre R., to The Bristol Co. Mechanical-electrical transducer. 2,951,225, 8-30-60, Cl. 338-41.
- Henwood, James B., and S. C. Wood, to Selas Corp. of America. Burner. 2,920,691, 1-12-60, Cl. 158-116.
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- Henze, Rudolf, P. Rudolph, and F. Danulat, deceased (by G. and I. Danulat, administrators), to Metallgesellschaft Aktiengesellschaft. Pressure closure valve. 2,925,334, 2-16-60, Cl. 48-86.
- Hepler, Donald L., to Sharon Steel Corp. Sealing tool construction. Re. 24,836, 6-14-60, Cl. 81-9.1.
- Hepler, Donald L., to Sharon Steel Corp. Strap stretching tool construction. 2,919,894, 1-5-60, Cl. 254-51.
- Hepler, Leon R., and G. Johnson, Jr., to Clark Equipment Co. Device for industrial truck. 2,955,721, 10-11-60, Cl. 214-514.
- Heppner, Charles, and A. C. Peters, to United-Carr Fastener Corp. Positioning apparatus. 2,965,247, 12-20-60, Cl. 214-1.
- Hepp, Harold J., and L. E. Drehman, to Phillips Petroleum Co. Catalytic cracking process. 2,926,131, 2-23-60, Cl. 208-115.
- Hepp, Harold J., and E. O. Box, Jr., to Phillips Petroleum Co. Production of solid polymer. 2,927,106, 3-1-60, Cl. 260-94.9.
- Hepp, Peter S., to Sun Oil Co. Vapor-liquid contact assemblies. 2,921,777, 1-19-60, Cl. 261-114.
- Hepp, Rudolf, Method and apparatus for the separation of folded layers of paper with a protruding edge. 2,933,312, 4-19-60, Cl. 270-54.
- Hepp, Robert J., to International Telephone and Telegraph Corp. Synchronizing system. 2,947,981, 8-2-60, Cl. 343-6.
- Heppenstall, Thomas E., and A. L. Mottet, to International Paper Co. Felting apparatus and method. 2,919,475, 1-5-60, Cl. 19-155.
- Hepperle, Erwin, to Machine Tool Works Oerlikon, Administration Co. Recoil and buffer spring assembly for automatic fire arms. 2,962,935, 12-6-60, Cl. 89-44.
- Heppner, Elmore A., to Heppner Sales Co. Permanent magnet tension device. 2,924,397, 2-9-60, Cl. 242-155.
- Heppner, Elmore A., to Heppner Sales Co. Magnetic catch. 2,935,352, 5-3-60, Cl. 292-251.5.
- Heppner, Elmore A., to Heppner Mfg. Co. Magnetic loudspeaker. 2,961,497, 11-22-60, Cl. 179-114.
- Heppner, Leander J. Polygonal hole forming tool. 2,947,225, 8-2-60, Cl. 90-24.
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- Hepworth, Walter, to Imperial Chemical Industries, Ltd. Coccidiosts treatment with 4-bromo-4'-nitro-carbanilide. 2,932,605, 4-12-60, Cl. 167-53.1.
- Hepworth, Walter, and D. N. Richardson, to Imperial Chemical Industries Ltd. 6-nitro quinolone derivatives. 2,966,489, 12-27-60, Cl. 260-287.



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- Herbenar, Edward J., to Thompson Ramo Wooldridge Inc. Vehicle idler arm assembly. 2,937,033, 5-17-60, Cl. 280-95.
- Herbenar, Edward J., to Thompson Ramo Wooldridge Inc. Self-adjusting pivot joint for vehicle steering linkage. 2,944,829, 7-12-60, Cl. 280-95.
- Herbenar, Edward J., to Thompson Ramo Wooldridge Inc. Power steering attachment. 2,957,361, 10-25-60, Cl. 74-388.
- Herbenar, Edward J., to Thompson Ramo Wooldridge Inc. Leveling valve system for fluid pressure suspension. 2,957,705, 10-25-60, Cl. 280-124.
- Herbenar, Edward J., to Thompson Ramo Wooldridge Inc. Ball joint and seal therefor. 2,957,713, 10-25-60, Cl. 287-90.
- Herberger, Robert A., to General Motors Corp. Vehicle air conditioning systems. 2,930,206, 3-29-60, Cl. 62-244.
- Herbert, John M.: *See*—  
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- Herbert, John M., to The Plessey Co. Ltd. Method of making ceramic dielectric material. 2,934,442, 4-26-60, Cl. 106-39.
- Herbert, John M., to The Plessey Co. Ltd. Charging device for electrometers. 2,944,204, 7-5-60, Cl. 320-1.
- Herbert, John M., to The Plessey Co. Ltd. Ceramic material and method of producing the same. 2,946,937, 7-26-60, Cl. 317-258.
- Herbert, Michael V., to Power Jets (Research and Development) Ltd. Combustion apparatus for burning ash-forming liquid fuel. 2,924,938, 2-16-60, Cl. 60-39.74.
- Herbert, Thomas A., Jr., to Rohr Aircraft Corp. Heat insulating panel and method of making same. 2,926,761, 3-1-60, Cl. 189-34.
- Herbert, Thomas A., Jr., to Rohr Aircraft Corp. Nickel plated honeycomb panel. 2,940,557, 6-14-60, Cl. 189-34.
- Herbert, Thomas A., Jr., to Rohr Aircraft Corp. Method of making stainless steel honeycomb panels. 2,962,811, 12-6-60, Cl. 29-455.
- Herbert, Thomas M., to The Budd Co. Disk brake assembly for railway cars. 2,955,679, 10-11-60, Cl. 188-59.
- Herbes, William F., to American Cyanamid Co. Blends of urea-formaldehyde resins and sulfonated thiourea-formaldehyde resins, and method of making and using same. 2,923,644, 2-2-60, Cl. 260-103.
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- Salyer, Ival O., and Herbig. 2,957,847.
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- Herbold, Robert J. Method of processing and sterilizing milk. 2,926,094, 4-23-60, Cl. 99-185.
- Herbold, Robert J., and C. J. Hughes, administrator of L. M. Hughes (deceased), assor. of  $\frac{1}{2}$  each to C. J. W. E., and L. M. Hughes, Jr., as tenants in common. Geophysical prospecting apparatus. 2,953,742, 9-20-60, Cl. 324-6.
- Herbrecht, René, to Societe Anonyme dite: Compagnie Electro-Mecanique. Apparatus for placing windings in motor stators. 2,920,382, 1-12-60, Cl. 29-205.
- Herbruggen, Heinrich J. B., to Pettibone Mulliken Corp. Automatic stack molding apparatus and system. 2,937,420, 5-24-60, Cl. 22-10.
- Herbst, Clarence A., to Blwax Corp. Method of potting electrical equipment. 2,948,930, 8-16-60, Cl. 18-59.
- Herbst, Clarence A., to Resinoid Engineering Corp. Method of molding a plastic. 2,956,309, 10-18-60, Cl. 18-55.
- Herbst, Edward J., and P. W. Dulk, to The Singer Mfg. Co. Thread tension device for sewing machines. 2,965,058, 12-20-60, Cl. 112-254.
- Herbst, Irene A., to L. O. Smith Corp. Composition for patching defects in glass or enamel coatings and method of applying the same. 2,955,952, 10-11-60, Cl. 117-2.
- Herbst, John A., to Bogue Electric Mfg. Co. Diode. 2,956,214, 10-11-60, Cl. 317-234.
- Herbst, Ralph, Jr.: *See*—  
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- Herbst, Ralph L., Jr.: *See*—  
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- Herbst, Karl, to Rolls-Royce Ltd. Prime mover with means to control injection of cooling fluid into working medium thereof. 2,919,548, 1-5-60, Cl. 60-39.26.
- Hercer, Clem J., 50% to J. H. Clark. Spatula cleaner. 2,941,224, 6-21-60, Cl. 15-118.
- Herck, Lad L. Forging machine. 2,919,610, 1-5-60, Cl. 78-17.
- Herckmans, Alfred: *See*—  
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- Hercules, Christopher D. Vehicle headlights. 2,937,267, 5-17-60, Cl. 240-46.53.
- Hercules, Christopher De J. Cigarette snuffer ash tray. 2,963,027, 12-6-60, Cl. 131-235.
- Hercules Gallon Products, Inc.: *See*—  
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- Hercules Powder Co.: *See*—  
Baldwin, Warren R., and Bohn. 2,923,033.
- Ball, Alpheus M. 2,965,466.
- Bankert, Ralph A. 2,957,030.
- Boardman, Harold. 2,947,722.
- Bohlman, Walter S. 2,957,382.
- Breslow, David S. 2,924,593.
- Breslow, David S. 2,924,594.
- Breslow, David S., and Matlack. 2,961,435.
- Chase, Henry V., Jr., Foster, and Jorlin. 2,953,093.
- Class, Jay B. 2,944,082.
- Cooke, Maurice D. 2,951,870.
- Diveley, William R. 2,954,116.
- Donahue, Edwin G. 2,937,199.
- Ely, Albert R., Hayes, and Lawrence. 2,944,485.
- Feld, George B. 2,962,464.
- Filar, Leo J. 2,938,012.
- Filar, Leo J. 2,948,758.
- Floyd, John D. 2,961,347.
- Grassie, Vernon R. 2,946,673.
- Grassie, Vernon R. 2,948,601.
- Haubein, Albert H. 2,932,669.
- Horne, Charles F. 2,963,971.
- Horne, Charles F., Lefren, Ramer, and Roth. 2,965,033.
- Kelm, Gerald I. 2,926,116.
- Kelm, Gerald I. 2,926,154.
- Kouba, Delore L., Paul, and Stow. 2,951,746.
- Kouba, Delore L., Paul, and Stow. 2,951,877.
- Kutner, Abraham. 2,961,431.
- Levering, Dewey R., and Maury. 2,935,480.
- Lewis, John R. 2,960,494.
- Matlack, Albert S. 2,938,020.
- Maury, Lucien G., and Shyluk. 2,939,887.
- McKinney, Charles D., Jr. 2,951,866.
- McNeil, Harry D., Jr. 2,961,406.
- Naudain, Edward A., and Rummelsburg. 2,927,092.
- Pieper, Josef H. F., and Stauch. 2,949,490.
- Plunkett, Warren L. 2,927,845.
- Plunkett, Warren L. 2,950,278.
- Prosser, Thomas J. 2,962,508.
- Ramer, Edward L. 2,939,391.
- Roberson, William H. 2,959,512.
- Rummelsburg, Alfred L. 2,932,631.
- Scherrer, George H. 2,960,932.
- Scherrer, George H. 2,960,933.
- Shapleigh, James H. 2,937,923.
- Shapleigh, James H. 2,940,840.
- Tinsley, John S. 2,926,159.
- Tinsley, John S. 2,928,795.
- Vandenberg, Edwin J. 2,950,320.
- Vandenberg, Edwin J. 2,954,367.
- Wagner, Romeo B. 2,932,665.
- Watkins, Spencer H. 2,941,919.
- Weisgerber, Cyrus A. 2,961,366.
- Weisgerber, Cyrus A. 2,961,367.
- Herculox Loose Leaf Corp.: *See*—  
Upton, Thomas F. 2,937,470.
- Upton, Thomas F. 2,959,885.
- Herczog, Andrew, H. Packer, and A. E. Middleton, to P. R. Mallory & Co. Inc. Art of producing electroconductive films on a refractory ceramic base. 2,959,499, 11-8-60, Cl. 117-229.
- Herdina, Fred E.: *See*—  
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- Herdman, Donald F., to United States of America, Navy. Instantaneously variable electro-mechanical time fuze. 2,934,015, 4-26-60, Cl. 102-70.2.
- Hereth, Ralph F., R. S. Chamberlin, and J. F. Sample, to United States of America, Navy. Launcher. 2,960,009, 11-15-60, Cl. 89-1.7.
- Herfurth, Donald E., to Magnetic Tool Corp. Support arrangement for electric drills, or the like. 2,938,411, 5-31-60, Cl. 77-59.
- Hergenrother, Rudolf C., to Raytheon Co. Electronic storage devices. Re. 24,776, 2-9-60, Cl. 313-68.
- Hergenrother, Rudolf C., to Raytheon Co. Direct-viewing storage tubes. 2,922,071, 1-19-60, Cl. 315-12.
- Hergenrother, Rudolf C., to Raytheon Co. Stored X-ray presentation systems. 2,922,842, 1-26-60, Cl. 178-6.8.
- Hergenrother, Rudolf C., to Raytheon Co. Traveling wave structures. 2,926,280, 2-23-60, Cl. 315-3.6.
- Hergenrother, Rudolf C., to Raytheon Co. Traveling wave tubes. 2,930,926, 3-29-60, Cl. 315-3.5.
- Hergeth, Adolf and H., to Hergeth K.-G. Maschinenfabrik und apparatebau. Cotton cleaner. 2,943,360, 7-5-60, Cl. 19-93.



- Hergeth, Herbert: *See*—  
 Hergeth, Adolf and H. 2,943,360.  
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 Soyck, Werner, and Herglotz. 2,955,946.  
 Herider, Elmer A.: *See*—  
 Pitts, Kennard, and Herider. 2,958,369.  
 Herider, Elmer A., and H. A. Friesen, to Rockwell-Standard Corp. Adjustable actuator. 2,951,383, 9-6-60, Cl. 74—169.  
 Hering, Karl W., to United States of America, Air Force. Automatic focus mechanism. 2,922,351, 1-26-60, Cl. 95—45.  
 Herion, Henry. Electrical warning device. 2,923,927, 2-2-60, Cl. 340—251.  
 Heritage, Clark C.,  $\frac{1}{2}$  to Weyerhaeuser Co., and  $\frac{1}{2}$  to Wood Conversion Co. Continuous deposition of dry felted structures. 2,940,133, 6-14-60, Cl. 19—156.  
 Heritage, Clark C.,  $\frac{1}{2}$  to Weyerhaeuser Co., and  $\frac{1}{2}$  to Wood Conversion Co. Dry felting apparatus and process. 2,940,134, 6-14-60, Cl. 19—156.  
 Heritage, Clark C.,  $\frac{1}{2}$  to Weyerhaeuser Co., and  $\frac{1}{2}$  to Wood Conversion Co. Suction filter apparatus and method. 2,940,135, 6-14-60, Cl. 19—156.  
 Herlet, Adolf: *See*—  
 Emels, Reimer, and Herlet. 2,936,410.  
 Schink, Norbert, and Herlet. 2,959,501.  
 Herlet, Adolf, to Siemens-Schuckertwerke Aktiengesellschaft. Power transistors. 2,924,760, 2-9-60, Cl. 317—235.  
 Herlet, Adolf, to Siemens-Schuckertwerke Aktiengesellschaft. Junction transistor. 2,929,006, 3-15-60, Cl. 317—235.  
 Herlet, Adolf, to Siemens-Schuckertwerke Aktiengesellschaft. Power transistor with monocrySTALLINE semiconductor body. 2,946,709, 7-26-60, Cl. 148—33.  
 Herlet, Adolf, and A. Hoffmann, to Siemens-Schuckertwerke Aktiengesellschaft. Electric semiconductor p-n junction devices and method of producing them. 2,931,960, 4-5-60, Cl. 317—240.  
 Herlet, Adolf, H. Patalong, and N. Schink, to Siemens-Schuckertwerke Aktiengesellschaft. Method of producing an electrode-carrying silicon semiconductor device. 2,937,113, 5-17-60, Cl. 148—15.  
 Herlihy, Michael J. Self locking containers. 2,954,914, 10-4-60, Cl. 229—34.  
 Herlihy, William F., to Lowell Counter Co. Flexible molded flanged counter stiffener having a ventilating opening. 2,946,141, 7-26-60, Cl. 36—68.  
 Herlihy, William F., to Lowell Counter Co. Shoe wherein the lasting margin of the upper is lasted in rearwardly of the heel breast line, and turned outwardly forwardly of said line and which has an insole which is connected to other parts of the shoe only by the upper lining. 2,950,545, 8-30-60, Cl. 36—16.  
 Hermach, Carl J.: *See*—  
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 Her Majesty Underwear Co.: *See*—  
 Peachey, Chester J. 2,922,166.  
 Herman, Albert D., to Aeroquip Corp. Pressure fill limiter, thermo relief and dump valve for pressurized vessels. 2,930,397, 3-29-60, Cl. 137—382.  
 Herman, Albert R. Instrument for precise and rapid determination of triangular measurements. 2,939,218, 6-7-60, Cl. 33—98.  
 Herman, Charles B.: *See*—  
 Rees, Kenneth A., Pastorek, Williams, and Herman. 2,945,799.  
 Herman, Daniel F., to National Lead Co. Polymeric metal-organic compositions. 2,940,957, 6-14-60, Cl. 260—78.5.  
 Herman, Daniel F., to National Lead Co. Styrene polymerization with aryltitanium trialkylate catalysts. 2,963,471, 12-6-60, Cl. 260—93.5.  
 Herman, Elvin E.: *See*—  
 Russell, James L., and Herman. 2,948,779.  
 Herman, Emil A., and C. L. Johnston. Automatic feed for feeding plywood into sanding machines. 2,960,805, 11-22-60, Cl. 51—215.  
 Herman, Eugene T., to The Goodyear Tire & Rubber Co. Refrigerator door seal. 2,963,754, 12-13-60, Cl. 20—69.  
 Herman, Harold C.: *See*—  
 Smith, Todd A. 2,927,504.  
 Herman, Harry H., Jr. Breathing attachment for swimmers. 2,945,493, 7-19-60, Cl. 128—148.  
 Herman, Hartley R., and B. R. Alsbrook, to Rohr Aircraft Corp. Fixture for making honeycomb panel. 2,944,504, 7-12-60, Cl. 113—99.  
 Herman, Howard. Apparatus for co-ordinating phonic and visual perceptions. 2,935,793, 5-10-60, Cl. 35—8.  
 Herman, John. Ventilator for non-porous structures. 2,939,375, 6-7-60, Cl. 98—37.  
 Herman, Joseph. Safety matches. 2,964,168, 12-13-60, Cl. 206—34.  
 Herman & Leal Ltd.: *See*—  
 Herman, Philip. 2,947,127.  
 Herman, Lester F. Continuous form. 2,920,811, 1-12-60, Cl. 229—69.  
 Herman, Lloyd G., to Wilson & Co., Inc. Preservation of microbial cells. 2,938,794, 5-31-60, Cl. 99—2.  
 Herman, Martin A. Universal style gage. 2,964,850, 12-20-60, Cl. 33—174.  
 Herman, Moe: *See*—  
 Herman, Sam and M. 2,939,613.  
 Herman, Otakar: *See*—  
 Cihelka, Bohuslav, and Herman. 2,955,459.  
 Herman, Philip, to Herman & Leal Ltd. Package wrapping machine. 2,947,127, 8-2-60, Cl. 53—182.  
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 Frankenstein, Edgar L. 2,959,828.  
 Johnston, Loyal L. 2,950,511.  
 Plassmeyer, Louis D. 2,937,423.  
 Herman, Ralph B.: *See*—  
 Cattermole, Kenneth W., and Herman. 2,956,176.  
 Herman, Sam and M. Disenser for liquid and powdered soap. 2,939,613, 6-7-60, Cl. 222—181.  
 Hermanie, Pieter H. J.: *See*—  
 Jense, Willem F., van der Minne, and Hermanie. 2,927,079.  
 Hermann, Benjamin R., to General Electric Co. Circuit interrupter. 2,961,518, 11-22-60, Cl. 200—166.  
 Hermann, Friedrich: *See*—  
 Scheichl, Ludwig. 2,920,128.  
 Hermann, Helmut, to Gewerkschaft Eisenhütte Westfalia. Pneumatic engine. 2,937,621, 5-24-60, Cl. 121—16.  
 Hermann, Julius, to Gewerkschaft Eisenhütte Westfalia. Mining planers having an impact action. 2,955,809, 10-11-60, Cl. 262—8.  
 Hermanns, Wilhelm. Container having a built-in emptying device for pulverulent material or the like. 2,956,839, 10-18-60, Cl. 302—53.  
 Hermes Electronics Co.: *See*—  
 Kosowsky, David I. 2,929,031.  
 Hermes, Julius, to Martin Processing Co., Inc. Method of conditioning polyester textile material and the resulting products. 2,938,811, 5-31-60, Cl. 117—102.  
 Hermes, Willem, and J. Ensink, to North American Philips Co., Inc. Synchronized crystal oscillator. 2,951,993, 9-6-60, Cl. 331—26.  
 Hermitte, René. Starter device for storage batteries. 2,923,756, 2-2-60, Cl. 136—6.  
 Hern, Howard D.: *See*—  
 Ulstad, Meredith S., and Hern. 2,947,861.  
 Hern, Howard D., to Collins Radio Co. Stabilized frequency modulator. 2,947,951, 8-2-60, Cl. 332—19.  
 Hernandez, Manuel E., to Colgate-Palmolive Co. Liquid dispensing apparatus and valve. 2,947,449, 8-2-60, Cl. 222—94.  
 Herndon, Luther J., Jr.: *See*—  
 Groner, Edward L., and Herndon. 2,946,130.  
 Herndon, Richard A.: *See*—  
 Croly, J. Wilford, and Herndon. 2,935,688.  
 Herndon, Walter B., to General Motors Corp. Automatic plural step ratio transmissions. 2,934,976, 5-3-60, Cl. 74—754.  
 Herndon, Walter B., to General Motors Corp. Transmission. 2,943,516, 7-5-60, Cl. 74—732.  
 Herndon, Walter B., and V. C. Moore, to General Motors Corp. Dual coupling shift transmission. 2,957,373, 10-25-60, Cl. 74—732.  
 Herndon, William B., Jr.: *See*—  
 Carl, Louis H., Herndon, and McConnell. 2,930,207.  
 Herndon, William H., Jr. Aircraft carpet cutter. 2,920,388, 1-12-60, Cl. 30—293.  
 Herold, Karl G., to Radio Corp. of America. High density electron source. 2,937,300, 5-17-60, Cl. 313—189.  
 Herold, Edward W., to Radio Corp. of America. Transistor frequency converter circuits. 2,932,735, 4-12-60, Cl. 250—20.  
 Herold, Richard C., to Aeroprojects Inc. Photographic emulsion. 2,956,882, 10-18-60, Cl. 96—108.  
 Herold, Robert, F. Petschel, J. Wöll, and K. Haas; said Herold, Petschel, and Wöll, assors, to Siemens Schuckertwerke Aktiengesellschaft. Alternating-current drive for ship winches and the like. 2,935,673, 5-3-60, Cl. 318—224.  
 Herold, Rodolphe A., to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Storage batteries intended to be used in inflammable atmospheres. 2,930,828, 3-29-60, Cl. 136—6.  
 Herold, Rodolphe A., to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Storage battery. 2,942,058, 6-21-60, Cl. 136—166.  
 Heron, Robert S., to L. W. Menzimer. Door check. 2,921,332, 1-19-60, Cl. 16—82.  
 Heroy, James H., Jr., G. E. Hartwell, and H. L. Sanders, to Pittsburgh Plate Glass Co. Paint applicator. 2,962,746, 12-6-60, Cl. 15—244.  
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 Dempster, George R., and Herpich. 2,934,226.  
 Dempster, George R., and Herpich. 2,934,227.  
 Dempster, George R., and Herpich. 2,936,916.  
 Dempster, George R., and Herpich. 2,938,641.  
 Dempster, George R., and Herpich. 2,942,582.  
 Dempster, George R., and Herpich. 2,951,600.  
 Herpich, William A., and N. Wender, to Dempster Brothers, Inc. Automatic safety latches. 2,923,424, 2-2-60, Cl. 214—317.  
 Herr, Benjamin F., to Armstrong Cork Co. Web tensioning device. 2,961,183, 11-22-60, Cl. 242—75.2.  
 Herr, Benjamin F., and C. W. Bemmels, to Johnson & Johnson. Pressure-sensitive adhesive tape and method of manufacture. 2,963,387, 12-6-60, Cl. 117—122.  
 Herr, Charles H., Jr., to Allis-Chalmers Mfg. Co. Gear shift interlock and detent mechanism. 2,932,212, 4-12-60, Cl. 74—477.  
 Herr, Charles H., Jr., to Allis-Chalmers Mfg. Co. Shaft mounting. 2,952,495, 9-13-60, Cl. 308—15.



- Herr, Charles H., Jr., to Allis-Chalmers Mfg. Co. Gear shift interlock and detent mechanism. 2,953,035, 9-20-60, Cl. 74-477.
- Herr Equipment Corp., The: *See*—  
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Herr, Richard F. 2,928,622.  
Herr, Richard W., and Jaeger. 2,960,242.
- Herr, Frederick W.: *See*—  
Schoeppel, John F., Varner, and Herr. 2,932,809.
- Herr, George L.: *See*—  
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- Herr, John A., to The Singer Mfg. Co. Operation control means for mechanism actuating levers of sewing machines. 2,934,030, 4-26-60, Cl. 112-220.
- Herr, John D., and D. W. Mount. Dust guard for journal boxes. 2,926,031, 2-23-60, Cl. 286-6.
- Herr Mfg. Co., Inc.: *See*—  
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- Herr, Richard F., to The Herr Equipment Corp. Mechanical movement particularly for feed apparatus. Re. 24,883, 10-11-60, Cl. 271-24.
- Herr, Richard F., to The Herr Equipment Corp. Scrap coiling. 2,928,622, 3-15-60, Cl. 242-75.5.
- Herr, Richard W., and E. W. Jaeger, to The Herr Equipment Corp. Material handling. 2,960,242, 11-15-60, Cl. 214-6.
- Herrala, Carlo O., to The Regents of The University of California. Microscope mechanical stage for rotating objects such as film plates and the like about the optical axis of a microscope. 2,960,913, 11-22-60, Cl. 88-40.
- Herrick, Clifford E., Jr., to General Aniline & Film Corp. Method of producing diazotype prints. 2,923,625, 2-2-60, Cl. 96-49.
- Herrick, Clifford E., Jr., to General Aniline & Film Corp. Apparatus for developing diazotype material particularly foils. 2,948,208, 8-9-60, Cl. 95-89.
- Herrick, Clifford E., Jr., and C. E. Slimowicz, to General Aniline & Film Corp. m,m'-dioxydiphenols as coupling components in diazotype intermediates of high opacity. 2,940,852, 6-14-60, Cl. 96-91.
- Herrick, Elbert C., to Houdry Process Corp. Preparation of diacyclic-octane. 2,937,176, 5-17-60, Cl. 260-268.
- Herrick, Elbert C., to Houdry Process Corp. Halogen derivatives of 1,4-diazybcyclo - (2.2.2) - octane. 2,964,526, 12-13-60, Cl. 260-268.
- Herrick, George H., R. H. Prescott, and J. C. Moerk, to Fairbanks, Morse & Co. Submersible dynamoelectric machine. 2,964,660, 12-13-60, Cl. 310-87.
- Herrick, Wallace D., to The Coleman Co., Inc. Apparatus for the drawing of plastics. 2,952,875, 9-20-60, Cl. 18-19.
- Herrick, Wallace D., to The Coleman Co., Inc. Utensil. 2,965,405, 12-20-60, Cl. 294-31.
- Herrick, William W., and E. W. Tangard, to Pitney-Bowes, Inc. Document feeding and timing device. 2,936,170, 5-10-60, Cl. 271-12.
- Herring-Hall-Marvin Safe Co.: *See*—  
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- Herring, Lee R.: *See*—  
Riley, William A., and Herring. 2,938,485.
- Herring, William M.: *See*—  
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- Herrington, James A.: *See*—  
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- Herrriott, Donald R., to Bell Telephone Laboratories, Inc. Reflection sensing systems. 2,938,424, 5-31-60, Cl. 88-14.
- Herrriott, Donald R., to Bell Telephone Laboratories, Inc. Cathode ray tube construction. 2,958,801, 11-1-60, Cl. 313-92.
- Herrle, Karl: *See*—  
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- Herrman, Harry W. Removable foot ring for container. 2,925,192, 2-16-60, Cl. 220-69.
- Herrmann, Adolf L.: *See*—  
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- Herrmann, Adolf L., to United States of America, Army. Crank accelerator. 2,930,230, 3-29-60, Cl. 73-167.
- Herrmann, Adolf L., to United States of America, Army. Control of tension on tape in tape recorders. 2,954,939, 10-4-60, Cl. 242-55.12.
- Herrmann, Adolf L., to United States of America, Army. Limit switch for tape recorders. 2,954,940, 10-4-60, Cl. 242-55.12.
- Herrmann, Adolf L., and J. Boehm, to United States of America, Army. Friction drive. 2,941,408, 6-21-60, Cl. 74-202.
- Herrmann, Edmund P. Holders for containers. 2,965,281, 12-20-60, Cl. 229-52.
- Herrmann, Erich: *See*—  
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- Herrmann, Ernest. Supporting leg attaching member. 2,942,823, 6-28-60, Cl. 311-110.
- Herrmann, Frank, to Kunststoffwerk Lahr G.m.b.H. Packaging container and process of packaging materials. 2,964,176, 12-13-60, Cl. 206-84.
- Herrmann, Frank A., to Sonotone Corp. Hearing aid transistor amplifier. 2,927,276, 3-1-60, Cl. 330-22.
- Herrmann, Frank A., to Sonotone Corp. Transistor amplifier hearing aid unit with receiver vibration feedback suppression. 2,938,083, 5-24-60, Cl. 179-107.
- Herrmann, Frank A., and D. Chaudhuri, to Sonotone Corp. Hearing aid transistor amplifiers. 2,927,275, 3-1-60, Cl. 330-17.
- Herrmann, Günter, to Protona Produktionsgesellschaft für Elektroakustische Geräte G.m.b.H. Speed regulation of electric motors. 2,943,252, 6-28-60, Cl. 318-325.
- Herrmann, Helmut, to Gewerkschaft Eisenhütte Westfalen. Piston engine provided with control valve. 2,921,559, 1-19-60, Cl. 121-16.
- Herrmann, Helmut, to Gewerkschaft Eisenhütte Westfalen. Drive for vibrator device. 2,928,375, 3-15-60, Cl. 121-1.
- Herrmann, Helmut, to Gewerkschaft Eisenhütte Westfalen. Pneumatic piston engines. 2,963,005, 12-6-60, Cl. 121-29.
- Herrmann, John A.: *See*—  
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- Herrmann, John A., to I-T-E Circuit Breaker Co. Clamping means for joining bus duct units. 2,932,686, 4-12-60, Cl. 174-88.
- Herrmann, John A., R. S. Davis, and G. H. Farnsworth, to Bulldog Electric Products Co. Universal trolley duct connecting means. 2,929,044, 3-15-60, Cl. 339-205.
- Herrmann, John A., E. T. Platz, and D. B. Robinson, to I-T-E Circuit Breaker Co. Electric receptacle. 2,943,292, 6-28-60, Cl. 339-79.
- Herrmann, John W., and F. T. Barr, to Esso Research and Engineering Co. Hydrogenation of oils. 2,924,570, 2-9-60, 208-143.
- Herrmann, John W., and D. D. MacLaren, to Esso Research and Engineering Co. Balanced gasoline from wide boiling naphtha. 2,937,133, 5-17-60, Cl. 208-80.
- Herrmann, Melvin. Auto play pen or auto bed. 2,963,711, 12-13-60, Cl. 5-94.
- Herrmann, Paul F. Hand tool with adjustable torque release. 2,948,173, 8-9-60, Cl. 81-52.4.
- Herrmann, Rodolphe, to Societe d'Exploitation des Matériels Hispano-Suiza. Diesel engine with a pre-combustion chamber. 2,925,807, 2-23-60, Cl. 123-32.
- Herrmann, Werner: *See*—  
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- Herrmann, Willy. Speed control arrangement for motor vehicles. 2,927,667, 3-8-60, Cl. 192-090.
- Herrnstadt, Gerald E., to The Firth Carpet Co., Inc. Knitted pile fabrics. 2,934,924, 5-3-60, Cl. 66-191.
- Herrnstadt, Gerald E., and R. R. Matthews, to The Firth Carpet Co., Inc. Knitted pile fabric. 2,955,446, 10-11-60, Cl. 66-191.
- Herron, Harrison H. Limbing attachment for power saws. 2,948,310, 8-9-60, Cl. 143-32.
- Herron, O. D.: *See*—  
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Williamson, Robert W. 2,965,074.
- Herron, Robert H.: *See*—  
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- Herrstrum, Rudolph E., to Greenlee Bros. & Co. Portable hydraulic press. 2,940,497, 6-14-60, Cl. 153-1.
- Herschede Hall Clock Co., The: *See*—  
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- Herschede, Walter J., to The Herschede Hall Clock Co. Parking meters. 2,931,479, 4-5-60, Cl. 194-54.
- Herschel, Carl E.: *See*—  
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- Herschler, Robert J., to United States of America, Army. Plural-ply paper bag for arctic and tropical climates. 2,929,544, 3-22-60, Cl. 229-55.
- Hersey, Arthur J.: *See*—  
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- Hersey, Carl D.: *See*—  
Way, Robert B., and Hersey. 2,928,369.  
Way, Robert B., and Hersey. 2,955,567.  
Way, Robert B., and Hersey. 2,960,065.
- Hersey, Kenneth J. and A. J. Lever spring wheel suspension. 2,957,708, 10-25-60, Cl. 280-124.
- Hersh, Phyllis: *See*—  
Berezin, Evelyn, and Hersh. 2,943,790.
- Hersh, Sidney: *See*—  
Malloy, Justin W., and Hersh. 2,925,012.
- Hersh, Sidney H. Photodetector system. 2,952,781, 9-13-60, Cl. 250-216.
- Hershberg, Emanuel B.: *See*—  
Gould, David H., and Hershberg. 2,932,638.  
Oliveto, Eugene P., and Hershberg. 2,927,921.  
Oliveto, Eugene P., and Hershberg. 2,938,043.  
Oliveto, Eugene P., and Hershberg. 2,946,810.
- Hershberg, Emanuel B., and D. H. Gould, to Schering Corp. 16-N-substituted steroids and process for manufacturing same. 2,965,640, 12-20-60, Cl. 260-239.5.
- Hershberger, Gerald R. Driving light control. 2,920,233, 1-5-60, Cl. 315-83.
- Hershey, Gordon F., and N. R. Colbry, to The Dow Chemical Co. Method of forming non-spherical atomized particles of magnesium and its alloys. 2,934,787, 5-3-60, Cl. 18-47.3.
- Hershey, Harold J.: *See*—  
Ham, James H., Jr., Hershey, Hohmann, and Kinsman. 2,941,043.
- Hershey, Harold J., to Bell Telephone Laboratories, Inc. Call transmitter. 2,963,554, 12-6-60, Cl. 179-90.



- Hershey Mfg. Co.: *See*—  
 Mihalek, Emery. 2,925,194.  
 Mihalek, Emery. 2,946,148.  
 Mihalek, Emery, and Szyper. 2,932,976.
- Hershey, Melvin P., to The Firestone Tire & Rubber Co. Tubeless tire. 2,947,341, 8-2-60, Cl. 152-362.
- Hershinger, Lincoln W., to Philco Corp. Method of the application of liquids to solids. 2,958,636, 11-1-60, Cl. 204-143.
- Hershman, Gordon L., to International Harvester Co. Adjustable depth control hydraulic cylinder stop mechanism. 2,960,969, 11-22-60, Cl. 121-38.
- Herte, Lawrence F., to International Business Machines Corp. Record device. 2,951,304, 9-6-60, Cl. 40-158.
- Hertel, Heinrich. Missile carrying aircrafts. 2,961,197, 11-22-60, Cl. 244-58.
- Hertel, Kenneth L., to University of Tennessee Research Corp. Instrument damping devices. 2,950,784, 8-30-60, Cl. 188-85.
- Herter, George L. Fish calling device. 2,927,391, 3-8-60, Cl. 43-171.
- Herter, Thomas J.: *See*—  
 Cameron, Frank L., and Herter. 2,922,005.
- Herterich, Walter. Exposure metering device. 2,930,282, 3-29-60, Cl. 88-23.
- Herterich, Walter. Devices for temporarily holding the pointer of an instrument in an indication position. 2,940,046, 6-7-60, Cl. 324-155.
- Herterich, Walter, to O. Vierling. Devices for the transmission of series of electrical pulses. 2,957,951, 10-25-60, Cl. 179-90.
- Herterich, Vincent R.: *See*—  
 Fraser, Robert W., and Herterich. 2,936,437.  
 Fraser, Robert W., and Herterich. 2,941,181.
- Hertl, Robert, to Westinghouse Electric Corp. Turbine apparatus. 2,925,995, 2-23-60, Cl. 253-39.
- Hertrich, Elise: *See*—  
 Hertrich, Joseph. 2,926,886.  
 Hertrich, Joseph. 2,936,894.
- Hertrich, Joseph, deceased, by E. Hertrich, executrix, to The Western States Machine Co. Water turbine bucket construction. 2,926,886, 3-1-60, Cl. 253-26.
- Hertrich, Joseph, deceased, by E. Hertrich, executrix, to The Western States Machine Co. Centrifugal driving and suspension means. 2,936,894, 5-17-60, Cl. 210-366.
- Hertwig, Waldemar R., A. B. Groh, W. M. Herring, and W. F. Pansing, to Standard Oil Co. Regenerative platinum catalyst conversion process. 2,938,859, 5-31-60, Cl. 208-140.
- Hertz, David B., and H. Chow, to Celanese Corp. of America. Distributor ring. 2,926,384, 3-1-60, Cl. 18-14.
- Hertzberg, Abraham, and J. G. Logan, Jr., to Cornell Aeronautical Laboratory, Inc. Valved intermittent combustion reaction engine. 2,930,196, 3-29-60, Cl. 60-39.76.
- Hervé, Marcel. Pick-up devices. 2,966,360, 12-27-60, Cl. 274-23.
- Hervert, George L., and C. B. Linn, to Universal Oil Products Co. Alkylation of aromatic hydrocarbons. 2,939,890, 6-7-60, Cl. 260-671.
- Hervert, George L., and H. S. Bloch, to Universal Oil Products Co. Production of alumina. 2,958,581, 11-1-60, Cl. 23-143.
- Hervert, George L., and H. S. Bloch, to Universal Oil Products Co. Production of alumina. 2,958,582, 11-1-60, Cl. 23-143.
- Hervert, George L., and H. S. Bloch, to Universal Oil Products Co. Production of alumina. 2,958,583, 11-1-60, Cl. 23-143.
- Hervey, Laurence R. B., to John A. Manning Paper Co., Inc. Anti-oxidant and compositions containing the same. 2,950,975, 8-30-60, Cl. 99-163.
- Hervey, Laurence R. B., to American Viscose Corp. Method of forming a stretchable fabric. 2,951,005, 8-30-60, Cl. 154-123.
- Herwig, Walter: *See*—  
 Zeiss, Harold H., and Herwig. 2,953,610.
- Herz, Josef E.: *See*—  
 Fried, Josef, and Herz. 2,920,084.  
 Fried, Josef, and Herz. 2,963,492.  
 Fried, Josef, and Herz. 2,963,495.
- Herz, Rudolf, to Siemens & Halske Aktiengesellschaft Berlin and Munich. Directional helical antenna. 2,952,850, 9-13-60, Cl. 343-834.
- Herzberg, Rune S. Towel hook device. 2,929,513, 3-22-60, Cl. 211-89.
- Herzfeld, Robert C., to General Telephone Laboratories, Inc. Automatic telegraph switching system. 2,934,597, 4-26-60, Cl. 178-2.
- Herzmark, Nicolas, and A. Leschot; said Leschot assor. to said Herzmark. Casting mold and method of preparation. 2,945,273, 7-19-60, Cl. 22-193.
- Herzog, August G., H.-F. Kaltheuner, and C.-H. Reussner, ½ to said Herzog, and ½ to Farbenfabriken Bayer Aktiengesellschaft. Fishing net or the like made of braided plastic filaments. 2,949,807, 8-23-60, Cl. 87-8.
- Herzog, Erston H., to Lever Brothers Co. Conveyor device. 2,960,364, 11-15-60, Cl. 294-65.
- Herzog, Gerald B., to Radio Corp. of America. Phase comparison circuits. 2,928,955, 3-15-60, Cl. 307-88.5.
- Herzog, Gerald B., to Radio Corp. of America. Semiconductor devices. 2,951,191, 8-30-60, Cl. 317-235.
- Herzog, Gerald B., and L. L. Burns, Jr., to Radio Corp. of America. Color image reproduction apparatus. 2,943,143, 6-28-60, Cl. 178-54.
- Herzog, Gerhard: *See*—  
 Egan, Edmond F., Herzog, and Allen. 2,961,539.  
 Egan, Edmond F., Herzog, and McKay. 2,947,869.
- Herzog, Gerhard, to Texaco Inc. Radioactivity earth exploration. 2,944,149, 7-5-60, Cl. 250-71.
- Herzog, Hershel L.: *See*—  
 Charney, William, Herzog, and Sutter. 2,958,631.  
 Oliveto, Eugene P., and Herzog. 2,932,639.
- Herzog, Hershel L., and A. Noble, to Schering Corp. 19-nor-pregnatriene compounds and processes for their manufacture. 2,928,850, 3-15-60, Cl. 260-397.45.
- Herzog, Hershel L., and D. H. Gould, to Schering Corp.  $\Delta^{4,6}$  pregnatrienes. 2,957,893, 10-25-60, Cl. 260-397.45.
- Herzog, Ralph. Three wire reversible field shunt motor. 2,923,872, 2-2-60, Cl. 318-297.
- Herzog, Ralph. Drill rack for drill press. 2,940,809, 6-14-60, Cl. 312-254.
- Herzog, Richard F. K., to Geophysics Corp. of America. Mass spectrometer. 2,947,868, 8-2-60, Cl. 250-41.9.
- Herzog, William E.: *See*—  
 Bettin, Roger R., and Herzog. 2,963,857.
- Heseltine, Donald W., and L. G. S. Brooker, to Eastman Kodak Co. Merocyanines and planar undissociated cyanines. 2,927,026, 3-1-60, Cl. 96-105.
- Heseltwood, James C., to Radio Condenser Co. Electric motor. 2,926,535, 3-1-60, Cl. 74-169.
- Heslop, Robert N., N. Legg, J. F. Mawson, J. E. Stephen, and J. Wardleworth, to Imperial Chemical Industries Ltd. New dyestuffs and process for dyeing therewith. 2,935,506, 5-3-60, Cl. 260-154.
- Hesner, Charles J.: *See*—  
 White, Henry J., and Hesner. 2,959,768.
- Hess and Barker: *See*—  
 Harless, Charles A. 2,941,798.
- Hess, Charles W., to Speco, Inc. Automatic drilling machine. 2,955,489, 10-11-60, Cl. 77-32.2.
- Hess, Charles W., to Speco, Inc. Template construction for automatic drilling machine. 2,955,490, 10-11-60, Cl. 77-32.2.
- Hess, Christian H., to Deere & Co. Adjustable link. 2,920,912, 1-12-60, Cl. 287-60.
- Hess, Ernst: *See*—  
 Guyer, August, Hess, Marti, Peterhans, and Zollinger. 2,955,916.
- Hess, Frederic O., to Selas Corp. of America. Strip heating. 2,933,425, 4-19-60, Cl. 148-13.
- Hess, Goldsmith & Co.: *See*—  
 Roth, Alan. 2,955,053.
- Hess, Hans, to Olympia Werke AG. Control device for line spacing in office machines. 2,958,407, 11-1-60, Cl. 197-66.
- Hess, Heinrich O., to Joh. Jacob Rieter & Co. Ltd. Stripping apparatus for card flats. 2,929,113, 3-22-60, Cl. 19-111.
- Hess, Howard V.: *See*—  
 Ryer, Jack, Fontaine, and Hess. 2,943,120.
- Hess, Howard V., and E. R. Christensen, to Texaco Inc. Hydrocarbon conversion process. 2,935,459, 5-3-60, Cl. 208-65.
- Hess, Howard V., E. R. Christensen, and H. E. Vermillion, to Texaco Inc. Conducting chemical reactions in an underground storage cavern. 2,939,895, 6-7-60, Cl. 260-683.66.
- Hess, John J., Jr., to Sperry Rand Corp. Magneto-resistive bridge modulator. 2,941,163, 6-14-60, Cl. 332-51.
- Hess, Joseph C., to The B. F. Goodrich Co. Inflatable ice-removal apparatus for aircraft. 2,957,662, 10-25-60, Cl. 244-134.
- Hess, Paul S., to General Dispersions, Inc. Method of making aqueous dispersions of nylon. 2,951,054, 8-30-60, Cl. 260-29.2.
- Hess, Richard E., 50% to D. P. Rumell. Blower for motor-driven vehicles having windshields. 2,926,396, 3-1-60, Cl. 20-40.5.
- Hess, Robert L.: *See*—  
 Booth, Alfred E., and Hess. 2,956,891.
- Hessburg, Lawrence J., and G. L. Rengel, to Minnesota Mining & Mfg. Co. Paper sized with fluorocarbon agents on one side and coated on the opposite side with thermoplastic materials. 2,920,979, 1-12-60, Cl. 117-36.
- Hesse, Gerhard: *See*—  
 Liecke, Hans, and Hesse. 2,953,346.
- Hesse, Holger: *See*—  
 Ruben, Henning M., and Hesse. 2,947,470.
- Hesse, Kenneth R., to Hughes Aircraft Co. Electron display device and improvement therefor. 2,928,970, 3-15-60, Cl. 313-68.
- Hesse, Myron C. Cattle oiler. 2,961,998, 11-29-60, Cl. 119-157.
- Hesse, Victor L., to Litton Industries of California. Synchronous frequency-to-difunction conversion. 2,923,929, 2-2-60, Cl. 340-347.
- Hesse, Victor L., and W. O. Felsman, to Litton Industries, Inc. Digital-to-analogue converter. 2,922,095, 1-19-60, Cl. 318-138.
- Hesse, Wilhelm, and A. Dzielas, to Elektro-Thermit, G.m.b.H. Method of producing small molds for the aluminum-thermic welding of workpieces, especially rails. 2,963,755, 12-13-60, Cl. 22-43.



- Hessel, Frederick A.: *See*—  
Werner, Jesse, and Hessel. 2,938,898.
- Hessel, Frederick A., to General Aniline & Film Corp. Method of controlling and eradicating mites and ticks. 2,946,716, 7-26-60, Cl. 167-22.
- Hesselberg, Ole J., and R. A. Nowell, to Intricate Metal Products Inc. Sofa bed. 2,938,219, 5-31-60, Cl. 5-13.
- Hesseltger, James M., to Thiokol Chemical Corp. Purification of boron trichloride. 2,934,167, 4-26-60, Cl. 183-114.2.
- Hesser, James M.: *See*—  
Karlet, Joseph G., and Hesser. 2,941,068.
- Hessler, George, to The Gleason Works. Chuck and collet therefor. 2,935,329, 5-3-60, Cl. 279-51.
- Hessler, John O., P. K. O'Connor, and S. J. Stomiany, to American-Marietta Co. Swivel connector for mops. 2,943,892, 7-5-60, Cl. 306-3.
- Hessler, William G.: *See*—  
Frommelt, Horace A., and Aberlin. 2,950,523.  
Frommelt, Horace A., and Aberlin. 2,950,524.
- Hesston Mfg. Co., Inc.: *See*—  
Adee, Raymond A. 2,924,994.  
White, Allen A. 2,924,993.  
White, Allen A. 2,936,840.
- Hestad, Selmer A., and D. H. Stotler, to Bendix Aviation Corp. Peening apparatus. 2,919,517, 1-5-60, Cl. 51-8.
- Hester, Frank A., to United States of America, Navy. Switch devices. 2,961,502, 11-22-60, Cl. 200-61.01.
- Hestnes, Harold: *See*—  
Hestnes, Harold J. 2,933,398.
- Hestnes, Harold J., deceased; H. Hestnes, administrator. Method of preserving protein foods. 2,933,398, 4-19-60, Cl. 99-192.
- Heston, Eugene E., to National Rubber Machinery Co. Extruder with jointed feed screw. 2,946,089, 7-26-60, Cl. 18-12.
- Heth, Edwin M.: *See*—  
Prentice, David V., and Heth. 2,940,613.  
Prentice, David V., and Heth. 2,950,745.
- Heth, Edwin M., and A. W. Rickford, to Prentice Machine Works, Inc. Veneer clipper for cutting measured lengths with means responsive to feed of work to regulate the cutting cycle. 2,928,305, 3-15-60, Cl. 83-399.
- Heth, Sherman C.: *See*—  
Christenson, Donald J., and Heth. 2,940,283.  
Huddle, Edwin F., Heth, and Pool. 2,956,809.
- Heth, Sherman C., to International Harvester Co. Crop crushing device with laminated rubber impregnated fibre disc crushing rolls. 2,921,426, 1-19-60, Cl. 56-1.
- Heth, Sherman C., to Jacobsen Mfg. Co. Draft connection between towing and towed devices. 2,955,846, 10-11-60, Cl. 280-405.
- Heth, Sherman C., to International Harvester Co. Cam type operating device for crushing rolls. 2,958,991, 11-8-60, Cl. 56-1.
- Hett, John H., to American Cystoscope Makers, Inc. Panoramic borescope. 2,959,089, 11-8-60, Cl. 88-14.
- Hett, Wolfgang, to North American Philips Co., Inc. Magnetic filter with rotary flow. 2,939,583, 6-7-60, Cl. 210-223.
- Hettick, George R., to Phillips Petroleum Co. Catalytic cracking process. 2,938,856, 5-31-60, Cl. 208-74.
- Hettinger, William P., Jr.: *See*—  
Lorenz, Walter P., Keith, and Hettinger. 2,951,035.
- Heter, John W., Hettinger, Hedeen, and Lorenz. 2,952,615.
- Hetzel, Max, to Bulova Watch Co., Inc. Electric timepiece. 2,929,196, 3-22-60, Cl. 58-23.
- Hetzel, Max, to Bulova Watch Co., Inc. Electric timepiece. 2,949,727, 8-23-60, Cl. 58-23.
- Hetzel, Max, to Bulova Watch Co., Inc. Electrical timepiece. 2,960,817, 11-22-60, Cl. 58-23.
- Hetzel, Stanford J., to Sun Oil Co. Production of elemental alkali and alkaline earth metals and carbon. 2,922,709, 1-26-60, Cl. 75-66.
- Hetzel, Stanford J., to Sun Oil Co. Refining phthalic acids. 2,952,704, 9-13-60, Cl. 260-525.
- Hetzer, Russell A., to Western Laundry Machinery Co. Cleaning system with automatic by-pass. 2,928,268, 3-15-60, Cl. 68-18.
- Hetzer, Russell A., to Western Laundry Machinery Co. Timing device. 2,939,336, 6-7-60, Cl. 74-568.
- Hetzler, Lewis R., to General Motors Corp. Transistor regulator. 2,945,174, 7-12-60, Cl. 323-22.
- Heublein, Inc.: *See*—  
Jacobs, Frederick L. 2,946,687.
- Heuer, Charles A., to Olin Mathieson Chemical Corp. Fabrication of hollow articles. 2,933,843, 9-27-60, Cl. 29-157.3.
- Heuer, Charles A., and C. O. Kunz, to Olin Mathieson Chemical Corp. Sheet metal fabrication. 2,941,280, 6-21-60, Cl. 29-157.3.
- Heuer, George W., and W. S. Brink, to Westinghouse Electric Corp. Electroresponsive device. 2,922,113, 1-19-60, Cl. 324-137.
- Heuer, Hans, and H. Reichert, to Olympia Werke A.G. Sequential presentation system. 2,934,749, 4-26-60, Cl. 340-174.
- Heuer, John M. Cake cooling support for inverted cake pan. 2,922,608, 1-26-60, Cl. 248-167.
- Heuer, Kurt: *See*—  
Broitz, August, Richter, Wachtendorf, and Heuer. 2,947,597.
- Heuer, Kurt, H. Elling, and R. Elssner, to American Enka Corp. Production of shaped objects from viscose. 2,950,208, 8-23-60, Cl. 106-135.
- Heuer, Kurt, H. Elling, and R. Elssner, to American Enka Corp. Production of shaped objects from viscose. 2,953,425, 9-20-60, Cl. 18-54.
- Heuer, Lawrence H. Counterbalance spring. 2,934,785, 5-3-60, Cl. 16-200.
- Heuer, Russell P., to General Refractories Co. Open-hearth furnace construction. 2,930,601, 3-29-60, Cl. 263-46.
- Heuer, Russell P., to General Refractories Co. Refractory brick. 2,932,263, 4-12-60, Cl. 110-99.
- Heuer, Russell P., to General Refractories Co. Basic refractory brick. 2,952,554, 9-13-60, Cl. 106-60.
- Heuer, Russell P., to General Refractories Co. Open hearth furnace regenerator. 2,959,406, 11-8-60, Cl. 263-15.
- Heunineck, Alphonse M., deceased, by T. A. Harvey, administrator, to Union Carbide Corp. Process for making sintered type cadmium electrodes. 2,952,570, 9-13-60, Cl. 117-230.
- Heurtey & Cie: *See*—  
Dessarts, Pierre M. L. 2,924,230.
- Heusel, Robert J., to General Motors Corp. Test fixture. 2,947,167, 8-2-60, Cl. 73-100.
- Heuser, Elliott G., to W. H. Brady Co. Unitized protected label assembly. 2,953,865, 9-27-60, Cl. 40-2.
- Heuser, Francis J.: *See*—  
Fulcher, Charles A., Heuser, Roberts, Rynearson, and Waldhauer. 2,954,691.
- Heuser, Leon J., to Olin Mathieson Chemical Corp. Streptomycin purification. 2,921,062, 1-12-60, Cl. 260-210.
- Heuser, Leon J., to Olin Mathieson Chemical Corp. Streptomycin purification. 2,921,063, 1-12-60, Cl. 260-210.
- Heusler, Karl: *See*—  
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 2,934,543.  
Wettstein, Albert, Anner, Heusler, Ueberwasser, Wieland, Schmidlin, and Billeter. 2,957,368.  
Wettstein, Albert, Heusler, Ueberwasser, and Wieland. 2,957,888.
- Heüsner, Wilhelm L. G., to Hermann Schwarz, K.G. Two-part mine prop. 2,953,343, 9-20-60, Cl. 248-354.
- Heusner, Wilhelm L. G., to Hermann Schwarz Kommanditgesellschaft. Connection of foldable caps. 2,959,438, 11-8-60, Cl. 287-99.
- Heusser, Franklin E., to Casco Products Corp. Cigar lighters. 2,936,358, 5-10-60, Cl. 219-32.
- Heuver, Herbert M., to United States of America, Air Force. Non-resonating fan blade. 2,951,545, 9-6-60, Cl. 170-160.53.
- Hewatt, Willis L. Vulcanizing machine. 2,942,296, 6-28-60, Cl. 18-18.
- Hewes, Ralph W., and J. W. Knapp, to General Railway Signal Co. Multiple terminal electrical connectors. 2,924,808, 2-9-60, Cl. 339-198.
- Hewett, James V., and G. W. Stahl, to E. I. du Pont de Nemours and Co. Dimethyl formamide purification. 2,942,027, 6-21-60, Cl. 260-561.
- Hewey, Paul L.: *See*—  
Clough, Edward L. 2,949,690.
- Hewitt, Alan R.: *See*—  
Davis, Roger A., and Hewitt. 2,934,339.
- Hewitt, Ellis E., to Westinghouse Air Brake Co. Hydro-pneumatic hoist control apparatus. 2,949,894, 8-23-60, Cl. 121-46.
- Hewitt, Ellis E., to Westinghouse Air Brake Co. Surge dampener apparatus. 2,949,932, 8-23-60, Cl. 137-593.
- Hewitt, Eric J., T. Hasselstrom, D. A. M. MacKay, and K. S. Konigsbacher. Natural flavor or processed foods. 2,924,521, 2-9-60, Cl. 99-1.
- Hewitt, Ernest W., to The Western Union Telegraph Co. Message cutter and conveyor. 2,935,563, 5-3-60, Cl. 178-42.
- Hewitt, George. Resonator. 2,924,043, 2-9-60, Cl. 46-175.
- Hewitt, Justin H., Jr., to The Oliver Corp. Roller type conveyor. 2,923,391, 2-2-60, Cl. 193-35.
- Hewitt, Justin H., Jr., to The Oliver Corp. Collapsible conveyor. 2,938,614, 5-31-60, Cl. 193-35.
- Hewitt-Robins Inc.: *See*—  
Bankauf, William F., Century, and Reilly. 2,953,232.
- Hewitt, Thomas. Time reminder. 2,939,420, 6-7-60, Cl. 116-133.
- Hewitt, William H., Jr., to Bell Telephone Laboratories, Inc. Attenuator. 2,934,723, 4-26-60, Cl. 333-81.
- Hewitt, William H., Jr., to Bell Telephone Laboratories, Inc. Adjustment of isolation ratio of field displacement isolators. 2,963,667, 12-6-60, Cl. 333-24.
- Hewitt, Woodrow W., to Parks-Cramer Co. Bobbin holder. 2,946,538, 7-26-60, Cl. 242-130.2.
- Hewko, Lubomyr O., to General Motors Corp. Governor. 2,941,539, 6-21-60, Cl. 137-56.
- Hewlett, George, to The Dayton Rubber Co. Fountain dividers. 2,920,558, 1-12-60, Cl. 101-364.



- Hewlett-Packard Co.: *See*—  
 Dunwoodie, Duane E. 2,963,659.  
 Dunwoodie, Duane E., and Schrock. 2,942,207.  
 Fong, Arthur. 2,944,233.  
 Hartke, Dexter, and Willrodt. 2,945,183.  
 La Barre, Lawrence J., and Girdner. 2,945,331.  
 Lacy, Peter D. 2,944,224.  
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 Poulter, Howard C. 2,942,204.  
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 Siegel, Floyd G. 2,963,618.
- Hewson, Adolph W.: *See*—  
 Ingalls, John J., and Hewson. 2,940,790.
- Hewson, Adolph W., to Smith Fence Co., Inc. Chain fence. 2,935,304, 5-3-60, Cl. 256-48.
- Hewson, Colin T., and P. A. Ward, to Rolls-Royce Ltd. Aircraft control means. 2,964,905, 12-20-60, Cl. 60-35.54.
- Hexcel Products Inc.: *See*—  
 Pajak, Theodore P. 2,923,902.  
 Steele, Roger C. 2,919,472.  
 Steele, Roger C., and Swain. 2,936,021.
- Heyden Newport Chemical Corp.: *See*—  
 Cooper, Irving H. 2,951,263.  
 Fath, Joseph. 2,934,548.  
 Kraft, William M. 2,945,830.  
 Leitner, George J. 2,951,008.  
 Leonard, Reid H., and Bordenca. 2,962,478.  
 Minich, Arthur. 2,962,419.
- Heyden, Rudi: *See*—  
 Plapper, Jürgen, and Heyden. 2,956,854.  
 Plapper, Jürgen, Heyden, and Arnold. 2,950,950.
- Heyden, Rudi, to Bohme Fettchemie G.m.b.H. Reaction products of polyethylene oxide wax high molecular weight alcohols and polybasic acids. 2,960,521, 11-15-60, Cl. 260-461.
- Heyden, Rudi, and J. Plapper, to Böhme Fettchemie G.m.b.H. Method of soaking animal hides and skins. 2,923,595, 2-2-60, Cl. 8-94.18.
- Heyden, Rudi, and F. Schmitt, deceased (by A. Schmitt, nee Neukirchner, heir), to Boehme Fettchemie G.m.b.H. Tanning agent. 2,946,649, 7-26-60, Cl. 8-94.33.
- Heyden, Rudi, and H. Wedell, to Böhme Fettchemie G.m.b.H. Waterproofing process and the article produced thereby. 2,953,479, 9-20-60, Cl. 117-135.5.
- Heydenbluth, Franz: *See*—  
 Bechstein, Herbert, Sokol, Grozinger, and Heydenbluth. 2,956,190.
- Heydt, Gerald B.: *See*—  
 Kegerise, Wesley R., and Heydt. 2,932,568.
- Heyer, Clair B. Knock-down table support frame. 2,964,368, 12-13-60, Cl. 311-35.
- Heyer, Don. Method of and apparatus for forming sealed packages. 2,927,409, 3-8-60, Cl. 53-22.
- Heyer, Don. Variable speed drive mechanism. 2,927,470, 3-8-60, Cl. 74-230.17.
- Heyer Inc.: *See*—  
 Springer, Edward M. 2,961,947.  
 Springer, Edward M., and Moore. 2,936,706.
- Heyer, Walter E.: *See*—  
 Mescher, Harold E., and Heyer. 2,954,789.
- Heyer, William T., and F. Kepka. Metering valve. 2,963,259, 12-6-60, Cl. 251-48.
- Heying, Theodore L., to Olin Mathieson Chemical Corp. Preparation of magnesium borohydride. 2,930,674, 3-29-60, Cl. 23-14.
- Heyl, Edgar J., J. C. Hitov, and H. Sampson, to Crown Cork & Seal Co., Inc. Cap and plastic fitment combination. 2,964,208, 12-13-60, Cl. 215-40.
- Heyl, Russell G., Jr.: *See*—  
 Williams, Richard J., and Heyl. 2,921,621.
- Heyl, Russell G., Jr., to American Metal Products Co. Support for spring end. 2,950,486, 8-30-60, Cl. 5-260.
- Heym, Lothar S., to E. W. Bliss Co. Tube mill. 2,959,077, 11-8-60, Cl. 80-13.
- Heyman, Fannie R.: *See*—  
 Osipow, Lloyd I., and Marra. 2,936,245.
- Heyman Mfg. Co.: *See*—  
 Klumpp, Ferdinand, Jr. 2,931,006.
- Heyman, Nicholas C. Safety lock. 2,958,215, 11-1-60, Cl. 70-92.
- Heymes, Pierre R., to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Crey. Polishing of glass plates. 2,935,823, 5-10-60, Cl. 51-119.
- Heymes, Rene: *See*—  
 Amiard, Gaston, and Heymes. 2,927,118.  
 Amiard, Gaston, Heymes, Goffinet, and Velluz. 2,932,635.  
 Amiard, Gaston, Heymes, and Velluz. 2,921,959.  
 Amiard, Gaston, Heymes, and Velluz. 2,932,634.  
 Amiard, Gaston, Heymes, and Velluz. 2,933,187.  
 Velluz, Leon, Amiard, Bartos, Goffinet, and Heymes. 2,938,891.
- Heyna, Johannes: *See*—  
 Bartl, Hugo, Bestlan, Diery, Heyna, and Ruckert. 2,961,349.
- Heyniger, William L., to The Garrett Corp. Variable length inflatable escape chute. 2,936,056, 5-10-60, Cl. 193-25.
- Heyser, Donald L.: *See*—  
 Fullerton, John R., Leech, and Heyser. 2,922,025.
- Heytow, Solomon, and R. H. Peterson. Vibrato producing circuit for electronic musical instrument. 2,953,054, 9-20-60, Cl. 84-1.25.
- Heywang, Walter, to Siemens & Halske Aktiengesellschaft. Semi-conductor device comprising an anode, a cathode and a control electrode. 2,933,619, 4-19-60, Cl. 307-88.5.
- Heywood, Derek W.: *See*—  
 Bennett, Alan, and Heywood. 2,940,863.
- Heywood, Donald L.: *See*—  
 Dunn, Jesse T., and Heywood. 2,953,572.
- Heywood, Donald L., to Union Carbide Corp. N-glycidyl-piperazine and method of making it. 2,963,483, 12-6-60, Cl. 260-268.
- Heywood, John L., Jr. Toy. 2,957,271, 10-25-60, Cl. 46-1.
- Heywood, Vincent E., to United States Envelope Co. Conveying means for envelope dryers and the like. 2,920,748, 1-12-60, Cl. 198-180.
- Heywood, Vincent E., to United States Envelope Co. Manufacture of window envelopes. 2,953,071, 9-20-60, Cl. 93-61.
- Heywood-Wakefield Co.: *See*—  
 Hendrickson, Severin B. 2,936,024.
- Hezler, Julius, Jr., to General Motors Corp. Window regulator operating apparatus. 2,949,290, 8-16-60, Cl. 268-126.
- Hezler, Julius, Jr., to General Motors Corp. Remotely controlled mirror. 2,962,933, 12-6-60, Cl. 88-93.
- Hezler, Julius, Jr., and J. R. Schemansky, to General Motors Corp. Concealed drip gutter and passenger compartment ventilation means for automotive vehicle. 2,937,047, 5-17-60, Cl. 296-28.
- Hiatt, Gordon D., and J. Emerson, to Eastman Kodak Co. Coated medicaments. 2,940,901, 6-14-60, Cl. 167-82.
- Hibbard, Myrthan R. End bits for blades. 2,965,989, 12-27-60, Cl. 37-143.
- Hibbard, Nelson R., to Chain Belt Co. Rubber pad attachment for conveyor chain. 2,951,578, 9-6-60, Cl. 198-189.
- Hibbard, Nelson R., and A. J. Michalik, to Chain Belt Co. Conveyor chain attachments. 2,954,113, 9-27-60, Cl. 198-189.
- Hibbard, Robert L., and V. I. Means, to Pure Carbon Co., Inc. Rupture disk assembly. 2,922,544, 1-26-60, Cl. 220-89.
- Hibbard, Thomas L., to Kelsey-Hayes Co. Wheel structure. 2,940,555, 6-14-60, Cl. 188-264.
- Hibbard, Walter R., Jr., and J. L. Walter, to General Electric Co. Magnetic material. 2,940,882, 6-14-60, Cl. 148-111.
- Hibben, John Jr. Golf cart handle joint. 2,954,247, 9-27-60, Cl. 287-14.
- Hibberd, Robert G., to The British Thomson-Houston Co. Ltd. Semi-conductor devices. 2,966,434, 12-27-60, Cl. 148-33.
- Hibbs, Frank J., Jr., to Associated Refrigerating Engineers. Vacuum cooling apparatus. 2,963,876, 12-13-60, Cl. 62-173.
- Hibbs, Theodore W. Stock feeder for machine tools. 2,950,522, 8-30-60, Cl. 29-93.
- Hibshman, Henry J.: *See*—  
 Long, Robert B., Houston, Hibshman, and Longwell. 2,959,529.
- Hicinbotham, Jerome J. Front sight. 2,932,896, 4-19-60, Cl. 33-53.
- Hickerson, John J.: *See*—  
 Young, Hobart P., and Hickerson. 2,952,561.
- Hickey, George M.: *See*—  
 Hunter, James B., and Hickey. 2,961,062.
- Hickey, Milton A.: *See*—  
 Evanson, Austin E., and Hickey. 2,930,068.
- Hickey, Nathaniel C., Jr., and G. C. Mick. Apparatus for photographic printing. 2,947,233, 8-2-60, Cl. 95-75.
- Hickler, Walter R., and J. L. Powell, to The B. F. Goodrich Co. Slush-molding method for making footwear with thickened portions from liquid heat-fusible material. 2,939,180, 6-7-60, Cl. 18-58.
- Hickman, A. E.: *See*—  
 Mathews, J. K. 2,922,174.
- Hickman, Albert F., to Hickman Industries, Inc. Seat structure. 2,949,153, 8-16-60, Cl. 155-55.
- Hickman, Charles E.: *See*—  
 Goldsmith, Allen L., and Hickman. 2,964,178.
- Hickman, Clarence N., to United States of America, War. Flamethrower. 2,943,673, 7-5-60, Cl. 158-28.
- Hickman, Dan H., to Gorman-Rupp Industries, Inc. Self-cleaning filter system for automatic washer. 2,959,286, 11-8-60, Cl. 210-138.
- Hickman Industries, Inc.: *See*—  
 Hickman, Albert F. 2,949,153.
- Hickman, John S., and G. E. Martin. Sound signaling system having a variable reluctance transmitter-condenser receiver transducer. 2,958,078, 10-25-60, Cl. 340-313.
- Hickman, Kenneth C. D., to Consolidated Electrodynamics Corp. Apparatus for pumping. 2,924,292, 2-9-60, Cl. 183-2.
- Hickok Mfg. Co. Inc.: *See*—  
 Meeker, William H. 2,933,795.  
 Meeker, William H. 2,943,332.
- Hickok, Robert D., Jr., to Cleveland Patents, Inc. Switch and method of assembly. 2,924,678, 2-9-60, Cl. 200-46.
- Hickory Dyeing & Winding Co., Inc.: *See*—  
 Miller, Henry G., Jr. 2,922,696.
- Hicks, Charles E., to Bailey Meter Co. Autoclave control system. 2,929,151, 3-22-60, Cl. 34-45.
- Hicks, Clinton A.: *See*—  
 Dodd, William O., Jr., and Hicks. 2,947,108.
- Hicks, Dale A.: *See*—  
 Carter, Richard S. 2,945,321.



- Hicks, Darrell D.: See—  
 Belanger, William J., Masters, and Hicks. 2,947,712.  
 Masters, John E., Hicks, and Belanger. 2,934,521.
- Hicks, Darrell D., to Devoe & Reynolds Co., Inc. Epoxide resin-quaternary ammonium salt compositions. 2,928,809, 3-15-60, Cl. 260-47.
- Hicks, Darrell D., to Devoe & Reynolds Co., Inc. Process of coating substrate with composition comprising carboxyl-containing copolymer and amine-aldehyde condensate. 2,931,742, 4-5-60, Cl. 117-161.
- Hicks, Darrell D., to Devoe & Reynolds Co., Inc. Carboxy-copolymer epoxide compositions and their preparation. 2,934,516, 4-26-60, Cl. 260-45.4.
- Hicks, Darrell D., to Devoe & Reynolds Co., Inc. Film-forming compositions comprising carboxy-copolymers and polyepoxides and method of making same. 2,949,438, 8-16-60, Cl. 260-45.5.
- Hicks, Darrell D., to Devoe & Reynolds Co., Inc. Carboxy-copolymer epoxide compositions and their preparation. 2,965,602, 12-20-60, Cl. 260-45.4.
- Hicks, Darrell D., J. E. Masters, and W. J. Belanger, to Devoe & Reynolds Co., Inc. Modified epoxide resins. 2,934,506, 4-26-60, Cl. 260-18.
- Hicks, Darrell D., and J. E. Masters, to Devoe & Reynolds Co., Inc. Modified polyesters. 2,934,513, 4-26-60, Cl. 260-45.4.
- Hicks, Frederick W., to Galland-Henning Mfg. Co. Valve. 2,940,475, 6-14-60, Cl. 137-623.
- Hicks, George W., Jr.: See—  
 Lowery, Charley. 2,957,491.
- Hicks, Harry F., Jr., and C. J. Baxter, to United States of America, Navy. Anti-collision apparatus. 2,943,201, 6-28-60, Cl. 250-83.3.
- Hicks, Irl R. Barometer. 2,953,025, 9-20-60, Cl. 73-384.
- Hicks, J. Bryon. Internal combustion engines. 2,926,649, 3-1-60, Cl. 123-191.
- Hicks, James M., and M. R. Fried. Outboard motor carrier. 2,937,880, 5-24-60, Cl. 280-47.13.
- Hicks, John W., Jr., to Deering Milliken Research Corp. Slub yarns. 2,964,900, 12-20-60, Cl. 57-140.
- Hicks, Joseph J., to The Chemstrand Corp. Weighing apparatus. 2,932,501, 4-12-60, Cl. 265-47.
- Hicks, Justin W., to Diamond National Corp. Pulp molding apparatus. 2,961,043, 11-22-60, Cl. 162-401.
- Hicks, Loy A. Bait holder and protector. 2,939,241, 6-7-60, Cl. 43-41.
- Hicks, Percy W.: See—  
 Clark, John B., and Hicks. 2,945,917.
- Hicks, Raymond, to The General Electric Co. Ltd., and Simon-Carves Ltd. Supporting means. 2,955,689, 10-11-60, Cl. 189-82.
- Hicks, Warren G.: See—  
 Zemanek, Joseph, Jr., and Hicks. 2,956,634.
- Hicks, Warren G., and J. Zemanek, Jr., to Socony Mobil Oil Co., Inc. Time interval measurement. 2,963,646, 12-3-60, Cl. 324-68.
- Hicks, William T.: See—  
 Crosby, Charles H., Hicks, Pizzi, and Wahlberg. 2,958,178.  
 Crosby, Charles H., Hicks, and Wahlberg. 2,924,930.  
 Crosby, Charles H., Hicks, and Wahlberg. 2,939,642.  
 Crosby, Charles H., Hicks, and Wahlberg. 2,959,905.  
 Crosby, Charles H., Hicks, and Wahlberg. 2,963,849.
- Hicks, William W., to Wesix Electric Heater Co. Panel electric heater. 2,922,866, 1-26-60, Cl. 219-34.
- Hicks, William W., and J. C. Beckett, to Ionaire, Inc. Forced air ion generator. 2,928,941, 3-15-60, Cl. 250-44.
- Hicks, William W., and J. C. Beckett, to Ionaire, Inc. Ion generator. 2,928,942, 3-15-60, Cl. 250-44.
- Hickson & Welch Ltd.: See—  
 Adams, Dennis A. W., and Sarkar. 2,928,830.
- Hickson, William F., to Continental Copper & Steel Industries, Inc. (Welin Davit & Boat Division). Nested life boat construction. 2,964,764, 12-20-60, Cl. 9-30.
- Hickson, William F., to Continental Copper & Steel Industries, Inc. Gravity davit construction. 2,964,765, 12-20-60, Cl. 9-38.
- Hickson's Timber Impregnation Co. (G.B.) Ltd.: See—  
 Thornton, Jesse. 2,931,737.
- Hidde Nijland, Hendrik A., to N.V. COQ. Metal clad switchgear. 2,928,922, 3-15-60, Cl. 200-163.
- Hider, Theodore M., to International Business Machines Corp. Xerographic image developing apparatus. 2,959,153, 11-8-60, Cl. 118-637.
- Hidding, Walter E. Parachute carrier toy. 2,950,887, 8-30-60, Cl. 244-155.
- Hieb, Josephine: See—  
 Hieb, Peter. 2,927,545.
- Hieb, Peter, deceased; J. Hieb, executrix. Rotary bakery oven stabilizer. 2,927,545, 3-8-60, Cl. 107-59.
- Hieber, George M., to Gulton Industries, Inc. Differential transformer accelerometer. 2,923,904, 2-2-60, Cl. 336-30.
- Hiebert, Homer L.: See—  
 Hoecker, Frank E., and Hiebert. 2,962,592.
- Hiegl, Otto A., and R. Schöenthaler, to G. M. Pfaff, A.-G. Treadle for sewing machines. 2,964,970, 12-20-60, Cl. 74-560.
- Hieken, Charles, to Laboratory For Electronics, Inc. Data processing techniques. 2,936,444, 5-10-60, Cl. 340-174.
- Hierholzer, Frank J., Jr., to Westinghouse Electric Corp. Amplifier. 2,957,121, 10-18-60, Cl. 523-23.
- Hiers, Victor H.: See—  
 Kanzelberger, Claude G., and Hiers. 2,924,299.
- Hiers, Victor H., to Hamilton Mfg. Co. Drawer tilt adjustment means. 2,928,696, 3-15-60, Cl. 308-3.8.
- Hiers, Victor H., to Hamilton Mfg. Co. Cabinet sliding doors locking arrangement. 2,937,416, 5-24-60, Cl. 20-19.
- Hiers, Victor H., and C. G. Kanzelberger, to Hamilton Mfg. Co. Anti-topping furniture extension leg. 2,931,128, 4-5-60, Cl. 45-139.
- Hiersemann, Wolfgang, E. Kaspar, and U. Kerb, to Firma Schering A.G.  $\Delta^4$ -pregnatriene-17 $\alpha$ -ol-3,20-dione esters. 2,962,510, 11-29-60, Cl. 260-397.4.
- Hiersig, Heinz M., and K. Hansgen, to Eisenwerke Mulheim/Melderich Aktiengesellschaft. Differential gearing. 2,922,321, 1-26-60, Cl. 74-801.
- Hieserman, Clarence E., and L. C. Garrett, to The Chemstrand Corp. Method and apparatus for filament spinning. 2,919,465, 1-5-60, Cl. 18-8.
- Hiesinger, Leopold, to W. C. Heraeus, G.m.b.H. Vacuum pumps. 2,931,561, 4-5-60, Cl. 230-101.
- Hiestand, Armin: See—  
 Albrecht, Otto, and Hiestand. 2,934,523.
- Hiestand, Armin, and O. Albrecht, to Ciba Ltd. Triazine-formaldehyde condensation products. 2,927,090, 3-1-60, Cl. 260-21.
- Hiestand, Everett N., to The Upjohn Co. Deformed surface-activated monocalcium novobiocin compositions. 2,963,403, 12-6-60, Cl. 167-82.
- Hiestand, Norman P.: See—  
 Walter, Richard L., Filmer, and Hiestand. 2,944,187.
- Higbie Mfg. Co.: See—  
 Wood, Morris E. 2,925,229.
- Higby, Richard F.: See—  
 Maxwell, Richard F., Jr., and Higby. 2,942,117.  
 Maxwell, Richard F., Jr., and Higby. 2,953,688.
- Higdon, Clinton. Dairy utensil. 2,933,747, 4-26-60, Cl. 15-29.
- Higdon, Robert V., and J. L. McLucas, to HRB-Singer, Inc. Oscilloscope recorder. 2,936,333, 5-10-60, Cl. 178-6.6.
- Higer, David M.: See—  
 Bensei, Duryea. 2,933,229.
- Higer, Harry. Cutting and disintegrating machine. 2,947,486, 8-2-60, Cl. 241-36.
- Higer, Harry. Machine for cutting or disintegrating matter. 2,954,938, 10-4-60, Cl. 241-260.
- Higgin, Wilfrid L., to Nehi Beverage Co. of Los Angeles. Knockdown bottle display stand. 2,935,205, 5-3-60, Cl. 211-49.
- Higgins, Charles M. Can opener bracket. 2,935,287, 5-3-60, Cl. 248-298.
- Higgins, Dorothy K.: See—  
 McDonald, Alexander B. 2,919,512.
- Higgins, Edward F. Method of manufacturing a box end thread protector for sucker rod couplings and the like. 2,930,118, 3-29-60, Cl. 29-528.
- Higgins, Edward F. Pin end thread protector for sucker rods and the like. 2,930,409, 3-29-60, Cl. 138-96.
- Higgins, Frank W.: See—  
 Goodhue, William V., and Higgins. 2,930,543.
- Higgins, Fred, to James Lees and Sons Co. Yarn control device for up-twisters. 2,946,176, 7-26-60, Cl. 57-62.
- Higgins, Henry G. Article holder. 2,953,255, 9-20-60, Cl. 211-60.
- Higgins, James J.: See—  
 Batty, Harry A., and Higgins. 2,936,795.
- Higgins, Stephens P., Jr., and P. H. Drinker, to Minneapolis-Honeywell Regulator Co. Air-pressure-operated pilot valve. 2,920,639, 1-12-60, Cl. 137-82.
- Higgins, Theodore S., to Draper Corp. Replenishing mechanism for looms. 2,955,621, 10-11-60, Cl. 139-247.
- Higgins, Thomas D., Jr., D. W. McDonald, and M. M. McLane, to Monsanto Chemical Co. Regeneration of cuprous chloride catalysts employed in the production of acrylonitrile. 2,956,029, 10-11-60, Cl. 252-413.
- Higgins, Thomas J., Jr., to American Viscose Corp. Method and apparatus for flattening beaded edges of a film. 2,922,190, 1-26-60, Cl. 18-15.
- Higgins, William A. Lantern bracket for boats. 2,960,601, 11-15-60, Cl. 240-7.5.
- Higgins, William J. Rectangular storage racks embodying rack units of standard space allocation. 2,942,735, 6-28-60, Cl. 211-148.
- Higgins, William J. Extendible rack structure for storage, embodying wing extensions. 2,945,596, 7-19-60, Cl. 211-134.
- Higginson, John, to United States of America, Army. Rocket propellant grain with helically grooved perforation. 2,920,443, 1-12-60, Cl. 60-35.6.
- Higgon, Dennis J.: See—  
 Stevenson, Herbert A., Clark, Cranham, and Higgon. 2,938,829.
- Higgon, Herbert A., Clark, Marshall, Greenwood, Cranham, and Higgon. 2,938,928.
- Higgs, Albert E. Sheet end line space indicator for typewriters. 2,941,647, 6-21-60, Cl. 197-189.
- Higgs, Norman F. Sliding flangeway filler and tapered filler block for railroad crossings and frogs. 2,948,497, 8-9-60, Cl. 246-380.
- Higgs, Paul M., to United States of America, Navy. Switch. 2,961,507, 11-22-60, Cl. 200-83.
- High, Ray F. Extensible spraying apparatus. 2,965,307, 12-20-60, Cl. 239-273.



- Highberg, Axel L., to United Aircraft Corp. Jet noise suppressor. 2,939,279, 6-7-60, Cl. 60—35.6.
- Highberg, Axel L., and J. M. Tyler, to United Aircraft Corp. Noise suppressor. 2,935,842, 5-10-60, Cl. 60—35.6.
- Highberger, John H., and R. A. Whitmore, to United Shoe Machinery Corp. Collagen fiber masses and methods of making the same. 2,934,446, 4-26-60, Cl. 106—155.
- Highberger, John H., and R. A. Whitmore, to United Shoe Machinery Corp. Collagen fiber masses and methods of making the same. 2,934,447, 4-26-60, Cl. 106—155.
- Highfield, Frank W. W., to The Austin Motor Co. Ltd. Method of hardening the bores of cylindrical members. 2,926,112, 2-23-60, Cl. 148—10.5.
- Highhouse, Frederick: *See*—  
Earle, Wilton R., and Highhouse. 2,947,116.
- Highland, Olaf. Sealed pressure-equalizing hydraulic brake reservoir. 2,952,128, 9-13-60, Cl. 60—54.6.
- Highley, Frank H.: *See*—  
Armstrong, Edward T., and Highley. 2,944,772.
- Highley, Frank H., to The Goodyear Tire & Rubber Co. Wheel constant slip control device and method of braking. 2,937,051, 5-17-60, Cl. 303—21.
- Highley, Frank H., to The Goodyear Tire & Rubber Co. Means for automatically adjusting aircraft brake pressure. 2,944,773, 7-12-60, Cl. 244—111.
- Highley, Frank H., to The Goodyear Tire & Rubber Co. Acceleration indicator for aircraft. 2,947,502, 8-2-60, Cl. 244—76.
- Highley, Frank H., to The Goodyear Tire & Rubber Co. Means for reducing landing gear vibration. 2,956,815, 10-18-60, Cl. 280—124.
- Highley, Wenford E.: *See*—  
Brown, Morris C., and Highley. 2,920,876.  
Gordon, Dwight M., and Highley. 2,943,848.
- High Standard Mfg. Corp., The: *See*—  
Larson, Lawrence L. 2,921,396.
- Sefried, Harry H., II. 2,958,151.
- Sefried, Harry H., II. 2,958,974.
- Wilhelm, Gary. 2,960,788.
- Wilhelm, Gary. 2,963,789.
- Hight, David A., and J. T. Mitchiner. Engine attachment. 2,953,216, 9-20-60, Cl. 183—14.
- High Temperature Instruments Engineering Corp.: *See*—  
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- Hightower-Morse & Co.: *See*—  
Kozloff, Lloyd M. 2,945,735.  
Kozloff, Lloyd M. 2,945,736.
- High Voltage Engineering Corp.: *See*—  
Buechner, William W. 2,957,094.  
Cloud, Robert W., and Trump. 2,925,504.  
Dewey, Davis R., II, and Nygard. 2,931,941.  
Gale, Alfred J. 2,953,701.  
Gale, Alfred J. 2,957,078.  
Gale, Alfred J. 2,960,610.  
Nygard, John C. 2,922,921.  
Stiff, Bernard G. E. 2,944,842.  
Van de Graaff, Robert J. 2,922,905.  
Van de Graaff, Robert J., and Trump. 2,931,903.  
Van de Graaff, Robert J., and Trump. 2,945,141.
- Highway Trailer Co.: *See*—  
Stricker, Henry C., Jr., and Schmidt. 2,930,490.
- Higley, Frank R. Surface-treating tool. 2,942,384, 6-28-60, Cl. 51—170.
- Hignett, Harold W. G.: *See*—  
Horne, Campbell C., and Hignett. 2,965,959.
- Hignett, Harold W. G., to The International Nickel Co., Inc. Hot workable, heat resistant metal bodies. 2,941,281, 6-21-60, Cl. 29—182.3.
- Hignett, Travis P., A. B. Phillips, and R. D. Young, to Tennessee Valley Authority. Granular fertilizer from calcium metaphosphate. 2,945,754, 7-19-60, Cl. 71—37.
- Higonnet, Rene, and L. Moyroud, to Graphic Arts Research Foundation, Inc. Indicating means for type composition. 2,922,508, 1-26-60, Cl. 197—157.
- Higonnet, Rene A., and L. M. Moyroud, to Graphic Arts Research Foundation, Inc. Spacing device. 2,933,990, 4-26-60, Cl. 95—4.5.
- Higonnet, Rene A., and L. M. Moyroud, to Graphic Arts Research Foundation, Inc. Photocomposing apparatus. 2,950,662, 8-30-60, Cl. 95—4.5.
- Higonnet, Rene, and L. Moyroud, to Graphic Arts Research Foundation, Inc. Type composing apparatus. 2,951,428, 9-6-60, Cl. 95—4.5.
- Higonnet, Rene A., and L. M. Moyroud, to Graphic Arts Research Foundation, Inc. Means for type composition. 2,958,270, 11-1-60, Cl. 95—4.5.
- Higonnet, Rene A., and L. M. Moyroud, to Graphic Arts Research Foundation, Inc. Photocomposing device. 2,965,010, 12-20-60, Cl. 95—4.5.
- Higuchi, Takeru: *See*—  
Yunker, Martin H., Jr., and Higuchi. 2,927,939.
- Hijmans, Antonius H. M., to North American Philips Co., Inc. High-frequency dielectric-heating furnace. 2,956,145, 10-11-60, Cl. 219—10.77.
- Hijsszeler, Coenraad, to N.V. Motorenfabriek Thomassen. Internal combustion engine with air scavenging. 2,940,432, 6-14-60, Cl. 123—76.
- Hill, Harvey J., to Roberts Mfg. Co. Carpet gripper. 2,928,115, 3-15-60, Cl. 16—16.
- Hild, Henry F., J. J. Lawser, and E. P. Colalillo, to Proctor Electric Co. Toaster structure. 2,951,436, 9-6-60, Cl. 99—391.
- Hildebrand, George, and D. C. Franks, to Republic Aviation Corp. Aircraft ejection seat. 2,924,406, 2-9-60, Cl. 244—122.
- Hildebrand, Klaus, to Askania-Werke A.G. Electro-optical distance meter. 2,956,472, 10-18-60, Cl. 88—1.
- Hildebrand, Robert I.: *See*—  
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- Hildebrandt, Alexander B.: *See*—  
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- Hildebrandt, Alexander B., to Jersey Production Research Co. Formation fracture detector. 2,923,353, 2-2-60, Cl. 166—177.
- Hildebrandt, Alexander B., to Jersey Production Research Co. Unconsolidated formation core barrel. 2,927,775, 3-8-60, Cl. 255—72.
- Hildebrandt, Alexander B., and H. C. Bridwell, to Jersey Production Research Co. Coring apparatus. 2,927,776, 3-8-60, Cl. 255—72.
- Hildebrandt, Hartmut, and A. F. W. Stecker, to North American Philips Co., Inc. Electron tube. 2,939,989, 6-7-60, Cl. 313—261.
- Hildenbrandt, August J., Jr., to Minneapolis-Honeywell Regulator Co. Transmitting apparatus. 2,952,502, 9-13-60, Cl. 346—33.
- Hilderbrand, James B., to A. O. Smith Corp. Floor construction for a storage structure. 2,948,422, 8-9-60, Cl. 214—17.
- Hilderbrand, James B., to A. O. Smith Corp. Apparatus for cutting fibrous material. 2,955,719, 10-11-60, Cl. 214—17.
- Hileman, Dale L., to Thompson Ramo Wooldridge Inc. Frequency divider circuit. 2,962,663, 11-29-60, Cl. 328—39.
- Hiler, Malvern J., to Commonwealth Engineering Corp. Method and apparatus for producing micron and sub-micron metals. 2,935,394, 5-3-60, Cl. 75—5.
- Hilfiker, Hans, and A. Schreiber. Electrical distribution boards. 2,953,724, 9-20-60, Cl. 317—99.
- Hilgartner, George H., Jr., and M. W. Severance, to Brown & Williamson Tobacco Corp. Leaf tobacco separator and method. 2,941,667, 6-21-60, Cl. 209—134.
- Hilgendorf, Martin W., to Vetter Mfg. Co. Metal baffle for window sash. 2,939,187, 6-7-60, Cl. 20—52.2.
- Hilgers, Karl: *See*—  
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- Hilgert, Adolph J., to Baso Inc. Burner control apparatus. 2,936,124, 5-10-60, Cl. 236—21.
- Hilgert, Adolph J., to Baso Inc. Control apparatus and control devices for use therein. 2,956,132, 10-11-60, Cl. 200—83.
- Hilgert, Adolph J., to Baso Inc. Control devices. 2,962,718, 11-29-60, Cl. 158—131.
- Hilgoe, Vernon J., and C. J. Hermach, to Miehle-Goss-Dexter, Inc. Seal-off arrangement for undershot ink fountain. 2,945,437, 7-19-60, Cl. 101—350.
- Hi-Lite Polishing Machine Co., Inc.: *See*—  
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- Hil-Jon Safety Crown Corp.: *See*—  
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- Hilkemeier, Louis G., to Worthington Corp. Aggregate recovering machine. 2,919,808, 1-5-60, Cl. 210—523.
- Hilkemeier, Louis G., to Worthington Corp. Concrete mixer. 2,950,906, 8-30-60, Cl. 259—161.
- Hilker, Annamary: *See*—  
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Hilker, Erwin B. 2,931,970.
- Hilker, Erwin B., deceased, by A. Hilker, administratrix, to Wagner Electric Corp. Control for harmonic suppressor. 2,931,968, 4-5-60, Cl. 323—66.
- Hilker, Erwin B., deceased, by A. Hilker, administratrix, to Wagner Electric Corp. Electrical control device. 2,931,969, 4-5-60, Cl. 323—66.
- Hilker, Erwin B., deceased, by A. Hilker, administratrix, to Wagner Electric Corp. Harmonic suppressor for voltage control device. 2,931,970, 4-5-60, Cl. 323—75.
- Hilker, George D.: *See*—  
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- Hill, Arthur B., and D. W. Wood, to Esso Research and Engineering Co. Process for preparation of methylcyclopentadiene dimer. 2,935,538, 5-3-60, Cl. 260—666.
- Hill, Arthur E., to United States of America, War. Cloth containing antiscant. 2,926,107, 2-23-60, Cl. 117—121.
- Hill, Arthur M., P. A. Howard, and J. A. Fugate, to Service Pipe Line Co. Variable-diameter pipe line scraper. 2,958,884, 11-8-60, Cl. 15—104.19.
- Hill, Arthur T.: *See*—  
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- Hill, Benjamin J., 1/2 to Victor J. Hill. Weather stripping. 2,949,651, 8-23-60, Cl. 20—69.
- Hill, Bertram C., Jr., to Hill Electronic Engineering and Mfg. Co., Inc. Crystal mounting structure with damping means. 2,965,773, 12-20-60, Cl. 310—9.4.
- Hill, Boyd N.: *See*—  
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- Hill, C. V., & Co., Inc.: *See*—  
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- Hill, Carl E.: *See*—  
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- Hill, Carl J. Gizzard cleaning machine. 2,924,844, 2-16-60, Cl. 17—11.



- Hill, Charles, and C. K. Johns, to Hil-Jon Safety Crown Corp. Waterproof watch winding means. 2,927,420, 3-8-60, Cl. 58-90.
- Hill, Charles A.: See—
- Sartori, James A., and Hill. 2,930,590.
- Hill, Charles M.: See—
- Greene, George B., Hill, Hamilton, Bennett, and Steed. 2,936,118.
- Rinder, Robert M., Walsh, Hamilton, Hill, Cotey, Greene, and Bennett. 2,927,732.
- Hill, Claude, to Harry Ferguson Research Ltd. Vehicle braking system. 2,936,035, 5-10-60, Cl. 180-44.
- Hill, Claude, to H. Ferguson Research Ltd. Steering and suspension mechanism for driven wheels. 2,954,089, 9-27-60, Cl. 180-42.
- Hill, Claude, to Harry Ferguson Research Ltd. Four wheel drive for automotive vehicles. 2,959,237, 11-8-60, Cl. 180-44.
- Hill, Clifford W., and W. J. Blanchard, Sr., to Union Carbide Corp. Gas shielded arc torch. 2,949,526, 8-16-60, Cl. 219-75.
- Hill, David M. Electrical can opener. 2,929,138, 3-22-60, Cl. 30-4.
- Hill, Denzil T. Means for the teaching of basic arithmetic number facts. 2,919,498, 1-5-60, Cl. 35-31.
- Hill, Earl R., and R. L. Klar, Jr., to Westinghouse Electric Corp. Switching apparatus. 2,949,544, 8-16-60, Cl. 307-88.5.
- Hill, Edward D. Method of making an offset blanket. 2,925,355, 2-16-60, Cl. 117-35.6.
- Hill, Edward D. Method of making an ink-carrier roller. 2,927,346, 3-8-60, Cl. 18-58.
- Hill, Edward G., to Kelsey-Hayes Co. Booster brake system. 2,934,381, 4-26-60, Cl. 303-24.
- Hill, Edward G., to Kelsey-Hayes Co. Booster brake system. 2,945,725, 7-19-60, Cl. 303-24.
- Hill, Edward G., to Kelsey-Hayes Co. Booster brake mechanism with anti skid control. 2,953,412, 9-20-60, Cl. 303-6.
- Hill, Edward G., to Kelsey-Hayes Co. Booster brake mechanism. 2,957,728, 10-25-60, Cl. 303-6.
- Hill, Edward G., to Kelsey-Hayes Co. Booster brake mechanism. 2,957,729, 10-25-60, Cl. 303-24.
- Hill, Edward J., to Procon Pump & Engineering Co. Pump. 2,925,786, 2-23-60, Cl. 103-136.
- Hill Electronic Engineering and Mfg. Co., Inc.: See—
- Hill, Bertram C., Jr. 2,965,773.
- Hill Enterprises, Inc.: See—
- Hill, Francis A., 2nd. 2,960,884.
- Hill, Francis A., 2nd, to Hill Enterprises, Inc. Rounded tooth tips for pointed rotoid teeth. 2,960,884, 11-22-60, Cl. 74-462.
- Hill, Francis U., to James B. Shaver, d.b.a. Iron Lung Ventilator Co. Roof ventilator. 2,963,956, 12-13-60, Cl. 98-116.
- Hill, Frank A., and A. J. Pankratz, to General Precision Inc. Direct coupled transistor circuit. 2,943,212, 6-28-60, Cl. 307-88.5.
- Hill, Frank A., and A. J. Pankratz, to General Precision, Inc. Direct coupled transistor flip-flop. 2,954,484, 9-27-60, Cl. 307-88.5.
- Hill, Frank A., and D. A. Ladine, to General Precision, Inc. Transistor amplifier circuit. 2,956,222, 10-11-60, Cl. 323-89.
- Hill, Frederick B., Jr., to E. I. du Pont de Nemours and Co. Polytetramethylene ether polyurethane polymers. 2,929,800, 3-22-60, Cl. 260-77.5.
- Hill, Frederick B., Jr., to E. I. du Pont de Nemours and Co. Self-propelling food mixture. 2,952,547, 9-13-60, Cl. 99-60.
- Hill, Frederick P., to Motorola, Inc. Stop-on-tune receiver having remote control specific channel selector. 2,949,532, 8-16-60, Cl. 250-20.
- Hill, George B., to Sperry Rand Corp. Side delivery rake. 2,929,192, 3-22-60, Cl. 56-377.
- Hill, George B. Double sickle mower. 2,931,159, 4-5-60, Cl. 56-299.
- Hill, George L. Tractor trailer detachable gooseneck. 2,944,834, 7-12-60, Cl. 280-425.
- Hill & Griffith Co., The: See—
- King, Edward H., Heine, and Schumacher. 2,920,970.
- Hill, Harold C., to General Electric Co. Seal. 2,959,433, 11-8-60, Cl. 286-11.13.
- Hill, Harry L., to H. L. Hill. Card display rack. 2,939,234, 6-7-60, Cl. 40-124.
- Hill, Helen L.: See—
- Hill, Harry L. 2,939,234.
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- Hill, Howard M. Container with sanitary end closure and a method of attaching the end closure. 2,920,806, 1-12-60, Cl. 229-7.
- Hill, James J. Food ingredient dispenser. 2,939,614, 6-7-60, Cl. 222-190.
- Hill, James S., to Engelhard Industries, Inc. Composite material. 2,947,114, 8-2-60, Cl. 49-53.
- Hill, John H. Developing apparatus for sensitized materials. 2,943,555, 7-5-60, Cl. 95-89.
- Hill, John H., to Wildman Jacquard Co. Knitting machine for high pile fabrics. 2,953,002, 9-20-60, Cl. 66-9.
- Hill, John H., to Wildman Jacquard Co. Method and mechanism for knitting pile fabrics. 2,953,912, 9-27-60, Cl. 66-9.
- Hill, Joseph F., R. G. Schuman, J. R. Denise, and M. S. Decker, Jr., to Midland-Ross Corp. Resealable conduit coupling with abutting resilient flange surfaces. 2,937,893, 5-24-60, Cl. 285-328.
- Hill, Joshua A. Egg conveyor. 2,952,350, 9-13-60, Cl. 198-25.
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- Francis, Gerald A., and Underwood. 2,926,843.
- Hill, Milburn. Fire alarm. 2,920,167, 1-5-60, Cl. 200-142.
- Hill, Moore, to James Mackie & Sons Ltd. Gill boxes. 2,938,240, 5-31-60, Cl. 19-129.
- Hill, Oiva E., to Norton Co. Grinding machine. 2,931,145, 4-5-60, Cl. 51-165.
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- O'Brien, George, and Hill. 2,927,005.
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- Kirshenbaum, Isidor, Hinlicky, Arundale, and Hill. 2,958,651.
- Kirshenbaum, Isidor, Hinlicky, Arundale, and Hill. 2,958,652.
- Hill, Ralph W., to Major Engineering Co. System for transferring custody of crude oil and the like. 2,958,217, 11-1-60, Cl. 73-3.
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- Hill, Richard G.: See—
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- Hill, Robert A.: See—
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- Hill, Robert H.: See—
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- Hill, Robert H., to Perfect Circle Corp. Control means for pumping apparatus. 2,940,395, 6-14-60, Cl. 103-25.
- Hill, Robert H., to R. H. Hill, and H. Hoffman. Converter method and apparatus. 2,959,927, 11-15-60, Cl. 62-46.
- Hill, Robert H., to himself and H. Hoffman. Control apparatus. 2,960,099, 11-15-60, Cl. 137-102.
- Hill, Ross W. Storage device for brushes. 2,926,776, 3-1-60, Cl. 206-15.1.
- Hill, Rufus C.: See—
- Janak, John, Humburg, and Hill. 2,930,705.
- Hill, Russell A., 1/2 to R. F. Schultz. Steam engine. 2,951,471, 9-6-60, Cl. 121-165.
- Hill, Rutherford B., and H. M. Leeper, to Monsanto Chemical Co. Increasing effectiveness of amine antioxidants. 2,955,100, 10-4-60, Cl. 260-45.8.
- Hill, Thomas G. Water ski towing device. 2,946,305, 7-26-60, Cl. 114-235.
- Hill, Thomas G., to Lockheed Aircraft Corp. Flexible ducting compensator. 2,942,896, 6-28-60, Cl. 285-228.
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- Hill, Walter P. Horizontal double end machine. 2,929,298, 3-22-60, Cl. 90-11.
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- Hilberg, Ernest T., to United States of America, Army. Pickup vehicle. 2,934,228, 4-26-60, Cl. 214-390.
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- Hiller Aircraft Corp.: See—
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- Hiller, Dale M., to E. I. du Pont de Nemours and Co. Process for the production of refractory metals. 2,943,931, 7-5-60, Cl. 75-84.5.
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- Hillier & Bradsky Co.: *See*—  
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- Hillgren, Carl C., to Hillgren Mfg. Co. Finned latch bolt assembly. 2,961,264, 11-22-60, Cl. 292-164.
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- Hilliard, William A., and L. B. Sadow, to Longines-Wittnauer Watch Co., Inc. Signalling and alarm device. 2,937,271, 5-17-60, Cl. 250-20.
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- Hilliker, Norman W.: *See*—  
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- Hillis, William D. Roller for road surfaces and the like. 2,925,759, 2-23-60, Cl. 94-50.
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- Hillman, James G. E., to Molins Machine Co. Ltd. Apparatus for collecting cigarettes in receptacles. 2,938,317, 5-31-60, Cl. 53-14.8.
- Hillman, Jerry L., and J. F. Horning, to North American Aviation, Inc. Environment excluding vent plug. 2,933,102, 4-19-60, Cl. 137-525.3.
- Hillman, Jerry L., and D. R. Rister, to Aerojet-General Corp. Pressure switch. 2,966,668, 12-27-60, Cl. 340-240.
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- Hilton, Frank E.: *See*—  
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- Himelreich, Louis E., to H. J. Scheirich Co. Means for suspending and guiding cabinet drawers. 2,948,578, 8-9-60, Cl. 312-342.
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- Himka, John, to General Motors Corp. Flipper finger guard. 2,955,871, 10-11-60, Cl. 296-44.
- Himka, John, and F. C. Walther, to General Motors Corp. Vehicle seating arrangement. 2,926,949, 3-1-60, Cl. 296-66.
- Himka, John, and E. R. Howell, Jr., to General Motors Corp. Vehicle seat adjusting mechanism. 2,942,646, 6-28-60, Cl. 155-14.
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- Himmelheber, Max, K. Steiner, and W. Kull, to Allwood Inc. Methods and apparatus for producing pressed wood-particle panels. 2,923,030, 2-2-60, Cl. 18-4.
- Himmeler, Walter, to Gebr. Stollwerck A.G. Method for manufacture of liquid filled hollow chocolate bodies. 2,955,548, 10-11-60, Cl. 107-54.
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- Hindle, Thomas, to Scapa Dryers Inc. Stretching machine for dryer felts and the like. 2,943,375, 7-5-60, Cl. 26-68.
- Hindle, Thomas, and E. Race. Papermakers' dryer felts. 2,934,097, 4-26-60, Cl. 139-383.
- Hindle, Thomas, and E. Race, to Scapa Dryers Ltd. Papermakers' dryer felt. 2,936,796, 5-17-60, Cl. 139-426.
- Hindle, Thomas, S. Lord, and E. Race, to Scapa Dryers Ltd. Papermakers' felts and like industrial woven textile fabrics. 2,949,134, 8-16-60, Cl. 139-426.
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- Hinds, James A., to Parsons Corp. Root retention structure for molded rotor blades. 2,951,541, 9-6-60, Cl. 170-159.
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- Hinebaugh, Myron E.: *See*—  
Huetten, Clarence, and Hinebaugh. 2,931,003.
- Hines, Claude M., to Westinghouse Air Brake Co. Electro-pneumatic and dynamic brake apparatus. 2,933,350, 4-19-60, Cl. 303-3.
- Hines, Frank F., to Baldwin-Lima-Hamilton Corp. Resistance strain gage. 2,920,298, 1-5-60, Cl. 338-3.
- Hines, John E., Jr., and C. J. Welsh, to Union Oil Co. of California. Solids conveyance process and apparatus. 2,958,571, 11-1-60, Cl. 23-1.
- Hines, Marion E., to Bell Telephone Laboratories, Inc. Microwave frequency converter. 2,950,384, 8-23-60, Cl. 250-20.
- Hines, Marion E., and W. E. Kirkpatrick, to Bell Telephone Laboratories, Inc. Narrow band image transmission. 2,929,869, 3-22-60, Cl. 178-6.8.
- Hines, Roger A.: *See*—  
Busse, Warren F., and Hines. 2,957,814.
- Hines, Roger A., and W. F. Busse, to E. I. du Pont de Nemours and Co. Process for modifying polymers and products obtained thereby. 2,961,389, 11-22-60, Cl. 204-154.
- Hing, Leung T. Stoppers for vacuum jars. 2,966,276, 12-27-60, Cl. 215-52.
- Hings, Donald L. Corrosion and abrasion resistant coating and method for making same. 2,927,867, 3-8-60, Cl. 117-75.
- Hingson, Robert A.: *See*—  
Ziherl, Frank A., Kish, and Hingson. 2,944,546.  
Ziherl, Frank A., Kish, and Hingson. 2,944,547.
- Hink, John H., Jr., to Cutter Laboratories. Heat sterilization of iron-binding globulin and adding radioactive iron thereto. 2,955,074, 10-4-60, Cl. 167-74.
- Hink, John H., Jr., to Cutter Laboratories. Heat treatable plasma protein product and method of preparation. 2,958,628, 11-1-60, Cl. 167-74.
- Hinkel, Karl W.: *See*—  
Van de Goor, Johannes A., and Hinkel. 2,932,767.
- Hinkes, Thomas M.: *See*—  
Toy, Arthur D. F., Rattenbury, and Hinkes. 2,946,764.
- Hinkes, Thomas M., to Victor Chemical Works. Stabilized vinyl chloride resins containing alkali metal formates or oxalates. 2,960,490, 11-15-60, Cl. 260-45.85.
- Hinkie, Barton L.: *See*—  
Mitchell, James A., and Hinkle. 2,944,296.



- Minkle, Barton L., and F. C. Stults, to E. I. du Pont de Nemours and Co. Process of producing cellulose film using a flowing coagulating bath. 2,962,766, 12-6-60, Cl. 18-57.
- Hinkle, James O.: *See*—  
Gothie, Walter C., and Hinkle. 2,951,146.
- Hinkle, John M. Glass-sealed resistor. 2,930,018, 3-22-60, Cl. 338-237.
- Hinkle, Murl: *See*—  
Dombeck, Edward K., Hinkle, and Thomas. 2,938,610.
- Hinkle, Raymond H. Bin leveller. 2,963,181, 12-6-60, Cl. 214-17.
- Hinkley, David F., to Merck & Co., Inc. Formation of heterocyclic rings. 2,937,169, 5-17-60, Cl. 260-243.
- Hinkley, David F., and B. Singleton, to Merck & Co., Inc. Oxidation of cholic acid with chlorine. 2,966,499, 12-27-60, Cl. 260-397.1.
- Hinkson, John N.: *See*—  
Welty, Lloyd G., and Hinkson. 2,925,831.
- Hinkson, Robert H., and C. M. Hopkins, to Central Contra Costa Sanitary District. Back water overflow device for sewers. 2,936,775, 5-17-60, Cl. 137-363.
- Hinlicky, John A.: *See*—  
Kirshenbaum, Isidor, Hinlicky, Arundale, and Hill. 2,958,651.
- Kirshenbaum, Isidor, Hinlicky, Arundale, and Hill. 2,958,652.
- Hinman, Charles W.: *See*—  
Gordon, David A., and Hinman. 2,952,661.
- Hinman, Charles W., to The Dow Chemical Co. N-lower-alkyl-N-nitroso-3,5-dinitro-o-toluides. 2,945,062, 7-12-60, Cl. 260-558.
- Hinman, Jack W.: *See*—  
Hoeksema, Herman, Caron, and Hinman. 2,929,821.
- Hinman, Walter L., Jr.: *See*—  
Calhoun, Howard J., and Hinman. 2,945,929.
- Hinman, Wilbur S., Jr., to United States of America, Navy. Circuit controlling means. 2,926,611, 3-1-60, Cl. 102-70.2.
- Hino, Jiro, to Amano Tokushu Kikai Kabushiki Kaisha. Shutter apparatus for cameras. 2,933,995, 4-26-60, Cl. 95-42.
- Hinrichs, Delmer D.: *See*—  
Back, Sangho, Hinrichs, and Wethern. 2,963,395.
- Hinrichs, Karl, to Beckman Instruments, Inc. Relay switching circuit. 2,963,595, 12-6-60, Cl. 307-112.
- Hinrichsen, Hans, and B. R. Weber, to The Fulton Co. Trailer jack and mobile support. 2,920,906, 1-12-60, Cl. 280-475.
- Hinrichsen, Hans, and J. C. Knop, to The Fulton Co. Ball mounting for ball and socket couplings. 2,961,256, 11-22-60, Cl. 280-491.
- Hinsey, Robert S., to The Bingham-Herbrand Corp. Mechanism control. 2,923,168, 2-2-60, Cl. 74-503.
- Hinsey, Robert S., to The Bingham-Herbrand Corp. Mechanism control. 2,923,169, 2-2-60, Cl. 74-531.
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- Hinsey, Robert S., to The Bingham-Herbrand Corp. Mechanism control. 2,963,920, 12-13-60, Cl. 74-531.
- Hinshaw, Mary E. Hospital bed-rail hook. 2,938,696, 5-31-60, Cl. 248-215.
- Hinson, Arthur L.: *See*—  
Greene, Joseph F., and Hinson. 2,947,117.
- Hinson, Jay B. Phosphor bearing surface. 2,950,222, 8-23-60, Cl. 154-120.
- Hintermann, Marcel, and P. Ostermann; said Ostermann assor, to said Hintermann. Apparatus for the production of dental plates and the like from plastic material. 2,948,018, 8-9-60, Cl. 18-57.
- Hinton, Alan V. Bird bath. 2,938,495, 5-31-60, Cl. 119-1.
- Hinton, Charles V., to The Terrell Machine Co. Textile bobbin delivery means. 2,946,467, 7-26-60, Cl. 214-17.
- Hinton, Raymond C. P., and L. C. Deschuytere, to International Telephone and Telegraph Corp. Party line detector system. 2,938,956, 5-31-60, Cl. 179-17.
- Hinton, Raymond C. P., B. Dzula, and A. L. M. Fettweis, to International Telephone and Telegraph Corp. Tape to card converter. 2,945,221, 7-12-60, Cl. 340-347.
- Hinton, Raymond C. P., R. B. Page, and J. P. Larkin, to International Telephone and Telegraph Corp. Error detection systems. 2,950,464, 8-23-60, Cl. 340-172.5.
- Hintze, Rudolf. Motor-compressor. 2,952,400, 9-13-60, Cl. 230-58.
- Hinz, Walter W., P. H. Stansbury, W. M. Parkison, and D. W. Boutwell, to Miller and Poston Mfg. Co. Apparatus for interconnecting malleable tubing and fittings therefor. 2,925,849, 2-23-60, Cl. 153-79.
- Hinz, Werner, and H. Ruckert, to International Standard Electric Corp. Arrangement for detecting characteristic markings on articles. 2,966,594, 12-27-60, Cl. 250-219.
- Hinze, Fritz. Gearing for machine drives. 2,960,891, 11-22-60, Cl. 74-789.
- Hipp, Heinz: *See*—  
Hoelkeskamp, Franz, and Hipp. 2,966,390.
- Hippen, Herman A., to Deere & Co. Vehicle transmission. 2,926,553, 3-1-60, Cl. 74-780.
- Hipperson, Reginald V., to The Plessey Co. Ltd. Electrolytic capacitors. 2,940,021, 6-7-60, Cl. 317-230.
- Hipple, George M., to American Brake Shoe Co. Electric control circuit. 2,943,990, 7-19-60, Cl. 317-123.
- Hipple, George M., to American Brake Shoe Co. Hydraulic control apparatus. 2,956,550, 10-18-60, Cl. 121-38.
- Hipps, Herbert E. Heel pad. 2,926,661, 3-1-60, Cl. 128-80.
- Hipps, Herbert E., and E. J. Kupjack. Chair brace. 2,949,152, 8-16-60, Cl. 155-28.
- Hi-Press Air Conditioning of America, Inc.: *See*—  
Kristiansen, Svend H. 2,955,522.
- Hirata, Yoshimune. Trouser hanger. 2,940,650, 6-14-60, Cl. 223-96.
- Hird, Wilbur E. Multiple golf club head protector. 2,925,840, 2-23-60, Cl. 150-15.
- Hirdler, Richard D., to General Mills, Inc. Capacitance method and apparatus for gaging hole centers. 2,930,976, 3-29-60, Cl. 324-61.
- Hi-Ro Heating Corp.: *See*—  
Galvin, Ralph B. 2,946,510.
- Hirose, Mitsuaki. Apparatus for measuring and indicating the value of a variable physical quantity. 2,930,030, 3-22-60, Cl. 340-187.
- Hirs, Gene. Parts storage apparatus. 2,933,179, 4-19-60, Cl. 198-219.
- Hirsch, Alan J.: *See*—  
Arnold, Charles R., Hirsch, and Plourde. 2,939,153.
- Hirsch, Arthur. Adhesive compositions. 2,950,980, 8-30-60, Cl. 106-125.
- Hirsch, Arthur, to General Gunned Products, Inc. Apparatus for producing reinforced composite layer material. 2,962,080, 11-29-60, Cl. 154-17.
- Hirsch, Benjamin L. and H. Toy hectograph. 2,927,531, 3-8-60, Cl. 101-134.5.
- Hirsch, Charles J.: *See*—  
Hallden, Frederick C., and Hirsch. 2,961,616.
- Hirsch, Charles J., to Hazeltine Research, Inc. Travel instruction apparatus. 2,928,186, 3-15-60, Cl. 35-1.
- Hirsch, Charles J., to Hazeltine Research, Inc. Electrical differentiator. 2,947,480, 8-2-60, Cl. 235-183.
- Hirsch, Charles J., to Hazeltine Research, Inc. Electrical integrator. 2,950,053, 8-23-60, Cl. 235-183.
- Hirsch, Henry: *See*—  
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- Hirsch, Irwin L.: *See*—  
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- Hirsch, Joseph: *See*—  
Peed, Garland P., Jr., and Hirsch. 2,932,224.
- Hirsch, Joseph, and P. H. McCary, to United States of America, Navy. Detachable skid for high speed track carriages. 2,942,557, 6-28-60, Cl. 104-134.
- Hirsch, Marvin E.: *See*—  
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- Ollig, John L., Westerholm, Miller, and Hirsch. 2,953,787.
- Hirsch, Ralph M. Facsimile recording system. 2,951,894, 9-6-60, Cl. 178-5.2.
- Hirsch, Richard A.: *See*—  
Brandes, Roy H., and Hirsch. 2,955,663.
- Brandes, Roy H., Hirsch, and Royer. 2,919,752.
- Flaugh, Oren F., Hirsch, and Mansfield. 2,957,528.
- Hirsch, Ursula: *See*—  
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- Hirschberg, Theodore B., Jr.: *See*—  
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- Hirschburger, Hans, to Zellweger A.G., Apparate- und Maschinenfabriken Uster. Lease bar for orienting warp threads. 2,935,780, 5-10-60, Cl. 28-40.
- Hirschhorn, Isidor S., to Ronson Metals Corp. Mischmetal-magnesium pellets and process for manufacturing the same. 2,961,763, 11-29-60, Cl. 29-528.
- Hirschle, Alfred C.: *See*—  
Berry, Henry E., Hirschle, and Zarabara. 2,947,137.
- Hirschle, Alfred C., to United States of America, Army. Positioning and locking device. 2,925,292, 2-16-60, Cl. 287-52.
- Hirschle, Alfred C., to United States of America, Army. Means for minimizing backlash. 2,962,912, 12-6-60, Cl. 74-409.
- Hirschler, Alfred E., to Sun Oil Co. Catalyst and hydrocarbon conversion therewith. 2,928,785, 3-15-60, Cl. 208-117.
- Hirschler, Alfred E., to Sun Oil Co. Siliceous cracking catalyst with attrition resistant discontinuous glass glaze. 2,958,646, 11-1-60, Cl. 208-118.
- Hirschler, Alfred E., to Sun Oil Co. Cracking catalyst. 2,958,647, 11-1-60, Cl. 208-119.
- Hirschmann, Ralph F.: *See*—  
Bailey, George A., and Hirschmann. 2,932,640.
- Chemerda, John M., Hirschmann, and Steinberg. 2,951,074.
- Christensen, Burton G., Chemerda, and Hirschmann. 2,941,996.
- Christensen, Burton G., and Hirschmann. 2,933,494.
- Christensen, Burton G., and Hirschmann. 2,938,916.
- Christensen, Burton G., Hirschmann, and Putter. 2,932,657.
- Miller, Richard, and Hirschmann. 2,964,540.
- Hirschmann, Ralph F., and R. Miller, to Merck & Co., Inc. Improved process for preparing 11 $\beta$ -hydroxy-fluoro-steroids. 2,924,612, 2-9-60, Cl. 260-397.45.
- Hirschmann, Richard, Radiotechnisches Werk: *See*—  
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- Odenwald, Helmut. 2,932,367.



- Hirschmann, Willy: *See*—  
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- Hirsh, Donald H.: *See*—  
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Montagna, Amelio E., and Hirsh. 2,962,534.
- Hirsh, Joseph J. Method of making closed cell polyvinyl chloride foam. 2,929,793, 3-22-60, Cl. 260-2.5.
- Hirsh, S. A., Mfg. Co.: *See*—  
Handler, Milton E., and Bellon. 2,939,589.
- Hirsh, Stanley A., to Bulova Research and Development Laboratories, Inc. Direct reading frequency meter. 2,938,166, 5-24-60, Cl. 324-73.
- Hirst, Archie J., to Metalastik Ltd. Resilient mountings. 2,930,563, 3-29-60, Cl. 248-204.
- Hirst, Archie J., and J. G. Keith-Hitchens, to Metalastik Ltd. Railway vehicles. 2,954,747, 10-4-60, Cl. 105-196.
- Hirst, Charles M., Jr., to Orscheln Brake Lever Mfg. Co. Brake operating or similar mechanism. 2,928,292, 3-15-60, Cl. 74-503.
- Hirst, John M.: *See*—  
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- Hirt, Rudolf W., to The Wander Co. 2-(3-4-dihydroxyphenylamino)-imidazole hydrochloride and process. 2,938,038, 5-24-60, Cl. 260-309.6.
- Hirtenstein, Max M.: *See*—  
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- Hirtreiter, Walter J., to Cornell Aeronautical Laboratory, Inc. Cyclic motor. 2,965,824, 12-20-60, Cl. 318-37.
- Hi-Shear Rivet Tool Co.: *See*—  
Schuster, Michael M. 2,946,208.  
Schuster, Michael M. 2,955,505.  
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Wing, George S. 2,959,999.
- Hi-Shear Rivet Tool Corp.: *See*—  
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- Hislop, George S., to Fairey Aviation Ltd. Aircraft fins. 2,940,693, 6-14-60, Cl. 244-17.11.
- Hitachi Ltd.: *See*—  
Jin, Minejiro. 2,929,483.  
Tadano, Bunya, Morito, and Kimura. 2,928,004.
- Hitch, Harold R., E. W. Ramsey, and T. W. Richards. Geographic reference converter. 2,940,665, 6-14-60, Cl. 235-70.
- Hitchcock, Guy C. Mold for forming ice liners in containers. 2,961,849, 11-29-60, Cl. 62-355.
- Hitchcock, Leo L. Drilling rig. 2,919,899, 1-5-60, Cl. 255-19.
- Hitchin, Edgar T., and G. V. Greatorex, to British Celanese Ltd. Tension control. 2,930,102, 3-29-60, Cl. 28-59.5.
- Hitchings, George H., and R. K. Robins, to Burroughs Wellcome & Co. (U.S.A.) Inc. Pyrido (2,3-d) pyrimidine compounds and method of making. 2,926,166, 2-23-60, Cl. 260-256.4.
- Hitchings, George H., and G. B. Elion, to Burroughs Wellcome & Co. (U.S.A.) Inc. 7-aminotiazolo-(5, 4-d) pyrimidine. 2,933,498, 4-19-60, Cl. 260-256.5.
- Hitchings, George H., and K. W. Ledig, to Burroughs Wellcome & Co. (U.S.A.) Inc. 2,4-diamino-5,6-dialkylpyrido (2,3-d) pyrimidines and method. 2,937,284, 5-17-60, Cl. 260-256.4.
- Hitchings, George H., E. A. Falco, and K. W. Ledig, to Burroughs Wellcome & Co. (U.S.A.) Inc. Diaminoquinazolines and method of making. 2,945,859, 7-19-60, Cl. 260-256.4.
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- Hitchner, William G., to Kimble Glass Co. Gauging apparatus and method of operation. 2,925,692, 2-23-60, Cl. 51-165.
- Hite, Earl E., to Kaul Clay Co. Apparatus for forming a liner having a resilient ring-shaped gasket anchored therein in the socket of a pipe member. 2,955,322, 10-11-60, Cl. 18-36.
- Hiteman, La Vere A.: *See*—  
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- Hitemp Wires, Inc.: *See*—  
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- Hitov, Joseph J.: *See*—  
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- Hitschfeld, Walter: *See*—  
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- Hitt, Otis D., E. F. Knapp, L. L. Johnson, and R. A. Rosenblum, to The Aro Equipment Corp. Control for power operated tools and the like. 2,924,114, 2-9-60, Cl. 74-472.
- Hitzelberger, Erwin, to Daimler-Benz Aktiengesellschaft. Snap lock. 2,922,297, 1-26-60, Cl. 70-144.
- Hitzelberger, Erwin, to Daimler-Benz Aktiengesellschaft. Door locating means for vehicles. 2,962,750, 12-6-60, Cl. 16-85.
- Hitzl, Harry. Roll film developing machine. 2,946,273, 7-26-60, Cl. 95-99.
- Hivac Ltd.: *See*—  
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- Hi-Voltage Equipment Co., a division of Joslyn Mfg., and Supply Co.: *See*—  
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- Hix, Ira M., to International Business Machines Corp. Record card controlled electrographic printer. 2,927,516, 3-8-60, Cl. 95-1.7.
- Hix, Joseph N., J. E. Cunningham, and G. E. Cooley, to United States of America, Atomic Energy Commission. Fuel element fabrication method. 2,938,846, 5-31-60, Cl. 204-154.2.
- Hixon, Philip E., and E. E. White, to White-Hixon Laboratories, Inc. Photographic print processing equipment. 2,925,767, 2-23-60, Cl. 95-89.
- Hjelm, Karl E. W., and N-E. G. Kuller, to Aktiebolaget Bofors. Fuse for ballistic missile. 2,931,301, 4-5-60, Cl. 102-73.
- Hjelseth, Eilert E., Jr., to Gadget-of-the-Month Club, Inc. Electric clock mounting apparatus. 2,942,227, 6-21-60, Cl. 339-147.
- Hjerberg, Peter G., to Allmanna Svenska Elektriska Aktiebolaget. Protective means for series capacitors on power lines. 2,928,995, 3-15-60, Cl. 317-12.
- Hjerstrand, Svante L., to International Standard Electric Corp. Signalling circuit for high capacity exchange system. 2,962,556, 11-29-60, Cl. 179-18.
- Hnilicka, Milo P., Jr.: *See*—  
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- Hnilicka, Milo P., Jr., to National Research Corp. Production of iron-free zirconium tetrachloride. 2,946,654, 7-26-60, Cl. 23-87.
- Hnizda, Vincent F., to Ethyl Corp. Process for the preparation of cyclopentadienyl manganese tricarbonyl. 2,948,744, 8-9-60, Cl. 260-429.
- Hnkls, Herbert W., to Westinghouse Electric Corp. Diffused transistors and processes for making the same. 2,943,006, 6-28-60, Cl. 143-1.5.
- Hoad, John G.: *See*—  
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- Hoadley, Cyrus E., to Timberline Equipment Co. Shearing head structure. 2,955,631, 10-11-60, Cl. 144-34.
- Hoag, William F., to Phillips Petroleum Co. Transforming liquid to a gas or vapor. 2,960,839, 11-22-60, Cl. 62-52.
- Hoag, William G., and P. Widmer, to General Motors Corp. Telescopic stay for automotive vehicle lift gate and the like. 2,929,528, 3-22-60, Cl. 217-60.
- Hoagland, Kenneth A., to Paramount Pictures Corp. Cathode-ray tube switching grid support system. 2,928,968, 3-15-60, Cl. 313-64.
- Hoagland, Kenneth A., to Paramount Pictures Corp. Grid frame support structures for cathode ray tubes. 2,939-981, 6-7-60, Cl. 313-85.
- Hoagland, Lawrence M. Sock applying device. 2,919,840, 1-5-60, Cl. 223-111.
- Hoagland, Porter, Jr.: *See*—  
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- Hoaglin, Raymond I., and D. H. Hirsh, to Union Carbide Corp. Ether dimerization. 2,935,534, 5-3-60, Cl. 260-615.
- Hoaglin, Raymond I., and D. G. Kubler, to Union Carbide Corp. Beta-alkoxycarbonyl compounds and process for manufacture of same. 2,957,889, 10-25-60, Cl. 260-347.8.
- Hoare, Michael F., B. T. Fowler, and H. G. Krischall, to Esso Research and Engineering Co. Synthetic ester lubricants. 2,956,954, 10-18-60, Cl. 252-57.
- Hoban, Albert J. Rosary bead unit. 2,956,349, 10-18-60, Cl. 35-23.
- Hoban, John T.: *See*—  
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- Hobart Brothers Co., The: *See*—  
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Hobart, Edward A. 2,966,262.
- Hobart, Edward A., to The Hobart Brothers Co. Apparatus for distributing and separating ore. 2,938,627, 5-31-60, Cl. 209-157.
- Hobart, Edward A., to The Hobart Brothers Co. Method and apparatus for separating ores. 2,966,262, 12-27-60, Cl. 209-13.
- Hobart Mfg. Co., The: *See*—  
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Allen, Kenneth C. 2,926,295.  
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Allen, Kenneth C. 2,948,465.  
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- Hobbie, Albert C., and J. W. Holdcraft, to Pittsburgh Plate Glass Co. Apparatus and method for packing pulverulent material. 2,946,357, 7-26-60, Cl. 141-5.
- Hobbins, James F. Method and apparatus for compressing an article. 2,931,075, 4-5-60, Cl. 19-144.5.
- Hobbs, Charles A.: *See*—  
Sellman, Albert H., Park, Wallace, and Hobbs. 2,958,281.
- Hobbs, Edwin D., to J. Stone & Co. (Deptford) Ltd. Generating control systems. 2,958,034, 10-25-60, Cl. 322-25.
- Hobbs, Fred J., to The Barr Rubber Products Co. Boat fender. 2,956,530, 10-18-60, Cl. 114-219.
- Hobbs, George W., to General Electric Co. Radix converter. 2,940,669, 6-14-60, Cl. 235-155.
- Hobbs, Harry J. Electric shaver. 2,966,572, 12-27-60, Cl. 219-19.
- Hobbs, Howard F., to Hobbs Transmission Ltd. Power transmission apparatus. 2,920,499, 1-12-60, Cl. 74-472.
- Hobbs, John F., and T. Thorley, to Imperial Chemical Industries Ltd. Continuous casting of metals. 2,949,652, 8-23-60, Cl. 22-57.2.



- Hobbs, Norman L., and A. L. Monaco, to American Home Products Corp. Therapeutic candy-like product and its preparation. 2,926,121, 2-23-60, Cl. 167-82.
- Hobbs Transmission Ltd.: See—
- Hobbs, Howard F.: 2,920,499.
- Hobbs, Walter B., Jr.: See—
- Brink, Carl W., Jr., and Hobbs. 2,921,749.
- Hobel, William J. Turntable. 2,952,221, 9-13-60, Cl. 104-41.
- Hoberg, George G.: See—
- Einhorn, Sidney N., Hoberg, Paivinen, and Weise. 2,932,011.
- Hoberg, George G., to Burroughs Corp. Matrix system. 2,932,008, 4-5-60, Cl. 340-174.
- Hoberg, George G., W. W. Deighton, and M. A. Rosander, to Burroughs Corp. Electrical pin board cross connecting device. 2,922,135, 1-19-60, Cl. 339-18.
- Hobley, Peter. Aircraft landing system. 2,939,652, 6-7-60, Cl. 244-77.
- Hobourn Aero Components Ltd.: See—
- Tully, John A.: 2,923,121.
- Hobourn-F.N.F. Ltd.: See—
- Porter, Allan W. H.: 2,957,326.
- Porter, Allan W. H.: 2,959,948.
- Hobrough, Gilbert L., to The Photographic Survey Corp. Ltd. Thyatron modulator for short pulse radar and the like. 2,955,263, 10-4-60, Cl. 331-87.
- Hobrough, Gilbert L., to Hunting Survey Corp. Ltd. Image inspecting system and method. 2,964,639, 12-13-60, Cl. 250-217.
- Hobrough, Gilbert L., to Hunting Survey Corp. Ltd. Methods and apparatus for correlating corresponding points in two images. 2,964,642, 12-13-60, Cl. 250-220.
- Hobrough, Gilbert L., to Hunting Survey Corp. Ltd. Random scanning method and system for identifying corresponding detail in two stereo images. 2,964,643, 12-13-60, Cl. 250-220.
- Hobrough, Gilbert L., to Hunting Survey Corp. Ltd. Method and apparatus for locating corresponding areas of two similar images. 2,964,644, 12-13-60, Cl. 250-220.
- Hobrough, Gilbert L., and W. V. O'Leary, to The Photographic Survey Corp. Ltd. Echo quality indicator and method for radar systems using centre reference pulses. 2,923,003, 1-26-60, Cl. 343-13.
- Hobson, Carroll D., to Goshen Rubber Co., Inc. Apparatus for molding flashless rubber articles. 2,962,761, 12-6-60, Cl. 18-42.
- Hobson, Charles F., Jr., to General Electric Co. Electric circuit breaker. 2,939,929, 6-7-60, Cl. 200-88.
- Hobson, Clifford D., and J. M. Live bait tank. 2,966,002, 12-27-60, Cl. 45-55.
- Hobson, Eric D., to Yarrow and Co. Ltd., and Andre Rubber Co. Ltd. Means for emptying liquid from tanks. 2,939,481, 6-7-60, Cl. 137-590.
- Hobson, Frank E., to P. D. & P. Processing Inc. Fractional distillation of volatiles from solids. 2,947,670, 8-2-60, Cl. 202-22.
- Hobson, H. M., Ltd.: See—
- Greenland, Leonard S., McCourty, and Edwards. 2,935,078.
- Greenland, Leonard S., Westbury, and Smith. 2,936,976.
- McCourty, William D.: 2,954,039.
- Mott, Lawrence F.: 2,923,159.
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- Westbury, Roy.: 2,939,430.
- Westbury, Roy.: 2,946,194.
- Westbury, Roy, and Smith.: 2,921,562.
- Westbury, Roy, and Smith.: 2,935,276.
- Hobson, John P.: See—
- McNarry, Leon R., and Hobson. 2,958,774.
- Hobson, Judson M.: See—
- Hobson, Clifford D., and J. M.: 2,966,002.
- Hobson, Lloyd H., to Plastering Development Center, Inc. Valve. 2,949,928, 8-23-60, Cl. 137-454.2.
- Hobson, Patrick H.: See—
- De Witt, Hobson D., and Hobson. 2,946,760.
- Hobson, Patrick H., to The Chemstrand Corp. Composition containing blend of acrylonitrile copolymers and chlorine-containing polymer. 2,949,437, 8-16-60, Cl. 260-45.5.
- Hoch, Edmund T. Portable greenhouse. 2,963,819, 12-13-60, Cl. 47-17.
- Hoch, Fritz, to Gutos Metallschliessen-Fabrik Bader & Hoch Kommanditgesellschaft. Hook-and-eye closing means for the waistbands of trousers or the like. 2,923,044, 2-2-60, Cl. 24-227.
- Hoch, Paul E., and J. M. Clegg; said Hoch assor. to Hooker Chemical Corp. Adduct of hexachlorocyclopentadiene with 1,4-dichlorobutylene-2. 2,951,098, 8-30-60, Cl. 260-648.
- Hoch, Paul E., to Hooker Chemical Corp. 1,4,5,6,7,7-hexachloro-2,3-bis(bromomethyl)-bicyclo (2,2,1)-heptadiene-2,5''. 2,951,099, 8-30-60, Cl. 260-648.
- Hoch, Robert S.: See—
- Bobo, Roy A., and Hoch. 2,933,820.
- Hoch, Winton C., to Cinerama, Inc. Multiplex camera for photographing adjacent scenes on separate image recording means. 2,927,508, 3-8-60, Cl. 88-166.
- Hoch, Winton C., to Cinerama, Inc. Means for producing a picture comprising a plurality of adjacent images. 2,931,267, 4-5-60, Cl. 88-16.6.
- Hochanadel, Clarence J.: See—
- Allen, Augustine O., and Hochanadel. 2,937,981.
- Hochdruck-Dichtungs-Fabrik Schmitz & Schulte: See—
- Liecke, Hans, and Hesse. 2,953,346.
- Hochgraf, Lester, to Bell Telephone Laboratories, Inc. Reduction of transmission loss in bridged subscriber loops. 2,924,667, 2-9-60, Cl. 179-35.
- Hochgraf, Norman N., to Esso Research and Engineering Co. Acetylene removal from hydrocarbon streams. 2,963,523, 12-6-60, Cl. 260-681.5.
- Hochheiser, Jerome S.: See—
- Bjong, Leo V., Schafer, and Hochheiser. 2,937,518.
- Hochman, Lillian. Laundering device. 2,953,828, 9-27-60, Cl. 24-17.
- Hochmuth, Frank W., to Combustion Engineering, Inc. Chemical recovery unit. 2,936,215, 5-10-60, Cl. 23-48.
- Hochmuth, Frank W., to Combustion Engineering, Inc. Superheater for chemical recovery unit. 2,960,390, 11-15-60, Cl. 23-277.
- Hochmuth, Gordon H.: See—
- Davis, Jacob M., and Hochmuth. 2,958,753.
- Hochstadt, Harold R., and E. R. Lieberman, to Ethicon, Inc. Collagen article and the manufacture thereof. 2,920,000, 1-5-60, Cl. 106-161.
- Hochstein, Francis A., and R. L. Miller, to Chas. Pfizer & Co., Inc. Viomycin. 2,920,998, 1-12-60, Cl. 167-65.
- Hochtlen, August: See—
- Brochhagen, Franzkarl, Hochtlen, and Weinbrenner. 2,921,915.
- Hochwald, Walter: See—
- Triman, Eugene L., and Hochwald. 2,923,471.
- Hochwalt, Carroll A., to Monsanto Chemical Co. Water-soluble fluorescent dye-coated hydrophobic silica and process of making the same. 2,935,481, 5-3-60, Cl. 252-301.3.
- Hock, Alvin, and C. Rechin, to Brighton Corp. Hop strainer. 2,919,806, 1-5-60, Cl. 219-414.
- Hock, Fromund, to Ernst Leitz G.m.b.H. Photometric apparatus compensated for fluctuations in light source intensity. 2,939,361, 6-7-60, Cl. 88-14.
- Hock, Heinrich, and H. Kropf, to Ruhrchemie Aktiengesellschaft. Autoxidation processes using metal phthalocyanines as catalysts. 2,954,405, 9-27-60, Cl. 260-610.
- Hock, Josef, F. B. Schippl, and F. A. J. Baumann, to Zahnradfabrik Friedrichshafen. Delay action pressure bypass systems and valves therefor for hydraulic transmissions. 2,935,999, 5-10-60, Cl. 137-468.
- Hockert, Chester E., and L. R. Smith, to General Motors Corp. Blade retaining means. 2,935,296, 5-3-60, Cl. 253-77.
- Hockert, Chester E., and L. R. Smith, to General Motors Corp. Segmented stator ring assembly. 2,945,673, 7-19-60, Cl. 253-78.
- Hockert, Warren L.: See—
- Newcomb, Avon L., and Hockert. 2,941,657.
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- Aberer, Frank E.: 2,947,434.
- Aberer, Frank E.: 2,951,670.
- Hocking, Charles H.: See—
- Miller, Raymond G., and Hocking. 2,949,024.
- Hodapp, Emil: See—
- Sernitz, Paul, and Hodapp. 2,944,099.
- Hodder, Wayne K., to Hughes Aircraft Co. Signal conversion system. 2,929,928, 3-22-60, Cl. 250-27.
- Hodder, Wayne K., to Consolidated Electrodynamics Corp. Transistor switch. 2,952,785, 9-13-60, Cl. 307-88.5.
- Hodek, Jiri G., to Sperry Rand Corp. Control means for vehicle. 2,935,892, 5-10-60, Cl. 74-480.
- Hodel, Ernst: See—
- Barry, Vincent C., Belton, Conalty, Twomey, O'Sullivan, and Hodel. 2,943,089.
- Barry, Vincent C., Belton, Conalty, Twomey, O'Sullivan, and Hodel. 2,946,792.
- Barry, Vincent C., Belton, Conalty, Twomey, O'Sullivan, and Hodel. 2,948,726.
- Hodes, William, to Standard Oil Co. 3,3-bis (p-hydroxyphenyl)-6-carboxyphthalide. 2,933,507, 4-19-60, Cl. 260-343.4.
- Hodge, Edward B.: See—
- Bennett, Edward O., and Hodge. 2,947,691.
- Hodge, James, to Power Jets (Research & Development) Ltd. Gas turbine-driven plant. 2,955,421, 10-11-60, Cl. 60-39.16.
- Hodge, John E., to United States of America, Agriculture Novel reductones and methods of making them. 2,936,308, 5-10-60, Cl. 260-211.
- Hodge, William F., to General Electric Co. Tubular incandescent lamp device. 2,945,978, 7-19-60, Cl. 313-279.
- Hodge, Walter D.: See—
- Bolling, Glen L., and Hodge. 2,930,043.
- Hodges, David J.: See—
- Griffin, Gerald J., Jr., Watson, Miglore, and Hodges. 2,930,933.
- Hodges, Hato R., and F. J. Schnell. Mobile antenna structure. 2,961,657, 11-22-60, Cl. 343-714.
- Hodges, Hayden D.: See—
- Godbey, John K., and Hodges. 2,955,463.
- Hodges, James W., to Sun Oil Co. Means for reducing liquid level in well tubing. 2,920,764, 1-12-60, Cl. 210-429.
- Hodges, James W., to Sun Oil Co. High-low automatic shut-off valve. 2,942,618, 6-28-60, Cl. 137-458.
- Hodges, Lawrence H., to J. I. Case Co. Agricultural press drill. 2,924,188, 2-9-60, Cl. 111-62.
- Hodges, Merwyn E., to General Electric Co. Electronic relay. 2,939,088, 5-31-60, Cl. 331-66.



- Hodges, Merwyn E., and N. A. Koss, to General Electric Co. Electric phase discriminator. 2,922,109, 1-19-60, Cl. 324-87.
- Hodges Research and Development Co.: *See*—  
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- Hodges, Wetmore, Jr., and W. H. Moranda, to Locomotion Engineering, Inc. Fifth-wheel coupler for truck-trailer combination. 2,925,286, 2-16-60, Cl. 280-434.
- Hodgin, Charles L., 50% to L. Galbreth. Shoe brushing device. 2,962,744, 12-6-60, Cl. 15-161.
- Hodgins, George R., E. Di Cyan, and R. Timmerman, to Litho Chemical and Supply Co. Inc. Removal of metal ions from gum arabic. 2,950,195, 8-23-60, Cl. 96-93.
- Hodgins, Theodore S.: *See*—  
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- Hodgkinson, Peter R.: *See*—  
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- Hodgson, Alfred W., to Westinghouse Electric Corp. Contactor. 2,942,080, 6-21-60, Cl. 200-106.
- Hodgson, George T., Jr., and R. C. Wells, to Cataphote Corp. Retroreflecting surface. 2,948,191, 8-9-60, Cl. 88-82.
- Hodgson, Glen R., to Borg-Warner Corp. Expendable shaped explosive charge well casing perforating apparatus. 2,957,414, 10-25-60, Cl. 102-20.
- Hodgson, Howard E., to Cutler-Hammer, Inc. Electromagnetic brake. 2,925,153, 2-16-60, Cl. 188-171.
- Hodgson, John D., and G. Dobson, to The De Havilland Engine Co. Ltd. Starting apparatus for gas turbines. 2,962,859, 12-6-60, Cl. 60-39.14.
- Hodgson, Kenneth G., and D. L. Thomas, to International Standard Electric Corp. Electric carrier current communication systems. 2,960,573, 11-15-60, Cl. 179-15.
- Hodgson, Leonard L. Mounting device for outlet boxes. 2,962,281, 11-29-60, Cl. 269-190.
- Hodgson, Robert F., to The New York Air Brake Co. Pump. 2,923,248, 2-2-60, Cl. 103-126.
- Hodgson, Robert M. Baby bottle holder. 2,953,338, 9-20-60, Cl. 248-106.
- Hodkin, David, to Engineering Research and Application Ltd. Controlled governors. 2,939,401, 6-7-60, Cl. 103-96.
- Hodkin, David, to Engineering Research and Application Ltd. Internal combustion engines. 2,944,534, 7-12-60, Cl. 123-41.31.
- Hodkin, David, to Engineering Research and Application Ltd. Internal combustion engines. 2,946,322, 7-26-60, Cl. 121-194.
- Hodkin, David, to Engineering Research and Application Ltd. Internal combustion engines. 2,959,163, 11-8-60, Cl. 123-41.42.
- Hodkin, David, to Engineering Research and Application Ltd. Suspension means for motor vehicles. 2,964,330, 12-13-60, Cl. 280-96.2.
- Hodkin, Richard K., to Engineering Research and Application Ltd. Control apparatus for variable ratio power transmission means. 2,922,312, 1-26-60, Cl. 74-336.5.
- Hodkin, Richard K., to Engineering Research & Application Ltd. Power transmission means and means for effecting change of ratio. 2,929,260, 3-22-60, Cl. 74-473.
- Hodkinson, Harold, to Dunlop Rubber Co. Ltd. Disc brake. 2,937,723, 5-24-60, Cl. 188-73.
- Hodne, Ingard B., to Teletype Corp. Latching means for teletypewriter carriage. 2,963,546, 12-6-60, Cl. 178-23.
- Hodnfield, Olaus T., 50% to K. O. Anderson. Fire retardant composition comprising gilsonite, mineral filler and fatty acid soap. 2,940,942, 6-14-60, Cl. 260-6.
- Hodock, James A.: *See*—  
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- Hodsmann, George F., and F. A. Chappell, to L. Oertling, Ltd. Analytical or fine balances. 2,950,099, 8-23-60, Cl. 265-54.
- Hodson, Peter, to APRA Precipitator Corp. Purge system for electrostatic precipitator. 2,936,042, 5-10-60, Cl. 183-7.
- Hodson, Waldo G., W. E. Peterson, H. H. Kenkel, J. J. Hagopian, and S. R. Hennies, to Northrop Corp. Control pulse generating means for radio control systems. 2,939,020, 5-31-60, Cl. 307-132.
- Hoe, R., & Co., Inc.: *See*—  
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- Hoecker, Frank E., and H. L. Hiebert; said Hiebert assor. to said Hoecker. Dosimeter. 2,962,592, 11-29-60, Cl. 250-83.
- Hoefler, Hans W.: *See*—  
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- Hoefler, William G., and D. H. Kuhn, to United States of America, Army. Monopulse radar system. 2,934,757, 4-26-60, Cl. 343-16.
- Hoefgen, Kurt, J. Mynar, Jr., and R. O. Warner, to General Motors Corp. Dispensing head for spacer material. 2,935,273, 5-3-60, Cl. 242-67.2.
- Hoefle, Milton L., to General Aniline & Film Corp. Anthraquinone dyestuffs. 2,953,421, 9-20-60, Cl. 8-25.
- Hoefle, Milton L., and R. W. Wynn, to General Aniline & Film Corp. 2-methyl 2,3-dihydrobenzofuran carboxylic acids and acid halides. 2,937,188, 5-17-60, Cl. 260-346.2.
- Hoefle, Milton L., D. I. Randall, and E. E. Renfrew, to General Aniline & Film Corp. Anthraquinone dyestuffs. 2,945,867, 7-19-60, Cl. 260-380.
- Hoefle, Milton L., and R. F. Meyer, to Parke, Davis & Co. Pyrimidine compounds and means of producing the same. 2,949,466, 8-16-60, Cl. 260-256.4.
- Hoefinger, William P.: *See*—  
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- Hoegaanes Sponge Iron Corp.: *See*—  
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- Hoegh, Roy A., to Mecil Plating Equipment Co. Apparatus for plating articles and method of making same. 2,956,943, 10-18-60, Cl. 204-213.
- Hoehn, Gustave L., Jr.: *See*—  
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- Hoehn, Willard M.: *See*—  
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- Hoehn, Willard M., to G. D. Searle & Co. 2,3,17-trihydroxy-estra-1,3,5(10)-triene ethers and esters. 2,945,868, 7-19-60, Cl. 260-397.5.
- Hoehn, Willard M., to G. D. Searle & Co. 17-oxygenated 1-alkoxy-4-methylestra-1,3,5(10)-trien-16-ones and intermediates. 2,957,011, 10-18-60, Cl. 260-397.4.
- Hoekje, Howard H., to Columbia-Southern Chemical Corp. Sodium dichromate production. 2,931,704, 4-5-60, Cl. 23-56.
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- Hoeksema, Herman, E. L. Caron, and J. W. Hinman, to The Upjohn Co. 3-amino-4,7-dihydroxy-8-methylcoumarin and amide derivatives thereof. 2,929,821, 3-22-60, Cl. 260-343.2.
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- Hoekstra, Gerrit D. A., to "N.V. Nederlandsche Röntgen-Apparatenfabriek" Installations for making X-ray photographs. 2,936,376, 5-10-60, Cl. 250-103.
- Hoekstra, Harold D. Take-off safety indicator. 2,922,982, 1-26-60, Cl. 340-27.
- Hoekstra, Jacob S., and H. J. M. Verschure. Device for the manufacture of shells for the shell moulding method. 2,962,774, 12-6-60, Cl. 22-33.
- Hoekstra, James: *See*—  
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- Hoekstra, James, to Universal Oil Products Co. Recovery of noble metals from catalytic composites. 2,945,757, 7-19-60, Cl. 75-121.
- Hoekstra, James, and E. Michalko, to Universal Oil Products Co. Recovery of platinum from deactivated catalytic composites. 2,950,965, 8-30-60, Cl. 75-121.
- Hoekstra, Sjoerd J., to American Enka Corp. Apparatus for controlling twisted yarn. 2,965,330, 12-20-60, Cl. 242-128.
- Hoel, Archie B., to Sun Oil Co. Rubber compositions containing hydrogenated mineral oil and method of preparation. 2,945,833, 7-19-60, Cl. 260-33.6.
- Hoelkeskamp, Franz: *See*—  
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- Hoelkeskamp, Franz, and H. Hipp, to J. P. Bemberg, Aktiengesellschaft. Process for the production of etched textile material containing synthetic cellulose fibers. 2,966,390, 12-27-60, Cl. 18-54.
- Hoelle, James C., to Tokheim Corp. Fuel pump mounting. 2,963,203, 12-6-60, Cl. 222-333.
- Hoellerich, John L., G. J. Reichl, and W. H. Summerer, to Admiral Corp. Antenna mounting. 2,930,038, 3-22-60, Cl. 343-702.
- Hoeltje, Frederick W.: *See*—  
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- Hoeltje, Frederick W., to General Motors Corp. Bearing oil scavenger. 2,929,663, 3-22-60, Cl. 308-187.
- Hoelzer, Bruce. Craftsman's adjustable pry bar. 2,921,773, 1-19-60, Cl. 254-129.
- Hoelzer, Russell L., and G. H. Lacy, to The Dow Chemical Co. Packaging method. 2,962,843, 12-6-60, Cl. 53-20.
- Hoelzle, Eugene C., to General Dynamics Corp. Chemical milling control. 2,933,675, 4-19-60, Cl. 324-30.
- Hoen, Kenneth H., and B. D. Langtry, to The Eimco Corp. Pressure fluid control system. 2,951,343, 9-6-60, Cl. 60-97.
- Hoepfel, Raymond W., to Sespe Laboratories. Oil base drilling and fracturing fluid. 2,965,566, 12-20-60, Cl. 252-8.5.
- Hoepfel, Raymond W., and W. G. Thiele. Measuring device. 2,923,250, 2-2-60, Cl. 103-148.
- Hoepfner, Conrad H., to United States of America, Navy. F.M. to binary code telemetering receiver. 2,950,471, 8-23-60, Cl. 340-347.
- Hoepfner, Conrad H., and C. H. Smith, Jr. Time base control circuit. 2,925,491, 2-16-60, Cl. 250-27.



- Hoepfner, Ernst: *See*—  
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- Hoern & Dits, Inc.: *See*—  
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- Hoern & Dits Division of The Britain Machine Co.: *See*—  
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- Hoern, Joseph H., to Saginaw Wire Products Inc. Wire forming machines. 2,930,412, 3-29-60, Cl. 140-71.
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- Hoesch, Robert. Vibratory material comminutor. 2,922,588, 1-26-60, Cl. 241-46.
- Hoeselbarth, Frank W. E., to C. H. Masland & Sons. Pile fabric. 2,929,413, 3-22-60, Cl. 139-406.
- Hoeselbarth, Frank W. E., to C. H. Masland & Sons. Split draw. 2,932,328, 4-12-60, Cl. 139-403.
- Hoey, Raymond M., to The Kendall Co. Adhesive bandage envelope. 2,924,331, 2-9-60, Cl. 206-63.2.
- Hofbauer, Hans. Ever-ready case for photographic cameras. 2,922,452, 1-26-60, Cl. 150-52.
- Hofbauer, Ivo, G. Sebor, K. Beran, and J. Novák. Method of preventing the outbreak of endogenous mine fires. 2,924,279, 2-9-60, Cl. 169-1.
- Hofer, Bruno, and W. Stoll, to Geigy Chemical Corp. Cyclo-alkanol derivatives. 2,955,139, 10-4-60, Cl. 260-617.
- Hofer, Bruno, and W. Stoll, to Geigy Chemical Corp. Bistertiary glycols. 2,955,140, 10-4-60, Cl. 260-635.
- Hofer, Kurt, to Saul & Co., as nominee of Fidelity Union Trust Co. executive trustee under Sandoz Trust. Wetting agents for aqueous alkalizing liquids. 2,925,316, 2-16-60, Cl. 8-127.
- Hofer, Rudolf, to Siemens and Halske Aktiengesellschaft. Amplitude modulation with linear frequency characteristic. 2,960,669, 11-15-60, Cl. 332-63.
- Hoff, Harry J. and S. J., to Hoffco, Inc. Chain saw bar construction. 2,948,309, 8-9-60, Cl. 143-32.
- Hoff, Jean M., to Wyandotte Chemicals Corp. Continuous process for producing sodium bicarbonate slurry. 2,942,942, 6-28-60, Cl. 23-65.
- Hoff, Melvern C.: *See*—  
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- Hoff, Melvern C., and D. A. McCaulay, to Standard Oil Co. Production of para xylene. 2,954,414, 9-27-60, Cl. 260-671.
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- Hoffer, Arnold H., to Rogers Brothers Corp. Heavy duty trailer with bogey assembly having caster wheels. 2,919,928, 1-5-60, Cl. 280-81.
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- Hoffer, Max, to Hoffmann-La Roche Inc. N<sup>4</sup>-aminoacetyl-, N<sup>4</sup>-lower alkylaminoacetyl- and N<sup>4</sup>-di-lower alkylaminoacetyl-6-sulfamido 2,4-dimethoxypyrimidines. 2,947,743, 8-2-60, Cl. 260-239.75.
- Hoffer, Max, to Hoffmann-La Roche Inc. Synthesis of 3,5-diaroyl-2-deoxy-D-ribofuranosyl ureas. 2,949,449, 8-16-60, Cl. 260-210.
- Hoffer, Max, to Hoffmann-La Roche Inc. Preparation of thymidine and deoxyfluorouridine, and intermediates therefor. 2,949,451, 8-16-60, Cl. 260-211.5.
- Höfgen, Fritz, to Heinrich Sudhaus Sohne. Lock for brief-cases and the like. 2,947,161, 8-2-60, Cl. 70-67.
- Hofknecht, Frank J. Gate valve for irrigation pipes. 2,940,723, 6-14-60, Cl. 251-147.
- Hofler, Fred E. Apparatus for manufacturing laminated furring nail spacers. 2,920,680, 1-12-60, Cl. 154-1.
- Hoffman-Allen Corp.: *See*—  
 Allen, Albert S. 2,966,269.
- Hoffman, Arthur C.: *See*—  
 Harza, Leroy F. 2,937,065.
- Hoffman Candy Co.: *See*—  
 Hoffman, Richard L. 2,952,352.
- Hoffman, Carl R.: *See*—  
 Detrick, Judson N., Hoffman, and Malzahn. 2,929,569.
- Folkers, Karl A., and Hoffman. 2,962,519.
- Holly, Frederick W., Wagner, Walton and Hoffman. 2,924,616.
- Hoffman, Charles P., to United States of America, Navy. Apparatus for eliminating second time around echos. 2,933,700, 4-19-60, Cl. 332-5.
- Hoffman, Donald B.: *See*—  
 Weber, William C., and Hoffman. 2,921,471.
- Hoffman, Donald E.: *See*—  
 Kelly, Kenneth L., and Hoffman. 2,943,834.
- Hoffman, Edward: *See*—  
 Hoffman, John V. and E. 2,923,054.
- Hoffman, Edward J.: *See*—  
 Thorpe, Charles L., Heinrich, Hoffman, and Anderson. 2,950,242.
- Hoffman Electronics Corp.: *See*—  
 Buie, James L. 2,947,863.
- Carlson, David G. 2,957,119.
- Carpenter, Frank C., Jr. 2,948,894.
- Dickson, Donald C., Jr. 2,938,938.
- Dickson, Donald C., Jr. 2,963,390.
- Regnier, Norman J., Schmidt, and Kefes. 2,946,945.
- Shaffer, Marlin R., and Weisbrich. 2,951,163.
- Textrom, Ralph. 2,922,212.
- Hoffman, Frank D., Jr., to General Steel Products Co., Inc. Reclining chair with frictional resistance adjustment. 2,942,650, 6-28-60, Cl. 155-106.
- Hoffman, Frank D., Jr., to General Steel Products Co., Inc. Reclining chair. 2,943,670, 7-5-60, Cl. 155-106.
- Hoffman, Frank D., Jr., and N. W. Mizelle, to General Steel Products Co., Inc. Reclining chair. 2,964,095, 12-13-60, Cl. 155-105.
- Hoffman, Frank E., to E. I. du Pont de Nemours and Co. Process for treating film. 2,941,255, 6-21-60, Cl. 18-57.
- Hoffman, George R.: *See*—  
 Kilburn, Tom, and Hoffman. 2,945,214.
- Kilburn, Tom, and Hoffman. 2,958,074.
- Williams, Frederic C., Kilburn, and Hoffman. 2,932,763.
- Hoffman, George R., and R. E. Hayes, to National Research Development Corp. Electro-luminescent display devices. 2,947,912, 8-2-60, Cl. 315-169.
- Hoffman, Harold: *See*—  
 Hill, Robert H. 2,959,927.
- Hill, Robert H. 2,960,099.
- Hoffman, Harold. Key rack. 2,962,168, 11-29-60, Cl. 211-59.
- Hoffman, Harry, Jr., to International Business Machines Corp. Multiple section memory. 2,950,467, 8-23-60, Cl. 340-174.
- Hoffman, Henry C., Jr.: *See*—  
 Nikirk, Harry S., and Hoffman. 2,962,587.
- Hoffman, Herbert N., to General Electric Co. Thrust transmitting flexible coupling. 2,964,929, 12-20-60, Cl. 64-9.
- Hoffman, Herbert O., and F. H. Weber, to The Faultless Rubber Co. Bottle stopple. 2,927,709, 3-8-60, Cl. 215-47.
- Hoffman, Howard D.: *See*—  
 Caspar, John, and Hoffman. 2,959,000.
- Graefe, Albert D., Hoffman, and Schaffer. 2,934,898.
- Hoffman, Howard E.: *See*—  
 Bousquet, Euclid W., and Hoffman. 2,927,027.
- Hoffman, Howard H., to Southern Shoe Machinery Co. Shaping machine for use in shoe manufacturing, etc. 2,948,002, 8-9-60, Cl. 12-97.
- Hoffman, James: *See*—  
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- Hoffman, James P., to Sun Oil Co. Obtaining neutral distillates from petroleum. 2,944,014, 7-5-60, Cl. 208-263.
- Hoffman, John R., and R. E. Carlson. Aerial navigation aid. 2,962,706, 11-29-60, Cl. 343-6.
- Hoffman, John V. and E. Tappet tool. 2,923,054, 2-2-60, Cl. 29-270.
- Hoffman, Joseph G., to United States of America, Navy. Automatic bias shift circuit. 2,921,203, 1-12-60, Cl. 250-214.
- Hoffman, Joseph G., to United States of America, Navy. Signal translating system. 2,927,214, 3-1-60, Cl. 250-214.
- Hoffman, Kenneth R., and M. E. Nelson, to Dow Corning Corp. Organosiloxane resin compositions and glass laminates impregnated therewith. 2,934,464, 4-26-60, Cl. 154-43.
- Hoffman, Lewis C., to E. I. du Pont de Nemours and Co. Vitreous enamel frit. 2,930,713, 3-29-60, Cl. 117-70.
- Hoffman, Lewis C., to E. I. du Pont de Nemours and Co. Thermofluid vehicles. 2,950,209, 8-23-60, Cl. 106-230.
- Hoffman, Lewis C., to E. I. du Pont de Nemours and Co. Thermofluid vehicles. 2,965,509, 12-20-60, Cl. 106-230.
- Hoffman, Lewis C., to E. I. du Pont de Nemours and Co. Electroluminescent vitreous enamel and lamp. 2,965,784, 12-20-60, Cl. 313-108.
- Hoffman, Manfred T. Elastic non-woven fabric. 2,951,278, 9-6-60, Cl. 28-79.
- Hoffman, Mark I., and E. A. Atilano, to North American Aviation, Inc. Ullage compensators for pressurizing systems. 2,955,649, 10-11-60, Cl. 153-50.1.
- Hoffman, Marsh E. Fish net. 2,939,239, 6-7-60, Cl. 43-12.
- Hoffman, Mary V., to General Electric Co. Preparation of luminescent material. 2,957,829, 10-25-60, Cl. 252-301.6.
- Hoffman, Norman E., to AMP Inc. Crimping methods and apparatus. 2,963,147, 12-20-60, Cl. 153-1.
- Hoffman, Paul H., to Fiber Glass Plastic, Inc. Plastic corrugating process and machine. 2,939,509, 6-7-60, Cl. 154-30.
- Hoffman, Paul R., to Burroughs Corp. Storage, interpreting and printing machine. 2,950,347, 8-23-60, Cl. 178-23.
- Hoffman, Paul R., to Burroughs Corp. Record scanning and decoding apparatus. 2,954,923, 10-4-60, Cl. 235-61.11.
- Hoffman, Paul R., H. E. Kelchner, F. H. Moore, Jr., and E. A. Fricke, Jr., to Burroughs Corp. Printing mechanism. 2,949,846, 8-23-60, Cl. 101-93.



- Hoffman, Richard L., to Hoffman Candy Co. Cup conveyor. 2,952,352, 9-13-60, Cl. 198-185.
- Hoffman, Robert B., to Gad-get-of-The-Month Club, Inc. Car handbrake locking device. 2,963,896, 12-13-60, Cl. 70-181.
- Hoffman, Robert L., to Cross Paper Products Corp. Sifter box and sifter unit therefor. 2,928,577, 3-15-60, Cl. 222-555.
- Hoffman, Robert W.: See—  
Trickett, Marion C. 2,933,976.
- Hoffman, Robert W. Baiting station for rats, mice, etc. 2,964,871, 12-20-60, Cl. 43-131.
- Hoffman, Roscoe C. Transmission and final drive assembly. 2,923,173, 2-2-60, Cl. 74-700.
- Hoffman, Stanley G., and F. C. Van Ess, to Hat Corp. of America. Method for making a hat. 2,926,358, 3-1-60, Cl. 2-193.
- Hoffman, Theodore P.: See—  
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- Hoffman, Thomas A.: See—  
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- Hoffman, Walter B., to E. I. du Pont de Nemours and Co. Production of pyromellitic dianhydride. 2,937,189, 5-17-60, Cl. 260-346.3.
- Hoffman, Walter H., and W. P. Scott. Composition and method for treating poultry. 2,946,722, 7-26-60, Cl. 167-53.1.
- Hoffman, William A., J. P. Janosik, and J. S. TenBroeck, Jr., to E. I. du Pont de Nemours and Co. Fresh meat package and method. 2,931,732, 4-5-60, Cl. 99-174.
- Hoffman, William M., 1/2 to F. C. Von Deran. Fluid injection device. 2,948,238, 8-9-60, Cl. 111-7.4.
- Hoffmann, Arnulf: See—  
Herlet, Adolf, and Hoffmann. 2,931,960.
- Hoffmann, Arthur K.: See—  
Groszos, Stephen J., and Hoffmann. 2,926,195.
- Hoffmann, Arthur K., and W. M. Thomas, to American Cyanamid Co. Polymers of a vinylphenyl boronic ester. 2,931,788, 4-5-60, Cl. 260-63.
- Hoffmann, Arthur K., and W. M. Thomas, to American Cyanamid Co. Polymers of a vinylphenyl boroxole. 2,934,526, 4-26-60, Cl. 260-88.1.
- Hoffmann, Arthur K., S. J. Groszos, and W. M. Thomas, to American Cyanamid Co. Boron compounds and methods of preparation. 2,934,556, 4-26-60, Cl. 260-462.
- Hoffmann, Arthur K., S. J. Groszos, and W. M. Thomas, to American Cyanamid Co. Method of preparing a vinylphenyl boroxole. 2,950,322, 8-23-60, Cl. 260-606.5.
- Hoffmann, Charles: See—  
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- Hoffmann, Edward J.: See—  
Anderson, James A., Dinwiddie, and Hoffmann. 2,924,568.
- Hoffmann, Ernest: See—  
Gresham, Claude D., and Hoffmann. 2,937,649.
- Hoffmann, Ernest D., to Western Electric Co., Inc. Dry, free-flowing, pigmented polyvinyl chloride composition and method of making. 2,958,669, 11-1-60, Cl. 260-31.8.
- Hoffmann, George R. Air flow control for jet propelled craft. 2,945,345, 7-19-60, Cl. 60-35.6.
- Hoffmann, Karl, A. Hunger, J. Kebrle, and A. Rossi, to Ciba Pharmaceutical Products Inc. Benzimidazoles. 2,935,514, 5-3-60, Cl. 260-309.2.
- Hoffmann, Karl, and J. Heer, to Ciba Pharmaceutical Products Inc. New steroids substituted by a heterocyclic nitrogen-containing ring in 17-position. 2,938,030, 5-24-60, Cl. 260-239.5.
- Hoffmann, Karl, A. Hunger, J. Kebrle, and A. Rossi, to Ciba Pharmaceutical Products Inc. 1-(beta-diethylaminoethyl)-5-nitro-benzimidazoles, 2-substituted by pyridylmethyl or thienylmethyl. 2,942,002, 6-21-60, Cl. 260-296.
- Hoffmann, Karl, and A. Hunger, to Ciba Pharmaceutical Products Inc. Certain alpha (1-diethylaminoethyl) benzimidazolyl (2), alpha-aryl acetamides. 2,944,062, 7-5-60, Cl. 260-309.2.
- Hoffmann, Karl, A. Hunger, J. Kebrle, and A. Rossi, to Ciba Pharmaceutical Products Inc. 1-(dihaloalkylaminoloweralkyl)-5-nitro-2-naphthylmethyl (and certain substituted naphthylmethyl) benzimidazoles. 2,945,043, 7-12-60, Cl. 260-309.2.
- Hoffmann, Karl, A. Hunger, J. Kebrle, and A. Rossi, to Ciba Pharmaceutical Products, Inc. Certain 1-(diethylaminoethyl), 5-amino-2-benzyl or substituted benzyl, benzimidazoles. 2,945,044, 7-12-60, Cl. 260-309.2.
- Hoffmann, Karl, J. Heer, E. Sury, and E. Urech, to Ciba Pharmaceutical Products, Inc. Substituted 2-diphenylmethyl-piperidine compounds. 2,957,879, 10-25-60, Cl. 260-293.
- Hoffmann, Karl, and E. Sury, to Ciba Pharmaceutical Products, Inc. New acylpiperidines. 2,957,881, 10-25-60, Cl. 260-294.7.
- Hoffmann, Karl, and E. Sury, to Ciba Pharmaceutical Products Inc. New alkyl-piperidines. 2,962,500, 11-29-60, Cl. 260-293.
- Hoffmann-La Roche Inc.: See—  
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Hoffmann, Otto, and A. Krynytzky, to Lake Erie Machinery Corp. Cold extrusion press. 2,949,051, 8-16-60, Cl. 78-18.
- Hoffmann, Otto L.: See—  
Hopkins, Thomas R., Neighbors, and Hoffmann. 2,957,800.  
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- Hoffmann, Otto L., to Spencer Chemical Co. Process and compositions for treating nematodes. 2,947,660, 8-2-60, Cl. 167-22.
- Hoffmann, Richard A.: See—  
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- Hoffmann, Robert: See—  
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- Hoffmann, Walter: See—  
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- Hoffmann, Walter, to Projecting AB. Centrifugal apparatus for separating solids. 2,956,679, 10-18-60, Cl. 209-144.
- Hoffmaster, George R., to The Electric Storage Battery Co. Clip-on glasses. 2,953,968, 9-27-60, Cl. 88-41.
- Hoffmeister, Ernst W. Reflective devices having multi-curved surfaces. 2,961,926, 11-29-60, Cl. 88-76.
- Hoffsommer, Robert D., Jr.: See—  
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Taub, David, Hoffsommer, and Wendler. 2,958,702.
- Hoffstadt, Walter F., to General Aniline & Film Corp. Production of yellow dye images by color development. 2,921,851, 1-19-60, Cl. 96-55.
- Hoffstetter, George O. Bulk feed body. 2,939,592, 6-7-60, Cl. 214-83.2.
- Hoffstrom, Bo N. Couplings. 2,951,713, 9-6-60, Cl. 234-19.
- Hofges, Heinz: See—  
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- Hofgesang, William, to The Singer Mfg. Co. Operating mechanism for sewing machine controllers. 2,952,164, 9-13-60, Cl. 74-515.
- Hofing, Frederick H.: See—  
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- Höfner, Willy. Method and apparatus for measuring gears and the like. 2,938,275, 5-31-60, Cl. 33-179.5.
- Hofmann, Albert: See—  
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- Hofmann, Alfred, & Co.: See—  
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- Hofmann, Charles F., to Westinghouse Electric Corp. Filled organopolysiloxane coating for electrical members. 2,941,905, 6-21-60, Cl. 117-232.
- Hofmann, Dionys. Balancing device. 2,958,165, 11-1-60, Cl. 51-169.
- Hofmann, E., & Cie S.A.: See—  
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- Hofmann, Ernst, to E. Hofmann & Cie S.A. Apparatus for carrying out borings, threadings and millings. 2,944,446, 7-12-60, Cl. 77-64.
- Hofmann, Henry R., to Bell Telephone Laboratories, Inc. Dial tone gating circuit. 2,966,556, 12-27-60, Cl. 179-84.
- Hofmann, Ludwig, to Fa. Boelkow-Entwicklungen Kommanditgesellschaft. Control for helicopter rotors and the like. 2,953,207, 9-20-60, Cl. 170-160.16.
- Hofmann, Walter, and P. Zuppinger, to Ciba Ltd. Process for the manufacture of a polyglycidyl ether of a polyhydroxy-1:3:5-triazine. 2,931,781, 4-5-60, Cl. 260-2.
- Hofmeister, Hans. Furnace arrangement. 2,966,348, 12-27-60, Cl. 263-33.
- Hofreiter, Bernard T., C. L. Mehlretter, J. Bennie, and G. E. Hamerstrand, to United States of America, Agriculture. Starch products of stable viscosity. 2,929,811, 3-22-60, Cl. 260-233.3.
- Hofstetter, Kurt, to O. J. Munz. Photographic printing apparatus. 2,953,984, 9-27-60, Cl. 95-75.
- Hogan Faximile Corp.: See—  
Mones, Arthur H. 2,953,505.
- Hogan, John M., and J. F. Beuk, to Swift & Co. Process of treating comminuted meat products. 2,963,376, 12-8-60, Cl. 99-187.



- Hogan, John P., to Phillips Petroleum Co. Olefin polymerization catalyst and process. 2,959,577, 11-8-60, Cl. 260-94.9.
- Hogan, John P., to Phillips Petroleum Co. Process and catalyst for olefin polymerization. 2,959,578, 11-8-60, Cl. 260-94.9.
- Hogan, John P., and R. L. Banks, to Phillips Petroleum Co. Polymerization catalyst and production thereof. 2,951,816, 9-6-60, Cl. 252-467.
- Hogan, John K. Fluid proportioning pump. 2,924,178, 2-9-60, Cl. 103-2.
- Hogan, Joseph L., to Walk-A-Lator Mfg. Co., Inc. Invalid walker. Re. 24,817, 4-26-60, Cl. 155-23.
- Hogan, Robert J.: See—
- Gardner, Lloyd E., and Hogan. 2,939,892.
- Gardner, Lloyd E., and Hogan. 2,946,738.
- Gardner, Lloyd E., and Hogan. 2,946,739.
- Hogan, Robert J., to Phillips Petroleum Co. Hydrocarbon conversion catalyst for use in the hydrocracking of hydrocarbon oils. 2,926,130, 2-23-60, Cl. 208-110.
- Hogan, Walter H.: See—
- Camino, Anthony V., and Hogan. 2,943,818.
- Hogan, Walter H., to Cleveland Pneumatic Industries, Inc. Landing gear steering mechanism. 2,930,547, 3-29-60, Cl. 244-50.
- Hogan, Walter H., to Cleveland Pneumatic Industries, Inc. Liquid spring. 2,939,697, 6-7-60, Cl. 267-64.
- Hogan, Walter H., to Cleveland Pneumatic Industries, Inc. Aircraft ground steering mechanism. 2,943,817, 7-5-60, Cl. 244-50.
- Hogan, Walter H., and A. V. Camino, to Cleveland Pneumatic Industries, Inc. Liquid spring. 2,930,608, 3-29-60, Cl. 267-64.
- Hogan, William J.: See—
- Rice, Richard L., Hogan, and Kingsley. 2,955,623.
- Hogan, William P.: See—
- Haroldson, Arthur H., Mulrooney, and Hogan. 2,946,087.
- Hogberg, Knut B.: See—
- Diczfalusy, Egon R., Ferno, Fex, Hogberg, and Linderot. 2,928,849.
- Diczfalusy, Egon R., Fernö, Högberg, Linderot, and Rosenberg. 2,962,515.
- Fernö, Ove B., Fex, Linderot, Rosenberg, and Högberg. 2,962,495.
- Hogberg, Knut B., and O. B. Ferno, to Aktiebolaget Leo (A/B Leo). Adrenocorticotrophic action-retarding and antienzymatic substances. 2,964,552, 12-13-60, Cl. 260-461.
- Hoge, Henri H., to Westinghouse Electric Corp. True current flip-flop element. 2,949,549, 8-16-60, Cl. 307-88.5.
- Hogeman, Hans: See—
- Bischoff, Waldemar O., and Hogeman. 2,965,087.
- Hogendobler, Henry R., and H. G. Wands, to Gustin-Bacon Mfg. Co. Method and apparatus for affixing flexible tubing to work pieces using tubing from a continuous source. 2,952,298, 9-13-60, Cl. 154-41.
- Hogg, James C., Jr., R. L. Taylor, and R. L. Pfaff, to West Point Mfg. Co. Stop motion. 2,960,731, 11-22-60, Cl. 19-167.
- Hogg, John A.: See—
- Babcock, John C., Hogg, and Pederson. 2,927,933.
- Hanze, Arthur R., Hogg, and Nathan. 2,951,858.
- Lincoln, Frank H., Jr., and Hogg. 2,923,720.
- Nathan, Alan H., and Hogg. 2,938,056.
- Hogg, John A., and F. H. Lincoln, Jr., to The Upjohn Co. 2-lower-alkyl-9a-halo-4-pregnenes. 2,923,722, 2-2-60, Cl. 260-397.45.
- Hogg, John A., and F. H. Lincoln, to The Upjohn Co. 2-lower-alkylcortisone and 21-esters thereof. 2,923,723, 2-2-60, Cl. 260-397.45.
- Hoglan, Forest A., to International Minerals & Chemical Corp. Process for recovering glutamic acid. 2,929,839, 3-22-60, Cl. 260-527.
- Hoglan, Forest A., to International Minerals & Chemical Corp. Glutamic acid recovery. 2,933,524, 4-19-60, Cl. 260-527.
- Hoglund, Nils. Apparatus for forming contours on cylindrical surfaces. 2,921,505, 1-19-60, Cl. 90-15.
- Hoglund, Nils. Contour forming apparatus. 2,930,372, 3-29-60, Cl. 125-11.
- Hoglund, Nils. Apparatus for forming contours. 2,936,750, 5-17-60, Cl. 125-11.
- Hoglund, Nils. Apparatus for forming contours. 2,938,515, 5-31-60, Cl. 125-11.
- Hoglund, Nils. Apparatus for movably supporting, indexing, and positioning a work piece. 2,953,975, 9-27-60, Cl. 90-56.
- Hoglund, Nils. Apparatus for forming contours. 2,958,262, 11-1-60, Cl. 90-13.
- Hogsed, Milton J., to E. I. du Pont de Nemours and Co. Conversion of propylene and isobutylene to allene and methylacetylene. 2,925,451, 2-16-60, Cl. 260-678.
- Hogstrom, John H. Trailer construction. 2,953,390, 9-20-60, Cl. 280-104.5.
- Hogstrom, Nils H., to The Ful-Vue-Pak Co. Carton dispenser with means to withdraw the lowermost carton. 2,942,758, 6-28-60, Cl. 221-222.
- Hogue, Ephraim W., to United States of America, Commerce. Magnetic digital computer circuit. 2,946,046, 7-19-60, Cl. 340-174.
- Hogue, Noel E., to Collins Radio Co. Fast attack slow release relay circuit. 2,958,017, 10-25-60, Cl. 317-148.5.
- Hohl, John: See—
- Bjering, Olav, and Hohl. 2,942,394.
- Harmon, Shepard L., and Hohl. 2,950,587.
- Harmon, Shepard L., and Hohl. 2,962,060.
- Hohl, John, to Owens-Illinois Glass Co. Apparatus for unloading rings from a mandrel. 2,959,847, 11-15-60, Cl. 29-235.
- Hohl, John, and G. V. Mumford, to Owens-Illinois Glass Co. Bottles and closure caps for same. 2,953,271, 9-20-60, Cl. 215-38.
- Hohl, Leonard L.: See—
- Dodge, Nathaniel S., Jr., Hohl, Jones, and Negley. 2,947,409.
- Hohl, Robert W., to Standard Pressed Steel Co. Gauge setting device. 2,921,377, 1-19-60, Cl. 33-181.
- Hohlbein, Wesley A., to Boeing Airplane Co. Method of shearing locking collar from high shear rivet. 2,961,907, 11-29-60, Cl. 83-13.
- Hohman, Harry A. Automobile parking and storage towers. 2,943,725, 7-5-60, Cl. 198-85.
- Hohmann, Albert: See—
- Cooper, Benjamin, and Hohmann. 2,922,687.
- Hohmann, Albert, to American Electronics, Inc. Surface mounted treadle. 2,959,647, 11-8-60, Cl. 200-86.
- Hohmann, Albert, and L. M. Keefe, to B. Cooper. Creep cam indexing mechanism. 2,922,995, 1-26-60, Cl. 340-347.
- Hohmann, Gottfried H.: See—
- Helvey, Edward E., and Hohmann. 2,928,312.
- Hohne, Jack C., Jr., to Globe Industries, Inc. Dynamic braking system for a reversible motor. 2,965,827, 12-20-60, Cl. 318-380.
- Hohmann, Lawrence A., Jr.: See—
- Ham, James H., Jr., Hershey, Hohmann, and Kinsman. 2,941,043.
- Hohmann, Lawrence A., Jr., to Bell Telephone Laboratories, Inc. Signal translating circuit. 2,933,563, 4-19-60, Cl. 179-18.
- Hohn, Hans, and P. Gerassinoff, to Siemens & Halske Gesellschaft m.b.H. Process of treating amalgams of metals which are difficultly soluble in mercury. 2,929,705, 3-22-60, Cl. 75-63.
- Hohne, Jack C., Jr., to Globe Industries, Inc. Motor control. 2,935,674, 5-3-60, Cl. 318-293.
- Hohne, Per: See—
- Nyrop, Johan E., Høhne, and Møller. 2,920,830.
- Hohnecker, Otto, to Burroughs Corp. Centering and clamping arrangement. 2,937,916, 5-24-60, Cl. 346-137.
- Hohnecker, Otto, to Burroughs Corp. Magnetic head suspension. 2,950,354, 8-23-60, Cl. 179-100.2.
- Hohos, Edward J., and J. A. Richard, to Mine Safety Appliances Co. Mine roof bolt and bolting system. 2,947,279, 8-2-60, Cl. 116-114.
- Holberg, Arnold J., and C. E. Cowger, to Monsanto Chemical Co. Asphalt adhesive composition. 2,923,638, 2-2-60, Cl. 106-278.
- Hokerk, Lynde D. Sewing accessory. 2,923,451, 2-2-60, Cl. 225-37.
- Holaday, Charles E., H. F. Cooke, W. K. Marble, and J. E. Larrison; dedicated to the public. Apparatus for determining the oil content of substances. 2,934,700, 4-26-60, Cl. 324-61.
- Holaday, Harold O.: See—
- MacMillan, Charles W., Holaday, and Pierce. 2,923,067.
- Holahan, Joseph, to True Temper Corp. Drag for fishing reels. 2,922,595, 1-26-60, Cl. 242-84.54.
- Holahan, Joseph M., to True Temper Corp. Drag for fishing reels. 2,925,964, 2-23-60, Cl. 242-84.54.
- Holan, J. H., Corp.: See—
- Holan, James H., and Troche. 2,951,549.
- Troche, Herman J. 2,959,398.
- Troche, Herman J. 2,968,227.
- Troche, Herman J., and Webb. 2,949,741.
- Holan, James H., and H. J. Troche, to J. H. Holan Corp. Aerial ladder. 2,951,549, 9-6-60, Cl. 182-66.
- Holappa, Harvey A., to Western Electric Co., Inc. Apparatus for testing automatic telephone exchange equipment. 2,947,824, 8-2-60, Cl. 179-175.2.
- Holasek, Anton: See—
- Lieb, Hans, Kupelwieser, and Holasek. 2,961,374.
- Holben, Bernard C., to Industrial Nucleonics Corp. Conveyor stop gate. 2,924,323, 2-9-60, Cl. 198-1.
- Holben, Martin M., S. Komorowski, and J. Ruby, to Curtiss-Wright Corp. Method of fabricating cylinder barrels. 2,938,260, 5-31-60, Cl. 29-156.4.
- Holbrook, Edward L., to Westinghouse Air Brake Co. Fluid pressure regulating valve device for supplying graduated delivery pressure according to the supply pressure. 2,958,337, 11-1-60, Cl. 137-620.
- Holbrook, George W.: See—
- Pierce, Ogden R., and Holbrook. 2,961,425.
- Holbrook, Lester E.: See—
- Lewis, Gerald F. 2,966,284.
- Holbrook, Orrin C.: See—
- Bernard, George G., and Holbrook. 2,963,349.
- Holbrook, Robert L.: See—
- Harshman, Richard C., and Holbrook. 2,936,289.
- Holcomb, Galen A., to North American Aviation, Inc. Ejection seat for aircraft and the like. 2,947,503, 8-2-60, Cl. 244-122.



- Holcomb, Galen A., J. B. Morris, and D. E. Hotham, to North American Aviation, Inc. Aircraft emergency escape system. 2,953,331, 9-20-60, Cl. 244-122.
- Holcombe, Waldo H., to Sigma Instruments, Inc. Polarized electromagnetic relay. 2,935,585, 5-3-60, Cl. 200-93.
- Holdcraft, Joseph W.: *See*—
- Hobbie, Albert C., and Holdcraft. 2,946,357.
- Holdeman, John W., to Borg-Warner Corp. Transmission. 2,961,895, 11-29-60, Cl. 74-677.
- Holdeman, John W., and S. Dabich, to Borg-Warner Corp. Transmission controls. 2,926,543, 3-1-60, Cl. 74-472.
- Holdeman, John W., and J. B. Polomski, to Borg-Warner Corp. Transmission controls. 2,950,629, 8-30-60, Cl. 74-472.
- Holden, Alfred T., to The Decca Record Co. Ltd. Indicating apparatus for radio navigation systems. 2,945,226, 7-12-60, Cl. 343-112.
- Holden, Artemas F. Electrode furnace. 2,953,614, 9-20-60, Cl. 13-23.
- Holden, Donald L., to Universal Oil Products Co. Producing metal-free petroleum stocks by hydrogenation. 2,944,013, 7-5-60, Cl. 208-251.
- Holden, Donald L., to Universal Oil Products Co. Method for forming alumina particles. 2,952,644, 9-13-60, Cl. 252-465.
- Holden, Ernest J. Door furniture. 2,947,561, 8-2-60, Cl. 292-347.
- Holden, Jesse L.: *See*—
- Risk, Norman E., and Holden. 2,948,347.
- Holden, Paul C.: *See*—
- Spadaro, Peter R., and Holden. 2,921,434.
- Holden, Thomas M., to Fleming & Sons, Inc. Paperboard chairs. 2,940,513, 6-14-60, Cl. 155-191.
- Holder, Clinton H., to Esso Research and Engineering Co. Color improvement of petroleum lubricating oils. 2,963,426, 12-6-60, Cl. 208-286.
- Holder, Clinton H., and H. A. Ricards, to Esso Research and Engineering Co. Refining petroleum wax by contact filtration utilizing a crystalline zeolite molecular sieve. 2,924,567, 2-9-60, Cl. 208-26.
- Holderer, Oscar C. Roll-measuring device for missile models. 2,955,462, 10-11-60, Cl. 73-147.
- Holderle, Frederick S., H. C. R., and N. F. W. Display case. 2,939,946, 6-7-60, Cl. 240-6.
- Holderle, Harvey C. R.: *See*—
- Holderle, Frederick S., H. C. R., and N. F. W. 2,939,946.
- Holderle, Norbert F. W.: *See*—
- Holderle, Frederick S., H. C. R., and N. F. W. 2,939,946.
- Holderman, Vernon N.: *See*—
- Smith, Roy B. 2,917,761.
- Holderness, Jack F. Holder for tobacco pipes. 2,948,283, 8-9-60, Cl. 131-260.
- Holderreed, Francis L., and R. E. Sullivan, to The Anaconda Co. Production of silica-free alumina. 2,947,606, 8-2-60, Cl. 23-143.
- Holding Electrosonic S.A.: *See*—
- Legrand, Roger. 2,951,365.
- Holdo, Andres O.: *See*—
- Moseley, Francis L., and Holdo. 2,958,027.
- Holdrege, Charles F.: *See*—
- Kendall, James M., and Holdrege. 2,961,961.
- Holdrege, Charles T.: *See*—
- Cheney, Lee C., and Holdrege. 2,947,742.
- Holdren Bros., Inc.: *See*—
- Holdren, Donald R. 2,965,308.
- Holdren, Donald R., to Holdren Bros., Inc. Tank adapter kit. 2,965,308, 12-20-60, Cl. 239-278.
- Holdridge, Herbert D., Jr.: *See*—
- Lutz, Irvin H., and Holdridge. 2,956,005.
- Holdstock, Norman G., to General Electric Co. Lubricating oil composition containing a silicon-tin-containing compound. 2,937,994, 5-24-60, Cl. 252-49.7.
- Holdstock, Norman G., and E. D. Brown, Jr., to General Electric Co. High temperature lubricating oil composition containing a silicon-tin-containing compound. 2,937,995, 5-24-60, Cl. 252-49.7.
- Holdsworth, Robert S., to United States Rubber Co. Vinyl acetate polymer latices, process for preparing same and paint compositions made therefrom. 2,956,973, 10-18-60, Cl. 260-29.6.
- Hole, Marvin A.: *See*—
- Murphy, John H., and Hole. 2,940,794.
- Holeman, John W.: *See*—
- Johnson, Martin A., and Holeman. 2,921,685.
- Holes-Webway Co.: *See*—
- Holes, Wilbur W. 2,925,677.
- Holes, Wilbur W., to Holes-Webway Co. Photograph album sheet. 2,925,677, 2-23-60, Cl. 40-159.
- Holford, Frank L., to United States of America, Army. Combination mine fuze. 2,935,949, 5-10-60, Cl. 102-70.
- Holgate, Paul B.: *See*—
- Holgate, Paul B., Jr., and Paul B. Holgate. 2,927,586.
- Holgate, Paul B., Jr., and Paul B. Holgate. Suspension type document file. 2,927,586, 3-8-60, Cl. 129-16.7.
- Holgersson, Sigbjörn P. H. E., and K. J. I. Groth, to Kopparfors Aktiebolag. Method of preventing depositions of pitch from sulphite pulp. 2,932,602, 4-12-60, Cl. 162-158.
- Holick, John W. Laundryproof plastic insignia and name plate holder-cover. 2,926,439, 3-1-60, Cl. 40-1.5.
- Holl, James W. F. Seal seat construction. 2,963,261, 12-6-60, Cl. 251-172.
- Holl, Rhoderich: *See*—
- Bartels, Willi, and Holl. 2,933,830.
- Hollabaugh, Max G., F. D. Sher, and K. R. Wisner, to ACF Industries Inc. Apparatus for magnetically recording video-frequency signals including ambient fluid bearing means. 2,965,721, 12-20-60, Cl. 179-100.2.
- Holland, Arthur A. Filtering apparatus. 2,963,161, 12-6-60, Cl. 210-401.
- Holland, Ayler J., Jr.: *See*—
- Harrison, Richard, III, Shriver, and Holland. 2,938,526.
- Holland Co.: *See*—
- Carlson, Arthur H., and Wulff. 2,934,333.
- Holland, Frank J. Removing odors from hydrocarbon fuels with trisodium phosphite and bentonite. 2,930,751, 3-29-60, Cl. 208-287.
- Holland, Glen A., to The Yale & Towne Mfg. Co. Mortise lock. 2,924,480, 2-9-60, Cl. 292-336.3.
- Holland, Jesse G., to Holland Standards Inc. Acoustic control device for loudspeakers. 2,926,740, 3-1-60, Cl. 181-31.
- Holland, John D., and R. A. Buck, to International Standard Electric Corp. Radio telegraph systems. 2,938,077, 5-24-60, Cl. 178-23.
- Holland, John G.: *See*—
- Albee, William H. 2,952,468.
- Holland, John J., M. J. Knott, H. A. Bryant, and D. J. Dunn, to Brown & Sharpe Mfg. Co. Hydraulic operating and control system for a machine tool. 2,927,403, 3-8-60, Cl. 51-92.
- Holland, John W., and W. L. Greyson, to Hitemp Wires, Inc. Conductor bead insulation elements. 2,931,852, 4-5-60, Cl. 174-111.
- Holland, Marlin C., to E. I. du Pont de Nemours and Co. Trilobal textile filament. 2,939,201, 6-7-60, Cl. 28-82.
- Holland, Marlin C., to E. I. du Pont de Nemours and Co. Synthetic polymer textile filament. 2,939,202, 6-7-60, Cl. 28-82.
- Holland, Melvin L. Heating and cooling alternator valve. 2,952,446, 9-13-60, Cl. 257-271.
- Holland, Oswald A. Self-coupling fifth wheel. 2,924,465, 2-9-60, Cl. 280-434.
- Holland Standards Inc.: *See*—
- Holland, Jesse G. 2,926,740.
- Holland, Stephen D., and E. T. Borrows, to Shell Oil Co. Oil-soluble resins. 2,965,612, 12-20-60, Cl. 260-62.
- Holland Transplanter Co.: *See*—
- Poll, Benjamin. 2,960,944.
- Hollander, Charles S.: *See*—
- De Benneville, Peter L., and Hollander. 2,947,782.
- Hollander, Dwight F. Automobile cleaning service unit. 2,926,377, 3-1-60, Cl. 15-261.
- Hollar, Arthur W., Jr., to General Motors Corp. Finish molding for automobile bodies. 2,930,649, 3-29-60, Cl. 296-44.5.
- Hollar, Arthur W., Jr., to General Motors Corp. Door hinge, check and hold-open. 2,947,023, 8-2-60, Cl. 16-145.
- Hollar, Arthur W., Jr., to General Motors Corp. Remote locking button devices. 2,965,402, 12-20-60, Cl. 292-347.
- Hollein, Wilhelm, to Kienzle Apparate G.m.b.H. Tachograph and sheets suitable for use with the same or with other graphic recording devices. 2,938,760, 5-31-60, Cl. 346-137.
- Höller, August: *See*—
- Kreuzer, Josef, Höller, and Kollmann. 2,922,132.
- Höller, Hans, and J. Breidenbach, to Maschinenfabrik Gebrüder Holler Offene Handelsgesellschaft. Machine for periodic strip feed. 2,922,641, 1-26-60, Cl. 271-2.6.
- Holler, Harold G.: *See*—
- Kahr, John S., and Holler. 2,940,431.
- Hollerbach, Aloys C., to General Motors Corp. Arm rest assembly. 2,922,674, 1-26-60, Cl. 296-44.
- Hollerith, Charles, to Walstrom Products, Inc. Stabilizing boat suspender. 2,952,857, 9-20-60, Cl. 9-43.
- Holleron, William K.: *See*—
- Taylor, Joseph W., and Holleron. 2,940,522.
- Hollert, Paul. Leaf-spring suspension for vehicles. 2,920,883, 1-12-60, Cl. 267-30.
- Holley Carburetor Co.: *See*—
- Begian, Mehria. 2,941,049.
- Cameron, Donald J., and De Claire. 2,957,682.
- Conti, Girard N., and Stankowski. 2,919,524.
- Conti, Girard N., and Stankowski. 2,934,866.
- Cornelius, George W. 2,953,898.
- De Claire, Alton G., Jr. 2,954,147.
- De Claire, Alton G., Jr. 2,965,090.
- De Claire, Alton G., Jr. 2,965,092.
- De Claire, Alton G., Jr., and Cameron. 2,940,436.
- Goetsch, Earl G. 2,958,309.
- Holley, George M., Jr. 2,965,089.
- Holley, George M., Jr., and Smith. 2,936,774.
- Kerr, Fred S. 2,943,131.
- Kittler, Milton J., Sterner, and Johnson. 2,947,297.
- Larges, Ernest R., and Bettoni. 2,935,076.
- McGregor, Arvin D. 2,956,740.
- Moseley, James T. W. 2,921,775.
- Munyan, Donald A. 2,965,091.
- Nold, Henry G. 2,923,283.
- Quinby, Charles E. 2,941,538.
- Schorn, Carl F., Keil, McGrail, and Rogers. 2,965,285.
- Smith, John E., Fleming, De Claire, and Stroh. 2,953,167.
- Smitley, Marion L., and Sterner. 2,947,509.
- Sterner, Melvin F. 2,939,445.
- Sterner, Melvin F., Smitley, and Francis. 2,956,558.
- Stroh, George B., Ensinger, and Cowles. 2,944,537.
- Wulff, Cal W. 2,936,721.



- Holley, George M., Jr., to Holley Carburetor Co. Cold start means for an internal combustion engine. 2,965,089, 12-20-60, Cl. 123-179.
- Holley, George M., Jr., and J. E. Smith, to Holley Carburetor Co. Pump assembly with air cooled motor. 2,936,774, 5-17-60, Cl. 137-338.
- Hollick, John G.: See—
- O'Gorman, Vincent G., and Hollick. 2,952,563.
- Holliday, Ivar M.: See—
- Oplinger, Kirk A., and Holliday. 2,945,648.
- Hollien, Richard R., to Millers Falls Co. Router bit and drive shaft assembly with pilot. 2,934,113, 4-26-60, Cl. 144-241.
- Hollifield, Oscar H., and J. E. Drury, 75% to said O. H. Hollifield; 25% to said J. E. Drury. Bobbin chute for looms. 2,951,511, 9-6-60, Cl. 139-255.
- Holling, William R. Means for sound reproduction advertising in vehicles. 2,930,850, 3-29-60, Cl. 179-1.
- Hollinger, Gale R. Sealing arbor. 2,923,097, 2-2-60, Cl. 49-1.
- Hollinger, Ralph M.: See—
- Weingarten, Morris R., and Hollinger. 2,924,429.
- Hollings, John S., to Rolls-Royce Ltd. Gas turbine engine with starting means. 2,920,447, 1-12-60, Cl. 60-39.14.
- Hollings, Raymond, and G. Place. Mixer reactor with scraper. 2,955,026, 10-4-60, Cl. 23-285.
- Hollingshead, R. M., Corp.: See—
- Hollingshead, Wickliffe S. 2,950,844.
- Hollingshead, Wickliffe S., to R. M. Hollingshead Corp. Stackable containers. 2,950,844, 8-30-60, Cl. 222-143.
- Hollingsworth, Albert A.: See—
- Weaver, Simeon D., and Hollingsworth. 2,953,399.
- Hollingsworth, Clinton A., K. F. Schilling, and J. L. Wester, to Smith-Douglass Co., Inc. Concentration of minerals. 2,927,692, 3-8-60, Cl. 209-167.
- Hollingsworth, Clinton A., and C. J. McDonald, to Smith-Douglass Co., Inc. Concentration of comminuted materials. 2,938,629, 5-31-60, Cl. 209-170.
- Hollingsworth, Eleanor: See—
- Hollingsworth, Maurice H. 2,930,857.
- Hollingsworth, Maurice H., and E. 2,930,858.
- Hollingsworth, John D. Card clothing. 2,937,412, 5-24-60, Cl. 19-114.
- Hollingsworth, John D. Carding tooth. 2,937,413, 5-24-60, Cl. 19-114.
- Hollingsworth, John D. Comb blades. 2,942,305, 6-28-60, Cl. 19-106.
- Hollingsworth, R. Lee. Mixers and containers. 2,945,682, 7-19-60, Cl. 259-81.
- Hollingsworth, Maurice H., deceased; E. Hollingsworth, executrix, to E. Humphries, formerly E. Hollingsworth. Spectacles concealed hearing-aid. 2,930,857, 3-29-60, Cl. 179-107.
- Hollingsworth, Maurice H., deceased; E. Hollingsworth, executrix, to E. Humphries, formerly E. Hollingsworth. Binaural hearing-aid device. 2,930,858, 3-29-60, Cl. 179-107.
- Hollingsworth, R. Lee. Gas washing, cleaning and drying apparatus. 2,922,489, 1-26-60, Cl. 183-24.
- Hollingsworth, Edward E., and A. W. Beaurline, to Beaurline Industries, Inc. Camera. 2,933,027, 4-19-60, Cl. 95-31.
- Hollingsworth, Harry D.: See—
- Hadley, David J., and Hollingsworth. 2,926,189.
- Hollins, Jesse R., to Signal-Stat Corp. Flashers and circuits therefor. 2,942,236, 6-21-60, Cl. 340-81.
- Hollins, Jesse R., to Signal-Stat Corp. Driving lamp control arrangement. 2,943,298, 6-28-60, Cl. 340-81.
- Hollins, Jesse R., to Signal-Stat Corp. Control switches for automotive vehicles. 2,948,832, 8-9-60, Cl. 315-82.
- Hollins, William, & Co. Ltd.: See—
- Wilson, Peter. 2,936,511.
- Hollis, Jack L.: See—
- Deist, Herbert H., and Hollis. 2,929,103.
- Hollis, Jack L., to The Firestone Tire & Rubber Co. Method and apparatus for seating reinforcing members in rubberized fabric structures. 2,929,435, 3-22-60, Cl. 154-1.
- Hollis, Robert F., to Alton Box Board Co. Web feed apparatus. 2,925,270, 2-16-60, Cl. 271-22.
- Hollis, Robert F., to Alton Box Board Co. Corrugator steam system. 2,952,297, 9-13-60, Cl. 154-33.05.
- Hollister, John C., Sr. Shoe holder. 2,950,496, 8-30-60, Cl. 15-267.
- Hollister, Paul G. Traveling case for officers' caps. 2,956,669, 10-18-60, Cl. 206-8.
- Hollman, Franz, and E. Warneke, to O. H. Drager. Lung-controlled breathing valve. 2,946,340, 7-26-60, Cl. 137-63.
- Hollmann, Hans E. Magnetic and electric ink oscillograph. 2,925,312, 2-16-60, Cl. 346-130.
- Hollmann, Hans E. Method and apparatus for making duplicate magnetic records. 2,926,219, 2-23-60, Cl. 179-100.2.
- Hollmann, Hans E., to Dresser Industries, Inc. Position indicator. 2,942,479, 6-28-60, Cl. 74-5.6.
- Hollmann, Hans E. Signal recording system. 2,958,737, 11-1-60, Cl. 179-100.3.
- Hollobaugh, Robert C.: See—
- Yant, William P., Hollobaugh, and Strange. 2,921,497.
- Hollomon, John H., to General Electric Co. Method for making cube-on-face magnetic steel. 2,940,881, 6-14-60, Cl. 148-11.
- Holloway, Dennis G., and G. E. Jacoby, to British Telecommunications Research Ltd. Electric modulators. 2,922,959, 1-26-60, Cl. 332-47.
- Holloway, Frank P.: See—
- Aiden, Lorne B., and Holloway. 2,965,931.
- Holloway, Harold S., to The Firestone Tire & Rubber Co. Tire chaffer. 2,947,342, 8-2-60, Cl. 152-362.
- Holloway, John W.: See—
- Lavin, Owen, and Holloway. 2,934,474.
- Holloway, Robert L., to American Machine & Foundry Co. Respotting and sweeping mechanism for bowling pin spotting machines. 2,954,228, 9-27-60, Cl. 273-51.
- Holloway, Robert L., T. J. Bohn, J. Zuercher, and L. Strauss, to American Machine & Foundry Co. Bowling pin respotting mechanism. 2,930,616, 3-29-60, Cl. 273-43.
- Holloway, Violet M. Arm sling. 2,935,066, 5-3-60, Cl. 128-94.
- Hollstein, Oswald C.: See—
- Stava, Robert J., Schneerer, and Hollstein. 2,950,394.
- Holly, Earl D., and W. R. Nummy, to The Dow Chemical Co. Polymers of vinylpentachlorophenyl sulfide and method of making the same. 2,947,730, 8-2-60, Cl. 260-79.7.
- Holly, Frederick W., A. F. Wagner, E. Walton, and C. H. Hoffman, to Merck & Co., Inc. Intermediates useful in the synthesis of  $\alpha$ -lipoic acid. 2,924,616, 2-9-60, Cl. 260-481.
- Holly Mfg., Inc.: See—
- Hallinan, William W. 2,965,126.
- Hollyday, James H.: See—
- Young, Robert G., and Hollyday. 2,963,303.
- Hollyday, James H., to Sperry Rand Corp. Wire tie hay baler. 2,940,382, 6-14-60, Cl. 100-21.
- Hollyday, James H., to Sperry Rand Corp. Tying mechanism. 2,957,500, 10-25-60, Cl. 140-149.
- Hollyday, William C., Jr.: See—
- Black, James F., Hollyday, and Guthrie. 2,955,995.
- Tutwiler, Thomas S., and Hollyday. 2,936,300.
- Hollywood Plastics, Inc.: See—
- Fornas, Levi L. 2,960,134.
- Holm, Donald R. W.: See—
- Mulcahy, Harry W., and Holm. 2,940,609.
- Holm, Harry A. R. Method for burning clay slate or clay. 2,948,630, 8-9-60, Cl. 106-40.
- Holm, Helge, to The Denver Post, Inc. Receptacle. 2,950,945, 8-30-60, Cl. 312-118.
- Holm, Kurt A.: See—
- Wiklundh, Leif S.-E., Persson, and Holm. 2,944,924.
- Holm, Le Roy W., to The Pure Oil Co. Removal of naphthenic acids by hydrogenation with a molybdenum oxide-silica alumina catalyst. 2,921,023, 1-12-60, Cl. 208-263.
- Holm, Le Roy W., to The Pure Oil Co. Contact filtration of lubricating oils at high temperatures. 2,931,771, 4-5-60, Cl. 208-263.
- Holm, Le Roy W., and H. O. Folkins, to The Pure Oil Co. Hydrocatalytic refining of lubricating oils and catalyst therefor. 2,921,025, 1-12-60, Cl. 208-264.
- Holm, LeRoy W., and H. O. Folins, to The Pure Oil Co. Regeneration of a molybdenum oxide containing catalyst employed in the hydrogenation of lubricating oils. 2,963,419, 12-6-60, Cl. 208-144.
- Holm, Ralph L.: See—
- Dalglisch, James J., Holm, Lager, and Beer. 2,924,405.
- Martin, Robert W., and Holm. 2,938,875.
- Holm, Vernon C. F.: See—
- Bailey, Grant C., Holm, and Clark. 2,949,429.
- Holm, Vernon C. F., G. C. Bailey, and A. Clark, to Phillips Petroleum Co. Process and catalyst for the polymerization of olefins. 2,921,971, 1-19-60, Cl. 260-683.15.
- Holm, Walter B. Material lift truck. 2,940,625, 6-14-60, Cl. 214-660.
- Holman, Benjamin J.: See—
- Johnson, Thomas B., and Holman. 2,934,990.
- Holman Bros. Ltd.: See—
- Harvey, Joseph E. 2,954,653.
- Holman, Erwin W., and W. C. Schmidt, to Bell Telephone Laboratories, Inc. Transistor selective ringing circuit. 2,957,950, 10-25-60, Cl. 179-84.
- Holman, Herbert E., to Electric & Musical Industries Ltd. Television cameras. 2,960,569, 11-15-60, Cl. 178-7.2.
- Holman, John W. Cloth measuring device. 2,938,271, 5-31-60, Cl. 3-134.
- Holman, Lee B., and W. T. Smith, to State Steel Products, Inc. Gyrotory separator. 2,950,819, 8-30-60, Cl. 209-326.
- Holman, Roger A.: See—
- Reed, William A., and Holman. 2,933,305.
- Holman, Wesley A., to International Business Machines Corp. Magnetic transducer. 2,963,690, 12-6-60, Cl. 340-174.
- Holmberg, Adolph W.: See—
- Howley, Bernard G., and Holmberg. 2,941,297.
- Holmberg, Anders, and N. J. D. Nilsson. Sintering apparatus. 2,961,232, 11-22-60, Cl. 266-21.
- Holmberg, Folke, to Industriaktiebolaget Luxor. Apparatus for recording and reproducing sound on elongated recording mediums. 2,961,180, 11-22-60, Cl. 242-55.12.
- Holmberg, Richard H.: See—
- Shea, James J., Holmberg, and Boggio. 2,942,189.
- Holmes, Alan W.: See—
- Green, Edward, Graham, Gardner, and Holmes. 2,958,606.
- Holmes, Bradford B., to Bendix Aviation Corp. Balanced valve means. 2,920,859, 1-12-60, Cl. 251-282.
- Holmes, Bradford B., to The Bendix Corp. Pressure regulating valve. 2,951,494, 9-6-60, Cl. 137-64.
- Holmes, Carl L.: See—
- Kustusch, Paul. 2,921,375.



- Holmes, Carlton A., and D. O. Madsen, to Halvorson Trees, Inc. Tree stand. 2,928,633, 3-15-60, Cl. 248-44.
- Holmes, Charles H., 49% to G. R. Roux. Magnetic retriever. 2,932,538, 4-12-60, Cl. 294-65.5.
- Holmes, David D., to Radio Corp. of America. Semiconductor signal translating circuit. 2,920,189, 1-5-60, Cl. 250-20.
- Holmes, David D., to Radio Corp. of America. Miller effect control of bandpass in vicinity of subcarrier frequency. 2,934,599, 4-26-60, Cl. 178-5.4.
- Holmes, David D., to Radio Corp. of America. Automatic gain control system for signal receivers. 2,937,340, 5-17-60, Cl. 330-21.
- Holmes, David D., to Radio Corp. of America. Combined manual and automatic gain control circuit. 2,939,950, 6-7-60, Cl. 250-20.
- Holmes, Donald C. Strawberry grader. 2,966,263, 12-27-60, Cl. 209-97.
- Holmes, Edward M., to Roberts Machine Co. Inc. Wire snipping tool. 2,951,288, 9-6-60, Cl. 30-240.
- Holmes, Edward W., and G. W. F. Richards. Valves. 2,964,288, 12-13-60, Cl. 251-126.
- Holmes, Ernest, Co.: See—  
Cline, Earl E. 2,928,557.
- Holmes, Ernest W., Jr., Cline, and Holmes. 2,921,697.
- Holmes, Ernest W., Jr., E. E. Cline, and G. E. Holmes, to Ernest Holmes Co. Hoisting apparatus. 2,921,697, 1-19-60, Cl. 212-144.
- Holmes, Gene C. Helicopter. 2,936,971, 5-17-60, Cl. 244-17.21.
- Holmes, Gerald E.: See—  
Holmes, Ernest W., Jr., Cline, and Holmes. 2,921,697.
- Holmes, George S., to Continental Can Co., Inc. Folding paperboard carrier for bottles and the like. 2,965,261, 12-20-60, Cl. 220-115.
- Holmes, Gifford I., to Baso Inc. Combined electroresponsive valve and pressure regulator. 2,938,539, 5-31-60, Cl. 137-505.42.
- Holmes, Harleigh, Four Wheel Drive Co.: See—  
Holmes, Harleigh R. and L. E. 2,920,709.
- Holmes, Harleigh R. and L. E., to Harleigh Holmes Four Wheel Drive Co. Steering-drive wheel assembly with bearing adjusting means. 2,920,709, 1-12-60, Cl. 180-43.
- Holmes, Harleigh R., Jr. to F. A. B. Mfg. Co. Universal joint. 2,952,144, 9-13-60, Cl. 64-17.
- Holmes, John R., R. B. Mandy, and F. D. Taylor, to General Motors Corp. By-pass control in air conditioning systems. 2,942,433, 6-23-60, Cl. 62-197.
- Holmes, Lee E.: See—  
Holmes, Harleigh R. and L. E. 2,920,709.
- Holmes, Mark N., to Burlington Industries, Inc. Hosiery. 2,949,023, 8-16-60, Cl. 66-178.
- Holmes, Paul J., to Borg-Warner Corp. Transducer systems. 2,959,965, 11-15-60, Cl. 73-517.
- Holmes, Peter D.: See—  
Birch, Stanley F., and Holmes. 2,943,094.
- Holmes, Raynor M.: See—  
Inman, William H., and Holmes. 2,955,735.
- Holmes, Raynor M., to Bloomer Bros. Co. Food container. 2,961,140, 11-22-60, Cl. 229-14.
- Holmes, Robert. Automobile air conditioning system for drive-in theaters. 2,962,951, 12-6-60, Cl. 98-2.
- Holmes, Robert G.: See—  
Crowley, George C., Holmes, and Wise. 2,959,662.
- Holmes, Romaine E., Jr., to Kelsey-Hayes Co. Disk brake. 2,957,552, 10-25-60, Cl. 188-73.
- Holmes, Theodore R., to Burroughs Wellcome & Co. (U.S.A.) Inc. Device for dispensing muscle relaxant drugs. 2,957,501, 10-25-60, Cl. 141-2.
- Holmes, Theodore R., to Burroughs Wellcome & Co. (U.S.A.) Inc. Device for dispensing muscle relaxant drugs. 2,957,609, 10-25-60, Cl. 222-212.
- Holmes, Thomas, to North American Philips Co., Inc. High-pressure electric discharge tube. 2,951,171, 8-30-60, Cl. 313-209.
- Holmes, Thomas H., to Texaco Inc. Device for loading tandem charge arrays. 2,941,615, 6-21-60, Cl. 181-5.
- Holmes, Walter L.: See—  
Smith, William C., McMurray, and Holmes. 2,960,477.
- Holmes, Wilbur E. Hay raking and baling machine. 2,933,877, 4-26-60, Cl. 56-341.
- Holmes, Willard F.: See—  
Kustusch, Paul. 2,921,375.
- Holmes, William R., C. W. Le Feuvre, R. Lait, and W. S. Wood, to La Porte Chemicals Ltd. Process for the catalytic reduction of alkylated or arylated anthraquinones. 2,930,803, 3-29-60, Cl. 260-369.
- Holmgren, Bo: See—  
Slettenmark, Ivar, Holmgren, and Winell. 2,933,627.
- Holmquist, C. Walter, to Copperweld Steel Co. Horizontally movable feed table. 2,942,505, 6-28-60, Cl. 80-46.
- Holmquist, Howard E., and J. C. Sauer, to E. I. du Pont de Nemours and Co. Metal salts of open-chain dihydroxydicarboxylic acids and esters, their monolactone acids, salts, esters and amides and their preparation. 2,957,009, 10-18-60, Cl. 260-343.5.
- Holmstrom, Carl, to Muskegon Awning and Mfg. Co. Folding shelter. 2,960,993, 11-22-60, Cl. 135-4.
- Holmstrom, William L.: See—  
Kimsey, Woodrow P., and Holmstrom. 2,934,336.
- Holohan, Bartholomew A., to Club Razor Blade Mfg. Co. Blade magazine. 2,919,795, 1-5-60, Cl. 206-16.
- Holness, Douglas, and J. F. Bertram, to Lever Bros. Co. Preservation of soap compositions. 2,955,120, 10-4-60, Cl. 260-398.5.
- Holo-Flite International Inc.: See—  
Christian, Joseph D. 2,966,068.
- Holoubek, George H., and H. E. Harms, to The Celon Co. Method of casting plastic articles having integral sheen. 2,953,819, 9-27-60, Cl. 18-58.
- Holovka, Charles, Jr., to International Business Machines Corp. Perforating mechanism for record cards. 2,923,452, 2-2-60, Cl. 225-93.
- Holowaty, Michael O., and A. M. Kroner, to Inland Steel Co. Process of making ladle stopper heads. 2,949,637, 8-23-60, Cl. 18-47.5.
- Holowaty, Michael O., and L. M. Bernick, to Inland Steel Co. Temperature measuring system. 2,957,349, 10-25-60, Cl. 73-351.
- Holper, Frank, to Molon Motor & Coil Corp. Motor brake. 2,960,100, 11-15-60, Cl. 188-1.
- Holroyd, John, & Co. Ltd.: See—  
Stott, Frank T. 2,963,993.
- Holst, Anna D.: See—  
Stott, Frank T. 2,966,125.
- Holman, Henry T., and L. W. Potts, to Aseptic Food Fillers, Inc. Means and method for aseptic packaging. 2,930,170, 3-29-60, Cl. 53-37.
- Holst, Fred W. and A. D. 2,921,484.
- Holst, Fred W. and A. D. Saw sharpening apparatus. 2,921,484, 1-19-60, Cl. 76-40.
- Holstein, Alvin W., and E. S. Marr, to National Vendors, Inc. Coin controlled apparatus. 2,935,170, 5-3-60, Cl. 194-19.
- Holstein, Alvin W., and J. E. Stanhope, to National Vendors, Inc. Vending machine. 2,952,384, 9-13-60, Cl. 221-104.
- Holstein, Arthur G., to Pfanstiel Laboratories, Inc. Chelation composition and method of making the same. 2,943,100, 6-28-60, Cl. 260-429.
- Holstein, Frederick W., to The Rails Co. Inspirator igniters and wiring systems. 2,960,158, 11-15-60, Cl. 158-122.
- Holstein, Frederick W., to The Rails Co. Safety ignition systems. 2,960,159, 11-15-60, Cl. 158-122.
- Holstein, Otto, to International Standard Electric Corp. Clutch apparatus. 2,924,317, 2-9-60, Cl. 192-48.
- Holstein, Otto A. H., to International Standard Electric Corp. Function controlling apparatus for printing devices. 2,939,911, 6-7-60, Cl. 178-34.
- Holt, Arthur D., to The Jeffrey Mfg. Co. Vibrating conveyor. 2,960,213, 11-15-60, Cl. 198-220.
- Holt, Charles A. Service and ventilating unit for the window openings of vehicles. 2,935,924, 5-10-60, Cl. 98-2.
- Holt, Frederick W., Jr.: See—  
Witt, Everette E., and Holt. 2,933,405.
- Holt, Harold S., and I. F. Walker, to E. I. du Pont de Nemours and Co. Selected tetrasubstituted monosilanes. 2,928,857, 3-15-60, Cl. 260-448.8.
- Holt, Ivan E. Mechanical stabber for rod or tubing pulling units. 2,926,891, 3-1-60, Cl. 255-35.
- Holt, Jerome J. Pocket oxygen dispenser. 2,920,623, 1-12-60, Cl. 128-208.
- Holt, John E., to The Danielson Mfg. Co. Method and apparatus for manufacture of nylon rods, shapes and tubes. 2,934,788, 5-3-60, Cl. 18-47.5.
- Holt, Mark L., to Chattanooga Welding & Machine Co., Inc. Baling press. 2,934,002, 4-26-60, Cl. 100-218.
- Holt, Marshall E., W. Mason, and J. B. Murland, Jr., to Aluminum Co. of America. Finned tube expansion control apparatus. 2,941,569, 6-21-60, Cl. 153-79.
- Holt, Miles R., to Courtland Laboratories. Intravenous solution bottle assembly. 2,923,297, 2-2-60, Cl. 128-272.
- Holt, Pliny G., to United States of America, Navy. Automatic limit and return tripping apparatus. 2,926,222, 2-23-60, Cl. 200-47.
- Holt, Pliny G., to United States of America, Navy. Apparatus for indicating width variations in a longitudinal, catapult cylinder slot. 2,956,341, 10-18-60, Cl. 33-148.
- Holt, Samuel L.: See—  
Annear, John D., White, and Holt. 2,946,221.
- Holt, Thomas E., and W. Sabel, to Glaxo Laboratories Ltd. Process for the extraction and purification of sapogenins. 2,960,500, 11-15-60, Cl. 260-239.55.
- Holt, Thomas E., and J. Attenburrow, to Glaxo Laboratories Ltd. Hydrolysis of steroid semicarbazones. 2,961,450, 11-22-60, Cl. 260-397.45.
- Holt, William E. Floor surfacing machine having handle movable to upright storage position. 2,926,369, 3-1-60, Cl. 15-49.
- Holt, William E. Floor machine with retractable wheels and adjustable handle assembly. 2,949,619, 8-23-60, Cl. 15-49.
- Holt, William J., Jr., to The Gyrex Corp. Mechanical vibratory unit. 2,939,971, 6-7-60, Cl. 310-15.
- Holthaus, James E.: See—  
Lavoie, Andrew J., Holthaus, Peters, and Leone. 2,940,695.
- Holthe, Raymond E.: See—  
Johnson, Lloyd E., and Holthe. 2,922,314.
- Holther, James H. Method of vaporizing. 2,921,832, 1-19-60, Cl. 21-53.
- Holtje, Malcolm C., to General Radio Co. Method of and system for supplying power. 2,942,172, 6-21-60, Cl. 321-18.



- Holtkamp, Calvin J., to Westinghouse Electric Corp. Electric heater control apparatus. 2,926,233, 2-23-60, Cl. 219-20.
- Holtkamp, Calvin J., to Westinghouse Electric Corp. Control system for a roasting oven. 2,933,585, 4-19-60, Cl. 219-20.
- Holtkamp, Calvin J., to Westinghouse Electric Corp. Control for flashing electric heaters. 2,944,135, 7-5-60, Cl. 219-20.
- Holtkamp, Calvin J., to Westinghouse Electric Corp. Control for flashing electric heaters. 2,944,136, 7-5-60, Cl. 219-20.
- Holtkamp, Calvin J., to Westinghouse Electric Corp. Control apparatus for a heating device. 2,943,176, 6-28-60, Cl. 219-20.
- Holtkamp, William E., Jr.: See—  
Blake, Norman B., and Holtkamp. 2,941,160.
- Holton, Gresham R., and H. R. Burrough. Tire truing device. 2,924,268, 2-9-60, Cl. 157-13.
- Holton, Howard F. Disposable and dispensable tooth brush. 2,921,590, 1-19-60, Cl. 132-84.
- Holton, Robert J., to Tinnerman Products Inc. Fastening device. 2,924,864, 2-16-60, Cl. 24-73.
- Holton, Robert J., to Tinnerman Products, Inc. Clips for moldings, cables and the like. 2,948,938, 8-16-60, Cl. 24-73.
- Holton, Robert J., to Tinnerman Products Inc. Friction hinge. 2,949,627, 8-23-60, Cl. 16-140.
- Holtschmidt, Ulrich, to Th. Goldschmidt, A.G. Process of impregnating paper to form laminated material. 2,964,426, 12-13-60, Cl. 117-155.
- Holtslander, Carlton H.: See—  
Thornburgh, Roy S., Holtslander, and Jurk. 2,925,061.
- Holtz, Charles E., and H. W. Roehrer, to Sylvania Electric Products Inc. Method of making tabbed heater. 2,953,842, 9-27-60, Cl. 29-155.68.
- Holtz, Raymond K.: See—  
Warrick, Edward C., Holtz, and Kmetz. 2,956,595.
- Holtzberg, Frederic, to International Business Machines Corp. Silver niobate ferroelectric materials. 2,947,698, 8-2-60, Cl. 252-62.9.
- Holtzclaw, Grover B., to Parks-Cramer Co. Flexible sleeve for traveling cleaner. 2,931,061, 4-5-60, Cl. 15-312.
- Holub Industries, Inc.: See—  
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- Holub, Otto: See—  
Müller, Willy, and Holub. 2,933,566.
- Holuba, Henry J.: See—  
Keppler, Jack W., and Holuba. 2,941,624.
- Holubecki, Zbigniew: See—  
Fosberry, Ronald A. C., and Holubecki. 2,941,631.
- Holz, Frederick C.: See—  
Blink, Peter, and Holz. 2,936,820.
- Holzboog, Walter H.: See—  
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- Holzboog, Walter H., to Micro Controls, Inc. Temperature-sensitive heat control unit. 2,934,956, 5-3-60, Cl. 73-368.
- Holzenenthal, Leo L., to United States of America, Agriculture. Cottonseed cleaner. 2,964,180, 12-13-60, Cl. 209-78.
- Holzer, Frederick L. Stair construction. 2,936,863, 5-17-60, Cl. 189-43.
- Holzer, Robert E., to United States of America, Navy. Training device for mark 14 gunsight. 2,965,979, 12-27-60, Cl. 35-25.
- Holzer, Walter. Device for operating a preset switch. 2,946,863, 7-26-60, Cl. 200-35.
- Holzinger, Rudolph J., to Socony Mobil Oil Co., Inc. Antifreeze composition. 2,951,038, 8-30-60, Cl. 252-73.
- Holzinger, Rudolph J., and G. M. Whelan, to Socony Mobil Oil Co., Inc. Waterproofing of leathers. 2,964,425, 12-13-60, Cl. 117-142.
- Holzinger, Val. Pipe organ. 2,945,409, 7-19-60, Cl. 84-348.
- Holzmann, Philipp, Aktiengesellschaft: See—  
Zerna, Wolfgang, and Muhe. 2,934,935.
- Holzmüller, Charles T., Sr. Anti-skid device. 2,929,428, 3-22-60, Cl. 152-236.
- Holzschuh, Donald L., and J. W. Smith, to Collins Radio Co. Microwave antenna switch. 2,949,586, 8-16-60, Cl. 333-7.
- Holzwarth, Henry A., J. J. Wetherell, and J. D. Wark, to Mine Safety Appliances Co. Lens retainer. 2,956,474, 10-18-60, Cl. 88-57.
- Holzwarth, James C.: See—  
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- Homan, Merle E.: See—  
Horwitz, Henry L., and Homan. 2,924,663.
- Home-Ease Ltd.: See—  
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- Home-O-Nize Co., The: See—  
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- Homer, Horace H., M. J. B. Thomas, and K. H. Butler, to Sylvania Electric Products Inc. Fluorescent lamp. 2,962,616, 11-29-60, Cl. 313-109.
- Homer, Howard J., and J. R. Whitacre, to Union Carbide Corp. Process for providing protective metal coatings. 2,930,712, 3-29-60, Cl. 117-50.
- Homer, Howard J., and J. R. Whitacre, to The Commonwealth Engineering Co. of Ohio. Nickel coated iron particles. 2,933,415, 4-19-60, Cl. 117-100.
- Homer, Ronald F.: See—  
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- Homestead Valve Mfg. Co.: See—  
Hulslander, William L. 2,965,123.
- Homeyer, Bernhard: See—  
Urbschat, Ewald, and Homeyer. 2,922,741.
- Homier, Paul A., and R. G. Litchfield, to Johnson & Johnson. Padding material for surgical casts. 2,935,065, 5-3-60, Cl. 128-91.
- Homier, Robert I., to American Metal Products Co. Seat supporting mechanism. 2,929,438, 3-22-60, Cl. 155-14.
- Homma, Roger E., to Ortho Pharmaceutical Corp. Dispensing container. 2,941,696, 6-21-60, Cl. 222-136.
- Homma, Josef. Clamp. 2,923,995, 2-9-60, Cl. 24-263.
- Homme, John E., to Hamilton Mfg. Co. Folding tables and wall supports therefor. 2,949,154, 8-16-60, Cl. 155-124.
- Hompe, Robert W.: See—  
Bartlett, Richard J., and Hompe. 2,920,524.
- Honda, Hajime, to Philco Corp. Signal channeling system. 2,948,863, 8-9-60, Cl. 333-10.
- Honer, Robert E., to General Dynamics Corp. Slotted waveguide lobing in radar system. 2,946,997, 7-26-60, Cl. 343-11.
- Honerkamp, Friedrich: See—  
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- Honerkamp, Friedrich, and V. O. Lundberg, to Anemostat Corp. of America. Machine for curving strip material. 2,922,324, 1-26-60, Cl. 80-31.1.
- Honey, Eric M. O., C. R. Hardy, and F. Sharp, to Pritchett & Gold and E.P.S. Co. Ltd. Porous plastic sheeting. 2,959,822, 11-15-60, Cl. 18-59.
- Honey, Richard C., E. M. T. Jones, and S. B. Cohn, to United States of America, Army. Omnidirectional antenna systems. 2,954,558, 9-27-60, Cl. 343-773.
- Honeyager, Robert G.: See—  
Adams, Kenneth C., and Honeyager. 2,935,889.
- Honeycutt, Clyde R.: See—  
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- Honeycutt, Earl M., to Sun Oil Co. Catalytic desulfurization of blend of a reformer feed and a furnace oil. 2,958,654, 11-1-60, Cl. 208-216.
- Honeycutt, Earl M., to Sun Oil Co. Removing acids from petroleum. 2,966,456, 12-27-60, Cl. 208-263.
- Honeycutt, Murray: See—  
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- Honeyman, Robert B., to Marden Machines Co. Remover for rags and the like for a pulp treating machine. 2,945,592, 7-19-60, Cl. 210-542.
- Hongo, Motoyoshi, to Sanraku Shuzo Kabushiki Kaisha. Process for producing butanol by fermentation. 2,945,786, 7-19-60, Cl. 195-44.
- Honig, Frank. Apparatus for stressing strand materials. 2,932,077, 4-12-60, Cl. 28-71.3.
- Honjo, Miko: See—  
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- Honkanen, George P.: See—  
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- Honkavaara, Sylvia S. Method of determining type of personality and apparatus therefor. 2,959,871, 11-15-60, Cl. 35-22.
- Honn, Francis J.: See—  
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- Honn, Francis J., to Minnesota Mining and Mfg. Co. Copolymers of styrene and fluorinated dienes. 2,949,446, 8-16-60, Cl. 260-87.5.
- Honn, Francis J., to Minnesota Mining and Mfg. Co. Copolymers of fluorodienes and styrene. 2,962,484, 11-29-60, Cl. 260-87.5.
- Honn, Francis J., and F. W. West, to Minnesota Mining and Mfg. Co. Stabilization of perfluorochloroolefin polymers. 2,922,824, 1-26-60, Cl. 260-652.5.
- Honn, Francis J., and W. M. Sims, to Minnesota Mining and Mfg. Co. Cross-linking of fluorinated elastomers. 2,965,619, 12-20-60, Cl. 260-79.5.
- Honn, Harry A. Adjustable gage marker. 2,961,773, 11-29-60, Cl. 33-197.
- Honnen, Maria, to The Richardson Co. Cresylic acid resin-polyamide varnish. 2,930,774, 3-29-60, Cl. 260-19.
- Honolka, Walter, to Firma Bolkow Entwicklungen Kommanditgesellschaft of Stuttgart. Apparatus for signal transmission and reception. 2,941,035, 6-14-60, Cl. 179-1.5.
- Honolka, Walter, to Firma Bolkow Entwicklungen Kommanditgesellschaft of Stuttgart. Electrical signal scrambling and unscrambling apparatus. 2,941,036, 6-14-60, Cl. 179-1.5.
- Honolulu Gas Co., Ltd.: See—  
Joy, Paul C. 2,961,859.
- Honsel, Carl. Method of manufacturing crossed bottom bags with tubular sleeve inserts. 2,955,517, 10-11-60, Cl. 93-35.
- Honsel, Carl. Multi-layer crossed bottom valve bags. 2,962,204, 11-29-60, Cl. 229-62.5.
- Hood, Alva A. Rotary jig and methods for treating iron ore. 2,925,179, 2-16-60, Cl. 209-455.
- Hood, Edwin E.: See—  
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- Hood, Edwin E., to Bendix Aviation Corp. Two-speed gearing for velocipedes. 2,924,115, 2-9-60, Cl. 74-489.
- Hood, Edwin E., to Bendix Aviation Corp. Semi-automatic two-speed hub for velocipedes and the like. 2,940,339, 6-14-60, Cl. 74-750.



- Hood, Edwin E., and H. K. Gleasman, to The Bendix Corp. Semi-automatic two-speed hub and back-peddaling brake for velocipedes and the like. 2,957,559, 10-25-60, Cl. 192-6.
- Hood, George C.: *See*—  
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- Hood, George C., R. E. Smith, and G. J. Pierotti, to Shell Oil Co. Purifying hydrogen peroxide. 2,949,343, 8-16-60, Cl. 23-207.
- Hood, Ian A., and P. H. Dalle Mura, to United States of America, Air Force. Control of multiple pulse signals. 2,922,117, 1-19-60, Cl. 330-124.
- Hood, Walter J.: *See*—  
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- Hoodwin, Louis S., to Electro-Voice, Inc. Electroacoustical device. 2,921,135, 1-12-60, Cl. 179-1.
- Hooper, Charles F. Snap-on price tag holder. 2,924,900, 2-16-60, Cl. 40-11.
- Hooper, Charles F. Sheet holding and dispensing device. 2,950,821, 8-30-60, Cl. 211-54.
- Hoog, Alois C.: *See*—  
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- Hoogstede, Leon E., to Norton Co. Packaging device. 2,944,716, 7-12-60, Cl. 229-14.
- Hook, Edwin O., and G. A. Loughran, to American Cyanamid Co. Rubber chemical. 2,954,379, 9-27-60, Cl. 260-247.1.
- Hook, Gerald E., and E. K. Morice, to General Motors Corp. Propeller blade dynamic balance testing machine. 2,926,529, 3-1-60, Cl. 73-456.
- Hook, John T., and R. G. Mack; said Hook assor. to said Mack. Folding chair. 2,943,672, 7-5-60, Cl. 155-139.
- Hook, Robert D. H. Package for cigarettes and other articles. 2,940,590, 6-14-60, Cl. 206-41.2.
- Hook, Russell P., to Norton Co. Lapping machine. 2,963,830, 12-13-60, Cl. 51-131.
- Hook, Wesley B. Helicopter rotor head and rotor control. 2,919,753, 1-5-60, Cl. 170-160.25.
- Hooker, Charles L., Jr. Oil and water separating pump for oil wells. 2,946,387, 7-26-60, Cl. 166-105.
- Hooker Chemical Corp.: *See*—  
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Rosenberg, David S., and Weil. 2,951,081.  
Rucker, John T. 2,934,470.  
Rucker, John T. 2,949,491.
- Hooker, Donald E., to R. T. Moloney. Velocity controlled game circuit. 2,931,656, 4-5-60, Cl. 273-118.
- Hooker, Donald E., and C. T. Breitenstein, to R. T. Moloney, deceased; American National Bank and Trust Co. of Chicago, executor. Changeable score control and display mechanism. 2,932,517, 4-12-60, Cl. 273-119.
- Hooker, Donald E., to R. T. Moloney, deceased, American National Bank and Trust Company of Chicago, executor. Spring testing and selecting apparatus. 2,949,188, 8-16-60, Cl. 207-79.
- Hooker, Emerson F. Metal bed rail with shouldered bed lock. 2,947,999, 8-9-60, Cl. 5-286.
- Hooker, Stanley G., and K. W. Clark, to Bristol Aero-Engines Ltd. Rotor assemblies for gas turbine engines. 2,928,650, 3-15-60, Cl. 253-39.15.
- Hookings, Paul H. H., and J. S. Thom, to Major Aluminum Products Ltd. Flexible pipe coupling. 2,926,028, 2-23-60, Cl. 285-90.
- Hookway, Harry T., D. K. Hale, and R. G. Goldsmith, to National Research Development Corp. Process of sulfonating a plasticized polyvinyl chloride film to form a cation permeable membrane. 2,948,637, 8-9-60, Cl. 117-47.
- Hooper, Alton V.: *See*—  
Carter, Thomas A., Jr., and Hooper. 2,946,288.
- Hooper, Jack. Auxiliary emergency carburetor. 2,957,684, 10-25-60, Cl. 261-44.
- Hooper, Louis K., to Crane Co. Leak measuring apparatus. 2,961,868, 11-29-60, Cl. 73-40.
- Hooper, Nathaniel L.: *See*—  
Daschke, Arthur W., and Hooper. 2,958,040.
- Hooper, Richard E. *See*—  
Samhammer, Donald F., and Hooper. 2,964,305.
- Hooper, William W., and G. W. Traver. Merchandise rack and method of forming. 2,946,500, 7-26-60, Cl. 229-42.
- Hoopes, Penrose R., W. T. Shinn, R. T. Vaughan, and S. L. Parsons, to Philco Corp. Fabrication of electrical devices. 2,928,931, 3-15-60, Cl. 219-85.
- Hoos, Curtis G.: *See*—  
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Dorman, Isidore, and Hoos. 2,951,326.
- Hoos, James M. Cleaning cover for brooms. 2,963,731, 12-13-60, Cl. 15-247.
- Hoos, James M. Electrical stop motion for knitting machines. 2,963,890, 12-13-60, Cl. 66-157.
- Hooven, Frederick J., and R. C. O'Brien, to The Harris-Inter-type Corp. Photographic type composition. 2,944,472, 7-12-60, Cl. 95-4.5.
- Hoover Ball & Bearing Co.: *See*—  
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- Hoover, Charles D., to Liqua-Mix, Inc. Adjustable pump and liquid proportioning device. 2,954,737, 10-4-60, Cl. 103-38.
- Hoover, Christina: *See*—  
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- Hoover Co., The: *See*—  
Beach, Justice H. 2,954,577.  
Beach, Justice H. 2,955,183.  
Carabet, George F. 2,938,225.  
Carabet, George F. 2,958,894.  
Duff, Jack E. 2,954,802.  
Groutage, Thomas E. 2,939,022.  
Helm, Mark W. 2,954,576.  
Krammes, Don C. 2,955,674.  
Martin, Frank A. 2,938,232.  
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Favlic, Mary C. 2,963,749.  
Favlic, Mary C. 2,963,750.
- Hoover, Conrad L., to E. I. du Pont de Nemours and Co. New crystalline form of silica and its preparation. 2,965,448, 12-20-60, Cl. 23-182.
- Hoover, Curtis R., deceased (C. Hoover, executrix). Revolving aircraft ski. 2,942,808, 6-28-60, Cl. 244-103.
- Hoover, Fred W., to E. I. du Pont de Nemours and Co. Process for preparing ortho divinylbenzene. 2,933,541, 4-19-60, Cl. 260-669.
- Hoover, Fred W., to E. I. du Pont de Nemours and Co. Synthesis of carboxylic acids. 2,940,914, 6-14-60, Cl. 204-154.
- Hoover, Fred W., to E. I. du Pont de Nemours and Co. 1,3,4-trivinylbenzene and process for preparing the same. 2,951,884, 9-6-60, Cl. 260-669.
- Hoover, Fred W., and H. C. Miller, to E. I. du Pont de Nemours and Co. Chelates and methods of making the same. 2,933,475, 4-19-60, Cl. 260-63.
- Hoover, Howard L., E. J. Dupre, and W. J. Rankin, to Minnesota Mining and Mfg. Co. Low density open non-woven fibrous abrasive article. 2,958,593, 11-1-60, Cl. 51-295.
- Hoover, John I., and C. M. Gordon. Cerenkov radiation fission product detector. 2,954,473, 9-27-60, Cl. 250-71.5.
- Hoover, John W., to Fibreboard Paper Products Corp. Dispensing and display container. 2,927,697, 3-8-60, Cl. 211-50.
- Hoover, John W., to Fibreboard Paper Products Corp. Storage and display racks. 2,930,486, 3-29-60, Cl. 211-44.
- Hoover, Kenneth H. Exhaust gas conditioner. 2,943,920, 7-5-60, Cl. 23-284.
- Hoover, Lester D.: *See*—  
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- Hoover, Merle L.: *See*—  
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- Hoover, Merle V., to Radio Corp. of America. Electron tube fault detection. 2,928,026, 3-8-60, Cl. 315-125.
- Hoover, Vaino A. Mechanical actuator interlocking system. 2,941,638, 6-21-60, Cl. 192-02.
- Hoover, Vincent J. Concrete storage structure. 2,958,983, 11-8-60, Cl. 50-346.
- Hoover, Warren R., and R. F. Devereux, to General Dynamics Corp. Strainage rate gyro. 2,964,952, 12-20-60, Cl. 74-5.6.
- Hooverson, Charles P., to General Motors Corp. Vehicle seat. 2,926,950, 3-1-60, Cl. 296-66.
- Hooverson, Charles P., to General Motors Corp. Weather seal structure. 2,933,784, 4-26-60, Cl. 20-69.
- Hope, David G., E. A. Filipowicz, W. G. Renard, and R. B. Wiggins, to Fort Howard Paper Co. Dispensing devices for paper towels. 2,932,426, 4-12-60, Cl. 221-36.
- Hope, Eric S.: *See*—  
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- Hope, Orville L., 20% to D. F. Westmoreland and 20% to C. H. Marcotte. Package size control and method. 2,922,272, 1-26-60, Cl. 57-78.
- Hope, Orville L., 20% to D. F. Westmoreland and 20% to C. H. Marcotte. Means for producing tapered yarn packages. 2,922,591, 1-26-60, Cl. 242-26.3.
- Hope Rubber Co., Inc.: *See*—  
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- Hopengarten, Abram, P. G. Wolfe, and R. C. Moore, to Philco Corp. Horizontal deflection system for cathode ray tubes. 2,921,230, 1-12-60, Cl. 315-27.
- Hopf, Fred P., to Grand Specialties Co. Telescoping elevators. 2,948,363, 8-9-60, Cl. 189-14.
- Hopf, Fred P., to Grand Specialties Corp. Lift trucks. 2,959,309, 11-8-60, Cl. 214-373.
- Hopf, Henry. Ladder construction and the method for making the same. 2,932,358, 4-12-60, Cl. 182-46.
- Hopfer, Samuel, to Polytechnic Research & Development Co., Inc. Thermistor mounts. 2,933,705, 4-19-60, Cl. 333-98.
- Hopfner, Konrad, and W. Offermann, to Dehydag, Deutsche Hydrierwerke G.m.b.H. Polymer composition comprising a resinous polymer and the salt obtained by reacting a quaternary ammonium compound with an anionic surface active compound and method of making same. 2,925,397, 2-16-60, Cl. 260-30.6.
- Hopkin, William, and A. K. Barbour, to The National Smelting Co. Ltd. Copolymers of octafluorocyclohexa-1,3-diene. 2,958,683, 11-1-60, Cl. 260-82.1.
- Hopkins, Cecil L. Fountain liquid applicator with magnet ring valve seat. 2,940,106, 6-14-60, Cl. 15-139.



- Hopkins, Cecil L. Fountainbrushes for mobile material. 2,944,274, 7-12-60, Cl. 15-139.
- Hopkins, Cleveland. Rapid scanning antenna directive system. 2,934,763, 4-26-60, Cl. 343-758.
- Hopkins, Clyde M.: *See*—
- Hinkson, Robert H., and Hopkins. 2,936,775.
- Hopkins, Earl E., to General Electric Co. Ripping machine for electric cord. 2,930,515, 3-29-60, Cl. 225-101.
- Hopkins, Earl V., to The Youngstown Steel Door Co. Engine compartment access and inspection doors. 2,950,692, 8-30-60, Cl. 105-378.
- Hopkins, Edward H., to National Mfg. Co. Hinge means for a self-closing, gravity-actuated door panel. 2,920,340, 1-12-60, Cl. 16-153.
- Hopkins, Frank L., to Bemis Bro. Bag Co. Method of and apparatus for evacuating air from bag body at time of filling. 2,938,314, 5-31-60, Cl. 53-22.
- Hopkins, George A., Jr. Pallet jack. 2,925,999, 2-23-60, Cl. 254-10.
- Hopkins, Horace H., Jr., to United States of America, Atomic Energy Commission. Processing of neutron-irradiated uranium. 2,951,740, 9-6-60, Cl. 23-14.5.
- Hopkins, Jack R., to W. E. Sykes Ltd. Machines for grinding gears and similar profiles. 2,958,984, 11-8-60, Cl. 51-52.
- Hopkins, Leland G.: *See*—
- Schwartz, Anton J., and Hopkins. 2,941,235.
- Stearn, Franklin A., and Hopkins. 2,960,677.
- Hopkins, Richard H., to Sun Oil Co. Method and apparatus for seismic prospecting. 2,923,368, 2-2-60, Cl. 181-5.
- Hopkins, Robert P., to Rohm & Haas Co. Formed polymeric masses from divalent metal acrylates and processes for producing them. 2,930,768, 3-29-60, Cl. 260-2.2.
- Hopkins, Robert P., and H. C. Young, to Rohm & Haas Co. Fiber-reinforced resin-bearing tissues, films or sheets, articles obtained therefrom. 2,922,732, 1-26-60, Cl. 154-46.
- Hopkins, Russell: *See*—
- Leimer, Albert, and Schmid. 2,924,449.
- Hopkins, Ruth R. Bed with tilting headboard. 2,946,066, 7-26-60, Cl. 5-327.
- Hopkins, Shirley R., to United Shoe Machinery Corp. Fastener inserting devices. 2,946,420, 7-26-60, Cl. 193-43.
- Hopkins, Thomas R.: *See*—
- Epperly, Jean R., Zeisig, Hopkins, and Neighbors. 2,920,994.
- Hopkins, Thomas R., and P. D. Strickler, to Spencer Chemical Co. Adduct of 1,2-dibromo-3-chloropropane and thiourea. 2,947,661, 8-2-60, Cl. 167-22.
- Hopkins, Thomas R., R. P. Neighbors, and O. L. Hoffmann, to Spencer Chemical Co. Nematocidal composition comprising amides of dihalopropionic acids. 2,957,800, 10-25-60, Cl. 167-30.
- Hopkins, William B. Engine. 2,962,008, 11-29-60, Cl. 123-45.
- Hopkinson, Eric C.: *See*—
- Tucker, Robert L., and Hopkinson. 2,964,777.
- Hopkinson, Harold H., M. D. Irwin, and V. R. Kessler, to Carrier Corp. Self-contained air conditioning units. 2,959,031, 11-8-60, Cl. 62-288.
- Hopla, Lloyd M. Cross-cut and rip guide device for portable power saws. 2,926,706, 3-1-60, Cl. 143-6.
- Hopp, John F.: *See*—
- Wallenberg, Ned L., and Hopp. 2,965,056.
- Hopp, Robert E., to Safeguard Corp. Digital printer and card punch machine. 2,931,291, 4-5-60, Cl. 101-19.
- Hopp, Victor A. Automobile trash receptacle. 2,925,172, 2-16-60, Cl. 206-19.5.
- Hoppe, Alfred, to Edelcanu Gesellschaft m.b.H. Process for separating paraffin wax from wax-containing hydrocarbon oils. 2,945,798, 7-19-60, Cl. 208-28.
- Hoppe, Clemens B. Apparatus for making concrete piles. 2,926,500, 3-1-60, Cl. 61-53.
- Hoppe, James O.: *See*—
- Nachod, Frederick C., Hoppe, and Buck. 2,921,884.
- Hoppe, John G., to General Electric Co. Process of potting electrical apparatus. 2,938,313, 5-31-60, Cl. 53-22.
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- Moller, Friedrich, Muller, Hoppe, and Braun. 2,941,967.
- Weinbrenner, Erwin, Hoppe, Breer, and Kisteneich. 2,935,100.
- Hoppe, Peter, 1/2 to Farbenfabriken Bayer Aktiengesellschaft, and 1/2 to Mobay Chemical Co. Plastic foam splint. 2,947,307, 8-2-60, Cl. 128-90.
- Hoppe, Peter, and H.-W. Paffrath, 1/2 to Farbenfabriken Bayer Aktiengesellschaft, and 1/2 to Mobay Chemical Co. Article comprising a cellular core and sheath. 2,927,876, 3-8-60, Cl. 154-54.
- Hoppe, William, and L. W. Schoppee, to Package Machinery Co. Bread slicing machine. 2,934,119, 4-26-60, Cl. 146-88.
- Hoppenstand Motors, Inc.: *See*—
- Hastings, Robert M. 2,936,785.
- Hopper, Edward T., Jr.: *See*—
- Davis, Charles M., Jr., and Hopper. 2,959,730.
- Hopper, June W.: *See*—
- Hopper, Robert J., and Elder. 2,953,442.
- Hopper Machine Works, Inc.: *See*—
- Suverkrop, Don. 2,952,962.
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- Hopper, Robert J., and B. B. Elder, to Del Mar Engineering Laboratories. Reeling unit for use on aircraft. 2,919,869, 1-5-60, Cl. 244-3.
- Hopper, Robert J., and B. E. Del Mar, to Del Mar Engineering Laboratories, Inc. Tow target launcher for use on airborne vehicles. 2,923,549, 2-2-60, Cl. 273-105.3.
- Hopper, Robert J., deceased (J. W. Hopper, executrix), and B. B. Elder, to Del Mar Engineering Laboratories. Tow target apparatus for high speed flight. 2,953,442, 9-20-60, Cl. 273-105.3.
- Hoppermann, Ole L., to H. Andreasen. Electric circuit for supplying an X-ray tube with a predetermined anode current which is equal to the substantially constant saturation current of the tube. 2,931,909, 4-5-60, Cl. 250-97.
- Hoppin, George S., III, to General Electric Co. Nickel-base brazing alloy containing manganese. 2,923,621, 2-2-60, Cl. 75-171.
- Hoppner, Martin, A. Schussler, and E. Schafer, to VEB Spinnereimaschinenbau Karl-Marx-Stadt. Gill box. 2,946,097, 7-26-60, Cl. 19-127.
- Hopson, William H., S. P. Sharp, and A. Steitz, Jr., to Pan American Petroleum Corp. Process for purification of oil-soluble alcohols by hydrogenation and urea adduction. 2,939,864, 6-7-60, Cl. 260-96.5.
- Hopton, Alan, and B. G. Howarth, to The Forgrove Machinery Co. Ltd. Separation of articles from a stack. 2,954,881, 10-4-60, Cl. 214-8.5.
- Hopwood, William E., to The Babcock & Wilcox Co. Combustion apparatus for ash containing fuel. 2,956,527, 10-18-60, Cl. 110-75.
- Horan, James F., and C. R. Stanley, to Boeing Airplane Co. Ground maneuvering system for jet airplanes. 2,957,650, 10-25-60, Cl. 244-50.
- Horan, Laurence J.: *See*—
- Caen, Kenneth G. 2,936,781.
- Horazak, Joseph A.: *See*—
- Litzler, Cyril A., and Horazak. 2,955,342.
- Horback, William B.: *See*—
- Singleton, Robert W., and Horback. 2,966,428.
- Horberg Grinding Industries, Inc.: *See*—
- Horberg, William. 2,953,417.
- Horberg, William, to Horberg Grinding Industries, Inc. Precision adjustable bearing structure. 2,953,417, 9-20-60, Cl. 308-189.
- Hore, Geoffrey D., and R. T. Rigelsford, to D. Napier & Son Ltd. Fluid seals for shafts. 2,956,825, 10-18-60, Cl. 286-9.
- Horelick, Samuel, and J. J. Zimsky, to McGraw-Edison Co. Method of construction for magnetic core. 2,963,776, 12-13-60, Cl. 29-153.57.
- Horeth, John M., to Jersey Production Research Co. Seismic trace translation. 2,924,810, 2-9-60, Cl. 340-15.
- Horgan, George D.: *See*—
- Bell, Arthur, and Horgan. 2,945,587.
- Horgan, Thomas B., to Avco Mfg. Corp. Temperature compensated permeability-tuned inductor. 2,954,538, 9-27-60, Cl. 336-30.
- Horgan, William H., to Moulded Products, Inc. Riding toy. 2,937,691, 5-24-60, Cl. 155-50.
- Horgan, William H., to Moulded Products, Inc. Riding toy. 2,953,375, 9-20-60, Cl. 272-52.
- Horgen, Helge, to Societe d'Etudes et de Participations Eau, Gaz, Electricite, Energie S.A. Gas-generators of the internal-combustion-operated free-piston type. 2,960,818, 11-22-60, Cl. 60-13.
- Hori, Katsu K., T. and M. Intermittent exploding device. 2,920,600, 1-12-60, Cl. 116-22.
- Hori, Makoto: *See*—
- Hori, Katsu K., T. and M. 2,920,600.
- Hori, Towi: *See*—
- Hori, Katsu K., T. and M. 2,920,600.
- Horiie, Shigeki: *See*—
- Murahashi, Shunsuke, and Horiie. 2,944,056.
- Horingklee, Walter: *See*—
- Asinger, Friedrich, Thiel, and Horingklee. 2,946,788.
- Horizons Inc.: *See*—
- Baskey, Raymond H. 2,928,167.
- Baskey, Raymond H., and Fisher. 2,927,370.
- Dickerson, Malon H. 2,935,403.
- Fotland, Richard A. 2,919,574.
- Fotland, Richard A. 2,966,612.
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- Sprague, Robert H. 2,940,979.
- Steinberg, Morris A., and McAllen. 2,950,233.
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- Horizons Titanium Corp.: *See*—
- Raynes, Bertram C. 2,955,078.
- Raynes, Bertram C., and Carlton. 2,937,128.
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- Horlacher, Elmer L., to General Motors Corp. Refrigerating apparatus. 2,930,556, 3-29-60, Cl. 248-15.
- Horlacher, Harry W.: *See*—
- Harris, Jean F., and Horlacher. 2,945,117.
- Horland, Richard. Pill dispense units. 2,948,389, 8-9-60, Cl. 206-42.



- Horland, Richard. Pill dispensing unit. 2,962,190, 11-29-60, Cl. 221-202.
- Horman, Harold: *See*—  
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- Horman, John H., to Allied Control Co., Inc. Push button switch. 2,958,752, 11-1-60, Cl. 200-159.
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- Hormander, Hans O.: *See*—  
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- Hormann, Erich, to Firma Phoenix-Rheinrohr A. G., Vereinigte Huttenund Rohrenwerke. Process for continuously manufacturing tubes. 2,923,807, 2-2-60, Cl. 219-67.
- Hormats, Saul: *See*—  
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- Dollan, Frank E., and Hormats. 2,963,441.
- Horn, Clarence L., Head stand. 2,919,918, 1-5-60, Cl. 272-60.
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- Horn, Harrison S., to Link Aviation, Inc. Multichannel selection device. 2,966,672, 12-27-60, Cl. 340-347.
- Horn, Heinz, to Felten & Guillaume Carlswerk A.G. Electrical cable for heavy currents. 2,938,943, 5-31-60, Cl. 174-102.
- Horn, Henri, to Etablissements Henri Horn S.p.r.l. Heating apparatus of the closed type. 2,919,690, 1-5-60, Cl. 126-85.
- Horn, Jackson B., Jr. Circulating overshot with segmental grapple member. 2,955,868, 10-11-60, Cl. 294-102.
- Horn, John S., and J. M. Bleuenstein; said Bleuenstein assor. Ford Motor Co. and said Horn assor. to American-Marietta Co. Shell molding sand and the process of making and using the same. 2,955,336, 10-11-60, Cl. 22-193.
- Horn, Ladd L.: *See*—  
La Porte, Gerald E., and Horn. 2,935,279.
- Horn, Sheldon H., to Western Electric Co., Inc. Electrical coil. 2,941,129, 6-14-60, Cl. 317-158.
- Horn, Thurman W. Boat propelling apparatus. 2,940,328, 6-14-60, Cl. 74-165.
- Horn, Willi, to Ernst Leitz, G.m.b.H. Interference microscope with transmitted illumination. 2,950,649, 8-30-60, Cl. 88-39.
- Horn, William E.: *See*—  
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- Hornak, John N., and M. A. Orehoski, to United States Steel Corp. Teeming nozzle valve for vacuum casting apparatus. 2,962,779, 12-6-60, Cl. 22-85.
- Hornauer, Gunter, to Hamann-Rechenmaschinen. Ten-key setting mechanism. 2,940,664, 6-14-60, Cl. 235-60.
- Hornback, Daniel B., to Phillips Petroleum Co. Filling rate control. 2,953,147, 9-20-60, Cl. 137-2.
- Hornbostel, Lloyd, to Beloit Iron Works. Paper machine coating arrangement. 2,920,698, 1-12-60, Cl. 162-265.
- Hornbostel, Lloyd, to Beloit Iron Works. Suction flat box cover perforation. 2,934,143, 4-26-60, Cl. 162-351.
- Hornbostel, Lloyd, Underwater saw structure. 2,941,555, 6-21-60, Cl. 143-32.
- Hornbostel, Lloyd, to Beloit Iron Works. Paper machine drive mechanism. 2,946,231, 7-26-60, Cl. 74-395.
- Hornbostel, Lloyd, to Beloit Iron Works. Paper machine dandy roll construction. 2,947,356, 8-2-60, Cl. 162-314.
- Hornbostel, Lloyd, to Beloit Iron Works. Torque indicating device. 2,957,343, 10-25-60, Cl. 73-136.
- Hornbostel, Lloyd, to Beloit Iron Works. Paper machine forming section. 2,958,379, 11-1-60, Cl. 162-318.
- Hornbostel, Lloyd, to Beloit Iron Works. Pickup and press section. 2,959,222, 11-8-60, Cl. 162-360.
- Hornbrook, Lester H., Jr. Control mechanism. 2,958,226, 11-1-60, Cl. 74-25.
- Horne, Campbell C., to The International Nickel Co., Inc. Production of hollow turbine blades. 2,965,955, 12-27-60, Cl. 29-156.8.
- Horne, Campbell C., and H. W. G. Hignett, to The International Nickel Co., Inc. Method of locating the blind terminals of filled holes in a deformed metal object. 2,965,959, 12-27-60, Cl. 29-407.
- Horne, Charles F., to Hercules Powder Co. Initiator assembly. 2,963,971, 12-13-60, Cl. 102-28.
- Horne, Charles F., E. K. Lefren, E. L. Ramer, and J. Roth, to Hercules Powder Co. Blasting cap assembly. 2,965,033, 12-20-60, Cl. 102-28.
- Horne, James K., to Minneapolis-Honeywell Regulator Co. Combination valve. 2,919,708, 1-5-60, Cl. 137-66.
- Horne, Roy C. Method of reconstituting lumber and product thereof. 2,942,635, 6-28-60, Cl. 144-309.
- Horne, Samuel E., Jr., to Goodrich-Gulf Chemical, Inc. Removable of catalyst from olefin polymer by treatment with alcohol under inert atmosphere. 2,962,488, 11-29-60, Cl. 260-94.7.
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- Horner, Clifford E.: *See*—  
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- Horner, Ellwood J., to R. Hoe & Co., Inc. Apparatus for formation of composite printing plates. 2,948,327, 8-9-60, Cl. 154-1.
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- Hornfeck, Anthony J., to Bailey Meter Co. Meter systems. 2,954,692, 10-4-60, Cl. 73-205.
- Horni, Edward C., to Swindell-Dressler Corp. Transfer mechanism for tunnel kiln. 2,922,381, 1-26-60, Cl. 104-48.
- Hornik, Frank J., to Lyon Inc. Sink structure. 2,926,361, 3-1-60, Cl. 4-187.
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- Horning, Roderick H., to Crompton & Knowles Corp. Green dyes for polyester fibers. 2,929,810, 3-22-60, Cl. 260-206.
- Horning, Rodney W., to Northrop Corp. Self aligning coupling. 2,940,786, 6-14-60, Cl. 287-87.
- Horning, William A. Sleeve type joint protector. 2,946,839, 7-26-60, Cl. 174-93.
- Hörnle, Reinhold: *See*—  
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- Hornor, Thomas H. Cleaner for typewriter type and the like. 2,964,771, 12-20-60, Cl. 15-210.
- Hornsby, Wayne C. Two-wheel carriage. 2,919,825, 1-5-60, Cl. 214-506.
- Hornschnuch, Hanns, to Ingersoll-Rand Co. Centrifugal pumps. 2,947,260, 8-2-60, Cl. 103-87.
- Hornung, Stephen A., to Otis Elevator Co. Group supervisory system for elevators. 2,926,756, 3-1-60, Cl. 187-29.
- Hornung, Stephen A., to Otis Elevator Co. Testing apparatus for safety mechanism for doors. 2,932,365, 4-12-60, Cl. 187-48.
- Hornung, Stephen A., and A. Fusco, to Otis Elevator Co. Selecting system for elevators. 2,936,858, 5-17-60, Cl. 187-29.
- Horodyski, Joseph B., to International Telephone and Telegraph Corp. High voltage pulse generator. 2,947,884, 8-2-60, Cl. 307-106.
- Horowitz, Carl: *See*—  
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- Horowitz, Harry, and A. Schneiderman. Toy rifle actions. 2,921,573, 1-19-60, Cl. 124-27.
- Horowitz, Gloria. Steel wool pad with handle. 2,938,223, 5-31-60, Cl. 15-209.
- Horowitz, Harry, and A. Schneiderman. Means for resiliently discharging pellets. 2,962,017, 11-29-60, Cl. 124-27.
- Horowitz, Irving, to U.V. Mfg. Corp. Demodulator. 2,937,274, 5-17-60, Cl. 250-27.
- Horowitz, William, and H. S. Slack, to Westinghouse Electric Corp. Transmit receive blocking circuit. 2,924,704, 2-9-60, Cl. 250-13.
- Horrigan, Robert V., to National Lead Co. Manufacture of aluminum titanium alloys. 2,955,935, 10-11-60, Cl. 75-135.
- Horrocks, Walter E. Nut positioning devices for aligning nuts in cramped spaces. 2,931,257, 4-5-60, Cl. 81-3.
- Horrocks, Walter E. Container assemblies. 2,938,518, 5-31-60, Cl. 128-272.
- Horrocks, Walter E. Drip catching device. 2,938,602, 5-31-60, Cl. 184-106.
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- Horsch, James R., to Stewart-Warner Corp. Facsimile apparatus. 2,926,057, 2-23-60, Cl. 346-74.
- Horsch, James R., to General Electric Co. Ferromagnetic pulse area stabilizer. 2,962,657, 11-29-60, Cl. 324-70.
- Horsch, James R., to General Electric Co. Magnetic counter. 2,962,700, 11-29-60, Cl. 340-174.
- Horsev, Robson & Co., Inc.: *See*—  
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- Horsfall, Robert B., Jr., to North American Aviation, Inc. Three axis flexure pivot. 2,950,079, 8-23-60, Cl. 248-179.
- Horsfall, Robert B., Jr., J. M. Slater, and J. A. Widenmann, to North American Aviation, Inc. Gyroscopically stabilized optical system platform. 2,949,030, 8-16-60, Cl. 73-178.
- Horsley, David S. Film scratch minimizer. 2,947,810, 8-2-60, Cl. 178-6.7.
- Horsley, Lee H., and A. R. Sexton, to The Dow Chemical Co. Salts of sulfo-lower-alkyl esters of chloroaryloxy-lower-aliphatic-monocarboxylic acids. 2,945,056, 7-12-60, Cl. 260-473.
- Horst, Russel J.: *See*—  
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- Horstmann, Bevan G. Electric time switches. 2,920,153, 1-5-60, Cl. 200-38.
- Horstmann, Frederick O. Electric time switches. 2,932,701, 4-12-60, Cl. 200-35.
- Hort, Eugene V.: *See*—  
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- Hort, Eugene V., to General Aniline & Film Corp. Stabilized aromatic carbocyclic amines. 2,950,290, 8-23-60, Cl. 260-391.
- Hort, Eugene V., to General Aniline & Film Corp. Hydrogenation of 1,4-butyndiol to 1,4-butanediol. 2,950,326, 8-23-60, Cl. 260-635.
- Hort, Eugene V., to General Aniline & Film Corp. Partial hydrogenation of 1,4-butyndiol. 2,953,604, 9-20-60, Cl. 260-635.
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- Hort, Eugene V., to General Aniline & Film Corp. Partial hydrogenation of 1,4-butyndiol. 2,961,471, 11-22-60, Cl. 260-635.
- Horten, Albert J. Resilient jumping shoes. 2,953,861, 9-27-60, Cl. 36-7.8.
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- Horti, Hazel M.: See—  
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- Horton, Earl A., to The Yale and Towne Mfg. Co. Carton upending device. 2,953,268, 9-20-60, Cl. 214-652.
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- Horton, Raynor E., and G. G. Schimel, to Boeing Airplane Co. Structural sandwich spacer assemblies. 2,961,760, 11-29-60, Cl. 29-455.
- Horton, Richard E., to Precision Metal Workers. Coin controlled dispensing machine. 2,960,204, 11-15-60, Cl. 194-58.
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- Horton, William E., and W. D. Wegley, to Lear, Inc. Automatic heading control for aircraft. 2,945,650, 7-19-60, Cl. 244-77.
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- Hosbein, Hugh W., to Symington-Wayne Corp. Railroad track cross-over. 2,929,562, 3-22-60, Cl. 238-379.
- Hosbein, Louis H., to M. H. Detrick Co. Method of co-moulding brick. 2,949,643, 8-23-60, Cl. 18-59.
- Hosch, Ludwig, to Rohm & Haas G.m.b.H. Process for the manufacture of thermoplastic articles having designs therein. 2,920,350, 1-12-60, Cl. 18-48.8.
- Hose, Robert H., to Minneapolis-Honeywell Regulator Co. Casing for instruments. 2,930,834, 3-29-60, Cl. 174-52.
- Hosea, Everett E., and A. T. Godschaik, to Giddings & Lewis Machine Tool Co. Hydraulic gear shifting control. 2,928,290, 3-15-60, Cl. 74-472.
- Hosenthien, Hans H., to United States of America, Army. Reflected nonlinear modulators in alternating current electrical analog computers. 2,961,610, 11-22-60, Cl. 328-127.
- Hoshino, Yasushi. Apparatus for supporting a magnetic sound recording and reproducing head in a magnetic sound record reading machine. 2,962,558, 11-29-60, Cl. 179-100.2.
- Hoshino, Yasushi, M. Sato, M. Namikawa, and S. Tochihara, to Tokyo Denki Kagaku Kogyo Kabushiki Kaisha. Magnetic recording and reading apparatus. 2,924,668, 2-9-60, Cl. 179-100.2.
- Hoshino, Yasushi, and M. Sato. Apparatus for extending a magnetic sound record sheet on a magnetic sound record reading machine. 2,926,018, 2-23-60, Cl. 274-4.
- Hoshino, Yasushi, and M. Sato. Mechanism for driving the head-supporting body in the magnetic sound recording and reading machine. 2,929,633, 3-22-60, Cl. 274-4.
- Hoshino, Yasushi, M. Sato, and M. Namikawa. Method for setting a magnetic sound record sheet on a magnetic sound record reading machine and an apparatus therefor. 2,940,763, 6-14-60, Cl. 274-4.
- Hoshino, Yasushi, and M. Sato. Means for compensating a record for changes in atmospheric conditions. 2,962,559, 11-29-60, Cl. 179-100.2.
- Hoshino, Yasushi, M. Namikawa, and S. Tochihara, to Tokyo Denki Kagaku Kogyo Kabushiki Kaisha. Device for copying magnetic records. 2,965,723, 12-20-60, Cl. 179-100.2.
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- Hosken, James C., to Research Corp. Web control method and apparatus. 2,957,637, 10-25-60, Cl. 242-58.4.
- Hosking, Oakley W., to Hosking Patent Corp. Check valve. 2,928,447, 3-15-60, Cl. 152-427.
- Hosking, Oakley W., to Hosking Patent Corp. Check valve. 2,928,448, 3-15-60, Cl. 152-427.
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- Hosking, Paul C., and O. Szymber, to Stewart-Warner Corp. Circuit for unbalance detection apparatus. 2,955,232, 10-4-60, Cl. 315-183.
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- Hoskinson, Eugene A., to North American Aviation, Inc. Magnetic pulse inverter. 2,942,173, 6-21-60, Cl. 321-43.
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- Hosler, John F., and S. J. Storrer, to American Cyanamid Co. Dealkylation procedure for alkoxy benzophenones. 2,928,878, 3-15-60, Cl. 260-591.
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- Hosmer, William A., to General Aniline & Film Corp. Polymer-metal process. 2,964,447, 12-13-60, Cl. 167-33.
- Hosmer, William A., and A. C. Starke, Jr., to General Aniline & Film Corp. Crosslinking of vinyl ether polymers with iodine. 2,927,914, 3-8-60, Cl. 260-91.1.
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- Hostettler, John L., to Hughes Aircraft Co. Iso-level phase inverter circuit. 2,948,859, 8-9-60, Cl. 330-117.
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- Hostettler, Fritz, and R. W. McLaughlin, to Union Carbide Corp. Cellular polyurethane resins and preparation of same. 2,962,455, 11-29-60, Cl. 260-2.5.
- Hostettler, Fritz, and R. W. McLaughlin, to Union Carbide Corp. Oxyalkylene-carboxyalkylene polymers. 2,962,524, 11-29-60, Cl. 260-484.
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- Hotten, Bruce W., to California Research Corp. Lubricating grease composition inhibited against oxidation. 2,954,342, 9-27-60, Cl. 252—32.
- Hotten, Bruce W., to California Research Corp. Metal terphthalamate-thickened greases containing soaps of fatty acids as bleeding inhibitors. 2,956,021, 10-11-60, Cl. 252—33.6.
- Hotten, Bruce W., to California Research Corp. High extreme pressure grease compositions. 2,956,022, 10-11-60, Cl. 252—33.6.
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- Hottenroth, Frederick W. Combination metering chamber and fuel distributing valve. 2,924,207, 2-9-60, Cl. 123—139.
- Hottenroth, Frederick W., Jr., to Standard-Thomson Corp. Remotely adjusted thermostatic means. 2,956,397, 10-18-60, Cl. 60—23.
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- Houdry, Eugene J., to Oxy-Catalyst, Inc. Method for the manufacture of catalysts. 2,921,033, 1-12-60, Cl. 252—449.
- Houdry, Eugene J. Hydrocarbon cracking catalyst. 2,921,034, 1-12-60, Cl. 252—455.
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- House, Frank R., to Amelox Corp. High speed printer. 2,940,385, 6-14-60, Cl. 101—93.
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- Houston Chemical Corp.: See—
- Meighen, Arthur D., and Chandler. 2,960,473.
- Houston, David R., M. P. Siedband, and C. C. Ryan, to United States of America, Navy. Automatic gain control system. 2,959,781, 11-8-60, Cl. 343—17.1.
- Houston Engineers, Inc.: See—
- Webb, Derrel D. 2,953,352.
- Houston, Forrest E.: See—
- Wrigley, Walter, Houston, and De Lisle. 2,953,858.
- Wrigley, Walter, Houston, and De Lisle. 2,953,926.
- Houston, Harry H., and L. S. McCollum, to International Minerals & Chemical Corp. Perlite insulation material. 2,956,893, 10-18-60, Cl. 106—67.
- Houston, John C., to Koppers Co., Inc. Apparatus for producing plastic material. 2,945,258, 7-19-60, Cl. 18—14.



- Houston, John C., and J. J. Tress, to Koppers Co., Inc. Composition comprising polystyrene, volatile organic solvent and a carbon dioxide liberating agent, and process of simultaneously foaming and extruding said composition. 2,941,964, 6-21-60, Cl. 260-25.
- Houston Oil Field Material Co., Inc.: *See*—
- Ault, Isaac L. 2,959,224.
- Bender, John C. 2,961,602.
- Bender, John C., and McWhorter. 2,960,755.
- Bender, John C., and McWhorter. 2,961,624.
- Bergey, Taylor G. 2,961,154.
- Galeener, Linn H. 2,965,182.
- Myers, William D. 2,944,794.
- Smith, Thomas C. 2,947,362.
- Houston, P. D., Jr.: *See*—
- Parker, Charles B., and Houston. 2,944,855.
- Houston, Persis D., Sr.: *See*—
- Parker, Charles B., and Houston. 2,944,855.
- Houston, Reese T.: *See*—
- Scott, James G., Freeman, and Houston. 2,933,144.
- Houston, Robert W.: *See*—
- Long, Robert B., Houston, Hibshman, and Longwell. 2,959,529.
- Houtman, Thomas, Jr.: *See*—
- Tousignant, William F., Walles, and Houtman. 2,948,656.
- Houvenier, Irving S.: *See*—
- Guldenzoph, Edwin A., and Houvenier. 2,959,193.
- Houvenier, Irving S., to The Dow Chemical Co. Die assembly. 2,946,090, 7-26-60, Cl. 18-12.
- Houvenier, Russell W.: *See*—
- Rice, Philip K., and Houvenier. 2,966,038.
- Hoven, Alfred C.: *See*—
- Henrikson, Bror W., Hoven, Lindberg, and Rimkus. 2,965,153.
- Hoven, Alfred C., and W. E. Nordmark, to American Seating Co. Table or the like having its top supported by spaced pedestals each comprising a horizontally elongated base and a pair of vertical columns. 2,947,586, 8-2-60, Cl. 31-39.
- Hovey, Le Roy F., Jr. Fountain pen. 2,956,547, 10-18-60, Cl. 120-46.
- Hovind, John K., to National Gypsum Co. Stud shoe clip. 2,936,049, 5-10-60, Cl. 189-35.
- Hovland, Howard N., to American Can Co. Dispensing container. 2,963,209, 12-6-60, Cl. 229-17.
- Hovlid, Mary Z. Tree-simulating Christmas card holder. 2,951,303, 9-6-60, Cl. 40-124.
- Hovorka, Jiri, to Royalty Holding Corp. Belt tension pulley. 2,938,395, 5-31-60, Cl. 74-230.17.
- Howa Kogyo Kabushiki Kaisha: *See*—
- Aono, Hideo, and Isono. 2,964,802.
- Noda, Shozo. 2,925,704.
- Noda, Shozo. 2,949,645.
- Noda, Shozo. 2,955,329.
- Howa Machinery Ltd.: *See*—
- Noda, Shozo. 2,925,704.
- Howald, Werner E., to Curtiss-Wright Corp. Gas turbine with control mechanism for turbine cooling air. 2,951,340, 9-6-60, Cl. 60-39.66.
- Howald, Werner E., to Curtiss-Wright Corp. Turbine rotor construction. 2,951,677, 9-6-60, Cl. 253-39.
- Howald, Werner E., and J. S. Sohn, to Curtiss-Wright Corp. Method for fabricating hollow blades. 2,958,933, 11-8-60, Cl. 29-156.8.
- Howaldt, Fritz, Maschinenfabrik: *See*—
- Offner, Eugen. 2,932,892.
- Howard, Antonio: *See*—
- Chapman, Christopher L. C., and Howard. 2,945,080.
- Howard, Bernard, to Teleprinter Corp. Telegraphic printing apparatus. 2,929,872, 3-22-60, Cl. 178-17.
- Howard, Bernard, to Teleprinter Corp. Telegraph printer. 2,942,065, 6-21-60, Cl. 178-35.
- Howard, Bernard, to Teleprinter Corp. Multiple clutch. 2,965,204, 12-20-60, Cl. 192-48.
- Howard, Carl, Jr. Fastener and its use. 2,931,471, 4-5-60, Cl. 189-36.
- Howard, Charles F.: *See*—
- Davidson, John T., and Howard. 2,919,915.
- Davidson, John T., and Howard. 2,919,934.
- Howard, Charles M.: *See*—
- Schneider, Herman F., Howard, and Furst. 2,933,096.
- Howard, Charles N. Method of making light weight aggregate from bituminous coal refuse. 2,940,154, 6-14-60, Cl. 25-156.
- Howard, Dale O., and L. Comes. Holder for guns, fishing rods and the like. 2,959,295, 11-8-60, Cl. 211-64.
- Howard, Donald F., to North American Aviation, Inc. Radiation fuel gauge. 2,952,774, 9-13-60, Cl. 250-43.5.
- Howard, Edward G., Jr., to E. I. du Pont de Nemours and Co. Olefin polymerization and catalyst composition therefor. 2,943,081, 6-28-60, Cl. 260-88.2.
- Howard, Edward G., Jr., to E. I. du Pont de Nemours and Co. Thermally-sensitive recording elements. 2,950,987, 8-30-60, Cl. 117-36.
- Howard, Edward G., Jr., to E. I. du Pont de Nemours and Co. Keto-substituted dithiacyclopentadienes of 7 to 9 annular atoms and their preparation. 2,965,650, 12-20-60, Cl. 260-327.
- Howard, Frank A., to Esso Research and Engineering Co. Transportation of liquefied gases. 2,933,902, 4-26-60, Cl. 62-45.
- Howard, Frank A. Dual-valved safety pneumatic tire. 2,934,127, 4-26-60, Cl. 152-427.
- Howard, Frank S., to Whirlpool Corp. Speed governor for motors. 2,923,789, 2-2-60, Cl. 200-80.
- Howard, George C., and B. M. Caldwell, said G. C. Howard assor. to Pan American Petroleum Corp., and said B. M. Caldwell assor. to Welox, Inc. Apparatus for cutting holes in well casing. 2,935,020, 5-3-60, Cl. 102-20.
- Howard, George C., and L. B. Wilder, to Pan American Petroleum Corp. Thread composition containing ground seed shells. 2,961,401, 11-22-60, Cl. 252-17.
- Howard, George C., and C. R. Milam, to Pan American Petroleum Corp. Cementing casing. 2,965,171, 12-20-60, Cl. 166-29.
- Howard, George E. Vehicle having a solar steam generator. 2,920,710, 1-12-60, Cl. 180-67.
- Howard, George J., Jr., to United Aircraft Corp. Angular free turbine rotor drive. 2,933,892, 4-26-60, Cl. 60-39.16.
- Howard, George J., Jr., and E. F. Katzenberger, to United Aircraft Corp. Crane helicopter and its controls. 2,957,648, 10-25-60, Cl. 244-17.25.
- Howard, George R.: *See*—
- Powischill, John W., Hine, and Howard. 2,925,184.
- Howard, Herbert H., to Permanent Filter Corp. Filtration units. 2,946,446, 7-26-60, Cl. 210-323.
- Howard, James W., to Miss Georgia Dairies, Inc. Process for production of buttermilk. 2,958,601, 11-1-60, Cl. 99-59.
- Howard, John C.: *See*—
- Benghiat, Isaac, and Howard. 2,952,673.
- Howard, Oscar V. Ball valve supporting and centering device for flush tanks. 2,961,682, 11-29-60, Cl. 4-57.
- Howard, Paul J. Window construction. 2,957,211, 10-25-60, Cl. 20-52.
- Howard, Paul J. Venetian blind. 2,957,520, 10-25-60, Cl. 160-113.
- Howard, Posy A.: *See*—
- Hill, Arthur M., Howard, and Fugate. 2,958,884.
- Howard, Richard S., to Reckitt & Colman Ltd. Denture cleanser composition. 2,931,776, 4-5-60, Cl. 252-99.
- Howard, Robert, Co.: *See*—
- Black, Howard S. 2,957,411.
- Howard, Robert M.: *See*—
- Scrubby, Stanley R., and Howard. 2,934,223.
- Howard, Sheldon J.: *See*—
- Scriven, William J., and Howard. 2,941,230.
- Howard, Wayne R., to Clark Equipment Co. Variable speed transmission. 2,926,551, 3-1-60, Cl. 74-718.
- Howard, William L., S. R. McLane, and R. L. Weintraub, to United States of America, Army. Plant growth control by use of ethers of chlorinated and fluorinated phenols. 2,937,935, 5-24-60, Cl. 71-2.3.
- Howarth, Arthur J., F. Jones, and G. Wortley, to United Kingdom Atomic Energy Authority. Remote handling manipulators. 2,954,880, 10-4-60, Cl. 214-1.
- Howarth, Arthur M.: *See*—
- Challoner, Frank, and Howarth. 2,934,818.
- Howarth, Brian G.: *See*—
- Hopton, Alan, and Howarth. 2,954,881.
- Howdle, Frederic E.: *See*—
- Hansen, Kenneth H., Howdle, and Jochem. 2,939,578.
- Howe, Alfred J. Handcuffs. 2,948,139, 8-9-60, Cl. 70-16.
- Howe, Andrew F. Centrifugal separation. 2,919,848, 1-5-60, Cl. 233-7.
- Howe, Donald E., to The Firestone Tire & Rubber Co. Textile element treatment. 2,955,345, 10-11-60, Cl. 28-72.
- Howe, Francis R.: *See*—
- Van Dusen, Charles H., Jr., and Howe. 2,958,146.
- Howe, Harold S.: *See*—
- Hindin, Herbert B., and Howe. 2,939,502.
- Howe, John H.: *See*—
- Smith, Norman N. P., and Howe. 2,932,793.
- Howe, John R., to Borg-Warner Corp. Booster pump. 2,925,043, 2-16-60, Cl. 103-113.
- Howe, John R., and J. J. Cook. Selective drive clutch mechanism. 2,948,557, 8-9-60, Cl. 287-53.
- Howe, Milton A., Jr., to W. R. Grace & Co. Packaging apparatus. 2,962,853, 12-6-60, Cl. 53-390.
- Howe, Robert: *See*—
- Carter, Cecil V., Carden, and Howe. 2,961,156.
- Howe Scale Co.: *See*—
- Blackwell, John S. 2,934,730.
- MacGeorge, William D. 2,934,751.
- Roessler, Charles E., Jr. 2,919,644.
- Howe, Stanley E., to Sylvania Electric Products Inc. Microwave crystal mixer. 2,961,531, 11-22-60, Cl. 250-20.
- Howe, Wesley J.: *See*—
- Adams, John Q., and Howe. 2,940,445.
- Howell, Alun R., to Minister of Supply, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Aircraft having vertical lifting jet engines. 2,930,544, 3-29-60, Cl. 244-12.
- Howell, Alun R., to Power Jets (Research and Development) Ltd. Turbo-rocket driven jet propulsion plant. 2,937,491, 5-24-60, Cl. 60-35.6.
- Howell, Alun R., to Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland as represented by the Minister of Supply. Turbine-driven fans. 2,940,689, 6-14-60, Cl. 244-12.



- Howell, Alun R., and L. Islip, to Power Jets (Research and Development) Ltd. Resiliently mounted turbine blades. 2,936,155, 5-10-60, Cl. 253-77.
- Howell, David, to Arlington Aluminum Co. Folding easel. 2,953,341, 9-20-60, Cl. 248-197.
- Howell, Edward D., and R. P. Farrell, Jr., to General Electric Co. Electric food mixer and speed control mechanism. 2,930,597, 3-29-60, Cl. 259-131.
- Howell, Edwin R., Jr.: *See*—  
Himka, John, and Howell. 2,942,646.
- Howell, Hugh A., to Oak Mfg. Co. Electric chopper. 2,922,859, 1-26-60, Cl. 200-90.
- Howell, Hugh A., to Oak Mfg. Co. Relay. 2,933,571, 4-19-60, Cl. 200-87.
- Howell, Hugh A., to Oak Mfg. Co. Magnet control structure. 2,935,583, 5-3-60, Cl. 200-87.
- Howell, Hugh A., and J. L. Jedd, to Oak Mfg. Co. Relay. 2,933,572, 4-19-60, Cl. 200-87.
- Howell, Jack M. Diesel engine starting means and method. 2,945,483, 7-19-60, Cl. 123-179.
- Howell, James E., and T. A. Barr. Dual band slot antenna. 2,957,172, 10-18-60, Cl. 343-746.
- Howell, Roland C., Jr.: *See*—  
Becher, Ernest F., and Howell. 2,949,156.
- Howell, Ronald T. A., and L. Young, to The Decca Record Co. Ltd. Microwave transmission limiter. 2,944,231, 7-5-60, Cl. 333-31.
- Howell, Sabert N., to Servo Corp. of America. Model railroad hot-box detector. 2,932,126, 4-12-60, Cl. 46-243.
- Howell, Sabert N., and W. Derganc, to Servo Corp. of America. Pyrometer. 2,927,464, 3-8-60, Cl. 73-355.
- Howell, Thomas B., and M. Rogin. Projection equipment. 2,944,461, 7-12-60, Cl. 88-24.
- Howell, Warren: *See*—  
Randall, Herman P. Re. 24,793.
- Howell, William C., Jr., C. E. Paxton, and J. J. Kolfenbach, to Esso Research and Engineering Co. Air filter. 2,920,718, 1-12-60, Cl. 183-51.
- Howell, William L. Electrode. 2,943,627, 7-5-60, Cl. 128-416.
- Howell, William L. Electrode assembly. 2,943,628, 7-5-60, Cl. 128-418.
- Hower, Robert S.: *See*—  
Dehn, William F., Hower, and Schlicke. 2,922,936.
- Howes, Irving C., to Davis & Furber Machine Co. Means for connecting eccentric to apron section in a tape condenser. 2,940,132, 6-14-60, Cl. 19-153.
- Howes, Leslie D., to The Garrett Corp. Pulsating ignition torch means. 2,929,210, 3-22-60, Cl. 60-39,82.
- Howey, Charles K., and R. L. Watts, to Hughes Aircraft Co. Machine tool. 2,945,401, 7-19-60, Cl. 77-3.
- Howich, Irving O. Differential drive mechanism. 2,966,075, 12-27-60, Cl. 74-650.
- Howington, James L., and J. H. Goodman. Anchor line controller. 2,955,560, 10-11-60, Cl. 114-210.
- Howison, William A.: *See*—  
Stoddard, Herbert A., Morton, and Howison. 2,957,228.
- Howitt, James B., to Canadian Celanese Ltd. Seldedge uncurling apparatus and method. 2,942,322, 6-28-60, Cl. 26-54.
- Howland, Louis H.: *See*—  
Nicholson, Isadore, and Howland. 2,963,459.
- Howland, Louis H., and W. H. White, to United States Rubber Co. Butadiene copolymer rubber-silica masterbatch and process of preparation. 2,964,490, 12-13-60, Cl. 260-415.
- Howles, Donald A., and J. W. T. Wright, to The British Thomson-Houston Co. Ltd. Electric lamps. 2,937,308, 5-17-60, Cl. 313-315.
- Howlett, Arlene R.: *See*—  
Howlett, Clarence R. 2,957,375.
- Howlett, Clarence R., to A. R. Howlett. Chip guard for drill press and router. 2,957,375, 10-25-60, Cl. 77-55.
- Howlett, George H. Steel bar connector for reinforcing and stressing concrete. 2,930,642, 3-29-60, Cl. 287-114.
- Howlett, John W., and K. A. Blacklock, to Wellworthy Ltd. Sealing rings. 2,925,296, 2-16-60, Cl. 288-2.
- Howlett, Rex R., to The British Oxygen Co. Ltd. Converter system for liquefied gases. 2,964,919, 12-20-60, Cl. 62-52.
- Howlett, Rex R., to The British Oxygen Co. Ltd. Valve for pressure fluid flow control. 2,965,121, 12-20-60, Cl. 137-116.5.
- Howley, Bernard G., and A. W. Holmberg, to O. L. Berger & Sons, Inc. Tilting level. 2,941,297, 6-21-60, Cl. 33-73.
- Howling, Dennis H., to McGraw-Hill Co. Positive temperature coefficient semiconductor device. 2,947,844, 8-2-60, Cl. 219-20.
- Howson, John A., to American Viscose Corp. Process of producing viscose rayon. 2,961,289, 11-22-60, Cl. 18-54.
- Howson, John A., and B. A. Thumm, to American Viscose Corp. Method of forming all skin viscose rayon. 2,956,894, 10-18-60, Cl. 106-165.
- Howson, Wilfred B., Jr.: *See*—  
Jones, Arthur L., Howson, and Hughes. 2,958,591.
- Howson, Phillip W., to General Motors Corp. Horizontally operable hydraulic valve lifter. 2,962,012, 11-29-60, Cl. 123-90.
- Hoye, Caroline J. Device to assist in putting on a bracelet. 2,926,875, 3-1-60, Cl. 248-121.
- Hoyer, Edward W.: *See*—  
Huber, Paul P., and Hoyer. 2,941,407.
- Hoyer, Ekkehard: *See*—  
Muegerl, Thomas, and Hoyer. 2,944,442.
- Hoyer, Llewellyn E., to American Brake Shoe Co. Dust guards. 2,941,824, 6-21-60, Cl. 286-6.
- Hoyer, Llewellyn E., to American Brake Shoe Co. Dust guards. 2,959,432, 11-8-60, Cl. 286-6.
- Hoyer, Llewellyn E., and J. R. L. Santos, to American Brake Shoe Co. Journal lubricators. 2,929,664, 3-22-60, Cl. 308-243.
- Hoyer, Llewellyn E., E. R. Goryca, and J. R. L. Santos, to American Brake Shoe Co. Journal lubricators. 2,939,751, 6-7-60, Cl. 308-243.
- Hoyer, Llewellyn E., and W. L. Stewart, to American Brake Shoe Co. Journal box seal. 2,964,338, 12-13-60, Cl. 286-6.
- Hoyer, Oluf G. Filling machine for a rotary ice-cream brick freezing machine. 2,965,141, 12-20-60, Cl. 141-181.
- Hoyer, Ralph W., to Gulf Oil Corp. Purification of hydrocarbons by extraction with phenolic materials. 2,937,139, 5-17-60, Cl. 208-324.
- Hoyle, Alfred G.: *See*—  
Thompson, James V. 2,944,019.
- Hoyme, Clifford L.: *See*—  
Hoyme, Ernest G. and C. L. 2,929,357.
- Hoyme, Ernest G. and C. L. Hog chute. 2,929,357, 3-22-60, Cl. 119-98.
- Hoyt, Clyde W., and L. P. Thomas, Jr., to Radio Corp. of America. Automatic gain control systems. 2,937,235, 5-17-60, Cl. 178-7.3.
- Hoyt, Harvey C. Can opener. 2,933,215, 4-19-60, Cl. 220-52.
- Hoyt Mfg. Corp.: *See*—  
Bolyai, Oscar. 2,938,597.
- Walker, Gordon F. 2,948,068.
- Hoyt, Thomas R. Marine outboard motor hoist and protector. 2,923,269, 2-2-60, Cl. 115-41.
- Hoyt, Willard J. Firearm with breech block retarding means. 2,919,630, 1-5-60, Cl. 89-183.
- Hoyt, William R.: *See*—  
Sherwood, Bert J., and Hoyt. 2,954,289.
- Hozik, Josef: *See*—  
Slezák, František, Gajdušek, and Hozik. 2,933,745.
- Hrabovský, Oskar, and L. Panyi, to Licencia Talalmanyokát Ertekesítő Vállalat. Feed apparatus with lock chambers for hydraulic conveying. 2,943,890, 7-5-60, Cl. 302-14.
- Hrdlička, Jaroslav. Divided rim for tires. 2,922,457, 1-26-60, Cl. 152-410.
- Hromas, Miroslav, and Z. Dadák, to Tatara, národní podnik. Hydraulic lifting device for tipping vehicles. 2,922,401, 1-26-60, Cl. 121-46.
- Hron, Albert G., to Regal Ware, Inc. Coffee urn or the like. 2,926,595, 3-1-60, Cl. 99-310.
- Hrovat, Henry J. Power line stringing brake. 2,938,678, 5-31-60, Cl. 242-151.
- Hruby, John O., Jr., to Rain Jet Corp. Lawn sprinkler. 2,954,171, 9-27-60, Cl. 239-23.
- Hruby, John O., Jr., to Rain Jet Corp. Sprinkler. 2,955,764, 10-11-60, Cl. 239-206.
- Hruby, John O., Jr., to Rain Jet Corp. Flow restrictor. 2,963,264, 12-6-60, Cl. 251-216.
- Hruska, Howard E., to The Bendix Corp. Power steering mechanism. 2,964,017, 12-13-60, Cl. 121-41.
- Hrynyszak, Waldemar, to C. A. Parsons & Co. Ltd. Gas turbine plants. 2,955,424, 10-11-60, Cl. 60-39.29.
- Hrynyszak, Waldemar, to C. A. Parsons & Co. Ltd. Heat exchangers. 2,965,359, 12-20-60, Cl. 257-245.
- Huang, Chaang, to Sylvania Electric Products Inc. Two-input ring counters. 2,933,620, 4-19-60, Cl. 307-88.5.
- Huang, Chaang, to Sylvania Electric Products Inc. Semiconductor switching device. 2,943,269, 6-28-60, Cl. 331-111.
- Huang, Chaang. Complementary transistor multivibrator. 2,956,241, 10-11-60, Cl. 331-113.
- Huang, Hsing T., to Chas. Pfizer & Co., Inc. Production of L-threonine. 2,937,121, 5-17-60, Cl. 195-47.
- Huang, Hsing T., to Chas. Pfizer & Co., Inc. Production of L-threonine. 2,937,122, 5-17-60, Cl. 195-47.
- Huang, Hsing T., to Chas. Pfizer & Co., Inc. Preparation of DL-lysine with lysine racemase. 2,944,943, 7-12-60, Cl. 195-29.
- Huang, Hsing T., to Chas. Pfizer & Co., Inc. Amino acids and process. 2,947,666, 8-2-60, Cl. 195-47.
- Huang, Hsing T., J. M. Griffin, and J. H. Fried, to Chas. Pfizer & Co., Inc. Improved fermentation process for the production of diaminopimelic acid. 2,955,986, 10-11-60, Cl. 195-47.
- Hub Mfg. Corp., The: *See*—  
Burdett, Harold D. 2,957,534.
- Hubbard, Addison W.: *See*—  
Fitzgerald, William P., Banes, and Hubbard. 2,949,952.
- Hubbard, Arthur L., to Deere & Co. Cotton picking unit with cleaning and separating means. 2,930,177, 3-29-60, Cl. 56-41.
- Hubbard, Arthur L., to Deere & Co. Cotton picker. 2,955,881, 10-11-60, Cl. 302-58.
- Hubbard, Burnette L., to Philco Corp. Drive coupling. 2,931,201, 4-5-60, Cl. 68-131.
- Hubbard, Burton F.: *See*—  
Fosdick, Gaynard H., Hubbard, and McMillan. 2,921,284.



- Hubbard, Charles L.: *See*—  
Charske, Charles J., and Hubbard. 2,938,592.  
Owen, Charles J. 2,963,384.  
Westrom, Arthur C. 2,947,903.
- Hubbard, Deville H., deceased (by M. A. Hubbard, administrator), and C. H. Sutton, to Clark Equipment Co. Articulated lift truck. 2,959,235, 11-8-60, Cl. 180-13.
- Hubbard, S. Eugene: *See*—  
Taylor, Robert B., Hubbard, and Johnson. 2,924,963.
- Hubbard, Herbert L., and W. B. Morris, to Northrop Corp. Flight control system automatic trim mechanism. 2,923,498, 2-2-60, Cl. 244-76.
- Hubbard, Hollis G.: *See*—  
Harris, Jacob W., and Hubbard. 2,937,659.
- Hubbard, James K., to E. I. du Pont de Nemours and Co. Article of commerce. 2,920,992, 1-12-60, Cl. 162-157.
- Hubbard, James R., and A. G. Staengle, to Philco Corp. Drive mechanism. 2,932,219, 4-12-60, Cl. 74-722.
- Hubbard, Martha A.: *See*—  
Hubbard, Deville H., and Sutton. 2,959,235.
- Hubbard, Stephen R., to Cen-Vi-Ro Pipe Corp. Vibrating pipe forming machine. 2,965,947, 12-27-60, Cl. 25-30.
- Hubbard, Thomas N., to Rand McNally & Co. Globe mounting. 2,958,959, 11-8-60, Cl. 35-46.
- Hubbard, Wesley F. Load adjusting device for trailers. 2,941,818, 6-21-60, Cl. 280-405.
- Hubbard, William M.: *See*—  
Adams, Edmond, and Hubbard. 2,937,964.
- Hubbell, Charles W., to Phillips Petroleum Co. System and method of detecting and controlling leakage from an underground storage cavern. 2,928,247, 3-15-60, Cl. 61-5.
- Hubbell, Charles W., to Phillips Petroleum Co. Piping for underground storage systems. 2,928,248, 3-15-60, Cl. 61-5.
- Hubbell, Dean S., and E. P. Weaver, to H. H. Robertson Co. Enameling of aluminum alloys. 2,932,584, 4-12-60, Cl. 117-53.
- Hubbell, Dean S., and E. P. Weaver, to H. H. Robertson Co. Enameled aluminum products and methods of making the same. 2,932,585, 4-12-60, Cl. 117-70.
- Hubbell, Harvey, to Harvey Hubbell Inc. Silencing means for A.C. switches. 2,927,184, 3-1-60, Cl. 200-166.
- Hubbell, Harvey, to Harvey Hubbell Inc. Top wired electrical cap and connector. 2,927,297, 3-1-60, Cl. 339-196.
- Hubbell, Harvey, to Harvey Hubbell, Inc. Adjustable multi-wire electrical connecting means. 2,930,019, 3-22-60, Cl. 339-31.
- Hubbell, Harvey, and B. C. Webster, to Harvey Hubbell, Inc. Electrical locking connector. 2,924,806, 2-9-60, Cl. 339-91.
- Hubbell, Harvey, and E. R. Carlson, to Harvey Hubbell, Inc. Single push button switch. 2,933,578, 4-19-60, Cl. 200-156.
- Hubbell, Harvey, and J. F. Healy, to Harvey Hubbell, Inc. Locking means for preventing accidental disconnection of lighting fixtures. 2,941,178, 6-14-60, Cl. 339-92.
- Hubbell, Harvey, and B. C. Webster, to Harvey Hubbell, Inc. Connector with wire insulation penetrating means. 2,952,004, 9-6-60, Cl. 339-97.
- Hubbell, Harvey, and J. F. Healy, to Hubbell, Harvey, Inc. Wire bridge for mounting electrical wiring devices. 2,966,654, 12-27-60, Cl. 339-133.
- Hubbell, Harvey, Inc.: *See*—  
Hubbell, Harvey. 2,927,184.  
Hubbell, Harvey. 2,927,297.  
Hubbell, Harvey. 2,930,019.  
Hubbell, Harvey, and Carlson. 2,933,578.  
Hubbell, Harvey, and Webster. 2,924,806.  
Hubbell, Harvey, and Healy. 2,941,178.  
Hubbell, Harvey, and Webster. 2,952,004.  
Hubbell, Harvey, and Healy. 2,966,654.  
Lipinski, Vincent. 2,958,068.  
Von Holtz, Charles T. 2,966,651.  
Webster, Benjamin C. 2,920,304.  
Webster, Benjamin C. 2,930,022.
- Hubby, Laurence M., to Texaco Inc. Motor control systems. 2,947,931, 8-2-60, Cl. 318-447.
- Hubby, Laurence M., to Texaco Inc. Automatic impurity detector. 2,958,223, 11-1-60, Cl. 73-438.
- Hube, Arthur B., to American District Telegraph Co. Water flow detector. 2,966,133, 12-27-60, Cl. 116-117.
- Hube, Arthur B., to American District Telegraph Co. Signal transmitting apparatus. 2,966,566, 12-27-60, Cl. 200-83.
- Hubenett, Fritz, to Union Rheinische Braunkohlen Kraftstoff Aktiengesellschaft. Process for the production of dialkyl sulfoxides. 2,935,533, 5-3-60, Cl. 260-607.
- Hubenett, Fritz, and K. H. Keim, to Union Rheinische Braunkohlen Kraftstoff Aktiengesellschaft. Process for the production of dialkyl sulfoxides. 2,935,532, 5-3-60, Cl. 260-607.
- Huber, Charles A. Compressed-air operated cleaning apparatus. 2,923,959, 2-9-60, Cl. 15-330.
- Huber, Charles L.: *See*—  
Burriss, William J., Huber, and Kaiser. 2,965,136.
- Huber, Charles L., to Haloid Xerox Inc. Powder cloud generating apparatus. 2,935,234, 5-3-60, Cl. 222-193.
- Huber, Clarence F., and P. F. Thompson, to The Cincinnati Milling Machine Co. Heterocyclic asphalt additives. 2,950,211, 8-23-60, Cl. 106-273.
- Huber, Ernst: *See*—  
Spinnler, Wilhelm, Bruhin, Scharli, Huber, and Linder. 2,946,910.
- Huber, Erwin W., to Topflight Corp. Measuring device. 2,932,897, 4-19-60, Cl. 33-137.
- Huber, Hans, H. Keller, H. A. Rohlf, and W. Dewald, to Chemische Werke Albert. Process for the manufacture of aluminum phosphate. 2,924,509, 2-9-60, Cl. 23-105.
- Huber, Harry, and N.G. Thien-chi, to Compagnie Generale de Telegraphie Sans Fil. Oxide coated cathode supports. 2,924,874, 2-16-60, Cl. 29-182.3.
- Huber, Henry J., and K. E. Korn, to United States Research Corp. Device for forming loops on wire. 2,934,100, 4-26-60, Cl. 140-102.
- Huber, J. M. Corp.: *See*—  
Morris, Walter E. 2,921,383.  
Voet, Andries. 2,960,413.  
Williams, Ira. 2,929,240.
- Huber, John R., to Eastern Rotorcraft Corp. Device for controlled sliding on a rope. 2,933,157, 4-19-60, Cl. 188-65.1.
- Huber, John R., to J. I. Case Co. Harvester reel finger actuating means. 2,939,263, 6-7-60, Cl. 56-226.
- Huber, John R., to Eastern Rotorcraft Corp. Net equipment for open rack vehicles. 2,950,691, 8-30-60, Cl. 105-369.
- Huber, John R., to Eastern Rotorcraft Corp. Aircraft rotor blade construction. 2,950,766, 8-30-60, Cl. 170-159.
- Huber, Karl, to Agfa Camera-Werk Aktiengesellschaft. Material handling apparatus. 2,951,700, 9-6-60, Cl. 271-79.
- Huber, Kurt, R. Chaperon, and F. Kern, to Ciba Ltd. Process for the production of metallic niobium tantalum by the electrolysis of melts. 2,956,936, 10-18-60, Cl. 204-64.
- Huber, Leon W.: *See*—  
Derden, Edna N., and Huber. 2,939,939.
- Huber, Ludwig R.: *See*—  
Durr, Walter, Gefcken, Huber, Haag, and Strittmatter. 2,926,855.
- Huber, Matthew W., to The New York Air Brake Co. Bearing. 2,944,430, 7-12-60, Cl. 74-60.
- Huber, Oscar, to Societe d'Etudes et de Participations Eau, Gaz, Electricite Energie S.A. Automatic control of free-piston gas-generators. 2,926,642, 3-1-60, Cl. 123-46.
- Huber, Paul P., and E. W. Hoyer, to Daystrom, Inc. Device for introducing motion into a sealed instrument. 2,941,407, 6-21-60, Cl. 74-13.1.
- Huber, Richard, and O. Zottmann, to Pertrix-Union G.m.b.H. Primary galvanic cell. 2,942,057, 6-21-60, Cl. 136-145.
- Huber, Robert, to Societe d'Etudes et de Participations Eau, Gaz, Electricite, Energie, S.A. Piston operated prime movers, more particularly of the free piston kind, comprising an auxiliary gas turbine adapted to drive at least one auxiliary device of these prime movers. 2,925,708, 2-23-60, Cl. 60-13.
- Huber, Robert, to Societe d'Etudes et de Participations, Eau, Gaz, Electricite, Energie, S.A. Improvements in free piston engine and gas turbine power plant. 2,943,438, 7-5-60, Cl. 60-13.
- Huber, Robert, to Societe d'Etudes et de Participations Equ, Gaz, Electricite Energie S.A. Devices for use in free piston machines, to indicate when the maximum pressure in the power unit cylinders of such machines exceeds a predetermined value. 2,954,761, 10-4-60, Cl. 123-46.
- Huber, Rudolf, R. Wildbolz, and C. Just, to Joh. Jacob Rieter & Co. Ltd. Beating device for opening fibre bales. 2,942,304, 6-28-60, Cl. 19-80.
- Huber, Siegfried, to Diehl Gesellschaft mit beschränkter Haftung. Method of balancing oscillating or rotating members. 2,943,492, 7-5-60, Cl. 73-480.
- Huber, Walter E., and D. L. Waugh, to Dayco Corp. Power transmission belts. 2,941,413, 6-21-60, Cl. 74-231.
- Huber, William W., Sr., to United States Ceramic Tile Co. Magnetic memory device. 2,921,295, 1-12-60, Cl. 340-174.
- Huber & Wise Co., The: *See*—  
Wise, Homer J. 2,959,983.
- Huber, Wolfgang: *See*—  
Brasch, Arno, Huber, and Waly. Re. 24,814.
- Huberman, Sam, to Schwartz & Benjamin, Inc. Foot conforming shoe upper. 2,958,966, 11-8-60, Cl. 36-51.
- Hubert, Clarence A., and J. A. Isaacson, to International Harvester Co. Creeper-speed drive for tractor. 2,924,995, 2-16-60, Cl. 74-745.
- Hubert, Pierre, to Commissariat a l'Energie Atomique. Apparatus for creating by induction an electric discharge in a gas at low pressure. 2,961,557, 11-22-60, Cl. 313-62.
- Hubert, W., & Co., Maschinenfabrik N.V.: *See*—  
Jellesma, Anne. 2,933,189.
- Hubin, Anthony S.: *See*—  
Greiner, Charles J., and Hubin. 2,960,023.
- Hübl, Johann: *See*—  
Moeltzner, Ernst F. W., and Hübl. 2,953,953.
- Hubley Mfg. Co., The: *See*—  
Weimer, John H. 2,930,157.  
Weimer, John H. 2,944,358.
- Huch, William F., to United States of America, Navy. Balloon end fitting. 2,942,804, 6-28-60, Cl. 244-31.
- Huchok, Arthur A., 1/2 to W. F. Tydings and 1/2 to A. K. Ryan. Automatic cooking apparatus. 2,965,015, 12-20-60, Cl. 99-327.
- Huck, Alfred J., to Knapp-Monarch Co. Mixer bowl. 2,924,349, 2-9-60, Cl. 215-1.



- Huck, Alfred J., and C. D. Visos, to Knapp-Monarch Co. Instant coffee maker with thermostatically controlled hopper therefor. 2,942,541, 6-28-60, Cl. 99-275.
- Huck Co.: *See*—
- Brilmyer, Harold G. 2,954,718.
- Huck, William F. 2,931,962.
- Huck, William F. 2,949,295.
- Huck, William F. 2,953,291.
- Huck, William F. 2,956,802.
- Huck, William F. 2,959,997.
- Van Hecke, George J. 2,951,468.
- Huck, John J., to Automotive Products Co. Ltd. Liquid pressure control systems. 2,950,600, 8-30-60, Cl. 60-54.6.
- Huck, Robert. Blank cartridge. 2,939,392, 6-7-60, Cl. 102-39.
- Huck, William F., to Huck Co. Measurement and control of web tension. 2,931,962, 4-5-60, Cl. 318-6.
- Huck, William F., to The Brunswick Automatic Pinsetter Corp. Bowling pin handling mechanism. 2,941,804, 6-21-60, Cl. 273-43.
- Huck, William F., to Huck Co. Web tension control mechanism. 2,949,295, 8-16-60, Cl. 271-2.3.
- Huck, William F., to Huck Co. Resilient bearers. 2,953,291, 9-20-60, Cl. 226-153.
- Huck, William F., to Huck Co. Sheet feeding devices. 2,956,802, 10-18-60, Cl. 271-12.
- Huck, William F., to Huck Co. Perforating machine with scrap removal means. 2,959,997, 11-15-60, Cl. 83-122.
- Huck, William F., A. J. Albrecht, and D. P. Sanford, to The Brunswick Automatic Pinsetter Corp. Bowling pin handling mechanism. 2,941,802, 6-21-60, Cl. 273-42.
- Huck, William F., A. J. Albrecht, and D. P. Sanford, to The Brunswick Automatic Pinsetter Corp. Automatic pinsetter foul control mechanism. 2,946,591, 7-26-60, Cl. 273-43.
- Huck, William F., A. J. Albrecht, and D. P. Sanford, to The Brunswick Automatic Pinsetter Corp. Automatic pinsetters. 2,949,300, 8-16-60, Cl. 273-43.
- Hucke, Ewald W., and H. G. Mitchell, to Wood & Brooks Co. Piano action. 2,963,934, 12-13-60, Cl. 84-243.
- Huckel, Robert: *See*—
- Bonnefois, Jean, and Huckel. 2,934,629.
- Huddle, Edwin F., to International Harvester Co. Warning device. 2,939,301, 6-7-60, Cl. 64-30.
- Huddle, Edwin F., S. C. Heth, and S. D. Pool, to International Harvester Co. Manure reducer and spreader. 2,956,809, 10-18-60, Cl. 275-6.
- Huddleston, Richard H., Jr.: *See*—
- Bravenec, Frank, and Huddleston. 2,948,847.
- Huddleston, Richard H., Jr., to Welx, Inc. Electromagnetic well logging system. 2,928,038, 3-8-60, Cl. 324-1.
- Huddleston, Richard H., Jr., to Welx, Inc. Constant electromagnetic field well logging system. 2,928,039, 3-8-60, Cl. 324-1.
- Hudeley, Edouard, to Librairie Hachette. Stereoscopic film strip viewer. 2,945,418, 7-19-60, Cl. 88-31.
- Hudes, Ellis: *See*—
- Goldberg, William P., Hudes, Tannenbaum, and Stakun. 2,953,369.
- Hudgin, Donald E., to Celanese Corp. of America. Cured reaction product of unsaturated acetal, polyhydroxyalcohol and cellulose and process for preparing same. 2,955,092, 10-4-60, Cl. 260-17.4.
- Hudgin, Donald E., and F. M. Berardinelli, to Celanese Corp. of America. Stabilized polymers. 2,936,298, 5-10-60, Cl. 260-45.9.
- Hudgins, Charlie. Spring biased let-offs for textile looms. 2,938,548, 5-31-60, Cl. 139-100.
- Hudgpeth, Edwin A.: *See*—
- Everest, Edward A., and Hudgpeth. 2,957,541.
- Hudig, John: *See*—
- Pifer, Marion J., and Hudig. 2,932,019.
- Hudkins, Clyde, deceased; E. L. Hudkins, executrix. Automatic target setter and changer. 2,931,655, 4-5-60, Cl. 273-105.6.
- Hudkins, Eva L.: *See*—
- Hudkins, Clyde. 2,931,655.
- Hudkins, Jack R., to Phillips Petroleum Co. Distillation column control. 2,965,549, 12-20-60, Cl. 202-40.
- Hudson, Boyd E., Jr., and A. E. Messner, to Esso Research and Engineering Co. Gas chromatography. 2,943,702, 7-5-60, Cl. 183-115.
- Hudson, Edwin M., to United States of America, Navy. Circularly symmetrical compound wedge assembly for illuminating instrument faces. 2,965,749, 12-20-60, Cl. 240-2.1.
- Hudson Engineering Corp.: *See*—
- Goldsmith, John L. 2,928,264.
- Petty, Macon. 2,945,262.
- Hudson Foam Latex Co.: *See*—
- Hutton, Don G. 2,929,104.
- Hudson Foam Plastics Corp.: *See*—
- Wilson, Christopher L., and Shuffman. 2,961,418.
- Hudson, H. D. Mfg. Co.: *See*—
- Landgraf, Jacob T., and Nelson. 2,923,274.
- Pinke, August H. 2,923,481.
- Hudson, James W., to The National Supply Co. Terrazzo holder for under-floor junction box. 2,929,529, 5-22-60, Cl. 220-3.4.
- Hudson, James W., to The National Supply Co. Electrical junction box. 2,930,504, 3-29-60, Cl. 220-3.4.
- Hudson, James W., to The National Supply Co. Duct outlet insert and tool for opening same. 2,964,882, 12-20-60, Cl. 50-72.
- Hudson, Kenneth, to Sperry Rand Corp. Missing pulse indicator. 2,946,020, 7-19-60, Cl. 331-44.
- Hudson, Kenneth, and R. P. Nelson, to Sperry Rand Corp. Apparatus for monitoring a recurring pulse group. 2,951,985, 9-6-60, Cl. 324-68.
- Hudson, Kenneth C., to Minneapolis-Honeywell Regulator Co. Measuring apparatus. 2,944,199, 7-5-60, Cl. 317-246.
- Hudson, Lena M.: *See*—
- Hayes, John D., and Hudson. 2,949,821.
- Hudson, Leslie G. Paper clips. 2,933,790, 4-26-60, Cl. 24-66.
- Hudson, Leslie G. Pads for polishing, painting, sand-papering and the like. 2,922,177, 1-26-60, Cl. 15-133.
- Hudson, Richard E., Jr.: *See*—
- Waddle, Howard M., Cotton, and Hudson. 2,928,758.
- Hudson, Robert L.: *See*—
- Burgert, Billy E., and Hudson. 2,959,566.
- Pfeifer, Charles R., and Hudson. 2,951,056.
- Hudson, Robert L., to The Dow Chemical Co. Piperidino-lactamide. 2,920,079, 1-5-60, Cl. 260-294.
- Hudson, Robert L., to The Dow Chemical Co. Ethyl 3-(2,4-dichlorophenyl) glycidate. 2,939,872, 6-7-60, Cl. 260-348.
- Hudson, Robert L., to The Dow Chemical Co. 2-benzoyl-5-methoxyphenyl benzoate and its process of production. 2,964,555, 12-13-60, Cl. 260-476.
- Hudson, Vincent L., to International Business Machines Corp. Intermittent motion drive mechanism. 2,961,879, 11-29-60, Cl. 74-84.
- Hudson, William L., to Tokheim Corp. Gas separator and eliminator with servo vent valve. 2,960,104, 11-15-60, Cl. 137-202.
- Hudson, Wisheart F. Steering attachment for an outboard motor. 2,927,477, 3-8-60, Cl. 74-515.
- Hudspeth, Thomas, to Hughes Aircraft Co. Parametric amplifier. 2,951,207, 8-30-60, Cl. 330-5.
- Huebener, William C., and L. F. Blank. Exercising attachment for propelling a bicycle. 2,926,024, 2-23-60, Cl. 280-248.
- Hueber, Edward K.: *See*—
- Hueber, Joseph A., and E. K. 2,942,724.
- Hueber, Joseph A., and E. K., to Kelley & Hueber, Inc. Spectacle cases. 2,942,724, 6-28-60, Cl. 206-5.
- Huebner, Charles F., to Ciba Pharmaceutical Products, Inc. Process for preparation of 2(N,N-di-loweralkyl-amino-loweralkyl)-3-[(2-pyridyl)-(R<sub>1</sub>) methyl]-indenes. 2,947,756, 8-2-60, Cl. 260-296.
- Huebner, Charles F., to Ciba Pharmaceutical Products, Inc. Certain 2-phenyl-imino-3-phenyl-thiazolidines. 2,949,455, 8-16-60, Cl. 260-240.
- Huebner, Charles F., to Ciba Pharmaceutical Products, Inc. Thiazolidine derivatives. 2,949,462, 8-16-60, Cl. 260-240.
- Huebner, Charles F., to Ciba Pharmaceutical Products, Inc. Phthalimidines and process for manufacturing same. 2,957,872, 10-25-60, Cl. 260-247.2.
- Huebner, Charles F., to Ciba Pharmaceutical Products, Inc. New process for the preparation of organic alkaloid-like compounds. 2,957,877, 10-25-60, Cl. 260-287.
- Hueck, Hendrik J.: *See*—
- Van Bochove, Cornelis, and Hueck. 2,938,815.
- Huehn, Alfred H.: *See*—
- Jones, Beauford E., Jr., and Huehn. 2,955,805.
- Huemmer, Hans, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of cyanogen and carbon disulfide. 2,955,023, 10-4-60, Cl. 23-151.
- Huenerfauth, George E. Electro-processing or dipping apparatus. 2,958,330, 11-1-60, Cl. 134-58.
- Hueni, Albrecht: *See*—
- Druey, Jean, Hueni, Ringier, and Staehelin. 2,963,477.
- Huesler, Hans, E. W. Schoeffel, and F. J. Zimmermann, to Sterling Drug Inc. Starting oxidation procedure. 2,932,613, 4-12-60, Cl. 210-63.
- Huet, André, to Combustion Engineering, Inc. Machine for straightening tube bends. 2,966,196, 12-27-60, Cl. 153-32.
- Huet, André, to Combustion Engineering, Inc. Apparatus for bending tubes for small radius bends. 2,966,197, 12-27-60, Cl. 153-40.
- Huet, André P. Forging paste. 2,926,138, 2-23-60, Cl. 252-30.
- Huet, Fernand, to Societe de Brevets H.D. Aircraft including propelling units disposed symmetrically with respect to the fore-and-aft axis of the aircraft. 2,954,944, 10-4-60, Cl. 244-12.
- Hueter, Oscar M., Jr., to Stewart Engineering Co. Electron gun assembly. 2,938,133, 5-24-60, Cl. 313-69.
- Hueth, Hans: *See*—
- Stich, Wilhelm, and Hueth. 2,931,892.
- Huetten, Clarence, and M. E. Hinebaugh, to P. R. Mallory & Co., Inc. Spring pin cascaded circuit cards. 2,931,003, 3-29-60, Cl. 339-17.
- Huetter, Wolfgang: *See*—
- Ritter, Kaspar, and Huetter. 2,945,382.
- Huey, Clayton S.: *See*—
- Hull, Donald E., and Huey. 2,943,045.
- Huey, Guy L.: *See*—
- Frey, Edward, Mollet, Kies, and Huey. 2,960,784.



- Huey, William R., to United States of America, Atomic Energy Commission. Jacketed uranium nuclear reactor fuel element. 2,927,071, 3-1-60, Cl. 204—193.2.
- Huff, Arthur J., to Lear, Inc. Magnetic motor pole piece radial brake. 2,959,695, 11-8-60, Cl. 310—77.
- Huff, David V.: *See*—
- Wilmer, Rudolph H., and Huff. 2,936,206.
- Huff, George F.: *See*—
- Schechter, William H., Adams, and Huff. 2,938,923.
- Huff, George F., to Callery Chemical Co. Method and composition for subjecting metals to reducing conditions. 2,935,428, 5-3-60, Cl. 134—2.
- Huff, George F., and A. D. McElroy, to Callery Chemical Co. Displacement method for preparation of metal borohydrides. 2,938,767, 5-31-60, Cl. 23—14.
- Huff, John B., and L. L. Wolff, to Burroughs Corp. Probe circuit closer. 2,925,578, 2-16-60, Cl. 339—209.
- Huff, Joseph F., to American Radiator & Standard Sanitary Corp. Electric pressure regulator. 2,926,691, 3-1-60, Cl. 137—487.5.
- Huff, Joseph N.: *See*—
- Finnegan, William B., Huff, and Wilson. 2,949,676.
- Huff, Norman M.: *See*—
- Remus, Everett A., Lamar, and Huff. 2,961,000.
- Huffaker, Garth B. Football position aligner. 2,935,792, 5-10-60, Cl. 33—46.
- Huffaker, Melvin S.: *See*—
- Hapman, Henry W. 2,922,513.
- Huffaker, Nordell N. Concealed chair apparatus. 2,961,034, 11-22-60, Cl. 155—83.
- Huffman, Albert B. License plate holder. 2,935,281, 5-3-60, Cl. 248—28.
- Huffman, Carl F., Jr.: *See*—
- Rupp, Hermann. 2,922,943.
- Huffman, Clarence W., to Monsanto Chemical Co. Endoxonridazines. 2,957,874, 10-25-60, Cl. 260—250.
- Huffman, Irvin N. Holder. 2,964,201, 12-13-60, Cl. 211—115.
- Huffman, John W., to Westinghouse Electric Corp. Control for cooking vessel. 2,924,700, 2-9-60, Cl. 219—44.
- Huffman, Levi D. Camera support or mount. 2,926,591, 3-1-60, Cl. 95—86.
- Huffman, Max N., to Lasdon Foundation, Inc. 17-alkoxy-1,3,5(10)-estratrien-3,16-diols and the production thereof. 2,945,048, 7-12-60, Cl. 260—397.5.
- Huffman, Max N., to Lasdon Foundation, Inc. Androstan-16-ol-3-one compounds and the production thereof. 2,963,493, 12-6-60, Cl. 260—397.4.
- Huffman, Oscar J., Jr.: *See*—
- Dickens, Donald F., and Huffman. 2,926,781.
- Roderick, Wayne J., and Huffman. 2,922,565.
- Huffman, Mervin C., H. C. Gustafson, and G. C. Pearson, to Gardner-Denver Co. Rock drill. 2,942,578, 6-28-60, Cl. 121—10.
- Huffman, Robert L., to General Telephone Laboratories, Inc. Switch wiper assembly. 2,922,013, 1-19-60, Cl. 200—166.
- Huffman, Thomas W., Jr., and T. W. Huffman, Sr. Supplemental cooling system for engine radiators. 2,960,315, 11-15-60, Cl. 257—215.
- Huffman, Thomas W., Sr.: *See*—
- Huffman, Thomas W., Jr., and T. W. Huffman, Sr. 2,960,315.
- Huffman, William A. H.: *See*—
- Wagner, William S., and Huffman. 2,924,501.
- Scruggs, Jack G., and Huffman. 2,956,985.
- Huffman, William A. H., and W. S. Wagner, to The Chemstrand Corp. Wet-spinning of polyester fibers. 2,924,500, 2-9-60, Cl. 18—54.
- Hufford Corp.: *See*—
- Nelson, Melvin E. 2,945,522.
- Hufgard, Edwin F., J. M. Antochow, and A. Yurka, Jr., to The Cyril Bath Co. Method and apparatus for forming sheet metal stock. 2,924,262, 2-9-60, Cl. 153—46.
- Hufnagel, Andrew, to Westinghouse Air Brake Co. Inductive apparatus. 2,930,012, 3-22-60, Cl. 336—178.
- Hufnagel, Andrew, to Westinghouse Air Brake Co. Electrical relays. 2,945,107, 7-12-60, Cl. 200—104.
- Hufnagel, Georg, Werkzeugfabrik: *See*—
- Stadler, Karl H. 2,944,325.
- Hufnagel, Robert E.: *See*—
- Plouffe, Robert L., Jr., and Hufnagel. 2,951,905.
- Hufnagel, Robert E., to International Telephone and Telegraph Corp. Instantaneous type time compressors and expanders for pulse time modulation transmission systems. 2,959,641, 11-8-60, Cl. 179—15.
- Hufstader, Gibson O., to General Motors Corp. Universal joint expansion ball. 2,953,001, 9-20-60, Cl. 64—17.
- Hufstader, Gibson O., to General Motors Corp. Universal joint expansion ball. 2,953,910, 9-27-60, Cl. 64—17.
- Hug, Donald H.: *See*—
- Daniels, Phillip D., and Hug. 2,963,084.
- Hug, Hans R., to Schweizerische Lokomotiv-und Maschinenfabrik. Dual fuel internal combustion engine. 2,928,382, 3-15-60, Cl. 123—27.
- Hug, Hans R., to Schweizerische Lokomotiv-und Maschinenfabrik. Device for controlling the air inlet throttling member of a gas or dual fuel operated internal combustion engine. 2,954,760, 10-4-60, Cl. 123—27.
- Huge, Ernest C.: *See*—
- Iager, Raymond F., Huge, Ammon, and Bryan. 2,920,609.
- Huge, Henry M., and S. L. Merkel. Regulated rectifier. 2,937,328, 5-17-60, Cl. 321—19.
- Hugel, Georges, to Institut Francais du Petrole des Carburants et Lubrifiants. Lubricants containing nitrogenous thiomolybdates. 2,938,869, 5-31-60, Cl. 252—46.4.
- Hugel, Georges, and R. Courtel, to Institute Francais du Petrole des Carburants et Lubrifiants. Extreme pressure lubricants containing molybdenic xanthates. 2,951,040, 8-30-60, Cl. 252—33.6.
- Hugel, Robert, and A. Pasetti, to Montecatini-Societa Generale per l'Industria Mineraria e Chimica. Preparation of trichloro-isocyanuric acid. 2,938,032, 5-24-60, Cl. 260—248.
- Hugenholtz, Eduard H., and A. M. Towle, to North American Phillips Co., Inc. Phase lock system. 2,956,239, 10-11-60, Cl. 331—4.
- Hugentobler, Max. Percolator on coffee machines. 2,951,431, 9-6-60, Cl. 99—299.
- Huget, Karl L. Quick-releasable pivotal connector. 2,963,734, 12-13-60, Cl. 16—171.
- Hugger, Richard H., to United States Rubber Co. Embossing method and apparatus. 2,928,124, 3-15-60, Cl. 18—19.
- Huggin, Forrest E., H. M. Diambra, and W. E. Didra: said Diambra assor., to Citizens Bank of Maryland, and Small Business Administration. Automatic frequency-compensated gain control for multi-channel television distribution lines. 2,929,062, 3-15-60, Cl. 343—205.
- Huggins, Charles E., G. F. Munn, and R. W. Smith, to General Motors Co. Sheet metal weld assembly. 2,928,932, 3-15-60, Cl. 219—137.
- Huggins, Homer D., to Modine Mfg. Co. Heat exchanger with an expansion joint. 2,933,291, 4-19-60, Cl. 257—154.
- Huggins, John A., and N. H. Mercer, to Mead Johnson & Co. Laxative composition. 2,938,832, 5-31-60, Cl. 167—56.
- Huggins, Willard R., and P. A. Temple, to The Home-O-Nize Co. Follower assembly for card tray. 2,965,104, 12-20-60, Cl. 129—31.
- Huggins, William H., to Curtiss-Wright Corp. Apparatus and method for detecting abrupt changes in dielectric sheet material. 2,942,248, 6-21-60, Cl. 340—259.
- Hugger, Friedrich, to Georg Fischer Akt. Template switch arrangement for use in connection with multi-operation copying machines. 2,920,519, 1-12-60, Cl. 82—14.
- Hughel, Alvin M., and J. C. Buchanan. Breech bolt mechanism for repeating rifles. 2,932,108, 4-12-60, Cl. 42—18.
- Hughel, Thomas J., to General Motors Corp. Refrigerating apparatus. 2,966,033, 12-27-60, Cl. 62—3.
- Hughes Aircraft Co.: *See*—
- Adamson, Phil A., Engel, and Nelson. 2,936,116.
- Aveni, Anthony. 2,921,751.
- Bates, David J. 2,956,200.
- Baum, Custer C. 2,946,893.
- Begovich, Nicholas A., Epstein, and Reed. 2,952,845.
- Beintema, Chester D. 2,962,623.
- Bennett, Robert R. 2,926,852.
- Berk, Aristid D. 2,939,094.
- Berk, Aristid D., and Strumwasser. 2,951,215.
- Berman, Leon J., and Jacoby. 2,923,780.
- Birdsall, Charles K. 2,921,215.
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- Birdsall, Charles K. 2,935,640.
- Birdsall, Charles K. 2,957,103.
- Blankenbaker, John V. 2,923,474.
- Blasberg, Lawrence A., Hughes, and Lader. 2,929,058.
- Brewer, George R. 2,936,394.
- Brower, David F. 2,927,163.
- Caldwell, Joseph J., Jr. 2,935,641.
- Campbell, Richard A. 2,963,653.
- Clapp, Roger W. 2,951,217.
- Currie, Malcolm R. 2,936,396.
- Currie, Malcolm R., and Forster. 2,936,393.
- Curtis, Charles W., and Fogel. 2,923,895.
- Curtis, Daniel L. 2,923,589.
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- Day, Richard A. 2,946,899.
- Day, Richard A. 2,956,177.
- Elliott, Robert S. 2,921,309.
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- Eschner, Albert, Jr. 2,935,687.
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- Everhart, Thomas E. 2,936,395.
- Everhart, Thomas E. 2,963,615.
- Exner, William L., and Scarbrough. 2,932,471.
- Flannery, Eugene J., and Leonard. 2,957,102.
- Forbath, Frank P., and Hansen. 2,928,938.
- Garson, Joseph H. 2,952,042.
- Glasson, William J. 2,955,413.
- Goad, Robert J. 2,923,898.
- Goodykoontz, James R., Jr., and Rasmussen. 2,921,550.
- Haberland, Ernest R. 2,932,703.
- Hamilton, Douglas J. 2,957,090.
- Hansen, Robert C., and Pease. 2,921,308.
- Hansen, Siegfried. 2,941,080.
- Hanson, Berger G., and Oechsner. 2,941,451.
- Hardin, Robert H. 2,954,467.
- Haughwout, John H. 2,957,170.
- Hesse, Kenneth R. 2,928,970.
- Hodder, Wayne K. 2,929,928.
- Hostetter, John L. 2,936,661.
- Hostetter, John L. 2,948,859.
- Howey, Charles K., and Watts. 2,945,401.
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- Iversen, Arthur H. 2,930,097.  
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 Loughran, Robert H. 2,922,050.  
 Lowhurst, Harvey G. 2,923,897.  
 Miller, Burton F. 2,935,016.  
 Myer, Jon H. 2,928,950.  
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 Robbins, Howard M., and Kaiser. 2,958,852.  
 Rodine, Milward T. 2,960,015.  
 Rogers, James G. 2,960,914.  
 Ruppright, Siegfried. 2,949,931.  
 Scarbrough, Alfred D. 2,926,341.  
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 Shanks, Howard E. 2,946,056.  
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 Spurr, Robert A., and Myers. 2,960,862.  
 Stameson, Spiro A. 2,948,858.  
 Steinke, Walter H. 2,964,711.  
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 Welty, William R. 2,942,191.  
 Williams, Donald D. 2,949,604.  
 Williams, Donald D. 2,949,780.  
 Wohlman, Fred. 2,935,097.  
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- Hughes, Alvin W. Device for cutting meat into small chunks for grinding or other processing. 2,963,062, 12-6-60, Cl. 146-123.
- Hughes, Arthur C., Jr.: *See*—  
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- Hughes, Charles E.: *See*—  
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- Hughes, Charles J.: *See*—  
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- Hughes, Charles R., to Kalamazoo Industrial Services, Inc. Device for pulping fibers. 2,966,313, 12-27-60, Cl. 241-46.
- Hughes, David A., to Western Electric Co., Inc. Soldering apparatus. 2,925,485, 2-16-60, Cl. 219-9.5.
- Hughes, David P., and S. G. Fletcher, to Latrobe Steel Co. Ferrous alloys and articles made therefrom. 2,949,356, 8-16-60, Cl. 75-126.
- Hughes, Donald L., W. W. Pollack, B. Schwartzman, and S. Goldberg. Automatic apparatus for accelerated production of green feed for live stock. 2,952,096, 9-13-60, Cl. 47-1.2.
- Hughes, Donald N., to The Magnavox Co. Test fixture for centrifuges. 2,962,896, 12-6-60, Cl. 73-167.
- Hughes, Earl K. Curved picture frame. 2,961,789, 11-29-60, Cl. 40-152.
- Hughes, Edward L., to General Electric Co. Apparatus for forming tubular articles. 2,927,624, 3-8-60, Cl. 154-1.8.
- Hughes, Elbert L., and W. W. Snyder. Amusement device. 2,957,273, 10-25-60, Cl. 46-227.
- Hughes, Ernest S., Jr.: *See*—  
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- Hughes, Everett C.: *See*—  
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- Hughes, Everett C., and H. M. Stine, to The Standard Oil Co. Metal drawing lubricant. 2,947,692, 8-2-60, Cl. 252-28.
- Hughes, Everett C., and H. E. Alford, to The Standard Oil Co. Additive for minimizing cold sludge formation and lubricating oil containing the same. 2,964,473, 12-13-60, Cl. 252-18.
- Hughes, Frederick E. Fish lure. 2,925,681, 2-23-60, Cl. 43-42.5.
- Hughes, Frederick E. Magnetic fish lure. 2,965,996, 12-27-60, Cl. 43-42.22.
- Hughes, Frederick G.: *See*—  
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 Burke, Thomas U., Hughes, Reichle, and Vinson. 2,941,739.
- Hughes, Griffith J., to Beatty Bros. Ltd. Automatic pressure release wringer having automatic roll stop. 2,937,517, 5-24-60, Cl. 68-255.
- Hughes, Harold K.: *See*—  
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- Hughes, Harry W. Car hand controls. 2,949,044, 8-16-60, Cl. 74-481.
- Hughes, Henry S.: *See*—  
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- Hughes, Howard V. Cable splicing stand. 2,940,728, 6-14-60, Cl. 254-81.
- Hughes, James E. Support for dish cloth. 2,931,514, 4-5-60, Cl. 211-41.
- Hughes, Jesse E., and D. N. Thatcher, to E. I. du Pont de Nemours and Co. Explosive. 2,952,708, 9-13-60, Cl. 260-607.
- Hughes, John V., and W. L. Rollwitz, to Southern Gas Association. Gas pumping system analog. 2,951,638, 9-6-60, Cl. 235-183.
- Hughes, Lafayette M.: *See*—  
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- Hughes, Lafayette M., Jr.: *See*—  
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- Hughes, Lawrence J., and T. D. McMinn, Jr., to Monsanto Chemical Co. Production of styrene. 2,964,578, 12-13-60, Cl. 260-669.
- Hughes, Lawrence M., to General Electric Co. Half-wave magnetic amplifier. 2,941,141, 6-14-60, Cl. 323-89.
- Hughes, Nathan B. Coating composition. 2,942,995, 6-28-60, Cl. 106-224.
- Hughes, Paul R.: *See*—  
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- Hughes, Paul R., and W. C. Klank, Jr., to United Aircraft Products, Inc. Storage tank for liquid circulating system. 2,943,841, 7-5-60, Cl. 257-195.
- Hughes, Paul T. Vehicle wheel brakes. 2,919,771, 1-5-60, Cl. 188-78.
- Hughes, Philip G., to General Electric Co. Clothes dryer with reversible blower. 2,961,776, 11-29-60, Cl. 34-133.
- Hughes, Ray C., to North American Philips Co., Inc. Dispenser cathode. 2,929,133, 3-22-60, Cl. 29-182.5.
- Hughes, Robert G., to Continental Can Co., Inc. Paperboard can holder. 2,965,410, 12-20-60, Cl. 294-87.2.
- Hughes, Robert H.: *See*—  
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- Hughes, Robert W., to Joy Mfg. Co. Pump. 2,931,313, 4-5-60, Cl. 103-178.
- Hughes, Robert W., to International Telephone and Telegraph Corp. Hybrid circuits. 2,947,952, 8-2-60, Cl. 333-11.
- Hughes, Robert W., to International Telephone and Telegraph Corp. Data processing transposition system. 2,955,280, 10-4-60, Cl. 340-172.5.
- Hughes, Robert W., and S. C. Collins, to Joy Mfg. Co. Apparatus for and method of separating gases. 2,919,555, 1-5-60, Cl. 62-13.
- Hughes, Roy A., to Monsanto Chemical Co. Process for production of amino compounds. 2,965,671, 12-20-60, Cl. 260-465.5.
- Hughes, Samuel T., 1/2 to C. L. Hanks. Rodent capturing device. 2,962,836, 12-6-60, Cl. 43-58.
- Hughes, Thomas M., Jr. Duck call holder. 2,961,135, 11-22-60, Cl. 224-28.
- Hughes Tool Co.: *See*—  
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- Hughes Tool Co., Aircraft Div.: *See*—  
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- Hughes, Vincent L.: *See*—  
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- Hughes, Wilbur B., and M. J. Enell, to Pres-Sure-Tite Products, Inc. Testing device for vehicle radiator caps and cooling systems. 2,940,301, 6-14-60, Cl. 73-40.
- Hughes, Willard A.: *See*—  
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- Hughes, William: *See*—  
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- Hughes, William, to British Titan Products Co. Ltd. Preparation of ferrous sulfate monohydrate suspensions. 2,928,725, 3-15-60, Cl. 23-126.
- Hughes, William, and B. Harris, to British Titan Products Co. Ltd. Preparation of titanium dioxide. 2,937,928, 5-24-60, Cl. 23-202.
- Hughes, William B.: *See*—  
 Stromberg, Verner L., and Hughes. 2,944,969.
- Hughes, William B., to Cities Service Research and Development Co. Method of inhibiting corrosion of metals. 2,924,571, 2-9-60, Cl. 252-8.55.
- Hughes, William B., to Cities Service Research and Development Co. Imidazolidone derivatives. 2,924,605, 2-9-60, Cl. 260-309.7.
- Hughes, William B., to Cities Service Research and Development Co. Certain substituted imidazolidones and imidazolidine thiones. 2,926,169, 2-23-60, Cl. 260-309.6.
- Hughes, William B., to Cities Service Research and Development Co. Certain substituted imidazolidine guanylimines. 2,927,922, 3-8-60, Cl. 260-240.
- Hughes, William B., to Cities Service Research and Development Co. Composition for and method of inhibiting corrosion of metals. 2,940,927, 6-14-60, Cl. 252-8.55.



- Hughes, William B., to Cities Service Research and Development Co. Method of inhibiting corrosion. 2,964,471, 12-13-60, Cl. 252-8.55.
- Hughes, William B., W. S. Fallgatter, and J. Newcombe, to Cities Service Research and Development Co. Process for increasing the permeability of oil bearing chalk formations. 2,950,246, 8-23-60, Cl. 252-8.55.
- Hughes, William E.: *See—*
- Herbold, Robert J. 2,953,742.
- Hughes, William J.: *See—*
- Ramey, David E., Hughes, and Van Overbeek. 2,955,929.
- Hughes, William J., and K. D. Shaub, to Bendix Aviation Corp. Miniature sealed pressure switch. 2,943,167, 6-28-60, Cl. 200-83.
- Hughes, William L., to Reel-Ceel Corp. Package. 2,949,370, 8-16-60, Cl. 99-173.
- Hughes, William L., to Iowa State College Research Foundation, Inc. Method for recording and reproducing color television information. 2,953,633, 9-20-60, Cl. 178-5.2.
- Hughey, Dwight M., to American Machine & Foundry Co. Snap action devices. 2,936,350, 5-10-60, Cl. 200-67.
- Hughey, Howard G., to Air Reduction Co., Inc. Method and apparatus for preventing backfire in gas burner systems. 2,938,577, 5-31-60, Cl. 158-123.
- Hughson, Charles R., to Hyster Co. Counterweighted vehicle. 2,925,149, 2-16-60, Cl. 187-9.
- Hughson, J. Donald, to General Railway Signal Co. Remote control organization for a locomotive. 2,948,234, 8-9-60, Cl. 104-26.
- Hugo, Adolph B., to American Steel & Pump Corp. Oklahoma Steel Cstgs. Co. Div. Electrode holder. 2,935,597, 5-3-60, Cl. 219-140.
- Hugo, Victor H., and C. Dorcsjak. Spring loaded rotary clutching mechanism. 2,959,945, 11-15-60, Cl. 64-29.
- Huguenin, Jacques. Joint structure for frame members. 2,932,369, 4-12-60, Cl. 189-36.
- Hugues, Edgar A.: *See—*
- Coeysaux, Georges E., Deramond, and Hugues. 2,964,991.
- Huhn, Fritz. Indexing mechanism. 2,933,930, 4-26-60, Cl. 74-129.
- Huhn, Peter. Variable frequency generator arrangement. 2,957,144, 10-18-60, Cl. 331-40.
- Huhndorff, Roland F.: *See—*
- Woodle, Robert A., McKinley, Huhndorff, and McIntosh. 2,943,037.
- Huhtanen, Charles N., and W. L. Williams, to American Cyanamid Co. Animal feed composition. 2,962,378, 11-29-60, Cl. 99-2.
- Huiras, Lucia M., to R. H. Rickard Associates. Doll bed. 2,933,736, 4-26-60, Cl. 5-182.
- Huisman, George R., and C. Shorts, to Filon Plastics Corp. Composite sheet fabricating apparatus and methods. 2,927,623, 3-8-60, Cl. 154-17.
- Huitt, Jimmie L., and A. J. Teplitz, to Gulf Research & Development Co. Process for removal of minerals from sub-surface stratum by liquefaction. 2,966,346, 12-27-60, Cl. 262-3.
- Hujsak, Edward J. Fluid pressure sensitive resistance bridge circuit. 2,946,222, 7-26-60, Cl. 73-398.
- Hulbert, John K., to Borg-Warner Corp. Fluid sustained and fluid propelled flying vehicle. 2,955,780, 10-11-60, Cl. 244-23.
- Hulick, Michael J. Loaded fish lure. 2,955,380, 10-11-60, Cl. 43-42.36.
- Huliew, Andrie. Signaling device for fishing lines. 2,921,399, 1-19-60, Cl. 43-17.
- Hull, Albert W., to General Electric Co. Control of machine tool operation. 2,943,251, 6-28-60, Cl. 318-162.
- Hull, Charles H., to David Brown Tractors (Engineering) Ltd. Tractor-implement combination with weight transfer adjustment. 2,958,384, 11-1-60, Cl. 172-491.
- Hull, David C.: *See—*
- Hagemeyer, Hugh J., Jr., Hull, and Perry. 2,941,011.
- Hull, Donald E., to California Research Corp. Method for tracing separation processes. 2,957,989, 10-25-60, Cl. 250-71.5.
- Hull, Donald E., and C. S. Huey, to California Research Corp. Radioactive measurement of the flow rate of a moving bed. 2,943,045, 6-28-60, Cl. 208-165.
- Hull, Donald R., to E. I. du Pont de Nemours and Co. Laminated spinneret and process for making. 2,965,924, 12-27-60, Cl. 18-8.
- Hull, Duane M., to The Alliance Machine Co. Dual hook blocks. 2,960,310, 11-15-60, Cl. 254-168.
- Hull, Edwin H., to General Electric Co. Oil mist lubrication apparatus and system. 2,948,355, 8-9-60, Cl. 184-6.
- Hull, Geoffrey W.: *See—*
- Speedie, John D., and Hull. 2,951,017.
- Hull, George H. Picture frames. 2,954,630, 10-4-60, Cl. 40-152.1.
- Hull, Harvard L., to International Telephone and Telegraph Corp. Method of fabricating a phosphor screen. 2,920,959, 1-12-60, Cl. 96-35.
- Hull, R. Dell. Spinning type casting reel. 2,929,578, 3-22-60, Cl. 242-84.2.
- Hull, R. Dell. Underslung spinning reel. 2,929,579, 3-22-60, Cl. 242-84.2.
- Hull, R. Dell. Practice casting plug. 2,955,379, 10-11-60, Cl. 43-42.35.
- Hull, R. Dell. Heavy duty spinning reel. 2,964,257, 12-13-60, Cl. 242-84.51.
- Hull, Raymond J., to Gas Processing Inc. Natural gas treatment. 2,964,915, 12-20-60, Cl. 62-24.
- Hull, Robert E.: *See—*
- Fox, Samuel S., Hull, Odegaard, and Bristol. 2,958,457.
- Hull, Robert E., and J. W. Wallace, to Westinghouse Electric Corp. Electrical motor control apparatus. 2,965,826, 12-20-60, Cl. 318-158.
- Hull, Robert R., to R. G. Markham. Oscillatory compressor. 2,961,149, 11-22-60, Cl. 230-55.
- Hull, Walter E. Object supporting means. 2,919,880, 1-5-60, Cl. 248-276.
- Hull, Walter E. Magnetic compass. 2,943,398, 7-5-60, Cl. 33-225.
- Hulla, Louis J. No drip brush attachment. 2,948,910, 8-16-60, Cl. 15-159.
- Hulley, Bernard J., to Sunvic Controls Ltd. Fluid-operated computing apparatus. 2,957,622, 10-25-60, Cl. 235-61.
- Hullhorst, William B.: *See—*
- Drummond, Warren W., Hullhorst, and Plummer. 2,949,633.
- Hullman, Julius F., 25% to E. Franke, and 25% to O. V. Puzik. Liquid metering dispensing apparatus. 2,954,146, 9-27-60, Cl. 222-193.
- Hulme, Jack R.: *See—*
- Brown, Thomas L., and Hulme. 2,925,573.
- Hulme, Philip M.: *See—*
- Crockett, John M., and Hulme. 2,963,364.
- Hulsh, Sheldon D. Rug shampoo apparatus. 2,951,256, 9-6-60, Cl. 15-124.
- Hulslander, William L., to Homestead Valve Mfg. Co. Lubricated plug valve. 2,965,123, 12-20-60, Cl. 137-246.17.
- Hülse, Werner, to H. Vorkauf. Tubular element for tubular steam generators. 2,922,405, 1-26-60, Cl. 122-406.
- Hulst, George D., to International Telephone and Telegraph Corp. Readout system. 2,934,653, 4-26-60, Cl. 250-220.
- Hulst, George D., to International Telephone and Telegraph Corp. Analog-to-digital translator. 2,943,311, 6-28-60, Cl. 340-347.
- Hulster, Friedrich, to Compagnie Francaise Thomson-Houston. High frequency electric discharge devices. 2,935,645, 5-3-60, Cl. 315-39.73.
- Hulswit, William H., Jr.: *See—*
- Klang, Robert S., Hindin, and Hulswit. 2,930,426.
- Hulswit, William H., Jr., D. R. Elliott, and E. H. Culp, to United States Rubber Co. Apparatus for determining the tendency of pneumatic tires to produce thump. 2,920,481, 1-12-60, Cl. 73-146.
- Hulten, Richard E., to General Motors Corp. Oil pump mounting. 2,922,493, 1-26-60, Cl. 184-6.
- Hultenius, Sture A., and L. C. Hall. Lathe center. 2,944,455, 7-12-60, Cl. 82-33.
- Hulterstrum, Harold D., to Flambeau Plastics Corp. Mold for frozen confections. 2,946,207, 7-26-60, Cl. 62-355.
- Hultgren, Arnold P., to American Molded Products. Reel construction. 2,954,941, 10-4-60, Cl. 242-74.
- Hultin, Eskil A., and S. L. Nordstrom. Dextran glucosides, preparation thereof and blood substitutes containing the same. 2,929,764, 3-22-60, Cl. 167-78.
- Hultkrans, Paul B., to Milprint, Inc. Container for sliced food products. 2,940,861, 6-14-60, Cl. 99-171.
- Hultkrans, Paul B., M. E. Griem, and D. W. Davis, to Milprint, Inc. Method of packaging food commodities for merchandising purposes. 2,955,941, 10-11-60, Cl. 99-171.
- Humber, John H., and H. Kalfaian, to Bendix Aviation Corp. Temperature compensating means for a generator. 2,926,297, 2-23-60, Cl. 322-33.
- Humber Ltd.: *See—*
- Brown, Richard H. 2,923,387.
- Priestman, Francis D. 2,940,789.
- Humbert, Kingsley E., Jr., to Wix Corp. Filter unit. 2,937,756, 5-24-60, Cl. 210-444.
- Humbert, Reuben J. Satellite orbit toys. 2,949,682, 8-23-60, Cl. 35-46.
- Humble Oil & Refining Co.: *See—*
- Cornell, Hampton G., and Meredith. 2,947,578.
- Humburg, Frank R.: *See—*
- Janak, John, Humburg, and Hill. 2,930,705.
- Hume, Fred E., to Specialized Electrical Products Co. Strap hanger. 2,919,879, 1-5-60, Cl. 248-205.
- Hume, Gertrude B. Mattress assembly. 2,923,014, 2-2-60, Cl. 5-320.
- Hume, Horace D.: *See—*
- Scheidenhelm, Earl L. 2,930,436.
- Scheidenhelm, Earl L. 2,937,488.
- Scheidenhelm, Earl L. 2,958,176.
- Hume, Horace D. Balance control for push type harvesters. 2,955,813, 10-11-60, Cl. 267-1.
- Hume, Roger E., to General Electric Co. Ballast apparatus. 2,965,800, 12-20-60, Cl. 315-138.
- Humez, David E., and R. F. Morey, Jr., to Clevite Corp. Self-starting transistor oscillator unit. 2,950,446, 8-23-60, Cl. 331-114.
- Hummel, Donald G.: *See—*
- Barr, Claude J., and Hummel. 2,965,450.
- Hummel, Floyd A., to The Carborundum Co. Thermal shock resistant ceramic body. Re. 24,795, 3-15-60, Cl. 106-65.
- Hummel, Floyd A., to General Electric Co. Magnesium aluminum silicate phosphor. 2,961,412, 11-22-60, Cl. 252-301.4.
- Hummer, David G., to General Dynamics Corp. Vacuum seal. 2,958,454, 11-1-60, Cl. 230-1.



- Humphner, Ferdinand W., to Minnesota Mining and Mfg. Co. Decalcomania and method of using same. 2,920,009, 1-5-60, Cl. 154-95.
- Humphner, Ferdinand W., to Minnesota Mining and Mfg. Co. Solenoid control and tape forming machine. 2,920,681, 1-12-60, Cl. 154-17.
- Humphner, Ferdinand W., to Minnesota Mining and Mfg. Co. Machine for dispensing and severing draw tape. 2,931,419, 4-5-60, Cl. 154-17.
- Humphres, Herbert W. Cavity volume measuring instruments. 2,924,096, 2-9-60, Cl. 73-149.
- Humphrey, Andrew J., to The Reliance Electric & Engineering Co. Electric terminal. 2,958,066, 10-25-60, Cl. 339-50.
- Humphrey, Howard C., to Texaco Inc. Weighted drill collar. 2,958,512, 11-1-60, Cl. 255-28.
- Humphrey, I. J., and J. D. Hamaker, to J. B. Sedberry Inc. Hammer mill with automatic screen-changing mechanism. 2,954,175, 9-27-60, Cl. 241-89.
- Humphrey, John R.: *See*—  
Hann, Gordon E., and Humphrey. 2,925,227.
- Humphrey, Marshall F., to Chas. Pfizer & Co., Inc. Preparation of citraconic anhydride. 2,966,498, 12-27-60, Cl. 260-346.8.
- Humphrey, Paul E. Cross spring flexure pivot and process of making the same. 2,931,092, 4-5-60, Cl. 29-149.5.
- Humphrey, Ralph L. Supporting structures for window sashes. 2,921,349, 1-19-60, Cl. 20-52.2.
- Humphrey, Robert P., to General Gas Light Co. Apparatus and method for making spirally corrugated metal tubes. Re. 24,783, 2-16-60, Cl. 153-71.
- Humphrey, Robert P., to General Gas Light Co. Fluid pressure actuated clutch with tiltable plate. 2,931,475, 4-5-60, Cl. 192-88.
- Humphrey, Ronnie D. Comb for use in cutting hair. 2,949,920, 8-23-60, Cl. 132-45.
- Humphrey, Ronnie D. Fishing reel casting device. 2,957,641, 10-25-60, Cl. 242-84.1.
- Humphreys, Dwight S., to International Telephone & Telegraph Corp. Audio amplifier system. 2,922,846, 1-26-60, Cl. 179-1.
- Humphreys Engineering Co.: *See*—  
Humphreys, Ira B. 2,926,436.
- Humphreys & Glasgow Ltd.: *See*—  
Hartley, Wilfred. 2,923,609.
- Humphreys, Ira B., to Humphreys Engineering Co. Rotary cutter for a dredge cutting head. 2,926,436, 3-1-60, Cl. 37-67.
- Humphreys, Robert B. Electric razor cord take-up reel. 2,926,865, 3-1-60, Cl. 242-107.13.
- Humphries, Douglas N.: *See*—  
Barecki, Chester J., Humphries, and Thompson. 2,962,087.
- Humphries, Douglas N., and W. E. Nordmark, to American Seating Co. Chair structure. 2,921,623, 1-19-60, Cl. 155-95.
- Humphries, Eleanor: *See*—  
Hollingsworth, Maurice H., and E. 2,930,857.  
Hollingsworth, Maurice H., and E. 2,930,858.
- Humphries, Harvey G., and J. Dickson, to General Motors Corp. Toxic exhaust gas preventing device for an internal combustion engine. 2,922,408, 1-26-60, Cl. 123-25.
- Humphries, Howard V., to Industrial Rayon Corp. Cone marking apparatus. 2,920,605, 1-12-60, Cl. 118-244.
- Humphries, John B., to The Excelsior Hardware Co. Lock construction. 2,956,827, 10-18-60, Cl. 292-99.
- Hund, Ernest A. W. L. Ellis, and C. J. McHugh, Jr., to The Lodge & Shipley Co. Lifting cup for article transferring apparatus. 2,929,653, 3-22-60, Cl. 294-64.
- Hund, Ralph, and S. S. Wirsig, to Speer Carbon Co. Electrode connecting nipple and joint. 2,941,828, 6-21-60, Cl. 287-127.
- Hundt, Frederick J. Powered fingernail file. 2,923,303, 2-2-60, Cl. 132-75.8.
- Hundt, Herbert W. Lapping tool. 2,948,089, 8-9-60, Cl. 51-184.3.
- Hune, Ronald G.: *See*—  
Morrell, James N., and Hune. 2,961,586.
- Hungate, Ernest C., to Carrier Corp. Apparatus for treating air. 2,932,360, 4-12-60, Cl. 183-24.
- Hungate, Ernest C., to Carrier Corp. Air conditioning systems for industrial applications. 2,953,355, 9-20-60, Cl. 257-281.
- Hunger, Alfred: *See*—  
Hoffmann, Karl, and Hunger. 2,944,062.
- Hoffmann, Karl, Hunger, Kehrle, and Rossi. 2,935,514.
- Hoffmann, Karl, Hunger, Kehrle, and Rossi. 2,942,002.
- Hoffmann, Karl, Hunger, Kehrle, and Rossi. 2,945,043.
- Hoffmann, Karl, Hunger, Kehrle, and Rossi. 2,945,044.
- Hunger, James C., and G. R. Reed. Folder cover. 2,946,604, 7-26-60, Cl. 281-34.
- Hungerford, Philip C., Jr.: *See*—  
Bevis, George E., and Hungerford. 2,927,551.  
Magill, John J., and Hungerford. 2,947,278.
- Hungerford, Philip C., Jr., to Curtiss-Wright Corp. Bidirectional no-back couplings. 2,946,417, 7-26-60, Cl. 192-8.
- Hungerford, Philip C., Jr., and R. F. Neff, to Curtiss-Wright Corp. Normally engaged type spring clutches. 2,951,568, 9-6-60, Cl. 192-81.
- Hungerford, Philip C., Jr., and C. R. Sacchini, to Curtiss-Wright Corp. Door latch mechanisms. 2,961,267, 11-22-60, Cl. 292-280.
- Hunsaker, James P.: *See*—  
Farrell, James H., Hunsaker, Pastuhov, and Robinson. 2,954,003.
- Hunsbedt, Theodore, to Bilwin Co., Inc. Shoe attachment for winter sports. 2,946,599, 7-26-60, Cl. 280-11.13.
- Hunsicker, William R., to Seismograph Service Corp. Radio location system. 2,943,319, 6-28-60, Cl. 343-105.
- Hunsinger, Lukas. Mixing faucet. 2,928,422, 3-15-60, Cl. 137-597.
- Hunt, A. H., (Capacitors) Ltd.: *See*—  
Robinson, Frederick C., 2,920,834.  
Robinson, Frederick C., and Beckett. 2,958,117.  
Robinson, Frederick C., and Bentley. 2,930,109.  
Williams, Kenneth G. D. 2,920,375.
- Hunt, Byron R.: *See*—  
Cutler, Stanley, and Hunt. 2,962,922.
- Hunt, Clayton E., Jr., to Eastman Kodak Co. Device for printing a selection character on address labels. 2,932,692, 4-12-60, Cl. 178-30.
- Hunt, Clayton E., Jr., and A. S. Bennett, to United States of America, Army. Fuze arming and safety mechanism. 2,951,444, 9-6-60, Cl. 102-78.
- Hunt, Clayton E., Jr., and R. G. Thompson, to Eastman Kodak Co. Punched card to magnetic tape converter. 2,957,162, 10-18-60, Cl. 340-172.5.
- Hunt, David G., and L. T. Beam, to The B. F. Goodrich Co. Method and apparatus for continuously curing plastic material. 2,958,096, 11-1-60, Cl. 18-6.
- Hunt, Dennis A., to Rotax Ltd. Control means for flashing electric signal lamp systems. 2,960,627, 11-15-60, Cl. 315-209.
- Hunt, Dewey E. Fish lure. 2,957,265, 10-25-60, Cl. 43-42.47.
- Hunt, Duncan G.: *See*—  
Groce, John C., Bates, and Hunt. 2,930,987.
- Hunt Foods, Inc.: *See*—  
Butters, Otto. 2,920,782.
- Hunt, Francis C.: *See*—  
Martin, Hugh M. 2,950,045.
- Hunt, George W. Ballast applicator and distributor. 2,961,975, 11-29-60, Cl. 105-239.
- Hunt, Harry C.: *See*—  
Frankel, Samuel R., Hunt, Haas, and Wenrich. 2,958,302.  
Frankel, Samuel R., Hunt, Haas, and Wenrich. 2,961,591.
- Hunt, Heman D.: *See*—  
Blake, Ralph K., Forsgard, and Hunt. 2,952,537.
- Hunt, James A.: *See*—  
Neidenberg, Lawrence L., Tamburr, and Hunt. 2,930,941.
- Hunt, James A., to J. D. Dawkins. Machine for reeling electric cable. 2,941,746, 6-21-60, Cl. 242-82.
- Hunt, James J., to Pullman-Standard Car Mfg. Co. Railway car diaphragm alignment and roll-control apparatus. 2,931,317, 4-5-60, Cl. 105-8.
- Hunt, James R. Marking tool. 2,965,972, 12-27-60, Cl. 33-197.
- Hunt, James W., to Electroanalysis Co. Meteorological apparatus. 2,953,020, 9-20-60, Cl. 73-170.
- Hunt, John M., to General Precision, Inc. Flight computer for grounded aircraft trainer. 2,935,796, 5-10-60, Cl. 35-12.
- Hunt, John M., to General Precision, Inc. Navigation training apparatus. 2,938,277, 5-31-60, Cl. 35-10.2.
- Hunt, John M., to General Precision, Inc. Simulated aircraft speed indicating systems. 2,938,280, 5-31-60, Cl. 35-12.
- Hunt, John M., to General Precision, Inc. Grounded flight trainer. 2,958,955, 11-8-60, Cl. 35-12.
- Hunt, John M., to General Precision, Inc. Automatic testing system. 2,961,607, 11-22-60, Cl. 324-73.
- Hunt, John M., to General Precision, Inc. Simulation of errors in an attitude gyro. 2,964,857, 12-20-60, Cl. 35-12.
- Hunt, Loyd E., and J. C. Schelleng, to Bell Telephone Laboratories, Inc. Wave guide phase inverter. 2,946,972, 7-26-60, Cl. 333-98.
- Hunt, Madison: *See*—  
Gresham, William F., and Hunt. 2,933,480.
- Hunt, Nathan C., to International Basic Economy Corp. Pressure responsive device. 2,964,062, 12-13-60, Cl. 137-784.
- Hunt, Nathan C., and K. H. Meyer, to International Basic Economy Corp. Fluid valve control. 2,966,168, 12-27-60, Cl. 137-270.
- Hunt, Nelson V. Sewer trap clean-out implement. 2,961,674, 11-29-60, Cl. 15-104.3.
- Hunt, Paul R.: *See*—  
Anderson, Robert, and Hunt. Re. 24,768.
- Hunt, Richard H.: *See*—  
Updegraff, Ivor H., and Hunt. 2,951,058.
- Hunt, Robert G., to Marco Products Co. Pipe cleaning machine. 2,955,307, 10-11-60, Cl. 15-104.3.
- Hunt, Roger A. Adjustable pack frame. 2,925,205, 2-16-60, Cl. 224-25.
- Hunt, Thomas D., and J. R. Buster, to Union Carbide Corp. Production of polychlorotrifluoroethylene textiles. 2,953,428, 9-20-60, Cl. 18-54.
- Hunt, Walker B. Manual propelling and steering apparatus for small boats. 2,956,535, 10-18-60, Cl. 115-24.
- Hunter, Alex E. Receptacle holder. 2,960,300, 11-15-60, Cl. 248-121.



- Hunter, Archibald S.: *See—*  
Loconti, Joseph D., Davies, Hunter, Coles, and Altamura. 2,925,498.
- Hunter, Austin R., and J. K. Rocks, to Kelco Co. Cold milk puddings and method of producing the same. 2,949,366, 8-16-60, Cl. 99-131.
- Hunter and Co. (Paints) Ltd.: *See—*  
Rodwell, Robert H. 2,923,643.
- Hunter, D. A.: *See—*  
Williamson, Robert W. 2,965,074.
- Hunter, David U., to Fairchild Engine and Airplane Corp. Valve assemblies. 2,920,858, 1-12-60, Cl. 251-118.
- Hunter, David U., to Fairchild Engine and Airplane Corp. Temperature responsive surge control. 2,955,745, 10-11-60, Cl. 230-115.
- Hunter, Don L.: *See—*  
Steinberg, Howard, Hunter, and Goda. 2,960,819.
- Hunter, Donald N., to D. Napier & Son Ltd. Cellular polyester-urethane resin and preparation of same. 2,937,152, 5-17-60, Cl. 260-25.
- Hunter, Dudley A.: *See—*  
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- Hunter, Dudley A., to H. K. Porter Co. Inc. Apparatus for stretch bending metal strip material. 2,958,361, 11-1-60, Cl. 153-32.
- Hunter, Edward A.: *See—*  
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- Hunter, Edward A., M. A. Segura, A. B. Small, and A. L. Miller, to Esso Research and Engineering Co. Method for preparing butyl rubber emulsions. 2,944,038, 7-5-60, Cl. 260-23.7.
- Hunter, Frank B. Relief valve. 2,951,500, 9-6-60, Cl. 137-493.9.
- Hunter, George D., to Deere & Co. Farm implement. 2,960,346, 11-15-60, Cl. 280-43.19.
- Hunter, Harvey S. Lighting fixture with door operated light switch. 2,932,726, 4-12-60, Cl. 240-2.
- Hunter, James, Inc.: *See—*  
Leineweber, William F., Jr., and Whitehurst. 2,938,239.
- Hunter, James, Machine Co.: *See—*  
Rust, Edgar C., Jr. 2,930,100.
- Hunter, James B., and G. M. Hickey,  $\frac{1}{2}$  to The Atlantic Refining Co. and  $\frac{1}{2}$  to J. Bishop and Co. Large surface area hydrogen permeation cell. 2,961,062, 11-22-60, Cl. 183-2.
- Hunter, Joseph W., and S. Fodor, Jr. Combination insulated receptacle and coaster device. 2,961,124, 11-22-60, Cl. 220-104.
- Hunter, Lee. Wheel mounting for balancing apparatus. 2,964,278, 12-13-60, Cl. 248-205.
- Hunter, Melmoth W. Magnetically actuated pump. 2,927,537, 3-8-60, Cl. 103-118.
- Hunter, Omer B., Jr. Water saucer. 2,938,726, 5-31-60, Cl. 272-32.
- Hunter, Ralph M.: *See—*  
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- Hunter, Ralph W. Method and apparatus for installing radiant heating cables. 2,940,481, 6-14-60, Cl. 140-93.
- Hunter, Richard S., to United States of America, Air Force. Visual densitometer. 2,956,473, 10-18-60, Cl. 88-14.
- Hunter, Robert C., to Curtis Mfg. Co. Stock straightening apparatus. 2,965,150, 12-20-60, Cl. 153-99.
- Hunter, Robert H.: *See—*  
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- Hunter, Robert H., A. J. Hanje, and H. W. Smith. Thermostatically controlled liquid fuel burner. 2,940,515, 6-14-60, Cl. 158-33.
- Hunter, Robert H., A. J. Hanje, and H. W. Smith; said Hanje and said Smith assors. to said Hunter. Separable torch head and fuel supply tank. 2,962,020, 11-29-60, Cl. 126-271.2.
- Hunter, Rodger, to The British Petroleum Co. Ltd. Treatment of hydrocarbon containing mixtures with aqueous media. 2,954,340, 9-27-60, Cl. 208-228.
- Hunter, Roger W., to International Telephone and Telegraph Corp. Information storage tube. 2,927,239, 3-1-60, Cl. 313-155.
- Hunter, Thomas, Ltd.: *See—*  
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- Hunting Survey Corp. Ltd.: *See—*  
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Hobrough, Gilbert L. 2,964,642.  
Hobrough, Gilbert L. 2,964,643.  
Hobrough, Gilbert L. 2,964,644.
- Huntington, Andrew B., and B. W. Ames, to Ross Operating Valve Co. Reversible cartridge speed control valve. 2,922,432, 1-26-60, Cl. 137-269.5.
- Huntington, George R. Trailer hitch. 2,927,802, 3-8-60, Cl. 280-511.
- Huntington, Robert C., to General Mills, Inc. Radar tester. 2,942,257, 6-21-60, Cl. 343-17.7.
- Huntley, Allan R., R. C. Morbeck, and W. G. May, to Esso Research and Engineering Co. Catalyst fines recovery and control system. 2,937,989, 5-24-60, Cl. 208-140.
- Huntley, Allan R., and F. R. Russell, to Esso Research and Engineering Co. Fluidized solids technique. 2,944,009, 7-5-60, Cl. 208-155.
- Huntley, Frederick H., and C. W. Fraim, to Motor Wheel Corp. Ignition means for vaporizing type of oil burner. 2,944,598, 7-12-60, Cl. 153-91.
- Huntoon, Robert D., to United States of America, Navy. Explosive ordnance construction. 2,921,518, 1-19-60, Cl. 102-2.
- Huntoon, Robert D., to United States of America, Navy. Gain control circuit. 2,934,712, 4-26-60, Cl. 330-101.
- Huntre, Desmond, to The British Thomson-Houston Co. Ltd. Radar ranging systems. 2,922,308, 1-26-60, Cl. 74-10.52.
- Hunyady, Frank, Jr., to A-M Co. Governor body. 2,921,156, 1-12-60, Cl. 200-80.
- Hunziker, Charles E. Filters. 2,957,580, 10-25-60, Cl. 210-347.
- Huot, Raymond N., to E. I. du Pont de Nemours and Co. Photographic elements. 2,920,962, 1-12-60, Cl. 96-106.
- Hupe, Adolf: *See—*  
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- Hupert, Julius J.: *See—*  
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- Hupp, Edward E.: *See—*  
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- Hupp, Edward E., and E. E. Prather, to Bendix Aviation Corp. Power braking system having reservoir control means. 2,934,903, 5-3-60, Cl. 60-60.
- Hupp, Ross E., to Erie Resistor Corp. Digital counter frequency monitor. 2,933,644, 4-19-60, Cl. 315-84.5.
- Huppert, Charles B. Hand stamps. 2,946,279, 7-26-60, Cl. 101-103.
- Huppert, Valetin: *See—*  
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- Huppertsberg, Karl. Braided band. 2,948,182, 8-9-60, Cl. 87-2.
- Hurbin, Meinrad: *See—*  
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- Hurd, Anna M.: *See—*  
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- Hurd, Edwin P., deceased; A. M. Hurd, executrix, to Hurd Lock & Mfg. Co. 2,937,048, 5-17-60, Cl. 301-37.
- Hurd, Edwin W., L. Goran, Jr., and C. E. Fischer, to Hurd Lock & Mfg. Co. Mechano-electric clocks. 2,957,116, 10-18-60, Cl. 318-132.
- Hurd, Frank W.: *See—*  
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- Hurd, George E., Jr., and H. J. Jewett, to Lockheed Aircraft Service, Inc. Propeller vibration suppressor. 2,929,586, 3-22-60, Cl. 244-129.
- Hurd, Ira S., and G. M. Haynes, to Moretex Chemical Products Inc. Method of treating a woven glass fabric with a water soluble salt of a partially deacetylated chitin. 2,961,344, 11-22-60, Cl. 117-126.
- Hurd Lock & Mfg. Co.: *See—*  
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Francis, Gerald A., Davis, and Smith. 2,944,333.  
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- Hurd, Reginald: *See—*  
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- Hurdle, Arthur J., to E. I. du Pont de Nemours and Co. Differential refractometer cell. 2,964,992, 12-20-60, Cl. 88-14.
- Hurdzan, Michael G., to Golfer's Swing-Clk, Inc. Golf club attachment. 2,950,115, 8-23-60, Cl. 273-186.
- Hure, Jacques: *See—*  
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- Hurka, Rudolph J., Jr.: *See—*  
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Carothers, John N., and Hurka. 2,954,287.
- Hurlbert, Clifford F., and C. F. Wood, to Westinghouse Electric Corp. Variable area propulsion nozzle. 2,934,892, 5-3-60, Cl. 60-35.6.
- Hurlburt, Charles E.: *See—*  
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- Hurlbut, Gordon K., to General Aniline & Film Corp. Sheet material lifting mechanism. 2,922,645, 1-26-60, Cl. 271-45.
- Hurlbut Paper Co.: *See—*  
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Arlедter, Hanns F. 2,962,415.
- Hurler, Eberhard, to Filligranbau Stefan Keller, Kommanditgesellschaft. Oscillating electric motor. 2,933,629, 4-19-60, Cl. 310-39.
- Hurley, Daniel T.: *See—*  
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- Hurley, Dennis, to National Dairy Products Corp. Chain lubricator. 2,920,048, 1-5-60, Cl. 252-359.
- Hurley, George F.: *See—*  
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- Hurley, James R., to Phillips Petroleum Co. Popped volcanic ash cover for liquids. 2,926,988, 3-1-60, Cl. 21—60.5.
- Hurley, James R., to Phillips Petroleum Co. Hydrocyclone and process. 2,958,420, 11-1-60, Cl. 209—211.
- Hurley, James R., to Phillips Petroleum Co. In situ combustion process. 2,958,519, 11-1-60, Cl. 262—3.
- Hurley, Joseph W. Collapsible automobile seat. 2,920,687, 1-12-60, Cl. 155—147.
- Hurley, Robert M.: *See*—  
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- Hurley, Roy T., to Curtiss-Wright Corp. Metallic lined pipe coupling having a metallic seal. 2,919,936, 1-5-60, Cl. 285—55.
- Hurliman, Charles H., Jr.: *See*—  
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- Hurlimann, Hans, and P. Mauri, to Landis & Gyr, A.G. Remote control system. 2,928,957, 3-15-60, Cl. 307—140.
- Hurlstone, Frank J., and H. A. Musham. Method and apparatus for freeing of and preventing formation of paraffin and asphalt and like obstructions in oil wells, natural gas wells and the like. 2,929,451, 3-22-60, Cl. 166—41.
- Hursen, Thomas F.: *See*—  
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McClure, Glenn T., and Hursen. 2,961,274.  
Newell, George K., McClure, and Hursen. 2,940,553.
- Hursen, Thomas F., to Westinghouse Air Brake Co. Pulsating dampener for use with safety valves. 2,930,572, 3-29-60, Cl. 251—117.
- Hursen, Thomas F., to Westinghouse Air Brake Co. Hand brake rigging for railway car trucks. 2,940,545, 6-14-60, Cl. 188—52.
- Hursh, Samuel R. Spike pulling grapple. 2,945,674, 7-19-60, Cl. 254—18.
- Hurst, George L. Testing and rejecting apparatus for vacuum packed cans. 2,924,093, 2-9-60, Cl. 73—45.4.
- Hurst, Gordon F. Ball valve. 2,919,886, 1-5-60, Cl. 251—172.
- Hurst, Hollis L.: *See*—  
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- Hurst, John I. Stoker. 2,932,264, 4-12-60, Cl. 110—38.
- Hurst, John W., to Chrysler Corp. Sensory mechanism. 2,954,021, 9-27-60, Cl. 123—119.
- Hurst, Leonard L., Jr., to International Electric Fence Co., Inc. Electric fence interference eliminator. 2,928,012, 3-8-60, Cl. 307—105.
- Hurt, Arthur A. Fertilizer spreading machine. 2,920,774, 1-12-60, Cl. 214—83.36.
- Hurt, Arthur A. Fertilizer mixing and spreading machine. 2,947,544, 8-2-60, Cl. 275—8.
- Hurt, David M., to E. I. du Pont de Nemours and Co. Process for chlorination of olefine polymers. 2,964,509, 12-13-60, Cl. 260—88.2.
- Hurt, Hansford D. Multiservice protector unit for pneumatic tires and tubes. 2,925,846, 2-23-60, Cl. 152—347.
- Hurt, Norman A., and H. Mortimore, to Philadelphia Quartz Co. Improvement relating to the purification of soluble silicates. 2,940,829, 6-14-60, Cl. 23—110.
- Hurt, William C., Jr., to General Electric Co. Method of making magnetic cores. 2,958,931, 11-8-60, Cl. 29—155.61.
- Hurter, Alfred M. Transport vehicle for aircraft terminals. 2,929,655, 3-22-60, Cl. 296—28.
- Hurter, Alfred M., to Stadler, Hurter & Co. Liquid proportioner. 2,935,993, 5-10-60, Cl. 137—266.
- Hurtig, Knut I. Net cage for catching crawfish. 2,935,811, 5-10-60, Cl. 43—105.
- Hurwitz, Hyman. Intermodulation distortion meter. 2,929,989, 3-22-60, Cl. 324—57.
- Hurwitz, Hyman, to United States of America, Air Force. Frequency indicator. 2,936,416, 5-10-60, Cl. 324—77.
- Hurwitz, Hyman. Frequency meter. 2,952,808, 9-13-60, Cl. 324—79.
- Hurwitz, Hyman, to Melpar, Inc. Radar system. 2,962,712, 11-29-60, Cl. 343—13.
- Hurwitz, Henry, Jr., to United States of America, Atomic Energy Commission. Neutronic reactor control. 2,931,761, 4-5-60, Cl. 204—193.2.
- Hurwitz, Irving. Electronic chopping device. 2,939,080, 5-31-60, Cl. 328—27.
- Hurwitz, Marvin J., P. M. Zorn, Jr., and A. M. Craig, Jr., to Rohm & Haas Co. Process for preparation of pentaerythritol and poly-pentaerythritol ester plasticizers. 2,958,706, 11-1-60, Cl. 260—488.
- Hurwitz, Melvin D., to Rohm & Haas Co. Method of producing wrinkle resistant garments and other manufactured articles of cotton-containing fabrics. 2,950,553, 8-30-60, Cl. 38—144.
- Hurwitz, Melvin D., to Rohm & Haas Co. Aqueous dispersion containing acrylic acid copolymer and aliphatic polyepoxide. 2,954,358, 9-27-60, Cl. 260—29.6.
- Husband, Reed J. Repeat cycle timer. 2,962,610, 11-29-60, Cl. 307—141.4.
- Husband, Robert M. Variable speed drive. 2,948,374, 8-9-60, Cl. 192—135.
- Husband, William M. Shoe polish applicator assembly. 2,930,067, 3-29-60, Cl. 15—258.
- Huscher, Joseph: *See*—  
Korn, Irving, Kaye, Pierce, Walworth, and Huscher. 2,956,915.
- Huse, Arthur E., to American Bosch Arma Corp. Fuel injection apparatus. 2,922,410, 1-26-60, Cl. 123—140.
- Huse, Arthur T.: *See*—  
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- Husher, Richard W., to Baldwin-Lima-Hamilton Corp. Torque wrench tester. 2,955,454, 10-11-60, Cl. 73—1.
- Huskey, Lloyd L.: *See*—  
Pachmayr, Frank A., and Huskey. 2,922,242.
- Husky Oil Co.: *See*—  
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- Huso, Maurice A. Sheet reel. 2,942,794, 6-28-60, Cl. 242—55.
- Huss, Richard: *See*—  
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- Hussey, John J. Safety rail for bathtubs. 2,940,085, 6-14-60, Cl. 4—185.
- Hussey, Luther W., to Bell Telephone Laboratories, Inc. Transistor test set. 2,938,167, 5-24-60, Cl. 324—158.
- Hussey, Luther W., to Bell Telephone Laboratories, Inc. Electrical circuit for communication networks. 2,946,855, 7-26-60, Cl. 179—18.
- Hussey, Luther W., and J. W. Rieke, to Bell Telephone Laboratories, Inc. Electronic switching network. 2,951,124, 8-30-60, Cl. 179—18.
- Hussmann, Albrecht W.: *See*—  
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- Hussmann Refrigerator Co.: *See*—  
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- Husted, Harry F., to M. C. Alling. Perforated support board attachments. 2,954,125, 9-27-60, Cl. 211—90.
- Husted, Norris C. Junction assembly for secondary terminal take-offs. 2,929,861, 3-22-60, Cl. 174—43.
- Huston, Norman E., to United States of America, Atomic Energy Commission. Variable area control rod for nuclear reactor. 2,935,456, 5-3-60, Cl. 204—193.2.
- Huston, William D., to American Machine and Metals, Inc. Torque tube level control. 2,925,733, 2-23-60, Cl. 73—309.
- Huszar, Kalman Z. Bodies of revolution. 2,948,534, 8-9-60, Cl. 273—106.
- Hutchens, Charles T. Suspension means. 2,929,618, 3-22-60, Cl. 267—30.
- Hutcheon, John M. Method of producing a carbon body of increased density. 2,922,722, 1-26-60, Cl. 117—46.
- Hutcheson, Alexander M., to Thompson Bros. (Bilston) Ltd. Means for accelerating the separation of water and solid impurities from liquid fuel for aircraft. 2,944,670, 7-12-60, Cl. 210—152.
- Hutcheson, Ralph L.: *See*—  
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- Hutchings, Le Roi E.: *See*—  
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Remes, Nathaniel L., Martinek, and Hutchings. 2,936,325.
- Hutchings, Le Roi E., to The Pure Oil Co. Extraction process wherein the desired material is recovered by azeotropic distillation of the extract. 2,936,283, 5-10-60, Cl. 208—321.
- Hutchings, Le Roi E., to The Pure Oil Co. Apparatus for the utilization of solar energy. 2,942,411, 6-28-60, Cl. 60—26.
- Hutchings, Le Roi E., to The Pure Oil Co. Oil treating apparatus. 2,946,735, 7-26-60, Cl. 204—302.
- Hutchings, Le Roi E., and N. L. Remes, to The Pure Oil Co. Pyrolytic cracking process and heat exchange pebble. 2,937,213, 5-17-60, Cl. 260—685.
- Hutchings, Robert A., H. J. Schwichtenberg, and H. J. Bubley, to Bell & Howell Co. Lens grinding means. 2,938,307, 5-31-60, Cl. 51—124.
- Hutchins, Bernard A.: *See*—  
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- Hutchins, Everett C., to General Motors Corp. Pipe coupling between relatively hard and soft tubes. 2,949,319, 8-16-60, Cl. 285—173.
- Hutchins, Samuel F., and G. P. Robinson, Jr., to Emerson & Cuming, Inc. Method of fabricating luneberg lenses. 2,943,358, 7-5-60, Cl. 18—58.
- Hutchinson, Alfred A. Shower head. 2,945,631, 7-19-60, Cl. 239—548.
- Hutchinson, Charles W.: *See*—  
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- Hutchinson, Clyde E. Aquarium cleaning device. 2,956,507, 10-18-60, Cl. 103—148.
- Hutchinson, Davis, and V. E. Bassotti, to Royal Industries, Inc. Vibration force generator. 2,930,244, 3-29-60, Cl. 74—61.
- Hutchinson, Irving N., R. C. Burns, and F. A. Friedhelm, deceased (by The Chase Manhattan Bank, executor), to Sperry Rand Corp. Hydraulic boosters for aircraft. 2,961,203, 11-22-60, Cl. 244—78.
- Hutchinson, John L., to The Richardson Co. Molded carriers. 2,958,443, 11-1-60, Cl. 220—102.
- Hutchinson, O. C. Kemp: *See*—  
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- Hutchinson, Roland V.: *See*—  
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- Hutchinson, Thomas K. and O. C. K. Molding machines. 2,931,080, 4-5-60, Cl. 22—9.
- Hutchinson, William M.: *See*—  
Mahan, John E., and Hutchinson. 2,941,878.
- Hutchinson, William M., to Phillips Petroleum Co. Manufacture of propellants. 2,926,386, 3-1-60, Cl. 18—30.



- Hutchinson, William M., to Phillips Petroleum Co. Gas generator adapted for on-off operation. 2,945,344, 7-19-60, Cl. 60—35.6.
- Hutchinson, William M., to Phillips Petroleum Co. Process for oxygenating polymers of butadiene. 2,959,619, 11-8-60, Cl. 260—594.
- Hutchison, Charles B., to Petrolite Corp. Method for preventing corrosion of ferrous metals. 2,944,968, 7-12-60, Cl. 252—8.55.
- Hutchison, Frank C.: *See—*  
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- Hutchison, George A., to Rathborne, Hair & Ridgway Box Co. Tote box. 2,950,852, 8-30-60, Cl. 229—23.
- Hutchison, John S., and A. B. Hildebrandt, to Jersey Production Research Co. Clipped trace recording of electrical signals. 2,946,643, 7-26-60, Cl. 346—1.
- Hutchison, Robert M. Odorizing unit. 2,921,844, 1-19-60, Cl. 43—195.
- Hutchison, Robert R., to General Motors Corp. Engine distributor and cylinder arrangement. 2,926,643, 3-1-60, Cl. 123—55.
- Huthsing, Charles K., Sr., to General Pacific Corp. Fire extinguisher wheel cap. 2,948,342, 8-9-60, Cl. 169—1.
- Hutowitz, John: *See—*  
Matzkin, Harry, and Hutowitz. 2,952,150.
- Huton, Clifford R. Clamping device with selectively yieldable or non-yieldable pressure means. 2,920,665, 1-12-60, Cl. 144—305.
- Hutson, Miles B. Adjustable speed induction motor. 2,922,098, 1-19-60, Cl. 318—243.
- Hutson, Miles B. Adjustable speed squirrel cage induction motor. 2,959,694, 11-8-60, Cl. 310—61.
- Hutson, Thomas, Jr., to Phillips Petroleum Co. Control of solvent extraction by photoelectrically monitoring a phase therefrom. 2,948,676, 8-9-60, Cl. 208—322.
- Hutt, Percy H., to The Easy Washing Machine Co., Ltd. Blowers. 2,926,839, 3-1-60, Cl. 230—127.
- Hutt, Percy H., to The Easy Washing Machine Co., Ltd. Clothes drier. 2,936,527, 5-17-60, Cl. 34—48.
- Hutt, Philip, to General Electric Co. Enclosed double rotary switch. 2,921,147, 1-12-60, Cl. 200—6.
- Huttenwerk Oberhausen Aktiengesellschaft: *See—*  
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- Von Bogdandy, Ludwig A., and Pantke. 2,942,470.
- Huttenwerk Rheinhausen Aktiengesellschaft: *See—*  
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- Hutter, Ernest: *See—*  
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- Hutter, James F., and L. Kelley, to S K & H Equipment Ltd. Single row feeder. 2,941,651, 6-21-60, Cl. 198—30.
- Hutter, Luis, to General Refractories Co. Basic arch for reverberatory furnace. 2,929,343, 3-22-60, Cl. 110—99.
- Hütter, Wolfgang, and K. Ritter, to Allgaier-Werke G.m.b.H. Drive arrangement for vehicles such as tractors and the like. 2,922,320, 1-26-60, Cl. 74—720.
- Hütter, Wolfgang, and K. Ritter, to Firma Allgaier-Werke G.m.b.H. Automatic drive for trailers and the like. 2,922,481, 1-26-60, Cl. 180—14.
- Hutterer, Martin, to Cummings-Landau Laundry Machine Co., Inc. Automatic shell door lock. 2,921,710, 1-19-60, Cl. 220—41.
- Hüttisch, Herbert: *See—*  
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- Hutto, John F., to Phillips Petroleum Co. Method and apparatus for measuring and controlling fluid flow. 2,929,857, 3-22-60, Cl. 260—683.48.
- Hutton, Andrew H., to Armco Steel Corp. Crating structure. 2,961,117, 11-22-60, Cl. 220—12.
- Hutton, Don G., to Hudson Foam Latex Co. Resiliently mounted self-aligning mold structure. 2,929,104, 3-22-60, Cl. 18—39.
- Hutton, James L. Collapsible constructions. 2,961,101, 11-22-60, Cl. 211—132.
- Hutton, Paul C. Photographic film processing device. 2,957,401, 10-25-60, Cl. 95—90.5.
- Hutton, Philip C., to Silentbloc Ltd. Flexible couplings for axially aligned, pivotally connected members. 2,937,040, 5-17-60, Cl. 287—85.
- Hutton, Philip C., to Silentbloc Ltd. Resilient supports. 2,948,502, 8-9-60, Cl. 248—358.
- Hutton, Philip C., to Silentbloc Ltd. Flexible mountings. 2,965,349, 12-20-60, Cl. 248—358.
- Hutton, Roger S.: *See—*  
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- Hutzelman, Howard E.: *See—*  
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Yates, Robert N., and Hutzelman. 2,919,458.
- Hutzenlaub, Ernst, to Wilhelm Herm, Muller & Co., Kommanditgesellschaft. Airspring unit. 2,930,607, 3-29-60, Cl. 267—35.
- Hutzenlaub, Karl G., to Daimler-Benz Aktiengesellschaft. Accelerator control. 2,927,476, 3-8-60, Cl. 74—513.
- Hutzler, John R., to General Electric Co. Capacitor and dielectric material therefor. 2,922,937, 1-26-60, Cl. 317—258.
- Huwood Mining Machinery Ltd.: *See—*  
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- Huxley, Edward E., and W. R. Pullin, to Phillips Petroleum Co. Manufacture of triple superphosphate. 2,965,472, 12-20-60, Cl. 71—64.
- Huyser, Francis C., to American Machine and Metals, Inc. Extensometer. 2,941,298, 6-21-60, Cl. 33—148.
- Huyser, Hendrik W.: *See—*  
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- Huyssen, Phillip H. S-shaped toggle clamp with inturned side flanges to prevent nut from rotating. 2,933,969, 4-26-60, Cl. 85—3.
- Huzar, Dmetrio Z. Movable pointer hands for measuring instruments, chiefly electrometers. 2,946,006, 7-19-60, Cl. 324—154.
- Huzzard, Robert W. Automobile steering wheels. 2,954,708, 10-4-60, Cl. 74—552.
- Hwa, Jesse C. H., to Rohm & Haas Co. Symmetrical diquaternary ammonium compounds. 2,933,529, 4-19-60, Cl. 260—567.6.
- Hwa, Jesse C. H., and O. H. Loeffler, to Rohm & Haas Co. Acrylic and methacrylic acid resins controllably cross-linked with polyallyl acrylate, its substituted derivatives and copolymers thereof. 2,963,453, 12-6-60, Cl. 260—2.2.
- Hwang, Cheng-Chieh, to Carrier Corp. Thermoelectric heating and cooling apparatus. 2,959,018, 11-8-60, Cl. 62—3.
- Hyams, Herbert B. Handle-holding for beverage cans and the like. 2,926,038, 2-23-60, Cl. 294—33.
- Hyams, Montagu, to Neilson Chemical Co. Phosphate coating of metals. 2,928,762, 3-15-60, Cl. 148—6.16.
- Hyatt, Harlow G., to Food Machinery and Chemical Corp. Method of producing a stable sodium perbor silicate composition. 2,955,086, 10-4-60, Cl. 252—99.
- Hyatt, Robert C., and A. J. Martinelli, to General Aniline & Film Corp. Defoaming and demulsification. 2,920,047, 1-5-60, Cl. 252—340.
- Hyatt, Robert C., R. L. Mayhew, and L. G. Nunn, to General Aniline & Film Corp. Emulsification of water-insoluble organic solvents. 2,946,721, 7-26-60, Cl. 167—42.
- Hyatt, Robert C., and A. J. Martinelli, to General Aniline & Film Corp. Defoaming process. 2,965,581, 12-20-60, Cl. 252—321.
- Hycalog, Inc.: *See—*  
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- Hycon Eastern, Inc.: *See—*  
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- Hycon Mfg. Co.: *See—*  
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- Hyde, David F., to Central Scientific Co. Motor-driven syringe. 2,966,175, 12-27-60, Cl. 141—27.
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- Hyde, Edward M., and J. W. Powischill, to Proctor & Schwartz, Inc. Apparatus for supplying a desired weight of material to a receiving receptacle. 2,933,281, 4-19-60, Cl. 249—2.
- Hyde, Hubert L., to United States Steel Corp. Device for ruling gage lines. 2,963,787, 12-13-60, Cl. 33—42.
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- Hyde, John A. C., to Orenda Engines Ltd. Actuating means for variable nozzles. 2,926,491, 3-1-60, Cl. 60—35.6.
- Hyde, John A. C., to Orenda Engines Ltd. Variable area nozzle. 2,927,424, 3-8-60, Cl. 60—35.6.
- Hyde, John A. C., to Orenda Engines Ltd. Gas turbine rotor assembly. 2,931,623, 4-5-60, Cl. 253—39.15.
- Hyde, John A. C., to Orenda Engines Ltd. Gas turbine blade. 2,931,624, 4-5-60, Cl. 253—39.15.
- Hyde, John A. C., to Orenda Engines Ltd. Means for actuating a variable nozzle. 2,932,163, 4-12-60, Cl. 60—35.6.
- Hyde, John A. C., to Orenda Engines Ltd. Convergent-divergent nozzle assembly. 2,957,310, 10-25-60, Cl. 60—35.6.
- Hyde, Robert B. Knockdown shelf structure. 2,928,554, 3-15-60, Cl. 211—148.
- Hyde, Robert W., to American Radiator & Standard Sanitary Corp. Food preparation work unit. 2,929,075, 3-22-60, Cl. 4—187.
- Hyde, Robert W., to American Radiator & Standard Sanitary Corp. Garbage disposal unit. 2,949,246, 8-16-60, Cl. 241—46.
- Hyde, Robert W., to American Radiator & Standard Sanitary Corp. Mount means for garbage disposer. 2,965,319, 12-20-60, Cl. 241—100.5.
- Hyde, Walter E., to Halliburton Oil Well Cementing Co. Retrieval tester for oil wells. 2,947,361, 8-2-60, Cl. 166—100.
- Hyde, Walter L., and S. Inoue, to American Optical Co. Polarizing optical systems. 2,936,673, 5-17-60, Cl. 88—39.
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- Hyink, Roy, to Cutler-Hammer, Inc. Electromagnetic device and method of making. 2,952,801, 9-13-60, Cl. 317-165.
- Hykes, Paul G., to The Budd Co. Wheel attaching means. 2,925,304, 2-16-60, Cl. 301-9.
- Hykes, Paul G., F. T. Roberts, and J. N. Bradley, to The Budd Co. Wheel disk-rim assembly for tubeless tires. 2,948,568, 8-9-60, Cl. 301-63.
- Hyland, William A., and A. E. Welck, to Deere & Co. Hitch devices-back-up hitch for plow press drill. 2,943,692, 7-5-60, Cl. 172-657.
- Hyland, William A., and A. E. Welck, to Deere & Co. Hitch device. 2,955,833, 10-11-60, Cl. 280-34.
- Hyland, William A., and A. E. Welck, to Deere & Co. Hitch device. 2,955,848, 10-11-60, Cl. 280-411.
- Hyland, William A., and E. E. Schnell, to Deere & Co. Shut-off slide control for grain drills. 2,953,999, 9-27-60, Cl. 111-67.
- Hymac Corp.: *See*—  
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- Hyman, Benjamin M.: *See*—  
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- Hyman, Benjamin M., to International Harvester Co. Wheel shield mounting for corn pickers. 2,934,880, 5-3-60, Cl. 56-119.
- Hyman, Benjamin M., and E. K. Karlsson, to International Harvester Co. Adjustable skewing of corn snapping rolls. 2,947,133, 8-2-60, Cl. 56-110.
- Hyman, Herbert H.: *See*—  
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- Hyman, Herbert H., to United States of America, Atomic Energy Commission. Dissolution method of removing bonding agents. 2,933,421, 4-19-60, Cl. 134-41.
- Hyman, Irving M. High chair attachment for step stools. 2,963,076, 12-6-60, Cl. 155-42.
- Hyman, Marshall L., and J. E. Savolainen, to United States of America, Atomic Energy Commission. Removal of chloride from aqueous solutions. 2,919,972, 1-5-60, Cl. 23-145.
- Hyman, Robert: *See*—  
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- Hyman, Seymour C.: *See*—  
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- Hyman, Sidney. Ladies' handbag. 2,927,618, 3-8-60, Cl. 150-28.
- Hynes Electric Heating Co. The: *See*—  
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- Hynes, Lee P., to The Hynes Electric Heating Co. Insulator assembly for electric resistance heater. 2,963,539, 12-6-60, Cl. 174-138.
- Hyre, Robert W. Scaffold. 2,929,602, 3-22-60, Cl. 248-354.
- Hyresgasternas Sparkasse-och Byggnadsforeningars Riksförbund upa: *See*—  
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- Hysan Products Co.: *See*—  
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- Hysko, John L., to Bell Telephone Laboratories, Inc. Telegraph repeater. 2,947,816, 8-2-60, Cl. 178-71.
- Hyster Co.: *See*—  
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- Hytte, Robert P. L., to Aktiebolaget Separator. Connecting plate assembly for plate heat exchangers. 2,934,321, 4-26-60, Cl. 257-245.
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- I-T-E Circuit Breaker Co.: *See*—  
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Bumfield, John C. 2,928,998.  
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Chumakov, Walter V. 2,961,595.  
Clausing, Challiss I., and Pokorny. 2,939,930.  
Clausing, Challiss I., and Romano. 2,928,514.  
Conanglia, Amado. 2,945,913.  
Davis, Russell S. 2,942,157.  
Deans, William. 2,939,936.  
Diebold, Edward J. 2,925,547.  
Diebold, Edward J. 2,949,572.  
Diebold, Edward J. 2,951,188.  
Diebold, Edward J. 2,962,145.  
Dortort, Isadore K. 2,947,932.  
Dortort, Isadore K. 2,949,568.  
Dortort, Isadore K. 2,959,724.  
Edmunds, William H. 2,922,007.  
Edmunds, William H. 2,924,686.  
Edmunds, William H. 2,924,688.  
Edmunds, William H. 2,924,689.  
Edmunds, William H. 2,928,997.  
Edmunds, William H. 2,949,516.  
Farnsworth, George H. 2,945,137.  
Field, Everett J. 2,928,919.  
Fischer, Hermann. 2,950,795.  
Frank, William H., and Platz. 2,924,804.  
Gardiner, Frank J. 2,922,099.  
Gutmann, Fritz. 2,921,659.  
Healis, George A. 2,945,961.  
Herrmann, John A. 2,932,686.  
Herrmann, John A., Platz, and Robinson. 2,943,292.  
Jensen, Otto. 2,927,143.  
Jensen, Otto. 2,932,708.  
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Keltz, Laurence. 2,935,676.  
Messing, Joseph A. 2,942,224.  
McCloud, James R. 2,945,110.  
McNulty, Joseph V. 2,953,623.  
Michetti, Anthony. 2,937,248.  
Mitchell, Harold H. 2,922,011.  
Mitchell, Harold H. 2,959,655.  
Niedermann, Ernst. 2,959,344.  
Platz, Elwood T. 2,924,687.  
Platz, Elwood T. 2,924,803.  
Platz, Elwood T. 2,936,351.  
Platz, Elwood T., Cataldo, and Herrmann. 2,946,037.  
Platz, Elwood T., and Frank. 2,943,244.  
Platz, Elwood T., Messing, and Frank. 2,924,802.  
Pokorny, Frank J., Craig, and Tootelian. 2,922,009.  
Pokorny, Frank J., and Yarrick. 2,921,998.  
Reighter, David H. 2,924,772.  
Scott, William M., Jr. 2,924,752.  
Spicer, George W. 2,920,297.  
Starr, Robert V. 2,937,258.  
Starr, Robert V. 2,961,067.  
Straub, Hermann W. 2,962,139.  
Straub, Hermann W. 2,962,142.  
Stringfellow, Allen E. 2,950,371.  
Stringfellow, Allen E. 2,959,653.  
Sturgis, Bradford K. 2,941,441.  
Thielmann, Paul. 2,940,570.  
Thomas, Robert W. 2,938,983.  
Wiedmann, Ludwig. 2,941,640.  
Wiedmann, Ludwig. 2,942,710.  
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Yarrick, Charles J. 2,959,714.  
Yarrick, Charles J., and Fredrickson. 2,961,068.  
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Zicher, Gustav. 2,950,797.
- I.V. Pressure Controllers Ltd.: *See*—  
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- Iacono, Placido, and S. M. Weisberg, to National Dairy Products Corp. Composition containing vitamin A. 2,933,392, 4-19-60, Cl. 99-2.
- Iager, Raymond F., E. C. Huges, J. H. Ammon, and R. T. Bryan, to The Babcock & Wilcox Co. Forced flow pressure fired vapor generator and superheater. 2,920,609, 1-12-60, Cl. 122-240.
- Iager, Raymond F., and W. T. Hage, to The Babcock & Wilcox Co. Fuel burner and igniter arrangement. 2,931,431, 4-5-60, Cl. 158-28.
- Iams, Harley, to United States of America, Army. Scanning antennas using dielectric with variable refraction. 2,959,783, 11-8-60, Cl. 343-754.
- Iams, Paul S., to Chicago Nipple Mfg. Co. Reamer. 2,942,502, 6-28-60, Cl. 77-73.



- Iannuzzi, William P., and G. E. Kelly, to Radio Corp. of America. Color television apparatus. 2,951,115, 8-30-60, Cl. 178-5.4.
- Iapadre, Rosario G. Coin-actuated concealed timer for parking meter. 2,927,675, 3-8-60, Cl. 194-88.
- Iavelli, Teno: *See*—
- Cartwright, Bert W., Iavelli, and Miller. 2,932,990.
- Ibach, Charles R., Jr. Tufted fabric. 2,936,513, 5-17-60, Cl. 28-78.
- Ibbs, Gerald W., to E. I. du Pont de Nemours and Co. Expandable textile yarn comb. 2,924,002, 2-9-60, Cl. 28-55.
- Ibel, Charles J., to Supreme Steel Equipment Corp. Cabinet locking mechanism. 2,930,666, 3-29-60, Cl. 312-218.
- Icenbice, Phineas J., Jr., to Collins Radio Co. Omnidirectional receiving system with directional antenna. 2,939,136, 5-31-60, Cl. 343-106.
- Ichikawa, Kaname. Lighter with built-in music device. 2,921,495, 1-19-60, Cl. 84-95.
- Ichioka, Patricia S.: *See*—
- Harris, Guy H., Ichioka, and Fischback. 2,937,204.
- Ickes, William M.: *See*—
- Clem, Glen H., and Ickes. 2,947,491.
- Ickl, Jean J. G. Portable manually operable plating device. 2,961,395, 11-22-60, Cl. 204-224.
- Ida, Noble N., and J. J. Mueller, to The Martin Co. Alloy especially suited to cladding nuclear fuel elements. 2,941,883, 6-21-60, Cl. 75-124.
- Ide, Albert D. Strut hanger tube assembly. 2,959,846, 11-15-60, Cl. 29-211.
- Ide, Gordon M.: *See*—
- Klaas, Nicolas P., Ide, Stricklin, and Brown. 2,935,472.
- Whitehurst, Marcus G. and J. R. 2,934,797.
- Whitehurst, Marcus G. and J. R. 2,935,435.
- Ideal Chemical Products, Inc.: *See*—
- Shenk, Adolphus M. 2,938,937.
- Ideal Dispenser Co.: *See*—
- Salisbury, Ellsworth C., and Lyons. 2,933,217.
- Ideal Fishing Float Co., Inc.: *See*—
- Marsh, Gerald M. 2,965,999.
- Ideal Industries, Inc.: *See*—
- Cheney, North. 2,966,083.
- Hindenburg, Eugene D. 2,940,343.
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- Ideal Machine Shops: *See*—
- Robinson, Elvin B. 2,919,535.
- Ideal Plating Co.: *See*—
- Burgert, Frederick L. 2,962,991.
- Ideal School Supply Co.: *See*—
- Parker, Clifford. 2,945,594.
- Ideal Stencil Machine Co.: *See*—
- Taylor, Charles P. 2,965,021.
- Ideal Toy Corp.: *See*—
- Baggott, Edmund W. 2,961,795.
- Johnson, Richard B. 2,936,494.
- Noble, Sid. 2,936,543.
- Noble, Sid. 2,959,888.
- Noble, Sid. 2,964,032.
- Weih, Julius. 2,934,858.
- Ideco Inc.: *See*—
- Thorson, Warren K., and McLerran. 2,946,561.
- Identification, Inc.: *See*—
- Friedman, Merrill P. 2,946,427.
- Pallissard, Joseph W. 2,930,510.
- Idol, James D., Jr., R. W. Foreman, and F. Veatch, to The Standard Oil Co. Process for the esterification of unsaturated acids. 2,947,779, 8-2-60, Cl. 260-486.
- Iglesias, David E., to Bell Telephone Laboratories, Inc. Contact member for semiconductor translating device. 2,928,031, 3-8-60, Cl. 317-234.
- Ignatjev, Vladimir. Automatic motor speed control apparatus. 2,948,271, 8-9-60, Cl. 123-102.
- Ignatowitz, Michael: *See*—
- Biefary, Vincent F., and Ignatowitz. 2,931,027.
- Ignell, Rolf L. Method and apparatus for the continuous production of drinking straws and the like. 2,931,278, 4-5-60, Cl. 93-80.
- Ihrig, Clifford D., to Westinghouse Air Brake Co. Coded railway signaling systems employing normally energized reversible track circuits. 2,954,463, 9-27-60, Cl. 246-3.
- Ihrig, Harry K., to Allis-Chalmers Mfg. Co. Nodular iron. 2,948,605, 8-9-60, Cl. 75-130.
- Ihringer, Gerhard, to Rodt & Wienenberger Aktiengesellschaft. Expandable link strap. 2,943,437, 7-5-60, Cl. 59-79.
- Iiams, Raymond R.: *See*—
- Norman, Robert W., and Iiams. 2,942,275.
- Iinuma, Hajime, to Kokusai Dinki Kabushiki Kaisha. Resonant circuit element applicable for digital information processing. 2,950,397, 8-23-60, Cl. 307-88.
- Ijichi, Kosuke: *See*—
- Lewis, James C., Ijichi, Thompson, and Garibaldi. 2,942,977.
- Ijzer, Jacobus A. L., to North American Philips Co., Inc. System comprising a refrigerator intended for fractionating gas mixtures. 2,934,909, 5-3-60, Cl. 62-40.
- Ikavalko, Erkki, to Valmet Oy. Apparatus for feeding paper pulp at a continuous rate into a paper making machine. 2,934,141, 4-26-60, Cl. 162-337.
- Ikavalko, Erkki, to Valmet Oy. Method and apparatus for feeding substantially gas-free paper pulp into a paper making machine. 2,934,142, 4-26-60, Cl. 162-337.
- Ikavalko, Erkki. Process and apparatus for delivering paper stock to a wire mesh pulley belt. 2,956,623, 10-18-60, Cl. 172-338.
- Ikeda, Fred K.: *See*—
- Farrington, Thayer B., and Ikeda. 2,923,515.
- Ikeno, Nobuichi: *See*—
- Kiyasu, Zenichi, Hanawa, Katsunuma, Ikeno, and Fukuoka. 2,952,742.
- Takahasi, Hidetosi, Kiyasu, and Ikeno. 2,928,008.
- Ildahl, Aage S., to S. Haug Ellingsen & Co. Apparatus for continuous proportioning of a liquid or a liquid suspension. 2,934,244, 4-26-60, Cl. 222-310.
- Ilenda, Frank P., and J. L. Foster, to Diamond Alkali Co. Binder for foundry molds. 2,926,098, 2-23-60, Cl. 106-38.35.
- Ilenda, Frank P., and H. E. Everson, to Diamond Alkali Co. Alkaline composition. 2,931,778, 4-5-60, Cl. 252-156.
- Ilenda, Frank P., and C. E. Peeler, Jr., to Diamond Alkali Co. Method for forming a metal casting mold. 2,952,553, 9-13-60, Cl. 106-38.3.
- Iler, Ralph K.: *See*—
- Alexander, Guy B., Iler, and Sears. 2,933,371.
- Iler, Ralph K., to E. I. du Pont de Nemours and Co. Aqueous silica dispersions. 2,956,958, 10-18-60, Cl. 252-313.
- Ilford Ltd.: *See*—
- Coote, Jack H., and Jenkins. 2,960,911.
- Duffin, George F., and Kendall. 2,954,292.
- Duffin, George F., and Kendall. 2,965,485.
- Mason, Leslie F. A. 2,923,627.
- Wynn, Norman R. 2,941,898.
- Ilge, Wilhelm, W. Herrmann, W. Haussmann, E. Mauch, H. Rittner, and G. Kubach, to Robert Bosch G.m.b.H. Storage batteries. 2,952,726, 9-13-60, Cl. 136-65.
- Ilgensfriz, Edgar M., and R. P. Ruh, to The Dow Chemical Co. Halothiophenes. 2,932,651, 4-12-60, Cl. 260-332.5.
- Illich, George M., Jr.: *See*—
- Freifelder, Morris, Illich, and Robinson. 2,923,715.
- Illich, George M., Jr., and R. M. Robinson, to Abbott Laboratories. High pressure chemical apparatus. 2,955,926, 10-11-60, Cl. 23-289.
- Illingsworth, Bernard D.: *See*—
- Allen, Charles F. H., Illingsworth, and Sagura. 2,948,614.
- Illinois Lock Co., The: *See*—
- Gray, Raymond K., and Ryba. 2,938,373.
- Illinois Railway Equipment Co.: *See*—
- Jensen, Finn, and Sweger. 2,930,330.
- Illinois Testing Laboratories, Inc.: *See*—
- Peltola, Veikko K. 2,947,171.
- Illinois Tool Works: *See*—
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- Edwards, Bryant. 2,922,435.
- Edwards, Bryant. 2,949,204.
- Flournoy, Harold H., Jr., and Bodkin. 2,949,388.
- Gouverneur, Minor F. H., II. 2,941,563.
- Hamman, Denver C. 2,929,426.
- Hamman, Denver C. 2,961,723.
- Hanneman, Walter M. 2,957,342.
- Knohl, Friedrich K. 2,956,470.
- MacKay, Kenneth C. 2,944,329.
- Macy, James C. 2,956,468.
- Politis, Charles J. 2,962,758.
- Pomernacki, Henry. 2,959,282.
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- Poupitch, Ougljesa J. 2,923,405.
- Poupitch, Ougljesa J. 2,923,406.
- Poupitch, Ougljesa J. 2,929,181.
- Poupitch, Ougljesa J. 2,936,070.
- Poupitch, Ougljesa J. 2,946,082.
- Rapata, George M. 2,920,129.
- Rapata, George M. 2,927,497.
- Rapata, George M. 2,936,015.
- Rapata, George M. 2,936,141.
- Rapata, George M. 2,936,980.
- Rapata, George M. 2,941,439.
- Rapata, George M. 2,943,373.
- Rapata, George M. 2,948,937.
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- Rayburn, Charles C. 2,948,953.
- Rayburn, Charles C. 2,949,570.
- Rayburn, Charles C., Black, Jr., and Perez. 2,949,148.
- Rayburn, Charles C., Schmidt, and Knutsen. 2,947,247.
- Reed, Paul W. 2,956,257.
- Roeser, John O. 2,930,865.
- Saari, Oliver E. 2,935,885.
- Saari, Oliver E. 2,954,704.
- Stern, William C. 2,927,333.
- Stern, William C. 2,943,661.
- Straub, Joseph E. 2,963,915.
- Swick, Edwin G. 2,942,228.
- Swick, Edwin G. 2,944,330.
- Thorson, John R., Black, and Rayburn. 2,950,070.
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- Ilion Industries, Inc.: *See*—
- Carbonara, Victor E. 2,953,060.



- Imalis, Oscar, deceased (by R. Imalis, administratrix), F. S. Johnson, and G. L. Pucillo, to United States of America, Navy. Electrolytic metal shaping. 2,934,631, 4-26-60, Cl. 219-69.
- Imalis, Rose: *See*—  
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- Imanishi, Masahiko: *See*—  
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- Imatex Industria Macchine Tessili S.R.L.: *See*—  
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Morosini, Achille. 2,935,094.
- Imber, Harold. Combination insulated carrying soft bag and plastic jug. 2,954,891, 10-4-60, Cl. 220-9.
- Imboden, Herbert B., and D. P. Sigley, to American Viscose Corp. Tension measuring apparatus. 2,923,150, 2-2-60, Cl. 73-143.
- Imbrecht, Arthur G. Movable partition. 2,947,041, 8-2-60, Cl. 20-4.
- Imhof, Alfred, to Moser-Glaser & Co. A.G. Laminated body and method of making the same. 2,924,264, 2-9-60, Cl. 154-26.
- Imhof, Alfred, to Moser-Glaser & Co. A.G. High voltage insulator. 2,945,912, 7-19-60, Cl. 174-30.
- Immel, Ralph B.: *See*—  
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- Immerdorf, Karl. Resilient support for record players. 2,923,505, 2-2-60, Cl. 248-20.
- Immesoete, Arthur J., to Deere & Co. Side dressing attachment for tractor cultivators. 2,935,036, 5-3-60, Cl. 111-59.
- Immesoete, Arthur J., to Deere & Co. Timing adjustment for planters. 2,950,845, 8-30-60, Cl. 222-370.
- Immesoete, Arthur J., to Deere & Co. Planter marker control. 2,956,629, 10-18-60, Cl. 172-128.
- Imonetti, John E., to Symons Clamp & Mfg. Co. Tie rod assembly for concrete wall forms and cone therefor. 2,948,045, 8-9-60, Cl. 25-131.
- Imonetti, John E., to Symons Clamp & Mfg. Co. Concrete form fill-in structure. 2,948,046, 8-9-60, Cl. 25-131.
- Imonetti, John E., to Symons Clamp & Mfg. Co. Waler clamp for concrete wall forms. 2,964,294, 12-13-60, Cl. 254-29.
- Imparato, Jack G. Clamp units. 2,930,091, 3-29-60, Cl. 24-73.
- Imparato, Jack G. Clamp unit with housed actuating cam. 2,932,868, 4-19-60, Cl. 24-81.
- Imperato, Gaetano J.: *See*—  
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- Imperial Brass Mfg. Co., The: *See*—  
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Todd, Edward F., and Malczewski. 2,964,371.
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- Imperial Chemical Industries Ltd.: *See*—  
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Anderson, Robert C. 2,951,093.  
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Andrew, Herbert F., and Stephen. 2,951,837.  
Atkinson, John R., Booth, Johnson, and Mills. 2,944,870.  
Atkinson, John R., Booth, Johnson, and Mills. 2,944,871.  
Baker, Ronald, Hadfield, Johnson, and Stephen. 2,953,560.  
Baker, Ronald, Hadfield, Johnson, and Stephen. 2,964,520.  
Barclay, William, and Smith. 2,931,820.  
Batty, John W., Henshall, and Sagar. 2,955,960.  
Benson, Richard W. H. 2,964,391.  
Berry, Robert L. P., Busby, and Badger. 2,955,333.  
Birtwell, Stanley. 2,959,616.  
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Bowers, Roy H., Suckling, and Stevens. 2,964,299.  
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Chapman, James, and McGinty. 2,921,099.  
Chatt, Joseph, Hart, and Fielding. 2,922,819.  
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Coulter, David J. B., and Kerrigan. 2,945,834.  
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Dawson, Timothy L. 2,955,900.  
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Duxbury, Frederick K., and Edgar. 2,956,051.  
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Groves, Leonard H., Hall, and Roberts. 2,944,921.  
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Haggis, Geoffrey A., and Lambert. 2,930,769.  
Hanes, Richard. 2,930,482.  
Harper, Aubrey E., Harrison, and Cooke. 2,923,610.  
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Hepworth, Walter. 2,932,605.  
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Heslop, Robert N., Legg, Mawson, Stephen, and Wardlewoth. 2,935,506.  
Hobbs, John F., and Thorley. 2,949,652.  
Jack, James. 2,934,550.  
Jarrett, Kenneth B. 2,931,782.  
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Kennaway, Alexander, Lolley, and Pigott. 2,925,983.  
Kennaway, Alexander, and Pigott. 2,926,010.  
Kerrigan, Vincent, and Pryer. 2,962,481.  
Lambert, James E., and Lewis. 2,955,534.  
Last, Anthony G. M. 2,955,098.  
Laycock, Geoffrey H. 2,920,880.  
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Lees, David S., and Morgan. 2,922,304.  
Lewis, Idwal O. 2,929,325.  
Leyland, Boris N., and Stafford. 2,923,752.  
Leyland, Boris N., and Stafford. 2,923,753.  
Lodge, Frank. 2,933,508.  
Maclean, Duncan. 2,923,736.  
Manning, Ivor. 2,932,881.  
Maxwell, William. 2,953,448.  
McAuslan, James H. L., and Nock. 2,944,157.  
Melville, William, and Saxl. 2,932,852.  
Mooney, Ronald B. 2,964,189.  
Moultrie, William. 2,957,681.  
Perriam, Leonard T., and Goldberg. 2,964,699.  
Pigott, Owen R., and Sproat. 2,949,844.  
Preston, Robert W. G. 2,927,932.  
Quin, James P. 2,944,888.  
Ramsey, David W. C. 2,943,109.  
Rhodes, Tom B. 2,920,564.  
Roberts, John F. L., Twichett, and Wild. 2,945,840.  
Ross, Herbert J. 2,946,476.  
Scott, Gerald. 2,951,834.  
Scott, Gerald. 2,961,460.  
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Scott, Gerald, and Seed. 2,963,510.  
Seed, Leslie. 2,957,860.  
Semmens, Peter W. B. 2,931,835.  
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Shaw, Richard E., and Ness. 2,935,431.  
Sleddon, Geoffrey J. 2,961,453.  
Slinger, Frank H. 2,938,905.  
Smith, Arthur J. 2,923,616.  
Speakman, Raymond H. 2,955,409.  
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Spencer, Michael S. 2,966,534.  
Stanton, Charles B. 2,944,501.  
Stedman, Ronald E. 2,926,992.  
Stedman, Ronald E. 2,945,741.  
Stephen, William E. 2,951,836.  
Stephen, William E., and Tilley. 2,951,070.  
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Suckling, Charles W., and Raventos. 2,921,098.  
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- Imperial Flo-Glaze Paints Ltd., The: *See*—  
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- Imperial Knife Co., Inc.: *See*—  
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- Imperial Machine Products Co.: *See*—  
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- Imperial Mfg. Corp.: *See*—  
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- Impey, Charles E.: *See*—  
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- Improved Machinery, Inc.: *See*—  
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- Imshaug, Arnold L. Gauge for obtaining registration in color printing. 2,961,770, 11-29-60, Cl. 33-174.
- Imus, Robert E. Termite poisoning nail. 2,923,039, 2-2-60, Cl. 21-73.



- Inculet, Ion I., and V. A. Taylor, to Canadian General Electric Co., Ltd. Ventilation of totally enclosed motors. 2,947,892, 8-2-60, Cl. 310-57.
- Indelicato, Vincent. Vaginal appliance applicator. 2,921,580, 1-19-60, Cl. 128-129.
- Independent Iron Works, Inc.: *See*—  
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- Independent Lock Co.: *See*—  
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- Inderau, Karl: *See*—  
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- Indest, Heinz, H. Massat, and H. Stoehr, to Vereinigte Glanzstoff-Fabriken A.G. Process for production of polyamides. 2,923,699, 2-2-60, Cl. 260-78.
- Indiana Commercial Filters Corp.: *See*—  
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- Indiana General Corp.: *See*—  
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- Indium Corp. of America, The: *See*—  
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- Industrial Mica Corp.: *See*—  
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- Ingalls, John J., and A. W. Hewson, to Smith Fence Co., Inc. Gate locking device. 2,940,790, 6-14-60, Cl. 292-148.
- Ingels, Ward A. Liquid metal pumps. 2,929,326, 3-22-60, Cl. 103-1.
- Ingelsrud, Arne H., and N. J. Haavik, to Elektrokemisk A/S. Electrode holder construction for electric smelting furnaces. 2,949,496, 8-16-60, Cl. 13-16.
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- Ingersoll, James H., to Borg-Warner Corp. Method of making an agricultural disc. 2,952,895, 9-20-60, Cl. 29-14.
- Ingersoll Milling Machine Co., The: *See*—  
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- Ingersoll, Ward H., to Nobles Engineering and Mfg. Co. Magnetostriiction relays. 2,945,105, 7-12-60, Cl. 200-87.
- Ingersoll, Stephen L., to Borg-Warner Corp. Shovels. 2,966,379, 12-27-60, Cl. 294-49.
- Ingham, John A., to Philco Corp. Transistor amplifier. 2,929,939, 3-22-60, Cl. 307-88.5.
- Ingham, John A., to Philco Corp. System for producing a timing signal for use in a binary code receiver. 2,939,914, 6-7-60, Cl. 178-67.
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- Ingham, Paul W. Article carrier. 2,964,348, 12-13-60, Cl. 294-87.28.
- Ingham, Robert M., Jr., to Deering Milliken Research Corp. Curl remover. 2,932,149, 4-12-60, Cl. 57-54.
- Ingham, Robert M., Jr., to Deering Milliken Research Corp. Method and apparatus for loosening bobbins from spindles. 2,952,113, 9-13-60, Cl. 57-52.
- Ingham, Robert M., Jr., to Deering Milliken Research Corp. Receiving and positioning apparatus. 2,953,821, 9-27-60, Cl. 19-105.
- Ingham, Robert M., Jr., to Deering Milliken Research Corp. Bobbin handling arrangement. 2,962,856, 12-6-60, Cl. 57-52.
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- Inglehart, Richard L., and J. R. Sowles, to Shell Oil Co. Contacting tray assembly. 2,931,469, 4-5-60, Cl. 189-34.
- Inglese, Frank S. Oil drip pan for motor vehicles. 2,931,453, 4-5-60, Cl. 180-69.1.
- Inglis, Warren W.: *See*—  
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- Ingolia, Anthony J., to General Motors Corp. Refrigerating apparatus. 2,926,507, 3-1-60, Cl. 62-377.
- Ingolia, Anthony J., to General Motors Corp. Domestic appliance. 2,953,419, 9-20-60, Cl. 312-276.
- Ingold, John V., to Ferry-Morse Seed Co. Seed packet display stand. 2,937,763, 5-24-60, Cl. 211-128.
- Ingold, John V., to Ferry-Morse Seed Co. Seed packet display rack. 2,937,764, 5-24-60, Cl. 211-130.
- Ingraham, E., Co., The: *See*—  
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- Ingraham, Garfield B., to Saco-Lowell Shops. Top roll for drafting mechanism. 2,962,770, 12-6-60, Cl. 19-142.
- Ingraham, Garfield B., and J. L. Truslow, to Saco-Lowell Shops. Textile drafting mechanism. 2,934,796, 5-3-60, Cl. 19-131.
- Ingraham, John N., to E. I. du Pont de Nemours, and Co. Tin modified ferromagnetic chromium oxide, its preparation and use in recording members. 2,923,684, 2-2-60, Cl. 252-62.5.
- Ingraham, John N., and T. J. Swoboda, to E. I. du Pont de Nemours and Co. Antimony-modified chromium oxide ferromagnetic compositions, their preparation and use. 2,923,683, 2-2-60, Cl. 252-62.5.
- Ingram, Alvin R., to Koppers Co., Inc. Foamable polystyrene composition containing an aliphatic hydrocarbon, a carbon dioxide liberating agent and boric acid; and method of foaming. 2,941,965, 6-21-60, Cl. 260-2.5.
- Ingram, George. Life-saving apparatus for use at sea. 2,955,299, 10-11-60, Cl. 9-14.
- Ingram, Glen E. Wire clamping tool. 2,923,008, 2-2-60, Cl. 1-210.
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- Ingram, Richard L. Flexible gang mowing machine. 2,920,434, 1-12-60, Cl. 56-25.4.
- Ingram, William H., Jr., and C. B. Greer, 1/4 to Bowen Co. of Texas, Inc., and 1/4 to Dresser Industries, Inc. Wire-line control head. 2,943,682, 7-5-60, Cl. 166-77.
- Ingres, Jeannot G., to Kelsey-Hayes Co. Booster brake mechanism. 2,922,499, 1-26-60, Cl. 188-152.
- Ingres, Jeannot G., to Kelsey-Hayes Co. Booster motor mechanism. 2,941,512, 6-21-60, Cl. 121-38.
- Ingres, Jeannot G., to Kelsey-Hayes Co. Booster brake mechanism. 2,960,830, 11-22-60, Cl. 60-54.6.
- Ingwalson, Raymond W.: *See*—  
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- Ingwer, Carl H., and C. E. Wright, to The Ridge Tool Co. Flaring tool. 2,948,326, 8-9-60, Cl. 153-79.
- Ingwersen, Richard C., to Mechanical Products, Inc. Electric switch incorporating an automatic circuit breaker. 2,943,172, 6-28-60, Cl. 200-116.
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- Inman, Daniel O. Alarm device. 2,923,122, 2-2-60, Cl. 58-16.
- Inman, Roger. Pocket knives. 2,930,121, 3-29-60, Cl. 30-160.
- Inman, William H., to Bloomer Bros. Co. Collapsible carton. 2,936,103, 5-10-60, Cl. 229-51.
- Inman, William H., and R. M. Holmes, to Bloomer Bros. Co. Collapsible cellular carton. 2,955,735, 10-11-60, Cl. 229-28.
- Innes, Frank T., H. Epstein, and R. J. Pbeils, to Burroughs Corp. Electrographic printer. 2,931,688, 4-5-60, Cl. 346-74.
- Innocenti, Scipione, to S.A.S.I.B.-S.p.A. Scipione Innocenti-Bologna. Automatic cigarette weight-adjusting device for cigarette-making machines. 2,930,381, 3-29-60, Cl. 131-22.
- Innocenti, Scipione, to S.A.S.I.B.-S.p.A. Scipione Innocenti-Bologna. Apparatus for picking up samples of cigarettes, weighing same and recording their weight. 2,946,579, 7-26-60, Cl. 265-5.
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- Inokouchi, Kiyoshi, to R. Aoki. Instrument for joining blood vessels. 2,965,900, 12-27-60, Cl. 1-50.
- Inoue, Kiyoshi. Electric spark machining apparatus. 2,924,751, 2-9-60, Cl. 315-241.
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- Insolio, Thomas A., to American Window Glass Co. Glass cutter trolley unit. 2,943,393, 7-5-60, Cl. 33-32.
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- Institut de Recherches de la Siderurgie: *See*—  
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- Beattie, Horace S., Page, and Palmer. 2,966,660.
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- Ireland, Frank R., to Texas Bitulithic Co. Material handling device. 2,921,701, 1-19-60, Cl. 214-147.
- Ireland, Glen V. V belt fastener. 2,953,829, 9-27-60, Cl. 24-33.
- Ireland, Murray: *See*—  
 Hendrickson, Fritz E. 2,940,225.
- Irell, Lawrence E.: *See*—  
 Bletcher, Ralph E., Ward, and Bucknell. 2,923,315.
- Irene Chassefont Sa: *See*—  
 Jagtenberg, Cornelis J. 2,956,298.
- Irgens, Finn T., to Outboard, Marine & Mfg. Co. Ratchet drive with automatic pawl engagement and an engine starter incorporating said drive. 2,942,599, 6-28-60, Cl. 123-185.
- Irgens, Finn T., to Outboard Marine Corp. Saw chain and tooth-carrying link. 2,947,331, 8-2-60, Cl. 143-135.
- Irgens, Finn T., to Outboard Marine Corp. Tilt control device for an outboard motor. 2,961,207, 11-22-60, Cl. 248-4.
- Irgens, Finn T., and L. D. Watkins, to Outboard Marine Corp. Spring clutch reversing gear set. 2,959,986, 11-15-60, Cl. 74-792.
- Irlarte, Jose: *See*—  
 Ringold, Howard J., Irlarte, and Rosenkranz. 2,921,064.
- Irick, John, to Telephonics Corp. Microphone unit. 2,929,877, 3-22-60, Cl. 179-1.
- Irie, Ippei: *See*—  
 Ando, Tsuneo, and Irie. 2,959,182.
- Irish, Glenn E., to Ethyl Corp. Lubricant stabilized by bis alkylene pyroborate. 2,931,774, 4-5-60, Cl. 252-49.6.



- Irish, Glenn E., and L. F. Gilbert, to Ethyl Corp. Thermally-prepared liquid, metal-organic material and its preparation. 2,926,184, 2-23-60, Cl. 260-448.
- Irish, Laurence K., to L. B. Larsen. Material drier and method. 2,930,140, 3-29-60, Cl. 34-137.
- Irish, Lawrence K., to L. B. Larsen. Vibrating screen dryer. 2,959,407, 11-8-60, Cl. 263-33.
- Irish, Leland B.: *See*—  
Barton, Frank D. 2,965,096.
- Ireland, Edwin A., and A. E. Ruppel, to Bell Telephone Laboratories, Inc. Pulse distribution indicator. 2,943,149, 6-28-60, Cl. 178-23.
- Ireland, Max J., and V. L. Lindberg, to Ford Motor Co. Motor vehicle headlamp system. 2,927,245, 3-1-60, Cl. 315-83.1.
- Ireland, Max J., and H. A. Tuttle, to Ford Motor Co. Surface meters for detecting irregularities on transparent elements. 2,963,938, 12-13-60, Cl. 88-14.
- Irmscher, Paul W.: *See*—  
Reeber, Rudolf, and Irmscher. 2,961,984.
- Irmscher, Walter: *See*—  
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- Ironees Co., The: *See*—  
Fortner, Albert S. 2,953,387.  
Fortner, Albert S. 2,964,199.
- Iron Fireman Mfg. Co.: *See*—  
Shirley, Orle W. 2,930,869.  
Shirley, Orle W. 2,962,901.  
Sprando, Anthony E. 2,931,872.
- Iron Lung Ventilator Co.: *See*—  
Hill, Francis U. 2,963,956.
- Iron Ore Co. of Canada: *See*—  
Cook, Melvin A., and Farnam. 2,930,685.
- Ironrite, Inc.: *See*—  
Schrader, Loren E., and Campbell. 2,956,356.
- Irons, R. D., to O. K. Olsen. Rotary drilling bits. 2,950,089, 8-23-60, Cl. 255-61.
- Irvin, Henry D., to Bell Telephone Laboratories, Inc. Gas diode flip-flop or register circuit. 2,964,680, 12-13-60, Cl. 315-166.
- Irvine, Gordon L., and G. Voss, to Canadian Admiral Corp., Ltd. Deflection yoke. 2,939,978, 6-7-60, Cl. 313-76.
- Irvine, John W., Jr., to Raytheon Co. Preparation of silicon. 2,944,874, 7-12-60, Cl. 23-223.5.
- Irvine, John W., Jr., to United States of America, Navy. Surface treatment of semiconductive devices. 2,963,630, 12-6-60, Cl. 317-234.
- Irving Air Chute Co., Inc.: *See*—  
Hatfield, John E. 2,922,604.  
Hatfield, John E. 2,950,885.
- Irving, Jack H.: *See*—  
Beckner, Bernard E., and Irving. 2,964,594.
- Irving, James H. Swim ball. 2,941,219, 6-21-60, Cl. 9-313.
- Irving, Mart F., and W. R. Duncan. Illuminated heel. 2,941,315, 6-21-60, Cl. 36-1.
- Irvington Machine Works, Inc.: *See*—  
Bueneman, Alvin R. 2,958,348.
- Irwin, Benjamin H., to Arvin Industries, Inc. Method of making padded articles. 2,955,971, 10-11-60, Cl. 154-110.
- Irwin, Charles W.: *See*—  
Wren, John B., Penney, and Irwin. 2,933,169.
- Irwin, Emmett M. Induced flux method and apparatus for testing metals. 2,945,176, 7-12-60, Cl. 324-34.
- Irwin, Emmett M. Magnetic testing apparatus and method. 2,957,129, 10-18-60, Cl. 324-37.
- Irwin, Gordon C.: *See*—  
Breed, Rolland N., Groth, Irwin, Kille, and Riggs. 2,946,984.
- Irwin, Herbert G. Arrow shooter. 2,926,650, 3-1-60, Cl. 124-24.
- Irwin, John E., to General Motors Corp. Air horn. 2,921,554, 1-19-60, Cl. 116-142.
- Irwin, Leslie C., to The Winter Dump Co. Ltd. Material detector for car dumpers. 2,950,828, 8-30-60, Cl. 214-47.
- Irwin, Maurice D.: *See*—  
Hopkinson, Harold H., Irwin, and Kessler. 2,959,031.
- Irwin, Milton, to General Steel, Inc. Assembly fixture for bar and long span joists. 2,938,480, 5-31-60, Cl. 113-99.
- Irwin, Neisler and Co.: *See*—  
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Cavallito, Chester J. 2,950,309.
- Irwin, Robert J. Hub cap tool. 2,947,072, 8-2-60, Cl. 29-245.
- Irwin Seating Co.: *See*—  
Irwin, William W., Andersen, and Miller. 2,957,737.
- Irwin, Wilfred W., to Master Vibrator Co. Troweling machine. 2,942,536, 6-28-60, Cl. 94-45.
- Irwin, William W., E. J. Andersen, and K. C. Miller, to Irwin Seating Co. Desk top edge binder construction. 2,957,737, 10-25-60, Cl. 311-107.
- Isaac, Boyd. Pitman rod for windmills. 2,933,950, 4-26-60, Cl. 74-584.
- Isaacs, George G.: *See*—  
Cook, Kenneth G., and Isaacs. 2,942,136.
- Isaacs, Philip K., A. Trofimow, and D. M. Wacome, to W. R. Grace & Co. Heat stabilized vinyl and vinylidene chloride polymer. 2,960,491, 11-15-60, Cl. 260-45.85.
- Isaacson Iron Works: *See*—  
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- Isaacson, Jerrold A.: *See*—  
Ferguson, Henry A., and Isaacson. 2,931,252.  
Hubert, Clarence A., and Isaacson. 2,924,995.
- Isaacson, Jerrold A., to International Harvester Co. Clutch and anti-creep brake device. 2,930,460, 3-29-60, Cl. 192-18.
- Isaacson, Jerrold A., H. A. Ferguson, and K. Raciunas, to International Harvester Co. Torque converter transmission. 2,924,126, 2-9-60, Cl. 74-732.
- Isaacson, Jerrold A., and H. A. Ferguson, to International Harvester Co. Power transmitting apparatus. 2,943,515, 7-5-60, Cl. 74-730.
- Isaacson, Max, to Globe Industries, Inc. Resuscitator valve assembly. 2,952,265, 9-13-60, Cl. 137-64.
- Isabeau, Jean G. V.: *See*—  
Saudinaitis, Emmanuel, and Isabeau. 2,954,504.
- Isabeau, Jean G. V., to Zenith Radio Corp. Scanning generator. 2,939,040, 5-31-60, Cl. 315-27.
- Isabeau, Jean G. V., to Zenith Radio Corp. Computing apparatus. 2,966,306, 12-27-60, Cl. 235-194.
- Isaksson, Karl G., to Aktiebolaget Flygt Pumpar. Sinking and drainage pump units. 2,924,179, 2-9-60, Cl. 103-87.
- Isbell, Aubrey D. Fishing reel. 2,943,811, 7-5-60, Cl. 242-84.1.
- Isbell, Donald K.: *See*—  
Schjolin, Hans O., and Isbell. 2,920,722.  
Schjolin, Hans O., and Isbell. 2,955,678.
- Isbister, Thomas R. Weather strip having locking assembly. 2,929,116, 3-22-60, Cl. 20-67.
- Isborn, Carl L.: *See*—  
Eckdahl, Donald E., Donan, Wolfe, Sprague, Sarkissian, Isborn, and Wilson. 2,924,381.
- Isel, Thomas G. Temperature responsive control for battery charging circuit. 2,965,830, 12-20-60, Cl. 320-35.
- Isele, Louis E.: *See*—  
Clark, Stephen J., and Isele. 2,921,675.
- Iselin, Beat: *See*—  
Schwyzer, Robert, Iselin, and Rittel. 2,938,915.
- Isenberg, Alexander H. Plastic end seal for thermally insulated conduits. 2,919,721, 1-5-60, Cl. 138-64.
- Isenberg, Sampson, and A. A. Jannings, to Sampson Chemical & Pigment Corp. Air purifier. 2,941,265, 6-21-60, Cl. 21-74.
- Isensee, Otto, Jr.: *See*—  
Waller, Arthur, and Isensee. 2,939,661.
- Isgren, Elmer E., and H. W. Jeter. Wheel chock. 2,956,646, 10-18-60, Cl. 188-32.
- Ishido, Yoshihiko: *See*—  
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- Ishikawa, Kazuo: *See*—  
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- Isco S.A.: *See*—  
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- Islandsrud, Ola. Table saw with means for tilting and reciprocating. 2,949,943, 8-23-60, Cl. 143-47.
- Isler, Hans, to Nahma A.G. Auxiliary device for zig-zag sewing machines. 2,926,621, 3-1-60, Cl. 112-235.
- Isler, Otto: *See*—  
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- Isler, William: *See*—  
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- Isley, Cary T., Jr., to The Martin Co. Receiving systems. 2,966,584, 12-27-60, Cl. 250-20.
- Isley, Walter F., and F. C. Druzynski, to Continental Aviation and Engineering Corp. Electric starter. 2,926,265, 2-23-60, Cl. 290-38.
- Islip, Leonard: *See*—  
Howell, Alun R., and Islip. 2,936,155.
- Isola, Richard A., to General Motors Corp. Domestic appliance. 2,953,308, 9-20-60, Cl. 241-101.
- Isoleringsaktiebolaget WMB: *See*—  
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- Isomet Corp.: *See*—  
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- Isono, Hitoshi: *See*—  
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- Israel, Lon F., Jr., to Whirlpool Corp. Uni-directional pump for automatic washer with recirculating and filtering system. 2,924,959, 2-16-60, Cl. 68-18.
- Israel, Yechezkel: *See*—  
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- Israelson, Arlo F., F. E. Parke, and J. Rossi, to Eriez Mfg. Co. Conveyor with magnetic pipe separators thereon. 2,939,568, 6-7-60, Cl. 198-34.
- Israelson, Evert G., to Sperry Rand Corp. Paper holder for writing machines. 2,930,468, 3-29-60, Cl. 197-138.
- Israelson, Evert G., to Sperry Rand Corp. Parallel key action for typewriters. 2,966,249, 12-27-60, Cl. 197-17.
- Isreeli, Jack: *See*—  
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- Isreeli, Jack, to Technicon Instruments Corp. Fluid mixing apparatus. 2,926,006, 2-23-60, Cl. 259-7.
- Issartel, René A. M. Hand brace. 2,947,334, 8-2-60, Cl. 145-54.
- Isserlis, Morris D. Centrifugal pumps. 2,933,045, 4-19-60, Cl. 103-103.
- Isserlis, Morris D. Milling apparatus. 2,951,648, 9-6-60, Cl. 241-55.
- Isserstedt, Siegfried G., to Gordis, Ltd. Calculator. 2,966,303, 12-27-60, Cl. 235-160.



- Istel, Jacques A., and L. B. Sanborn, to Parachutes Inc. Non-oscillating, non-steerable parachute. 2,925,971, 2-23-60, Cl. 244-145.
- Isvén, John O. Conveying separate storage units into and from an area. 2,924,343, 2-9-60, Cl. 214-16.
- Italo Rizzieri: *See*—  
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- Itin, Marco, F. Conradin, and J. Giesen, to Inventa A.G. fuer Forschung und Patentverwertung. Process for the concentration of sugar solutions. 2,943,003, 6-28-60, Cl. 127-46.
- Itin, Marco, J. Giesen, and F. Conradin, to Inventa A.G. fur Forschung und Patentverwertung Luzern. Process for purifying raw sugar solutions. 2,955,963, 10-11-60, Cl. 127-37.
- Itoh, Fujio R.: *See*—  
Johnson, Edwin W., Itoh, and Readal. 2,933,594.
- Itokawa, Hideo: *See*—  
Yamamoto, Kinya, and Itokawa. 2,948,179.
- Ittig, Kurt, K. Larché, and W. Schwiecker, to Patent-Treuhand-Gesellschaft fur elektrische Gluhlampen m.b.H. High pressure gas lamp. 2,965,790, 12-20-60, Cl. 313-217.
- Ivan, Geryoldine. Garment hanger retainer. 2,920,766, 1-12-60, Cl. 211-123.
- Ivanko, Michael F.: *See*—  
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- Ivanko, Michael F., to The Singer Mfg. Co. Bobbin winders for sewing machines. 2,934,282, 4-26-60, Cl. 242-22.
- Ivankovic, Stephen G., and G. R. Mikel, to The Bendix Corp. Motor operated latch mechanism. 2,949,889, 8-23-60, Cl. 121-40.
- Ivanoff, Peter D. Device for holding individually identifiable discs. 2,944,859, 7-12-60, Cl. 312-15.
- Ivers-Lee Co.: *See*—  
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- Voickening, Lloyd L. 2,962,192.
- Volckening, Lloyd L., O'Meara, and Lefebvre. 2,921,731.
- Iversen, Arthur H., to Hughes Aircraft Co. Method of manufacturing impregnated ferrite. 2,930,097, 3-29-60, Cl. 25-156.
- Iversen, Lorenz, to Mesta Machine Co. Coil transfer mechanism. 2,954,135, 9-27-60, Cl. 214-130.
- Iverson, Robert J., to E. I. du Pont de Nemours and Co. Apparatus for washing film. 2,936,468, 5-17-60, Cl. 15-93.
- Ives, H. B., Co., The: *See*—  
Morse, John B., Jr. 2,920,854.
- Ives, Robert S., to Ludlow Corp. Sheet recording material and method of making same. 2,962,382, 11-29-60, Cl. 117-36.
- Iveson, Herbert T.: *See*—  
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- Ivey, Fred S.: *See*—  
Dean, Lloyd E., Groebe, Ivey, and Flavin. 2,953,606.
- Ivey, Oliver T.: *See*—  
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- Ivins, Herbert L., to Olin Mathieson Chemical Corp. Shockless hammer. 2,928,444, 3-15-60, Cl. 145-29.
- Ivy, Jessie T. Automatic reloading mechanism for rifles with sliding bolt action. 2,952,088, 9-13-60, Cl. 42-16.
- Ivy, Mary E., and D. R. Burton, to The Goodyear Tire & Rubber Co. Pill package. 2,921,672, 1-19-60, Cl. 206-42.
- Iwao, Junichi, and K. Tomino, to Tanabe Seiyaku Co., Ltd. Preparation of water soluble epinochrome derivatives. 2,950,287, 8-23-60, Cl. 265-319.
- Iwasaki, Hidesuke: *See*—  
Tatsuoka, Sueo, Kusaka, Miyake, Inoue, Shiraiishi, Iwasaki, and Imanishi. 2,950,277.
- Iwasaki Tsushinki Kabushiki Kaisha: *See*—  
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- Iwerks, Ub: *See*—  
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- Ix, Frank, Jr.: *See*—  
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- Izard, Emmette F.: *See*—  
Amborski, Leonard E., Izard, and Sroog. 2,921,051.
- Izenour, George C. Scenery handling apparatus. 2,942,879, 6-28-60, Cl. 272-22.
- Izenour, George C., to Century Lighting, Inc. Lighting control circuits. 2,954,509, 9-27-60, Cl. 315-199.
- Izumi, John Y. Can opening device. 2,950,528, 8-30-60, Cl. 30-8.
- Izumi, Shinjiro. Bottle-hooding apparatus. 2,920,431, 1-12-60, Cl. 53-141.
- Izzo, Albert. Internal pipe wrench. 2,955,497, 10-11-60, Cl. 81-72.
- Izzo, Edward R.: *See*—  
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- Izzo, Patrick T., and S. R. Safir, to American Cyanamid Co. 3,3-disubstituted 2,6-piperazinediones. 2,927,114, 3-1-60, Cl. 260-268.
- J-B-T Instruments, Inc.: *See*—  
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- JFD Electronics Corp.: *See*—  
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- JFD Mfg. Co., Inc.: *See*—  
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- J and L Inc.: *See*—  
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- Jabczynski, Hans-Joachim, to Siemens & Halske, Aktiengesellschaft. Automatic telephone switches having means for limiting the testing interval. 2,933,562, 4-19-60, Cl. 179-18.
- Jablonsky, Erich, to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Auxiliary power steering for motor vehicles. 2,941,514, 6-21-60, Cl. 121-41.
- Jabsco Pump Co.: *See*—  
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- McCray, Alan A. 2,933,046.
- Jachter, Martin H.: *See*—  
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- Jack, Arthur C., to Bernuth Lembecke Co., Inc. Resilient railway spike. 2,929,561, 3-22-60, Cl. 238-366.
- Jack & Heintz, Inc.: *See*—  
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- Pratt, Aloysius W. 2,928,007.
- Jack, James, to Imperial Chemical Industries Ltd. Preparation of cyclic methylpolysiloxanes by reacting organopolysiloxanes with halides of aluminum or phosphorus. 2,934,550, 4-26-60, Cl. 260-448.2.
- Jacke, Stanley E., L. C. Newsome, and J. W. Collison, to Detrex Chemical Industries, Inc. Ultrasonic cleaning apparatus. 2,950,725, 8-30-60, Cl. 134-184.
- Jackel, Arthur P.: *See*—  
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- Jackel, Arthur P., to Westinghouse Air Brake Co. Code converters. 2,934,754, 4-26-60, Cl. 340-347.
- Jackel, Arthur P., to Westinghouse Air Brake Co. Driver circuit for reversible counting chains. 2,954,511, 9-27-60, Cl. 317-140.
- Jackel, Arthur P., to Westinghouse Air Brake Co. Remote control system. 2,965,882, 12-20-60, Cl. 340-163.
- Jackel, Fritz: *See*—  
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- Jackel, Fritz, to Lemforder Metallwaren, G.m.b.H. Elastic shaft coupling. 2,921,449, 1-19-60, Cl. 64-13.
- Jackel, Fritz, to Lemforder Metallwaren G.m.b.H. Elastic gear and sprocket wheels. 2,955,481, 10-11-60, Cl. 74-438.
- Jackes-Evans Mfg. Co.: *See*—  
Arnott, Cornelius W., Jackes, and Sheets. 2,965,165.
- Jackes, Stanley F., and Miller. 2,951,675.
- Vargo, Frank J. 2,940,722.
- Jackes, Stanley F.: *See*—  
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- Jackes, Stanley F., and J. N. Miller, to Jackes-Evans Mfg. Co. Valve construction. 2,951,675, 9-8-60, Cl. 251-97.
- Jacklin, Harold M. Combustion-chamber construction for internal combustion engines. 2,949,899, 8-23-60, Cl. 123-32.
- Jackman, Charles W., to General Motors Corp. Tandem axle suspension with extended effective spring base. 2,939,718, 6-7-60, Cl. 280-104.5.
- Jackman, J. W., & Co. Ltd.: *See*—  
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- Jackman, William L., to International Business Machines Corp. Monostable multivibrator. 2,954,528, 9-27-60, Cl. 328-197.
- Jackson, Albert P., and C. C. Grund, to A. C. Alvin Co. Cleansing container and closure therefor. 2,964,047, 12-13-60, Cl. 134-183.
- Jackson, Albert S.: *See*—  
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- Jackson, Alex F.: *See*—  
O'Neil, Edgar A., and Jackson. 2,954,946.
- Jackson, Alton B., to National Mine Service Co. Mining machine having extensible and retractable boring arm. 2,937,859, 5-24-60, Cl. 262-26.
- Jackson, Anton and B. A. Framed multiple screw lock connector units. 2,933,713, 4-19-60, Cl. 339-92.
- Jackson, Anton and B. A. Printed circuit screw lock connectors. 2,953,767, 9-20-60, Cl. 339-92.
- Jackson, Arthur P. Ship retarding system or device. 2,923,267, 2-2-60, Cl. 114-209.
- Jackson, Boris A.: *See*—  
Jackson, Anton and B. A. 2,933,713.
- Jackson, Anton and B. A. 2,953,767.
- Jackson, Charles E.: *See*—  
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- Jackson, Clarence W. Building construction. 2,942,454, 6-28-60, Cl. 72-44.
- Jackson, Clyde J., 1/2 to A. L. Clark. Automobile suspension system. 2,956,814, 10-18-60, Cl. 280-124.
- Jackson, Dale E.: *See*—  
Evans, Evan F., and Jackson. 2,945,831.
- Jackson, David R., to Dresser Industries, Inc. Wireline feed-in device. 2,941,598, 6-21-60, Cl. 166-77.
- Jackson, Donald, to Pye Ltd. Cabinets. 2,929,667, 3-22-60, Cl. 312-7.
- Jackson, Donald E., and R. B. Williams, Jr., to Sperry Rand Corp. Course plotter. 2,932,025, 4-5-60, Cl. 343-112.
- Jackson, Donald R. P.: *See*—  
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- Jackson, Edmond D., to Texas Instruments Inc. Solar energy converter. 2,949,498, 8-16-60, Cl. 136-89.
- Jackson Exit Device Corp.: *See*—  
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- Beyrle, Thomas T. 2,931,078.
- Jackson, George W.: *See*—  
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- Jackson, George W., to General Motors Corp. Closed air suspension and air supply system. 2,919,929, 1-5-60, Cl. 280-124.
- Jackson, George W., to General Motors Corp. Hydraulically actuated trim height control. 2,927,801, 3-8-60, Cl. 280-124.
- Jackson, George W., to General Motors Corp. Control mechanism. 2,933,104, 4-19-60, Cl. 137-596.
- Jackson, George W., F. E. La Flame, and J. F. Pribronic, to General Motors Corp. Steering and air compressor lubrication system. 2,935,023, 5-3-60, Cl. 103-4.
- Jackson, George W., F. E. La Flame, and J. F. Pribronic, to General Motors Corp. Lubrication system for gas compressor. 2,937,715, 5-24-60, Cl. 184-6.
- Jackson, George W., and J. T. Hoban, to General Motors Corp. Fluid suspension and control system therefor. 2,962,296, 11-29-60, Cl. 280-124.
- Jackson, Harold E., R. E. Farnfield, and K. E. Nicholds, to Tecalemit Ltd. Lubrication system for vehicles and machines. 2,951,556, 9-6-60, Cl. 184-27.
- Jackson, Harold E., to Tecalemit Ltd. Flow control valves. 2,942,619, 6-28-60, Cl. 137-501.
- Jackson, Harold W. Assembled Venetian blind cleaning machine. 2,928,111, 3-15-60, Cl. 15-4.
- Jackson, Henry A., to United Aircraft Corp. Coolant injection in a fuel nozzle. 2,965,303, 12-20-60, Cl. 239-132.
- Jackson Industries, Inc.: See—  
Peyton, Jesse A. 2,958,350.
- Jackson, James A. and W. A. Balloon. 2,924,041, 2-9-60, Cl. 46-90.
- Jackson, Jesse A., to Gulf Oil Corp. Thrust-bearing wear measuring apparatus. 2,921,298, 1-12-60, Cl. 340-199.
- Jackson, John A. C.: See—  
Ramsey, John F., and Jackson. 2,945,228.
- Jackson, John K. Article ejector station for flexograph printing machines. 2,936,173, 5-10-60, Cl. 271-69.
- Jackson, John M., and F. R. Werner, to The National Cash Register Co. Differential devices for cash registers. 2,954,158, 9-27-60, Cl. 235-8.
- Jackson, Joseph G.: See—  
Samuel, George A., Bell, and Jackson. 2,962,391.
- Jackson, Julius, to E. I. du Pont de Nemours and Co. Preparation of chlorine-containing copper phthalocyanines. 2,933,505, 4-19-60, Cl. 260-314.5.
- Jackson, La Vonne F. Shadow box garment structure. 2,936,460, 5-17-60, Cl. 2-105.
- Jackson, Leonard D. Rocket cluster. 2,960,033, 11-15-60, Cl. 102-49.
- Jackson, Leonard D. Trip-wire flare. 2,961,962, 11-29-60, Cl. 102-37.8.
- Jackson, Leonard D. Marine marker. 2,965,029, 12-20-60, Cl. 102-7.6.
- Jackson, Leonard D., and H. E. Jones. Hand illuminating grenade. 2,960,934, 11-22-60, Cl. 102-37.8.
- Jackson, Nolan C., to Wichita Precision Tool Co., Inc. Steam and air control for garment finishing machines. 2,925,945, 2-23-60, Cl. 223-70.
- Jackson, Nolan C., to Wichita Precision Tool Co., Inc. Bag adjusting assembly for garment finishing machines. 2,927,718, 3-8-60, Cl. 223-67.
- Jackson, Nolan C., to Wichita Precision Tool Co., Inc. Fluid control apparatus for garment finishing machines. 2,948,446, 8-9-60, Cl. 223-70.
- Jackson, Peter J.: See—  
Jones, Kenneth W., and Jackson. 2,934,445.
- Jones, Kenneth W., and Jackson. 2,953,467.
- Jackson, Philip W.: See—  
Gregory, Ralph A., Baker, Wolensky, Jackson, Winger, and Murphy. 2,960,683.
- Jackson, Philip W., Jr.: See—  
Cicala, Vincent, and Jackson. 2,950,884.
- Jackson, Philip W., Jr., to Vitro Corp. of America. Automatic escape reel. 2,937,853, 5-24-60, Cl. 254-159.
- Jackson, Ralph H., and D. Van Wagenen, to Armour and Co. Resilient cushion and method of manufacture. 2,948,650, 8-9-60, Cl. 154-100.
- Jackson, Richard W.: See—  
Weber, Joseph A., Thomas, and Jackson. 2,950,623.
- Jackson, Robert B., to National Research Development Corp. Transistor oscillator circuits. 2,960,665, 11-15-60, Cl. 331-108.
- Jackson, Robert C., to The Chemstrand Corp. Textile twisting apparatus. 2,932,152, 4-12-60, Cl. 57-66.
- Jackson, Robert D.: See—  
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- Jackson, Robert E.: See—  
Hawkins, Joseph K., and Jackson. 2,929,556.
- Jackson, Roderick M., to Hamilton Watch Co. Chronometric electric motor. 2,928,034, 3-8-60, Cl. 318-330.
- Jackson, Roderick M., to Hamilton Watch Co. Heartbeat mechanism. 2,954,642, 10-4-60, Cl. 46-232.
- Jackson, Rodney, to Young Iron Works. Slack puller. 2,947,516, 8-2-60, Cl. 254-175.7.
- Jackson, Sidney W., and E. G. Fahlman, to The Permold Co. Mold for casting complex annular shapes. 2,932,070, 4-12-60, Cl. 22-138.
- Jackson, Simpson, and U. V. Johnson, to Detroit Steel Corp. Apparatus for unreeling wire. 2,963,240, 12-6-60, Cl. 242-128.
- Jackson, Stanley Whitaker: See—  
Robinson, Sydney. 2,964,803.
- Jackson, Steven B., to The Fluor Corp. Ltd. Low temperature fractionation of natural gas components. 2,940,271, 6-14-60, Cl. 62-31.
- Jackson, Stuart P., and H. H. Power, to General Electric Co. Current rectifier assemblies. 2,936,409, 5-10-60, Cl. 317-234.
- Jackson, Stuart P., and R. A. Barker, to General Electric Co. Liquid cooled current rectifiers. 2,942,165, 6-21-60, Cl. 317-234.
- Jackson, Thomas M. Combined condiment holder and toothpick. 2,931,370, 4-5-60, Cl. 132-89.
- Jackson, Wallace T., to Eastman Kodak Co. Method and apparatus for opening crimped tow. 2,926,392, 3-1-60, Cl. 19-66.
- Jackson, Walter B., to United States of America, Air Force. Reciprocating zone purification. 2,952,722, 9-13-60, Cl. 13-20.
- Jackson, Walter L.: See—  
Jackson, James A., and W. L. 2,924,041.
- Jackson, Wendell L. Water ski tow rope hitch. 2,929,348, 3-22-60, Cl. 114-235.
- Jackson, Wilbur F., to Robertshaw-Fulton Controls Co. Pilot burner and thermocouple therefor. 2,943,132, 6-28-60, Cl. 136-4.
- Jackson, Wilbur F., to Robertshaw-Fulton Controls Co. Insulated thermal element. 2,954,696, 10-4-60, Cl. 73-362.3.
- Jackson, Wilbur F., and T. J. Dykzeul, to Robertshaw-Fulton Controls Co. Control device. 2,953,937, 9-27-60, Cl. 74-504.
- Jackson, William H., to The Udylyte Corp. Selective plating apparatus. 2,924,564, 2-9-60, Cl. 204-204.
- Jackson, William H., to The Udylyte Corp. Barrel with automatic door panel. 2,941,656, 6-21-60, Cl. 198-143.
- Jackson, William H., to The Udylyte Corp. Drying machine for metal parts. 2,965,974, 12-27-60, Cl. 34-225.
- Jackson, William K., to Cosden Petroleum Corp. Process for the production of polyisobutylene. 2,957,930, 10-25-60, Cl. 260-683.15.
- Jackson, Winston J., Jr.: See—  
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- Caldwell, John R., and Jackson. 2,956,987.
- Jackson's, Samuel, Sons, Inc.: See—  
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- Jacob, James P.: See—  
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- Aldrich, Clare A., and Jacob. 2,943,715.
- Jacob, Lawrence N., to Sun Oil Co. Reactivation of solid phosphoric acid catalyst. 2,945,822, 7-19-60, Cl. 252-414.
- Jacob, Robert M., and N. M. Joseph, to Societe des Usines Chimiques Rhone-Poulenc. New esters. 2,928,835, 3-15-60, Cl. 260-294.3.
- Jacob, Robert M., and J. G. Robert, to Societe des Usines Chimiques Rhone-Poulenc. Phentiazine derivatives. 2,941,999, 6-21-60, Cl. 260-243.
- Jacob, Robert M., G. L. Regnier, and C. Crisan, to Societe des Usines Chimiques Rhone-Poulenc. Certain nitro imidazolealkanois and acyl derivatives, and process. 2,944,061, 7-5-60, Cl. 260-309.
- Jacob, Theodore A.: See—  
Chemerda, John M., and Jacob. 2,953,580.
- Jacob, Walter E. W.: See—  
Jacobaeus, Anton C., Jonason, and Jacob. 2,929,879.
- Jacobaeus, Anton C., O. G. Jonason, and W. E. W. Jacob, to Telefonaktiebolaget L M Ericsson. Multi-channel pulse communication system. 2,929,879, 3-22-60, Cl. 179-15.
- Jacobi, Edward N. Pavements. 2,941,456, 6-21-60, Cl. 94-13.
- Jacobi, Ernst: See—  
Zima, Otto, and Jacobi. 2,945,877.
- Zima, Otto, and Jacobi. 2,946,802.
- Jacobi, Herbert J.: See—  
McMechen, William F. 2,943,902.
- Jacobi, Leon J., Jr. Non-displaceable receptacle. 2,955,792, 10-11-60, Cl. 248-146.
- Jacobitz, William G., and E. W. Scheibe, to General Motors Corp. Fuel nozzle. 2,963,282, 12-6-60, Cl. 261-4.
- Jacobs, Albert: See—  
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- Jacobs, Albert B., to Sylvania Electric Products Inc. Teletype writer code encoder. 2,927,961, 3-8-60, Cl. 178-26.
- Jacobs, Arthur, to The Haugma Corp. Machine for treating food items. 2,935,034, 5-3-60, Cl. 107-44.
- Jacobs, Arthur, 1/2 to H. E. Haug. Die extruding apparatus. 2,953,106, 9-20-60, Cl. 107-14.
- Jacobs, Bernard, to Sperry Rand Corp. Bonding of semiconductor contact electrodes. 2,945,285, 7-19-60, Cl. 29-25.3.
- Jacobs, Charles P.: See—  
Bank, Richard P., and Jacobs. 2,965,061.
- Jacobs, Charles T., to McGraw-Edison Co. Automatic volume control system. 2,956,237, 10-11-60, Cl. 330-124.
- Jacobs, Francis A.: See—  
Harhuis, Harm, and Jacobs. 2,960,595.
- Jacobs, Frederick L., to Heublein, Inc. Method of making vodka. 2,946,687, 7-26-60, Cl. 99-48.
- Jacobs, Harold, to United States of America, Army. Method of making silicon carbide rectifiers. 2,932,878, 4-19-60, Cl. 29-25.3.



- Jacobs, Harvey C. Drill pipe protector. 2,959,453, 11-8-60, Cl. 308-4.
- Jacobs, Henri J. A. M., L. F. Van De Weijdevan, and L. W. Roosendaal, to North American Philips Co. Inc. Circuit arrangement for the control of welding voltage. 2,945,161, 7-12-60, Cl. 315-205.
- Jacobs, James W., to General Motors Corp. Refrigerating apparatus with hot gas defrost. 2,936,594, 5-17-60, Cl. 62-156.
- Jacobs, James W., to General Motors Corp. Domestic appliance. 2,965,317, 12-20-60, Cl. 241-46.
- Jacobs, James W., and F. H. McCormick, to General Motors Corp. Domestic appliance. 2,965,428, 12-20-60, Cl. 312-245.
- Jacobs, John E., to General Electric Co. Inspection apparatus and method. 2,922,887, 1-26-60, Cl. 250-83.3.
- Jacobs, John E., to General Electric Co. Semi-conductor. 2,938,003, 5-24-60, Cl. 252-501.
- Jacobs, John E., to General Electric Co. Iconoscope. 2,951,898, 9-6-60, Cl. 178-6.8.
- Jacobs, John E., to General Electric Co. Target structure for image transducer. 2,960,616, 11-15-60, Cl. 313-65.
- Jacobs, John E., to General Electric Co. Photosensitive system. 2,960,634, 11-15-60, Cl. 317-130.
- Jacobs, John E., and H. Berger, to General Electric Co. Photoconductive image transducer tubes. 2,939,027, 5-31-60, Cl. 313-65.
- Jacobs, John W. Expansion bit. 2,923,336, 2-2-60, Cl. 145-127.
- Jacobs, Joseph H. Electric razor with multiple rotary cutter head and oscillating combs. 2,965,966, 12-27-60, Cl. 30-43.
- Jacobs, Joseph J.: See—  
Smith, William A., and Jacobs. 2,963,345.
- Jacobs, Louis J., to The S. Obermayer Co. Refractory materials. 2,949,704, 8-23-60, Cl. 50-464.
- Jacobs, Philip C., and F. J. Kozacka, to The Chase-Shawmut Co. Circuit interrupters with back-up current-limiting fuses. 2,920,241, 1-5-60, Cl. 317-26.
- Jacobs, Philip C., Jr., and F. J. Kozacka, to The Chase-Shawmut Co. Current-limiting fuses having compound arc-voltage generating means. 2,964,604, 12-13-60, Cl. 200-120.
- Jacobs, Philip F., H. M. Barnum, and J. E. Greengard, Jr., to E.B. Metal Products Co., Inc. Tripping means and dispensing apparatus. 2,940,635, 6-14-60, Cl. 221-90.
- Jacobs, Robert B., and J. C. Rhodes, to Standard Oil Co. Temperature control device. 2,935,590, 5-3-60, Cl. 219-20.
- Jacobs, Robert B., J. C. Rhodes, and D. D. LoGiurato, to Standard Oil Co. Continuous flash point monitor. 2,939,312, 6-7-60, Cl. 73-36.
- Jacobs, Stephen, to General Electric Co. Governing mechanism. 2,929,389, 3-22-60, Cl. 137-56.
- Jacobs, Thomas E.: See—  
Feldman, Nathan W., and Jacobs. 2,922,148.
- Jacobs, William H., to Magic Whirl Dispensers, Inc. Beverage mixer. 2,932,493, 4-12-60, Cl. 259-102.
- Jacobs, William L.: See—  
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Annable, Weldon G., and Jacobs. 2,935,460.  
Annable, Weldon G., and Jacobs. 2,936,281.
- Jacobsen, Charles. Retractable clothesline. 2,943,746, 7-5-60, Cl. 211-119.5.
- Jacobsen, David, to Rodi & Wienenberger Aktiengesellschaft. Two-layer expandable linkage of high flexibility. 2,949,729, 8-23-60, Cl. 59-79.
- Jacobsen, Edwin. Electrical connector. 2,959,766, 11-8-60, Cl. 339-273.
- Jacobsen, Kenneth L., A. D. Johnson, G. P. Covell, E. E. Kwierant, and K. W. John, to United States Rubber Co. Automatic white-black tire painting machine. 2,930,345, 3-29-60, Cl. 118-2.
- Jacobsen Mfg. Co.: See—  
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Strasel, Raymond K. 2,955,402.  
Strasel, Raymond K., and Barth. 2,955,404.
- Jacobsen, Ralph T.: See—  
Hagen, Richard E., and Jacobsen. 2,949,530.
- Jacobson, Abraham. Drapery hook clip. 2,939,147, 6-7-60, Cl. 1-56.
- Jacobson, Bror. Paint brush holder. 2,952,364, 9-13-60, Cl. 211-65.
- Jacobson, David L., to Grand Haven Brass Foundry. Antisiphon ball cock valve. 2,941,542, 6-21-60, Cl. 137-218.
- Jacobson, Edwin B., to Jervis Corp. Remote control device, particularly for an automotive rearview mirror. 2,931,245, 4-5-60, Cl. 74-501.
- Jacobson, Elton J., and T. V. Linder, to Electric Machinery Mfg. Co. Constant-frequency alternating-current electrical systems. 2,943,257, 6-28-60, Cl. 322-29.
- Jacobson, Harry: See—  
Quinones, Luis, and Rodriguez. 2,960,787.
- Jacobson, James J. Display rack with pilfer prevention means. 2,926,788, 3-1-60, Cl. 211-4.
- Jacobson, James J., to Janice Lace Co., Inc. Trimming dispenser and display apparatus. 2,926,862, 3-1-60, Cl. 242-55.53.
- Jacobson, James J. Telescopic display rack. 2,932,408, 4-12-60, Cl. 211-134.
- Jacobson, James J. Display and dispensing racks. 2,934,212, 4-26-60, Cl. 211-49.
- Jacobson, Jesse. Electronic musical reed instruments. 2,948,178, 8-9-60, Cl. 84-1.15.
- Jacobson, Johan S., assignee of part interest to N.V. Exploitatie Maatschappij "Het Hof van Holland." Picture projection screens. 2,948,187, 8-9-60, Cl. 88-28.93.
- Jacobson, Max, and A. J. Kelemen. Anti-inflammatory and analgesic composition. 2,960,440, 11-15-60, Cl. 167-65.
- Jacobson, Moses G., to Mine Safety Appliances Co. Semiconductor diode constructions for use in gas detection. 2,940,041, 6-7-60, Cl. 324-71.
- Jacobson, Moses G., to Mine Safety Appliances Co. Detection of ambient components by semiconductors. 2,965,842, 12-20-60, Cl. 324-65.
- Jacobson, Moses G., and F. J. De Luca, to Mine Safety Appliances Co. Electrochemical determination of components in gas mixtures. 2,939,827, 6-7-60, Cl. 204-195.
- Jacobson, Norman A.: See—  
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- Jacobson, Robert E.: See—  
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- Jacobson, Robert E., to United States Gypsum Co. Gypsum composition. 2,957,775, 10-25-60, Cl. 106-116.
- Jacobson, Saul: See—  
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- Jacobson, Victor, to Level-Line Ceilings Inc. Wall molding for supporting ceiling tiles. 2,964,148, 12-13-60, Cl. 189-88.
- Jacobus, Charles J., to Clark Equipment Co. Hydraulic power steering for land vehicle. 2,945,544, 7-19-60, Cl. 180-79.2.
- Jacobus, William W.: See—  
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Crim, Hugh S., and Jacobus. 2,949,738.
- Jacobus, William W., to United States of America, Navy. Afterburner igniter. 2,925,717, 2-23-60, Cl. 60-39.82.
- Jacoby, Abraham S.: See—  
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- Jacoby-Bender, Inc.: See—  
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- Jacoby, Gerald E.: See—  
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- Jacoby, Gerald E., and R. W. Ketchledge, to Bell Telephone Laboratories, Inc. Gas discharge device. 2,929,962, 3-22-60, Cl. 315-168.
- Jacoby, Harry D., to W. V. Storm. Sprinkler bearing construction. 2,946,517, 7-26-60, Cl. 239-264.
- Jacoby, Joseph F., to General Electric Co. Heater wire. 2,941,176, 6-14-60, Cl. 338-262.
- Jacoby, John W.: See—  
Bowerman, Hulie E., Miller, and Jacoby. 2,926,976.
- Jacoby, Marvin: See—  
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- Jacque, Leon, and P. Dumez, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Process for the separation of substances by vaporization. 2,944,878, 7-12-60, Cl. 23-294.
- Jacquemier, Paul: See—  
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- Jacques, Donat C. Protective garment. 2,933,085, 4-19-60, Cl. 128-149.
- Jacques, George E.: See—  
Schunemann, Carl F., and Jacques. 2,966,637.
- Jacques, George E., to Thompson Ramo Wooldridge Inc. Air dielectric rotor for coaxial switch. 2,938,984, 5-31-60, Cl. 200-153.
- Jacques, Stanley A. Window lock. 2,955,860, 10-11-60, Cl. 292-63.
- Jacquet, Camille, to Etablissements Giroud Freres, les Successeurs de Huges Giroud & Cie. Machines for the manufacture of pile articles. 2,940,504, 6-14-60, Cl. 154-1.1.
- Jacquier, Pierre A. C., to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Gas tight electrolytic cells and gas tight alkaline storage cells and separators therefor. 2,930,829, 3-29-60, Cl. 136-143.
- Jacquot, Henri T.: See—  
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- Jac-Tar Co.: See—  
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- Jacula, John P. Filters. 2,933,188, 4-19-60, Cl. 210-172.
- Jacuzzi Bros., Inc.: See—  
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- Jacuzzi, Candido, F. M. Nash, and J. G. Pretti, to Jacuzzi Bros., Inc. Shallow well jet pump. 2,938,471, 5-31-60, Cl. 103-262.
- Jadoul, Edmond L. J., to Charrues Melotte, Societe Anonyme. Overload release for rotatably mounted drawbar. 2,947,368, 8-2-60, Cl. 172-264.
- Jaeckel, Karl: See—  
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- Jaeger, Jacob J., to Pratt & Whitney Co., Inc. Cutter head and counterweight support for machine tools. 2,949,797, 8-23-60, Cl. 77-36.



- Jaeger, Kurt S., to Midland-Ross Corp. Burner apparatus. 2,932,347, 4-12-60, Cl. 158-11.
- Jaeger Machine Co., The : See—  
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- Jaeger, Robert P., to Bell Telephone Laboratories, Inc. Code generator. 2,957,952, 10-25-60, Cl. 179-90.
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- Jaepfelt, Alfred, O. Dietrich, and O. Werner. Heat processing of fine-granular coal products. 2,924,556, 2-9-60, Cl. 202-22.
- Jaeschke, Ralph L., to Eaton Mfg. Co. Electric dynamometer or brake. 2,922,056, 1-19-60, Cl. 310-93.
- Jaeschke, Ralph L., to Eaton Mfg. Co. Hardened surfaces for magnetic fluid clutches. 2,925,896, 2-23-60, Cl. 192-215.
- Jaeschke, Ralph L., to Eaton Mfg. Co. Electrically controlled clutches. 2,945,104, 7-12-60, Cl. 200-87.
- Jaeschke, Ralph L., to Eaton Mfg. Co. Friction clutch. 2,949,991, 8-23-60, Cl. 192-107.
- Jaeschke, Ralph L., to Eaton Mfg. Co. Magnetic couplings. 2,956,658, 10-18-60, Cl. 192-84.
- Jaeschke, Ralph L., to Eaton Mfg. Co. Liquid-cooled electromagnetic coupling. 2,965,777, 12-20-60, Cl. 310-105.
- Jaffe, David L., to Polarad Electronics Corp. Means for generating a voltage linearly proportional to frequency. 2,921,186, 1-12-60, Cl. 250-20.
- Jaffe, David L., to Polarad Electronics Corp. Microwave power monitor. 2,921,262, 1-12-60, Cl. 324-95.
- Jaffe, David L., to Polarad Electronics Corp. Card-type thermometer mount. 2,921,263, 1-12-60, Cl. 324-95.
- Jaffe, David L., to Polarad Electronics Corp. Mobile radio locator. 2,921,306, 1-12-60, Cl. 343-112.
- Jaffe, David L., to Polarad Electronics Corp. Linearly responsive voltage generating means with variable induction coupling. 2,950,386, 8-23-60, Cl. 250-20.
- Jaffe, David L., and F. J. Skwarek, to Polarad Electronics Corp. Microwave mixer and tuner apparatus. 2,921,187, 1-12-60, Cl. 250-20.
- Jaffe, Emanuel M., and E. S. Galaw, to Duophoto Corp. Photographic development apparatus. 2,924,163, 2-9-60, Cl. 95-94.
- Jaffe, Hans, and T. J. Turobinski, to Clevite Corp. Method of growing quartz single crystals. 2,923,605, 2-2-60, Cl. 23-301.
- Jaffe, Herbert S. Method of making a two-part container from an extruded blank. 2,952,039, 9-13-60, Cl. 18-47.5.
- Jaffe, Joseph, and A. Schneider, to Celanese Corp. of America. Subbed cellulose triacetate photographic film. 2,939,806, 6-7-60, Cl. 117-82.
- Jaffe, Lawrence L., and W. L. Harris, to General Motors Corp. Paint stripping composition. 2,940,877, 6-14-60, Cl. 134-38.
- Jaffe, Mary S., and R. V. Levetan, to General Electric Co. High dielectric constant fluids and plasticizers. 2,951,865, 9-6-60, Cl. 260-465.
- Jaffe, Philip M., to Westinghouse Electric Corp. Storage device. 2,965,783, 12-20-60, Cl. 313-108.
- Jaffe, Sarah A. Foldable tub. 2,950,484, 8-30-60, Cl. 4-177.
- Jaffee, Eugene V. Spectacle frame lens clamp and temple hinge. 2,961,923, 11-29-60, Cl. 88-53.
- Jaffee, Robert I., to Kennecott Copper Corp. Titanium-molybdenum alloys with compound formers. 2,938,789, 5-31-60, Cl. 75-175.5.
- Jaffee, Robert I., F. R. Schwartzberg, and D. N. Williams, to Kennecott Copper Corp. Columbium-titanium base oxidation-resistant alloys. 2,940,845, 6-14-60, Cl. 75-174.
- Jagel, Robert C. : See—  
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- Jagemann, Nicholas B., to Mirro Aluminum Co. Collapsible utility house. 2,963,122, 12-6-60, Cl. 189-2.
- Jagen, Theodore A., to General Motors Corp. Method of making bearing rings. 2,961,744, 11-29-60, Cl. 29-148.4.
- Jagenberg-Werke Akt.-Ges. : See—  
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- Jager, Erich : See—  
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- Jager, Ernst. Micrometer gauge. 2,959,862, 11-15-60, Cl. 33-143.
- Jäger, Heinz, to Westfalia Dinnendahl Groppe Aktiengesellschaft. Air-circulation classifier. 2,966,265, 12-27-60, Cl. 209-139.
- Jagger, Ernest T., and B. Walton, to George Angus & Co. Ltd. Production of rubber rings. 2,927,344, 3-8-60, Cl. 18-2.
- Jagger, Hubert, to T. B. Hirschberg, Jr. Checkwriter and anti-theft alarm means therefor. 2,928,336, 3-15-60, Cl. 101-20.
- Jagiello, Leonard T., to United States of America, Navy. Three axis gyroscopic aerodynamic damping system. 2,935,947, 5-10-60, Cl. 102-50.
- Jaglowski, Joseph J., Jr., and I. Scott, to United States of America, Navy. Explosive release actuator. 2,938,429, 5-31-60, Cl. 89-1.
- Jagtenberg, Cornelis J., to Irene Chassefont Sa. Paste-dispensers. 2,956,298, 10-18-60, Cl. 15-132.7.
- Jahn, Eva-Maria : See—  
Ordelt, Hermann, and Jahn. 2,921,011.
- Jahn, Paul. Apparatus for equilibrating small disc-shaped rotary bodies. 2,932,191, 4-12-60, Cl. 77-5.
- Jahn, Paul. Compensatable balance wheel. 2,958,997, 11-8-60, Cl. 58-107.
- Jahn, Robert E., W. C. Bross, F. Wheeler, and J. R. Newcomer, Jr., to Camloc Fastener Corp. Heel support for water skis. 2,920,331, 1-12-60, Cl. 9-310.
- Jahnig, Charles E. : See—  
Feldbauer, George F., Jr., Jahnig, and Weinstein. 2,920,038.  
Feldbauer, George F., Jr., Jahnig, and Weinstein. 2,944,092.
- Smith, Brook I., Barr, and Jahnig. 2,964,464.
- Jahnke, Louis P., and M. A. Pohlman, to General Electric Co. Nickel base alloys. 2,945,758, 7-19-60, Cl. 75-171.
- Jahnke, Robert H., to The Cincinnati Shaper Co. Press brake. 2,946,234, 7-26-60, Cl. 74-421.
- Jaidinger, John H. Snap switch. 2,935,580, 5-3-60, Cl. 200-67.
- Jairett, Arthur D., to Fairchild Engine and Airplane Corp. Hinge bond construction. 2,965,956, 12-27-60, Cl. 29-200.
- Jakeman, Harry, and P. S. Jeavons, to Wilmot-Breeden Ltd. Latching mechanisms. 2,961,265, 11-22-60, Cl. 292-216.
- Jaklitsch, Franz. Heat exchanger for viscous fluids. 2,943,845, 7-5-60, Cl. 257-312.
- Jakob, Franz : See—  
Reuter, Martin, Orthner, Jakob, and Wolf. 2,937,207.
- Jakobs, Melchior W. : See—  
Decker, Johannes B., Meder, and Jakobs. 2,958,902.
- Jakobsbergs Elektrotekniska Fabriker Aktiebolaget : See—  
Backmark, Nils E. 2,931,943.
- Jakobsson, Per A. H., to International Ytong-Slobalite Co. Ltd. Method for the production of lightweight concrete. 2,941,253, 6-21-60, Cl. 18-47.5.
- Jakubowicz, Edward, to United States of America, Army. Automatic frequency control system. 2,964,714, 12-13-60, Cl. 331-2.
- Jakubowski, Jan K., to General Electric Co. Electric heating units and methods of making the same. 2,962,683, 11-29-60, Cl. 338-240.
- Jalbert, Adrien L., 50%, to Emile R. Jalbert. Automatic scouring machine for heels, etc. 2,964,885, 12-20-60, Cl. 51-101.
- Jalbert, Emile R. : See—  
Jalbert, Adrien L. 2,964,885.
- Jamentz, Robert K. Roasting rack. 2,924,168, 2-9-60, Cl. 99-426.
- James, Allan V., to United States of America, Army. Midget calorimetric powermeter. 2,953,745, 9-20-60, Cl. 324-95.
- James, Bertram G., to Eitel-McCullough, Inc. Cavity resonator for klystron tube. 2,929,955, 3-22-60, Cl. 315-546.
- James, Bill Y. Package bow. 2,956,362, 10-18-60, Cl. 41-10.
- James, Cyril H., to United Shoe Machinery Corp. Toe lasting machines. 2,925,613, 2-23-60, Cl. 12-8.8.
- James, Cyril H., and R. C. Quarmby, to United Shoe Machinery Corp. Machines for reducing and roughing shoe soles. 2,958,879, 11-8-60, Cl. 12-17.
- James, Dennis B., to Bell Telephone Laboratories, Inc. Pulse shift monitoring circuit. 2,956,180, 10-11-60, Cl. 307-88.5.
- James, Dennis B., and J. D. Johannesen, to Bell Telephone Laboratories, Inc. Switching circuit. 2,936,338, 5-10-60, Cl. 179-15.
- James, Dennis B., J. D. Johannesen, M. Karnaugh, and W. A. Malthaner, to Bell Telephone Laboratories, Inc. PCM time division telephone switching system. 2,957,949, 10-25-60, Cl. 179-18.
- James Equipment Co., Inc. : See—  
Durham, Henry O. 2,962,076.
- James, George E. : See—  
Cole, Addison D., James, Nonnemaker, and Sternberg. 2,921,305.
- James, George M., to E. I. du Pont de Nemours and Co. Cellulosic sponge. 2,945,772, 7-19-60, Cl. 117-98.
- James, Glen S. Automatic protective device and method. 2,932,382, 4-12-60, Cl. 198-232.
- James, Gordon, to Gulf Oil Corp. Manifold for dual zone well. 2,943,640, 7-5-60, Cl. 137-594.
- James, Henry C. Timing mechanism. 2,941,050, 6-14-60, Cl. 200-37.
- James, Henry D., 25% to W. J. Ruano. Motor control system. 2,921,248, 1-12-60, Cl. 318-144.
- James, Henry D., 25% to W. J. Ruano. Motor control systems. 2,929,009, 3-15-60, Cl. 318-327.
- James, Ivanhoe J. P., and J. A. Lodge, to Electric & Musical Industries Ltd. Apparatus for correcting for transmission variations in television and other signal transmission systems. 2,965,711, 12-20-60, Cl. 178-7.2.
- James, James C., Jr., to Masonite Corp. Bending tool. 2,957,499, 10-25-60, Cl. 140-123.
- James, John B., to The United Kingdom Atomic Energy Authority of Patents Branch. Indicating systems for ring scaling circuits. 2,965,885, 12-20-60, Cl. 340-174.
- James, John F., to Marconi's Wireless Telegraph Co. Ltd. Radar display system. 2,959,777, 11-8-60, Cl. 343-5.



- James, Kenneth E., to United Concrete Pipe Corp. Spigot mold for concrete pipes. 2,929,124, 3-22-60, Cl. 25—127.
- James, Lawrence A.: *See—*
- MacAlpine, Roderick T., and James. 2,949,201.
- James, Raymond W., and R. E. Merrill, to Arthur D. Little, Inc. Self-locking screw-threaded fastening member. 2,928,446, 3-15-60, Cl. 151—7.
- James, Richard D.: *See—*
- Bell, Frank C., Dixon, Ellsworth, and James. 2,940,172.
- James, Richard D., and W. A. Jones, to Northrop Corp. Data playback unit and circuit. 2,958,477, 11-1-60, Cl. 242—55.12.
- James, Rolf E., and E. N. McDonald. Door construction for vehicles and the like. 2,956,836, 10-18-60, Cl. 296—46.
- James, Sven F.: *See—*
- West, Charles. 2,934,247.
- James, Walter R., and J. H. Bechtel, to United States of America, Navy. Seaplane towing and refueling apparatus. 2,956,532, 10-18-60, Cl. 114—235.
- James, Warren M.: *See—*
- Reminger, August J., and James. 2,939,098.
- James, Wilbert: *See—*
- Nagy, John, James, and Martin. 2,964,763.
- James, William C.: *See—*
- Dawkins, Kenneth, and James. 2,924,817.
- Jamesbury Corp.: *See—*
- Freeman, Howard G., and Vaudreuil. 2,945,666.
- Jameson, Donald C., to Hughes Aircraft Co. Unity gain amplifier. 2,965,850, 12-20-60, Cl. 330—9.
- Jameson, Donald E.: *See—*
- Lindsey, Albert S., and Jameson. 2,964,972.
- Jameson, Keith, to Linotype and Machinery Ltd. Sheet feeder apparatus for printing machines. 2,965,022, 12-20-60, Cl. 101—233.
- Jameson, Morton B.: *See—*
- Mairs, Thomas G., Locke, and Jameson. 2,919,815.
- Jamieson, David J. Automatic reversing mechanism for a tape recorder. 2,927,975, 3-8-60, Cl. 179—100.2.
- Jamieson, John R., to Minneapolis-Honeywell Regulator Co. Damped solenoid valve operator. 2,931,617, 4-5-60, Cl. 251—84.
- Jamieson Laboratories, Inc.: *See—*
- Denton, Robert F. 2,953,653.
- Denton, Robert F. 2,955,180.
- Denton, Robert F., and White. 2,946,227.
- Jamieson, Robert S., to Ultradyne, Inc. Damper for transducer. 2,959,252, 11-8-60, Cl. 188—87.
- Jamison, Edwin L.: *See—*
- Downey, Richard M., and Jamison. 2,949,698.
- Jamison, Robin R., and I. B. Ogilvie, to Bristol Aero-Engines Ltd. Fuel burners in ducts. 2,931,175, 4-5-60, Cl. 60—39.82.
- Jamison, Will B.: *See—*
- Nailler, Charles R., and Jamison. 2,936,257.
- Janak, John, F. R. Humburg, and R. C. Hill, to Swift & Co. Processing egg yolks. 2,930,705, 3-29-60, Cl. 99—182.
- Janda, Richard M.: *See—*
- Coile, Benjamin F., Janda, and Williams. 2,939,303.
- Janes, Edmund D., and P. B. Jensen, to Scovill Mfg. Co. Fastener setting tools. 2,920,325, 1-12-60, Cl. 1—4.
- Janeseck, Louis F.: *See—*
- Burt, Howard J., and Janeseck. 2,940,624.
- Janetos, Nicholas S.: *See—*
- Marzocchi, Alfred, and Janetos. 2,931,739.
- Marzocchi, Alfred, and Janetos. 2,951,772.
- Janeway, Cornell, and H. A. Sherwood, to American Brake Shoe Co. Internal combustion engines. 2,959,164, 11-8-60, Cl. 123—73.
- Janeway, Robert N., to Chrysler Corp. Understeering rear suspension. 2,954,835, 10-4-60, Cl. 180—73.
- Janeway, Robert N. Tractor-trailer fifth wheel connection. 2,958,542, 11-1-60, Cl. 280—438.
- Janice Lace Co.: *See—*
- Jacobson, James J. 2,926,862.
- Jänicke, Hermann. Method and apparatus for starting free-piston engines. 2,939,273, 6-7-60, Cl. 60—13.
- Janicke, Jack M., to Radio Frequency Laboratories, Inc. Magnet charger adapter. 2,962,637, 11-29-60, Cl. 317—203.
- Janisse, Norman J., to Johnson Service Co. Compressor controls. 2,964,925, 12-20-60, Cl. 62—209.
- Jankauskas, George P., to W. A. Dubovick and J. P. Kozak. Anti-skid brake mechanism. 2,953,413, 9-20-60, Cl. 303—24.
- Janke, Edward J., to Addressograph-Multigraph Corp. Code printing machine. 2,927,528, 3-8-60, Cl. 101—91.
- Jankelson, Bernard. Tooth polishing device. 2,943,343, 7-5-60, Cl. 15—256.5.
- Jankens, Austin L., to The Dow Chemical Co. Oriented thermoplastic filament having a satiny appearance. 2,948,048, 8-9-60, Cl. 28—82.
- Jankowski, Conrad M., to Central Scientific Co. Titrator electrode pair. 2,930,747, 3-29-60, Cl. 204—271.
- Jankowski, Edwin F. Vehicle tire inflating system. 2,931,414, 4-5-60, Cl. 152—417.
- Jann, Philip E.: *See—*
- Anderson, Lyle K., Jann, and Carruthers. 2,954,298.
- Janness, William E.: *See—*
- Tillson, Edwin D., Janness, and Davis. 2,951,611.
- Janney, Thomas T., to James Lees and Sons Co. Pile fabric and method of weaving. 2,936,004, 5-10-60, Cl. 139—404.
- Janney, Thomas T., and R. J. McCann, to James Lees and Sons Co. Pile fabric. 2,950,741, 8-30-60, Cl. 139—404.
- Jannings, Alfred A.: *See—*
- Isenberg, Sampson, and Jannings. 2,941,265.
- Janno, Piero, to RIV Officine di Villar Perosa Societa per Azioni. Indicating mechanism for key-set and key-operated cash registers. 2,941,715, 6-21-60, Cl. 235—23.
- Janome Sewing Machine Co., Ltd.: *See—*
- Matsushita, Yoshiichi. 2,965,055.
- Janos, Alfred G., to General Electric Co. Evaporator structure and method of manufacture. 2,920,377, 1-12-60, Cl. 29—155.5.
- Janosik, James P.: *See—*
- Hoffman, William A., Janosik, and Ten Broeck. 2,931,732.
- Janoska, Georges, to Cyber Societe Anonyme. Mechanical coupling system. 2,956,445, 10-18-60, Cl. 74—393.
- Janot, Maurice-Marie, R. Goutarel, and A. Le Hir, to Les Laboratoires Gobey. Process of producing  $\beta$ -yohimbine. 2,959,592, 11-8-60, Cl. 260—287.
- Janowitz, Robert, to Clipper Mfg. Co. Equalizer structure for masonry saws. 2,927,572, 3-8-60, Cl. 125—13.
- Jansen, Friedrich L.: *See—*
- Ter Borg, Petrus W., Jansen, and de Jong. 2,965,733.
- Jansen, Gerhart. Clamp nut apparatus. 2,935,299, 5-3-60, Cl. 254—29.
- Jansen, Hermann: *See—*
- Braun, Willi, Jansen, and Scholl. 2,931,635.
- Jansen, Jacob E.: *See—*
- Brown, Harold P., Jansen, and Schollenberger. 2,937,164.
- Jansen, Jan C., to Globex International Ltd. Method and apparatus for producing seamless capsules. 2,932,061, 4-12-60, Cl. 18—1.
- Jansen, Johannes J., to Bell Telephone Laboratories, Inc. Polarizing circuit for television signals or the like. 2,964,682, 12-13-60, Cl. 317—8.
- Jansen, Marinus J.: *See—*
- Lemmens, Hendrikus J., Jansen, Haayman, Knippenberg, and van der Linden. 2,925,514.
- Jansen, Richard E., and R. E. Ulrich, to Radio Corp. of America. Headset. 2,946,860, 7-26-60, Cl. 179—156.
- Jansky, Curtis M.: *See—*
- Cooper, Elmer D., and Jansky. 2,946,051.
- Janson, James H., to Associated Co., Inc. Apparatus for dispensing fabric articles. 2,959,264, 11-8-60, Cl. 194—4.
- Janson, Paul C.: *See—*
- Murphy, Robert D., and Janson. 2,947,403.
- Janson, Stefan K., to Ölin Mathieson Chemical Corp. Gas-operated automatic rifle having a plurality of barrels. 2,935,915, 5-10-60, Cl. 89—193.
- Jansons, Arnolds: *See—*
- Crise, Wilford P., and Jansons. 2,962,937.
- Janssen, Friedrich J.: *See—*
- Strating, Herman J., and Janssen. 2,920,353.
- Janssen, Herbert K.: *See—*
- Cosby, James R., and Janssen. 2,957,146.
- Janssen, Herbert K., and R. S. Wolf, to Bendix Aviation Corp. Tank circuit for radio-frequency transmitters and the like adapted for etched or printed circuitry technique. 2,933,704, 4-19-60, Cl. 333—82.
- Janssen, Jacobus H., to N.V. Janssen & Fritsen. Device for supporting one end of at least one rod. 2,955,852, 10-11-60, Cl. 287—20.
- Janssen, Johannes C., to North American Philips Co., Inc. Method of making a conductive vitreous seal. 2,964,881, 12-20-60, Cl. 49—82.
- Janssen, John E.: *See—*
- Penity, Robert D., and Janssen. 2,955,942.
- Janssen, Paul A. J. 4-phenyl-1,2,3,6-tetrahydropyridine-1-alkanoic acid amides. 2,929,818, 3-22-60, Cl. 260—295.
- Janssen, Paul A. J. (4-hydroxy-4-phenylpiperidine)alkanoic acid amides. 2,937,180, 5-17-60, Cl. 260—294.
- Janssen, Paul A. J. 1-(aroylalkyl)-4-(2'-pyridyl) piperazines. 2,958,694, 11-1-60, Cl. 260—268.
- Janssen, Peter J. H., to North American Philips Co., Inc. Line deflection circuit in television receivers. 2,924,749, 2-9-60, Cl. 315—27.
- Janssen, Peter J. H., to North American Philips Co., Inc. Circuit arrangement for compensating for variations in the supply direct voltage. 2,951,966, 9-6-60, Cl. 315—24.
- Janssen, Peter J. H., and W. Smeulers, to North American Philips Co., Inc. Frequency demodulator. 2,951,937, 9-6-60, Cl. 250—27.
- Janssen, Peter J. H., and C. P. A. G. van de Vijver, to North American Philips Co., Inc. Trigger circuit. 2,965,806, 12-20-60, Cl. 315—206.
- Jansson, Arnold O., to United-Carr Fastener Corp. Wiring clip. 2,928,637, 3-15-60, Cl. 248—68.
- Jansson, Ernst T., to Aktiebolaget Separator. Adjustable milking machine claw. 2,922,394, 1-26-60, Cl. 119—14.55.
- Jansson, Johannes G., to Aktiebolaget A. Ekstroms Maskinaffar. Viscosity responsive device. 2,962,891, 12-6-60, Cl. 73—55.
- Jansson, John, to AB. A Ekstroms Maskinaffar. Automatic controller for factors of combustion. 2,942,784, 6-28-60, Cl. 236—26.
- Jantzen, Johannes K., to Miehle-Goss-Dexter, Inc. Sheet transfer mechanism. 2,926,909, 3-1-60, Cl. 271—51.
- Janus, Alexander G., to Consumers Merchandising Corp. Wrapped bread and closure therefor. 2,943,944, 7-5-60, Cl. 99—173.



- Jaquery, Warren, to Chippewa Plastics Inc. Machine for heat sealing plastic material. 2,925,119, 2-16-60, Cl. 154-42.
- Jaquith, John S.: *See*—  
Teague, Walter D., Jr., and Jaquith. 2,939,017.
- Jaquith, John S., E. P. Tomaszek, and L. R. Smith, to Avco Mfg. Corp., Lycoming Division. Roll positioning system for toroidal variable ratio transmissions. 2,962,909, 12-6-60, Cl. 74-200.
- Jaramillo, Edward V., to General Electric Co. Cowled dome liner for combustors. 2,930,193, 3-29-60, Cl. 60-39.65.
- Jardine, Charles B. Centrifugal clutches. 2,954,109, 9-27-60, Cl. 192-105.
- Jarger, Harold F., to International Telephone and Telegraph Corp. Electromechanical filter arrangement. 2,928,057, 3-8-60, Cl. 333-71.
- Jarman, Edward R., to Jarman-Williamson Co. Resilient golf bag support. 2,945,657, 7-19-60, Cl. 248-96.
- Jarman-Williamson Co.: *See*—  
Jarman, Edward R. 2,945,657.  
Williamson, Norman B. 2,936,182.
- Jarnhs Elektriska Aktiebolag: *See*—  
Andersson, Arne O. R. 2,939,958.
- Jaroco Engineering Co.: *See*—  
Meek, Harold J. 2,940,410.
- Jaros, Robert L., to G. Miller. Liquid dispensing bottle stand. 2,925,235, 2-16-60, Cl. 248-153.
- Jaros, Stanley F. Gas cock with safety detent. 2,944,784, 7-12-60, Cl. 251-110.
- Jaroslaw, Alfred P. Disposable respirators. 2,928,388, 3-15-60, Cl. 128-147.
- Jarrell-Ash Co.: *See*—  
McNally, Frederick A. 2,941,443.
- Jarret, Jacques H. and J. M. B. Floating piston engines. 2,966,148, 12-27-60, Cl. 123-46.
- Jarret, Jean M. B.: *See*—  
Jarret, Jacques H. and J. M. B. 2,966,148.
- Jarrett, Charles R., and R. H. Price, to Saunders Valve Co. Ltd. Fluid controlling diaphragm valves. 2,955,616, 10-11-60, Cl. 137-620.
- Jarrett, Kenneth B., to Imperial Chemical Industries Ltd. Process for surface coating polymer particles in a vinyl chloride polymer latex with an aldehyde resin and product obtained thereby. 2,931,782, 4-5-60, Cl. 260-29.3.
- Jarry Hydraulics: *See*—  
Fullam, John P., and Gyurik. 2,959,410.
- Jarund, Harry S. V. Containers for tetrahedron shaped packages. 2,919,800, 1-5-60, Cl. 206-65.
- Järund, Harry S. V. Method of anchoring bolts. 2,930,199, 3-29-60, Cl. 61-45.
- Jarvie, Alexander G., and L. M. Hall, to General Electric Co. Tap or lead for foil wound electrical apparatus and method of making the same. 2,958,059, 10-25-60, Cl. 336-192.
- Jarvis, Kenneth W. Variable resistor. 2,927,367, 3-8-60, Cl. 29-155.68.
- Jarvis, John: *See*—  
Barlow, Roland J. and Jarvis. 2,929,584.
- Jarvis, John, to Cadillac Gage Co. Hydraulic accelerometer. 2,944,526, 7-12-60, Cl. 121-41.
- Jarvis, Kenneth W. Variable resistor. 2,948,874, 8-9-60, Cl. 338-167.
- Jarvis, Lactarie A., and J. B. Heinicke, to Whirlpool Corp. Thermoelectric assembly. 2,949,497, 8-16-60, Cl. 136-4.
- Jarvis, Ruth M., to Paperlynen Co. Combination headress and face mask. 2,964,757, 12-20-60, Cl. 2-173.
- Jarzembksi, William B., to Instruments, Inc. Fluid level control system. 2,932,315, 4-12-60, Cl. 137-392.
- Joseph, Lawrence F.: *See*—  
Arbogast, Duane J., and Joseph. 2,953,902.
- Jasheway, Edward E.: *See*—  
Winkler, Bernard C., and Jasheway. 2,937,850.
- Jasik, Andre. Pleated gloves and methods of and apparatus for making the same. 2,961,661, 11-29-60, Cl. 2-169.
- Jasik, Charles, and L. J. Merson. Terminal lug for wire wound resistor. 2,946,038, 7-19-60, Cl. 339-217.
- Jasik, Henry, to United States of America, Navy. Broad band balun transformer. 2,925,566, 2-16-60, Cl. 333-26.
- Jasik, Henry, to A. Alfred. Antenna structure. 2,945,232, 7-12-60, Cl. 343-807.
- Jasinowski, Walter J.: *See*—  
Chase, Corson W., Jasinowski, and Pedersen. 2,963,234.
- Jaskarzew, Maurice. Valve for high-pressure gas container. 2,944,567, 7-12-60, Cl. 137-625.3.
- Jaskey, Leo L. Golf cart. 2,955,834, 10-11-60, Cl. 280-42.
- Jaskowski, Norman J.: *See*—  
Walker, Walter B., and Jaskowski. 2,955,526.
- Jasper, Gabriel E.: *See*—  
Ford, Francis P., Jasper, Nelson, and Welch. 2,948,695.
- Jasper, Harry. Float for personal use. 2,946,068, 7-26-60, Cl. 9-347.
- Jasper Office Furniture Co.: *See*—  
Sturm, Max I. 2,961,284.
- Jasperson, Robert E. Automatic one-star navigational directors. 2,961,191, 11-22-60, Cl. 244-14.
- Jaspert, William B.: *See*—  
Sloan, Theodore H. 2,938,308.
- Jasphy, Irving: *See*—  
Flieg, Werner, and Jasphy. 2,957,523.
- Jasse, Joseph R., to Societe Nouvelle des Etablissements Brandt. Foldable fin arrangement for a projectile. 2,924,175, 2-9-60, Cl. 102-50.
- Jasse, Joseph R., to Ste: Hotchkiss-Brandt. Biped mortar mount. 2,938,433, 5-31-60, Cl. 89-37.
- Jasse, Joseph R., to Ste: Hotchkiss-Brandt. Percussion fuze. 2,938,463, 5-31-60, Cl. 102-71.
- Jasse, Joseph R., to Hotchkiss-Brandt. Base plate for mortars and the like. 2,940,364, 6-14-60, Cl. 89-37.
- Jasse, Joseph R., to Societe Nouvelle des Etablissements Brandt. Self-propelled projectile. 2,941,470, 6-21-60, Cl. 102-49.
- Jasse, Joseph R., to Hotchkiss-Brandt. Self-propelled projectile. 2,944,486, 7-12-60, Cl. 102-49.
- Jaster, Dan: *See*—  
Maciel, Anthony, Jr., and Jaster. 2,948,807.
- Jatcko, Joseph M.: *See*—  
Blatt, Leland F., and Jatcko. 2,934,040.
- Jauch, Christian M. J.: *See*—  
Goodhouse, Carl J., and Jauch. 2,943,159.
- Jauch, Eugen, to Siemens & Halske Aktiengesellschaft. Two-station party line switching in telephone systems. 2,933,561, 4-19-60, Cl. 179-17.
- Jauch, Eugen, and H. Topfer, to Siemens & Halske Aktiengesellschaft. Two-station party line switching in telephone systems. 2,923,775, 2-2-60, Cl. 179-17.
- Jauch, Martin, and A. Rilling, to Roto-Werke A.G. Apparatus for inking the ink roller of a printing machine, particularly stencil duplicating machines. 2,941,467, 6-21-60, Cl. 101-366.
- Jauernik, Edmund, to Fernseh G.m.b.H. Method and arrangement for producing electric advance impulses. 2,945,949, 7-19-60, Cl. 250-27.
- Jaul, Ernest, W. K. Langdon, and W. W. Lewis, to Wyandotte Chemicals Corp. Process for preparing oxyalkyleneamines. 2,928,877, 3-15-60, Cl. 260-584.
- Jaulmes, Eric, to Ateliers de la Molobecaue, Societe Anonyme Francaise. Transmission using a change speed gear with a single expandible pulley. 2,950,625, 8-30-60, Cl. 74-230.17.
- Jauss, Albert, to Bohm & Co. Apparatus for making ring closures. 2,936,485, 5-17-60, Cl. 18-19.
- Javery, Francis W., to Union Carbide Corp. Drilling jig. 2,932,195, 4-12-60, Cl. 77-63.
- Javid, Manucher: *See*—  
Settlage, Paul, and Javid. 2,960,439.
- Javna, Stephen L., E. G. Griffiths, and P. Small, to S. L. Javna and E. G. Griffiths. Game apparatus. 2,943,855, 7-5-60, Cl. 273-1.
- Jaworski, Ernest G.: *See*—  
Speziale, Angelo J., and Jaworski. 2,959,519.
- Jay, Charles H. Shower head control valve. 2,965,313, 12-20-60, Cl. 239-569.
- Jay, Frederic C., to Richmond Cedar Works Mfg. Corp. Ice crushing attachments for ice cream freezers. 2,941,733, 6-21-60, Cl. 241-101.
- Jay, George, and E. V. Rankins. Scale attachment for balers. 2,948,213, 8-9-60, Cl. 100-99.
- Jay, Kenneth W., to Orenda Engines Ltd. Fuel systems. 2,963,862, 12-13-60, Cl. 60-39.74.
- Jay, Theodore, Jr., to Sylvania Electric Products Inc. Electroluminescent device. 2,931,915, 4-5-60, Cl. 250-213.
- Jay, Theodore, Jr., to Sylvania Electric Products Inc. Electroluminescent device. 2,932,746, 4-12-60, Cl. 250-213.
- Jaycox, Richard L., and N. S. Most, to Collins Radio Co. Percentage pulsing circuit. 2,965,846, 12-20-60, Cl. 328-41.
- Jayne, Frank J., and M. Honeycutt, to General Electric Co. Filament connection for electric lamp or similar device. 2,950,413, 8-23-60, Cl. 313-271.
- Jayne, Theodore D., to Rand Development Corp. Getter. 2,965,218, 12-20-60, Cl. 206-4.
- Jaycox, Wilbur L.: *See*—  
Kustusch, Paul. 2,921,375.
- Jayo Corp.: *See*—  
Oppenheimer, Jess. 2,926,559.
- Jeanes, Allene R.: *See*—  
Benedict, Robert G., Jeanes, Wickerham, and Rogovin. 2,961,378.
- Jeanneret, Jules L. Arrangement for positioning the tool-holder on the transverse slide of a lathe or the like machine tool. 2,963,770, 12-13-60, Cl. 29-1.
- Jeannin, Robert A. A., to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Primary cell and method of manufacture. 2,942,054, 6-21-60, Cl. 136-83.
- Jeannotte, John: *See*—  
Silver, Samuel O., and Jeannotte. 2,933,971.
- Jeavons, Philip S.: *See*—  
Jakeman, Harry, and Jeavons. 2,961,265.
- Jeemen, James M., Jr. Freight elevator door latch. 2,936,046, 5-10-60, Cl. 187-59.
- Jeemen, John J. Astragal mounting. 2,923,984, 2-9-60, Cl. 20-69.
- Jedd, Jerry L.: *See*—  
Howell, Hugh A., and Jedd. 2,933,572.
- Jeddeloh, Otto G. Sheet loading mechanism for multideck conveyor. Re. 24,843, 7-12-60, Cl. 271-64.
- Jedlicka, Helmut. Ignition and operating arrangement for electric discharge lamps with preheatable incandescent cathodes. 2,933,645, 4-19-60, Cl. 315-100.
- Jedrzykowski, Edmund: *See*—  
Ferguson, Henry A., Boyle, and Jedrzykowski. 2,945,570.



- Jedrzykowski, Edmund, to International Harvester Co. Creeper speed drive mechanism for a vehicle. 2,923,171, 2-2-60, Cl. 74-664.
- Jeanel, Joachim: *See*—  
Amdahl, Lowell D., Havens, Jeanel, Schreiner, Cedarholm, and Eichenberger. 2,951,232.
- Havens, Byron L., Schreiner, Amdahl, Cedarholm, Jeanel, Meadows, and Mitchell. 2,957,626.
- Jefferies, Dick M. Earring having an adjustable clamping arm. 2,959,039, 11-8-60, Cl. 63-14.
- Jeffers, Walter M., to Crouse-Hinds Co. Control apparatus responsive to traffic density. 2,925,583, 2-16-60, Cl. 340-37.
- Jefferson Chemical Co., Inc.: *See*—  
Bedoit, William C., Jr. 2,923,690.
- Harwell, Kenneth E., and Peppel. 2,923,696.
- Jefferson, James F.: *See*—  
Bullen, Russell, and Jefferson. 2,933,264.
- Jefferson Lake Sulphur Co.: *See*—  
Sweet, Amos D., and Miller. 2,928,495.
- Jeffery, Harold, to Clayton Dewandre Co. Ltd. Power-operated steering mechanism for road vehicles. 2,932,283, 4-12-60, Cl. 121-41.
- Jeffords, Joseph. Silencer. 2,943,695, 7-5-60, Cl. 181-50.
- Jeffress, James W. Raising and lowering mechanism for vehicle stabilizing wheel. 2,960,351, 11-15-60, Cl. 280-293.
- Jeffrey Mfg. Co., The: *See*—  
Brake, Edgar R. 2,940,676.
- Couch, Karl W. 2,920,750.
- Everhart, Harold S. 2,960,209.
- Holt, Arthur D. 2,960,213.
- Knight, Lloyd K. 2,964,249.
- Moon, Sterling C. 2,927,681.
- Moon, Sterling C. 2,945,686.
- Moon, Sterling C. 2,948,552.
- Newton, William H. 2,952,361.
- Rhodes, Leslie A. 2,963,229.
- Jeffrey, Richard C.: *See*—  
Mayer, Rollin P., Jeffrey, Housman, and Thompson. 2,932,010.
- Jeffrey, William B., to Westinghouse Air Brake Co. Multiple valve unit and method of construction and assembly thereof. 2,923,311, 2-2-60, Cl. 137-315.
- Jefts, Albert W.: *See*—  
Quinlan, William J., and Jefts. 2,966,530.
- Jeglum, Norman L.: *See*—  
Aller, Willis F., and Jeglum. 2,962,165.
- Jeglum, Norman L., to The Sheffield Corp. Gaging device. 2,922,971, 1-26-60, Cl. 336-30.
- Jehle, Felix A.: *See*—  
Heilig, Harland E., and Jehle. 2,954,322.
- Jekat, Walter K., to Worthington Corp. Defrosting means for turbo-expanders. 2,921,804, 1-19-60, Cl. 236-9.
- Jekat, Walter K., J. H. Doolin, and T. R. Esatow, to Worthington Corp. Self-priming centrifugal pumps. 2,956,505, 10-18-60, Cl. 103-113.
- Jekelius, Kurt, to International Standard Electric Corp. Amplitude limiter, particularly for television signals. 2,923,768, 2-2-60, Cl. 178-71.
- Jelen, Frederic C., to Allied Chemical Corp. Separation of coatings from metal surfaces. 2,956,911, 10-18-60, Cl. 134-22.
- Jelinek, Charles F., and R. L. Mayhew, to General Aniline & Film Corp. Foaming detergent compositions. 2,941,951, 6-21-60, Cl. 252-161.
- Jelinek, Erwin, to Kroehler Mfg. Co. Reclining chair. 2,953,194, 9-20-60, Cl. 155-106.
- Jellesma, Anne, to W. Hubert & Co., Maschinenfabrik N.V. System for handling sewage water and the like. 2,933,189, 4-19-60, Cl. 210-174.
- Jelley, Gordon A.: *See*—  
Wintle, Thomas D. G., and Jelley. 2,933,577.
- Jelley, Gordon A., to J. A. Crabtree & Co. Ltd. Thermal overload protection devices for motor starting switches. 2,961,517, 11-22-60, Cl. 200-122.
- Jellinek, Ernest, to Electronics Corp. of America. Electrical gas tube control circuits with reset. 2,925,539, 2-16-60, Cl. 317-149.
- Jellinek, Maurice H.: *See*—  
Johnson, Gordon C., and Jellinek. 2,957,839.
- Jellinek, Maurice H., to Union Carbide Corp. Water soluble silane compositions and process for treating fibrous glass materials. 2,965,515, 12-20-60, Cl. 117-126.
- Jeltsch, Arnold E., to Koppers Co., Inc. Process for preparation of tris-(pentachlorophenyl) phosphate. 2,931,823, 4-5-60, Cl. 260-461.
- Jen, Yun, to American Cyanamid Co. Graft polymer and method of making. 2,958,673, 11-1-60, Cl. 260-455.
- Jen, Yun, and R. R. House, to American Cyanamid Co. Wet strength paper containing linear polyamide resin. 2,948,652, 8-9-60, Cl. 162-166.
- Jenaer Glaswerk Schott & Gen.: *See*—  
Eden, Carsten. 2,926,208.
- Eden, Carsten. 2,928,887.
- Jencks, Charles L., to General Electric Co. Undervoltage trip device. 2,938,980, 5-31-60, Cl. 200-106.
- Jend, Henry W. G. Fishhook covers. 2,932,118, 4-12-60, Cl. 43-37.5.
- Jendrisak, Aloysius A.: *See*—  
Jendrisak, Andrew L. and A. A. 2,956,611.
- Jendrisak, Andrew L. and A. A., to The Brittain Products Co. Method and apparatus for joining together hollow plastic ball halves. 2,936,611, 10-18-60, Cl. 154-1.
- Jendrassik, Clara: *See*—  
Jendrassik, George. 2,946,184.
- Jendrassik Developments Ltd.: *See*—  
Jendrassik, George. 2,946,184.
- Jendrassik, George, deceased; A. G. T. Boszormenyi and C. Jendrassik, executors, to Jendrassik Developments Ltd. Pressure exchangers and applications thereof. 2,946,184, 7-26-60, Cl. 60-35.6.
- Jenkel, Edward M.: *See*—  
Purdy, Bruce B., and Jenkel. 2,951,508.
- Jenkins, Arthur P.: *See*—  
Coote, Jack H., and Jenkins. 2,960,911.
- Jenkins, Carlton H., to The Martin Co. Cutting tool. 2,929,299, 3-22-60, Cl. 90-12.
- Jenkins, Cecil: *See*—  
Woolslayer, Homer J., and Jenkins. 2,934,905.
- Woolslayer, Homer J., and Jenkins. 2,963,124.
- Woolslayer, Homer J., Jenkins, Maxwell, and Born. 2,963,123.
- Jenkins, David. Holder for floor and wall cleaning devices. 2,932,049, 4-12-60, Cl. 15-148.
- Jenkins, David. Floor cleaning and conditioning device. 2,940,104, 6-14-60, Cl. 15-131.
- Jenkins, David F., and M. C. Klatt. Control valve for regulating brake applying pressure. 2,927,608, 3-8-60, Cl. 137-620.
- Jenkins, Edward L., to Pittsburgh Plate Glass Co. Electric gun for glass rolling machine. 2,941,334, 6-21-60, Cl. 49-33.
- Jenkins, Ellen B.: *See*—  
Blatz, Peter A. 2,956,427.
- Jenkins, Frank J.: *See*—  
Wittl, Casimir T., and Jenkins. 2,964,139.
- Jenkins, Fred W.: *See*—  
Monson, Louis T., and Jenkins. 2,944,978.
- Jenkins, Henry G., and C. E. Williams, to The General Electric Co. Ltd. Low pressure electric discharge lamps. 2,965,778, 12-20-60, Cl. 313-33.
- Jenkins, Herbert A. H., D. B. Freeman, and G. R. King, to The Parker Rust Proof Co. Fluoride coating on zirconium. 2,955,061, 10-4-60, Cl. 148-614.
- Jenkins, Herbert V., to Resistoflex Corp. Pressure preforming of flexible hose. 2,932,065, 4-12-60, Cl. 18-56.
- Jenkins, James H.: *See*—  
Crockford, Jack A., Hayes, Feurt, Jenkins, and Palmer. 2,923,243.
- Jenkins, James M., to Andale Co. Means for simultaneously actuating opposed disc valves in a duplex strainer. 2,921,687, 1-19-60, Cl. 210-341.
- Jenkins, Joseph B., to Armour and Co. Patty molding devices. 2,958,093, 11-1-60, Cl. 17-32.
- Jenkins, Lloyd T.: *See*—  
Campbell, Charles H., and Jenkins. 2,932,661.
- Jenkins, Malcolm V. Folding disposable toothbrush rack. 2,957,584, 10-25-60, Cl. 211-65.
- Jenkins Metal Shops, Inc.: *See*—  
Lynch, Benjamin W., Jr. 2,953,823.
- Jenkins, Philip A., to The Distillers Co. Ltd. Production of chloroprene. 2,942,037, 6-21-60, Cl. 260-655.
- Jenkins, Philip A., to The Distillers Co. Ltd. Production of chloroprene. 2,942,038, 6-21-60, Cl. 260-655.
- Jenkins, Philip A., to The Distillers Co. Ltd. Production of chloroprene. 2,948,761, 8-9-60, Cl. 260-655.
- Jenkins, Rodman, to Socony Mobil Oil Co., Inc. Underground hydrogenation. 2,937,987, 5-24-60, Cl. 208-108.
- Jenkins, Seth P.: *See*—  
Collins, Jay C., and Jenkins. 2,922,870.
- Jenkins, Sidney H., Jr., and J. O. Punderson, to E. I. du Pont de Nemours and Co. Preparation of formaldehyde polymers with improved thermal stability. 2,964,500, 12-13-60, Cl. 260-67.
- Jenkins, Starling E., to Koppers Co., Inc. Hold-down apparatus. 2,945,523, 7-19-60, Cl. 144-290.
- Jenkins, William P. Dead-locking jamb bolt. 2,920,914, 1-12-60, Cl. 292-67.
- Jenkner, Herbert, to Kali-Chemie Aktiengesellschaft. Preparation of alkylfluosilanes by the reaction of fluosilicates with aluminum trialkyls. 2,921,951, 1-19-60, Cl. 260-448.2.
- Jenkner, Herbert, to Kali-Chemie Aktiengesellschaft. Alkylation of chlorinated silanes. 2,945,874, 7-19-60, Cl. 260-448.2.
- Jenkner, Herbert, to Kali-Chemie Aktiengesellschaft. Preparation of boron alkyls. 2,945,887, 7-19-60, Cl. 260-606.5.
- Jenks, Carl W., and J. B. Niles, to The Stutz Co. Article treating and plating apparatus. 2,921,009, 1-12-60, Cl. 204-213.
- Jenks, John D., to Ford Motor Co. Pulsating fluid flow meter. 2,933,924, 4-26-60, Cl. 73-194.
- Jenks, William R.: *See*—  
Green, Charles P., and Jenks. 2,944,344.
- Jennen, Jacob J., and H. P. Eerdekens, to Gevaert Photo-Producten N.V. Mono-acetyl indazolone color couplers. 2,964,402, 12-13-60, Cl. 96-55.
- Jennerman, Fred W. Combination blasting tool. 2,930,277, 3-29-60, Cl. 86-22.
- Jenness, James R., Jr.: *See*—  
Shimukonis, Frank J., and Jenness. 2,927,212.



- Jenness, James R., Jr. Neutral filter for near ultraviolet, visible, and near infrared radiation. 2,954,349, 9-27-60, Cl. 252-300.
- Jenness, Raymond C., to Allis-Chalmers Mfg. Co. Assembly having fluid pressure means for the removal of tightly fitted parts. 2,946,610, 7-26-60, Cl. 287-52.
- Jenness, Raymond C., and E. F. Rossi, to Allis-Chalmers Mfg. Co. Nonleaking bearing assembly. 2,957,732, 10-25-60, Cl. 308-365.
- Jenney, David S., to United Aircraft Corp. Helicopter rotor. 2,934,151, 4-26-60, Cl. 170-160.13.
- Jenney, John W., and R. C. Rahn, to Diamond Alkali Co. Paraffin wax chlorination process. 2,941,013, 6-14-60, Cl. 260-666.
- Jenney, Theodore M., to Food Machinery and Chemical Corp. Production of hydrogen peroxide by slurrying the anthraquinone working solution. 2,966,398, 12-27-60, Cl. 23-207.
- Jennings, Charles O., to E. I. du Pont de Nemours and Co. Slit machine windup mechanism. 2,944,754, 7-12-60, Cl. 242-68.3.
- Jennings, Clyde S.: *See*—  
Baldwin, Robert P., Jennings, and Eckert. 2,959,416.
- Jennings, George F.: *See*—  
Leslie, Robert W., and Jennings. 2,963,152.
- Jennings, Gerald P., to Phillips Petroleum Co. Centrifugal pump throttling controller. 2,925,784, 2-23-60, Cl. 103-97.
- Jennings, Gresham N., to General Electric Co. Brake mechanism for clothes washing machines. 2,946,409, 7-26-60, Cl. 188-134.
- Jennings, Jarvis S., to Hoof Products Co. Roller flyweight governor. 2,926,901, 3-1-60, Cl. 264-17.
- Jennings, Jo E., to Jennings Radio Mfg. Corp. Coaxial switch. 2,920,168, 1-5-60, Cl. 200-144.
- Jennings, Jo E., to Jennings Radio Mfg. Corp. Vacuumized electric switch. 2,920,169, 1-5-60, Cl. 200-144.
- Jennings, Jo E., to Jennings Radio Mfg. Corp. Vacuum switch. 2,966,569, 12-27-60, Cl. 200-144.
- Jennings, Jo E., and L. B. Steward, to Jennings Radio Mfg. Corp. Condenser plate structure and mounting. 2,957,113, 10-18-60, Cl. 317-245.
- Jennings, Jo E., and H. C. Ross, to Jennings Radio Mfg. Corp. Vacuum insulated current transformer. 2,957,150, 10-18-60, Cl. 336-174.
- Jennings, Jo E., and H. C. Ross, to Jennings Radio Mfg. Corp. Current transformer. 2,957,151, 10-18-60, Cl. 336-174.
- Jennings, Joseph F.: *See*—  
Lee, Robert J., and Jennings. 2,960,462.
- Jennings, Joseph F., and R. C. Binning, to The American Oil Co. Organic chemical reactions involving liberation of water. 2,956,070, 10-11-60, Cl. 260-410.9.
- Jennings Machine Corp.: *See*—  
Distler, Edward C. 2,928,666.  
Distler, Edward C. 2,941,240.  
Jennings, Jo E., and Ross. 2,957,150.  
Jennings, Jo E., and Ross. 2,957,151.  
Jennings, Jo E., and Steward. 2,957,113.  
Scharf, Herbert D. 2,956,717.
- Jennings, Marvin D., to International Harvester Co. Two-way plow. 2,935,143, 5-3-60, Cl. 172-226.
- Jennings Radio Mfg. Corp.: *See*—  
Alvernaz, Emanuel P. 2,947,860.  
Jennings, Jo E. 2,920,168.  
Jennings, Jo E. 2,920,169.  
Jennings, Jo E. 2,966,569.  
Luft, Harold A. 2,920,255.  
Steward, Lewis B. 2,938,092.  
Steward, Lewis B., and Hawkins. 2,920,162.
- Jennings, Samuel J., to Community Gin Co. Rotary knife cotton gin. 2,933,770, 4-26-60, Cl. 19-50.
- Jennings, William A., to Economy Forms Corp. Adjustable brace connector unit. 2,945,662, 7-19-60, Cl. 248-354.
- Jenny, Dietrich A., and D. Meyerhofer, to Radio Corp. of America. Semiconductor devices and methods of making them. 2,956,216, 10-11-60, Cl. 317-235.
- Jense, Willem F., J. L. van der Minne, and P. H. J. Hermanie, to Shell Development Co. Water-in-oil emulsion lubricants. 2,927,079, 3-1-60, Cl. 252-33.3.
- Jensen, Alan K., to Monroe Calculating Machine Co. Bistable transistor circuit. 2,946,898, 7-26-60, Cl. 307-88.5.
- Jensen, Alfred. Power actuated shear. 2,922,458, 1-26-60, Cl. 153-2.
- Jensen, Arnold B., and H. J. Ellsworth. Method and apparatus for dispensing liquid fuel. 2,956,413, 10-18-60, Cl. 62-51.
- Jensen, Arthur E. Power unit for moving pipe lines. 2,946,515, 7-26-60, Cl. 239-212.
- Jensen, Arthur S., to Radio Corp. of America. Diagonal coded quantizing signal transmission. 2,920,141, 1-5-60, Cl. 179-15.
- Jensen, Christian Ø. Machine for the chopping of stable manure. 2,943,802, 7-5-60, Cl. 241-186.
- Jensen, Christian O. Tractor driven machine for the distribution of a mixture of chopped stable manure and manure sludge. 2,959,329, 11-8-60, Cl. 222-178.
- Jensen, Dahlen M. Auxiliary visor. 2,958,559, 11-1-60, Cl. 296-97.
- Jensen, Darwin P., J. R. Jones, and J. M. Wilhelm, to Douglas Aircraft Co., Inc. Dry film lubrication. 2,939,809, 6-7-60, Cl. 148-6.17.
- Jensen, Del W.: *See*—  
McRee, William, and Jensen. 2,922,486.
- Jensen, Duane A.: *See*—  
Sparks, Verner W., and Jensen. 2,926,793.
- Jensen, Earl L., and R. E. Washington, to Boeing Airplane Co. Aircraft control surface internal air pressure balances. 2,945,651, 7-19-60, Cl. 244-90.
- Jensen, Elwood V., to Research Corp. 3-oxygenated-20-keto-21-fluoropregnanes. 2,953,581, 9-20-60, Cl. 260-397.3.
- Jensen, Erik H., to The Upjohn Co. Stable aqueous suspension of piperazine-carbon disulfide complex. 2,951,009, 8-30-60, Cl. 167-53.
- Jensen, Eyvind Egå, to Kooperativa Forbundet Ekonomisk Forening. Electrically controlled printing apparatus. 2,953,983, 9-27-60, Cl. 101-93.
- Jensen, Finn, and T. J. Sweger, to Illinois Railway Equipment Co. Lading tie anchor. 2,930,330, 3-29-60, Cl. 105-369.
- Jensen, Frank V. Food broiling oven. 2,928,524, 3-15-60, Cl. 198-76.
- Jensen, Fritz, to North American Philips Co., Inc. Radiation projector and shielding means. 2,936,378, 5-10-60, Cl. 250-106.
- Jensen, Garold K., to United States of America, Navy. Read-out system. 2,942,107, 6-21-60, Cl. 250-27.
- Jensen, Garold K., to United States of America, Navy. Staircase generator with means including clamp for adjusting steps without interaction between consecutive staircases. 2,963,654, 12-6-60, Cl. 328-186.
- Jensen, Gerald A., and J. J. Szczurko, to Avco Mfg. Co. Shock testing machine. 2,955,456, 10-11-60, Cl. 73-12.
- Jensen, Hans, to Gits Bros. Mfg. Co. Packing for face type seals. 2,966,374, 12-27-60, Cl. 286-11.14.
- Jensen, Iwer F. Ice skate stabilizers. 2,920,897, 1-12-60, Cl. 280-11.12.
- Jensen, Jack H. Corner reflector antenna. 2,926,349, 2-23-60, Cl. 343-840.
- Jensen, James A., to Philadelphia Valve Co. Re-fueling nozzles. 2,966,167, 12-27-60, Cl. 137-222.
- Jensen, James L., to Minneapolis-Honeywell Regulator Co. Semiconductor apparatus. 2,959,726, 11-8-60, Cl. 321-18.
- Jensen, James L., to Minneapolis-Honeywell Regulator Co. Semiconductor voltage regulator apparatus. 2,965,833, 12-20-60, Cl. 323-45.
- Jensen, Jens, to J. Speaks. Lubrication for two-stroke cycle engines. 2,936,748, 5-17-60, Cl. 123-196.
- Jensen, Joseph W., to Collins Radio Co. Holding means. 2,964,816, 12-20-60, Cl. 24-221.
- Jensen, Lloyd B.: *See*—  
Riehart, Cleo A., and Jensen. 2,966,415.
- Jensen, Louis, to Uarco, Inc. Continuous-form stationery adaptor for typewriters. 2,929,481, 3-22-60, Cl. 197-133.
- Jensen, Luhr, Jr., to Luhr Jensen & Sons. Fishing lure. 2,931,123, 4-5-60, Cl. 43-41.
- Jensen, Luhr, & Sons: *See*—  
Jensen, Luhr, Jr. 2,931,123.
- Jensen, Melvin J. Eviscerating tool. 2,943,346, 7-5-60, Cl. 17-11.
- Jensen, Otto, to I-T-E Circuit Breaker Co. Mechanical rectifier for arc furnace. 2,927,143, 3-1-60, Cl. 13-12.
- Jensen, Otto, to I-T-E Circuit Breaker Co. Explosive type short circuiter. 2,932,708, 4-12-60, Cl. 200-126.
- Jensen, Otto, to I-T-E Circuit Breaker Co. Semi-conductor protective means. 2,932,781, 4-12-60, Cl. 321-12.
- Jensen, Philip B.: *See*—  
Janes, Edmund D., and Jensen. 2,920,325.
- Jensen, Raymond W.: *See*—  
Silver, Alexander, and Jensen. 2,938,537.
- Jensen, Raymond W., to The Garrett Corp. Fluid flow control system. 2,922,431, 1-26-60, Cl. 137-117.
- Jensen, Raymond W., to The Garrett Corp. Pneumatic temperature control mechanism. 2,961,163, 11-22-60, Cl. 236-13.
- Jensen, Raymond W., to The Garrett Corp. Cabin temperature system. 2,966,308, 12-27-60, Cl. 236-82.
- Jensen, Raymond W., and J. H. Riley, to The Garrett Corp. Shutoff valve. 2,938,533, 5-31-60, Cl. 137-219.
- Jensen, Raymond W., L. T. King, and R. M. Bush, to The Garrett Corp. Fluid motor. 2,948,265, 8-9-60, Cl. 121-39.
- Jensen, Robert A., to International Business Machines Corp. Serial word checking circuit. 2,955,756, 10-11-60, Cl. 235-153.
- Jensen, Robert V., and F. D. Rosi, to Radio Corp. of America. Thermoelectric materials. 2,957,937, 10-25-60, Cl. 136-5.
- Jensen-Salsbery Laboratories, Inc.: *See*—  
Austin, James A., and Wiegand. 2,937,973.
- Jensen, Thormod, to St. Regis Paper Co. Floating mounting for a laminating roll. 2,925,118, 2-16-60, Cl. 154-37.
- Jensen, Warren R., to Raybestos-Manhattan, Inc. Liquid cooled hydraulically actuated brake. 2,946,412, 7-26-60, Cl. 188-264.
- Jensen, Warren R., and A. Lacroix, Jr., to Raybestos-Manhattan, Inc. Friction devices. 2,940,556, 6-14-60, Cl. 188-264.
- Jensen, William G., and J. A. Kany, to Ford Motor Co. Electrical switching circuit for power transmission mechanism range selector. 2,925,076, 2-16-60, Cl. 123-179.
- Jensen, William K.: *See*—  
Johnson, Elbert L., and Jensen. 2,962,689.
- Jensen, William K., to General Motors Corp. Electrical antenna control circuit. 2,933,597, 4-19-60, Cl. 250-16.



- Jensen, William T.: *See*—  
McGinley, William J., and Jensen. 2,953,770.
- Jenson, Kenneth S., to Preway, Inc. Burner control. 2,949,236, 8-16-60, Cl. 236-48.
- Jenssen, Sverre K., to Aktiebolaget Rosenblads Patenters. Heat exchangers of the plate type. 2,952,444, 9-13-60, Cl. 257-245.
- Jentzen-Miller Co.: *See*—  
Jentzen, Sydney W. 2,961,280.
- Jentzen, Sydney W., to Jentzen-Miller Co. Language laboratory student station. 2,961,280, 11-22-60, Cl. 311-105.
- Jeppson, Morris R., to Applied Radiation Corp. Electron gun and cathode. 2,932,755, 4-12-60, Cl. 313-85.
- Jeppson, Morris R., to Applied Radiation Corp. Thermally insulated wall structure. 2,961,116, 11-22-60, Cl. 220-9.
- Jepsen, Robert L., to Varian Associates. Apparatus for suppression of multipactor. 2,939,037, 5-31-60, Cl. 315-5.52.
- Jepsen, Robert L., and P. H. Kafitz, to Varian Associates. Ion draining structures. 2,963,605, 12-6-60, Cl. 313-68.
- Jepsen, Terman J. C. Tethered ball. 2,948,532, 8-9-60, Cl. 273-58.
- Jepson, Ivar, to Sunbeam Corp. Electric heating and cooking device. 2,924,698, 2-9-60, Cl. 219-44.
- Jepson, Ivar, to Sunbeam Corp. Multiple blade rotary power mower. 2,926,478, 3-1-60, Cl. 56-25.4.
- Jepson, Ivar, to Sunbeam Corp. Combined container and display stand. 2,926,779, 3-1-60, Cl. 206-45.19.
- Jepson, Ivar, to Sunbeam Corp. Electric cooking vessel and method of making same. 2,937,261, 5-17-60, Cl. 219-44.
- Jepson, Ivar, to Sunbeam Corp. Sadiron. 2,940,195, 6-14-60, Cl. 38-77.
- Jepson, Ivar, to Sunbeam Corp. Head for electrically operated hair clipping and shaving device. 2,948,063, 8-9-60, Cl. 30-43.
- Jepson, Ivar, to Sunbeam Corp. Abrading machine. 2,948,088, 8-9-60, Cl. 51-166.
- Jepson, Ivar, to Sunbeam Corp. Lawn sprinkler. 2,952,413, 9-13-60, Cl. 239-242.
- Jepson, Ivar, to Sunbeam Corp. Knife sharpener. 2,958,987, 11-8-60, Cl. 51-116.
- Jepson, Ivar, to Sunbeam Corp. Lawn mower. 2,962,854, 12-6-60, Cl. 56-25.4.
- Jepson, Ivar, and L. J. Koci, to Sunbeam Corp. Controlled heat cooking vessel. 2,931,884, 4-5-60, Cl. 219-44.
- Jepson, Stanley R., to Eitel-McCullough, Inc. Electron tube. 2,939,032, 5-31-60, Cl. 313-256.
- Jeremiah, Earl E., to National Can Corp. Machine for applying wax to can ends. 2,944,510, 7-12-60, Cl. 118-233.
- Jeremiah, Earl E., to United Can & Glass Co. Method for handling cans. 2,944,688, 7-12-60, Cl. 214-152.
- Jergens, John G.: *See*—  
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- Jerger, Edward W.: *See*—  
De Cicco, Michael A., and Jerger. 2,953,907.
- Jergins, Harvey L.: *See*—  
Yearout, Dean K., and Jergins. 2,944,258.
- Jerman, Joseph A., to Borg-Warner Corp. Article handling and working apparatus. 2,933,105, 4-19-60, Cl. 137-622.
- Jermyn, Arthur C. Inserts for artificial teeth. 2,941,295, 6-21-60, Cl. 32-2.
- Jernakoff, George, to General Electric Co. Interval stretcher. 2,957,141, 10-18-60, Cl. 328-129.
- Jernander, Alvin A., to K-P Mfg. Co. Grease gun with special multi functional plunger. 2,941,854, 6-21-60, Cl. 309-23.
- Jerothe, Rudolph A., to Toscony, Inc. Film embossing roll. 2,965,018, 12-20-60, Cl. 101-31.
- Jerrit, George, to Mavor & Coulson Ltd. Cutter bar tensioning means. 2,937,015, 5-17-60, Cl. 262-30.
- Jerrit, George, to Mavor & Coulson Ltd. Pick boxes for cutter chains of mining machines. 2,941,789, 6-21-60, Cl. 262-33.
- Jerrold Electronics Corp.: *See*—  
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- Jerry, Frederick L. Hair pulling tweezers. 2,934,070, 4-26-60, Cl. 128-354.
- Jersey Production Research Co.: *See*—  
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- Anderson, Roy E., Cole, Kenneday, and Lamberson. 2,963,092.
- Annis, Max R., and Brooks. 2,920,201.
- Ball, John D. 2,939,107.
- Ball, John D. 2,943,262.
- Beck, Robert W. 2,942,851.
- Beck, Robert W. 2,959,015.
- Blood, Robert H. 2,959,226.
- Blood, Robert H., and Bridwell. 2,942,667.
- Boer, George, and True. 2,927,645.
- Boucher, Frank G. 2,951,682.
- Bower, Edward R. 2,931,309.
- Bradley, William R., Jr. 2,923,055.
- Brannon, Hezzie R., Jr. 2,951,941.
- Buchan, Rudolph C. 2,951,368.
- Buck, Henry M. 2,927,641.
- Buck, Henry M. 2,934,947.
- Buck, Henry M. 2,942,462.
- Calvert, John G., and Corley. 2,951,445.
- Camp, John M., Eckel, and Sons. 2,951,680.
- Charske, Charles J., and Hubbard. 2,938,592.
- Chernosky, Allen A. 2,920,307.
- Cole, Richard C., and Focht. 2,963,090.
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- Jersey Production Research Co.: *See*—Continued  
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- Diodene, John A. 2,951,363.
- Draper, Arthur L. 2,927,637.
- Eckel, John E., and Kellner. 2,935,133.
- Farrington, William B. 2,927,459.
- Feagin, Frank J., MacPhail, and Rust. 2,927,656.
- Feagin, Frank J., MacPhail, and Rust. 2,928,071.
- Feagin, Frank J., and Wischmeyer. 2,920,306.
- Graham, John W., and Osoba. 2,951,940.
- Guy, Arthur L., and Castellanos. 2,954,676.
- Heilman, William O., and Reilly. 2,924,276.
- Hildebrandt, Alexander B. 2,923,358.
- Hildebrandt, Alexander B. 2,927,775.
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- Horeth, John M. 2,924,810.
- Hutchison, John S., and Hildebrandt. 2,946,643.
- Jones, Marvin R. 2,946,386.
- Kanady, William E., and Woods. 2,963,179.
- Kenneday, John W. 2,927,640.
- Knapp, Richard P. 2,938,354.
- Knapp, Richard P. 2,946,198.
- Knapp, Richard P., and Parks. 2,938,352.
- Knapp, Richard P., and Walvoord. 2,919,671.
- Lindauer, Robert L., Jr. 2,947,873.
- Maneval, Richard L. 2,951,738.
- Martin, Richard L. 2,951,538.
- McCarter, Ed R. 2,952,006.
- McCune, John S. 2,935,131.
- Meadors, Victor G. 2,920,041.
- Meredith, Henry H., Jr., and Die. 2,927,642.
- Monaghan, Patrick H. 2,934,955.
- Mounce, Whitman D., and Barry. 2,942,669.
- Muench, Nils L. 2,946,889.
- Nelson, Norman A. 2,954,693.
- Nelson, Norman A. 2,954,801.
- Parks, Mercer H. 2,959,016.
- Peters, Beldon A. 2,935,633.
- Peters, Beldon A., and Rickard. 2,946,886.
- Pitts, William A. 2,927,431.
- Rachford, Henry H., Jr. 2,951,367.
- Reistle, Carl E., Jr. 2,954,841.
- Rickard, James A. 2,943,200.
- Rickard, James A. 2,963,586.
- Rickard, James A. 2,963,587.
- Roberts, Alan P. 2,959,225.
- Rumble, Robert C. 2,962,895.
- Sasseen, John H. 2,963,682.
- Sasseen, John H., Ball, and Feagin. 2,951,976.
- Schmuck, Rudolph H. 2,959,240.
- Stark, William J., and Wilcox. 2,935,723.
- Tausch, Gilbert H. 2,935,134.
- Tausch, Gilbert H., and Kenneday. 2,938,584.
- Thompson, Gene D. 2,931,438.
- True, Martin E. 2,935,615.
- True, Martin E. 2,959,055.
- True, Martin E., and Boer. 2,942,666.
- Williams, Philip S. 2,920,308.
- Williams, Philip S. 2,946,565.
- Jertson, Earl C., to Marine Colloid, Inc. Marine harvester comprising a chain rake. 2,941,344, 6-21-60, Cl. 56-9.
- Jeru, Henri. Machine for cutting metal sheets. 2,936,080, 5-10-60, Cl. 214-1.
- Jervis Corp.: *See*—  
Jacobson, Edwin B. 2,931,245.
- Rop, James O. 2,948,560.
- Wilkie, Wallace J. 2,922,340.
- Jesse, Edwin L.: *See*—  
Reiss, Raymond H., Hahn, and Jesse. 2,929,276.
- Jesse, Walter A. Plunger means for mortar gun. 2,958,445, 11-1-60, Cl. 222-386.
- Jessen, Wilbur G. Luggage carrier for the tops of automotive vehicles. 2,922,557, 1-26-60, Cl. 224-42.1.
- Jessup, Carl. Cable lift for railroad car appliances. 2,928,657, 3-15-60, Cl. 254-144.
- Jessup, John M., to Sperry Rand Corp. Horizon indicator. 2,940,176, 6-14-60, Cl. 33-204.
- Jessup, Wilbur F., and R. H. Weisgerber, to The Cincinnati Milling Machine Co. Grinding machine truing mechanism. 2,930,373, 3-29-60, Cl. 125-11.
- Jet Electric Shaver Corp.: *See*—  
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- Jeter, Harold W.: *See*—  
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- Jetgo Mfg. Co.: *See*—  
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- Jet-Heet, Inc.: *See*—  
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- MacCracken, Calvin D. 2,927,434.
- MacCracken, Calvin D. 2,930,594.
- MacCracken, Calvin D. 2,940,255.
- MacCracken, Calvin D. 2,961,050.
- MacCracken, Calvin D., and Olschner. 2,936,792.
- MacCracken, Calvin D., and Relph. 2,928,612.
- Miles, George N. 2,935,029.
- Jet Ignition Co., Inc.: *See*—  
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- Jet Industries Corp.: *See*—  
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- Jet Line Products, Inc.: *See*—  
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- Jet Lines Products Co., Inc.: *See*—  
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- Jet Research Center, Inc.: *See*—  
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- Jetric Industries, Inc.: *See*—  
Weinger, Ralph. 2,937,244.
- Jette, Emile. Combined knitting and sewing machine. 2,935,862, 5-10-60, Cl. 66—1.
- Jette, Emile. Combined knitting and sewing machine. 2,959,837, 11-15-60, Cl. 28—77.
- Jetter, George G. Handle operated force-feed wax applicator. 2,958,887, 11-8-60, Cl. 15—131.
- Jettinghoff, Paul F., to The Bendix Corp. Gaseous fuel carburetor. 2,957,759, 10-25-60, Cl. 48—180.
- Jewell, Joseph W., to The M. W. Kellogg Co. Method for transferring solids from a stripping zone. 2,962,436, 11-29-60, Cl. 208—164.
- Jewell, Lee: *See*—  
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- Jewell, Richard G.: *See*—  
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- Jewell, Raymond L., to American Sterilizer Co. Bed pan rinsing structure. 2,956,285, 10-18-60, Cl. 4—7.
- Jewell, Robert A., and J. T. Watters, to Great Dane Trailers, Inc. Vehicle body and structural elements therefor. 2,934,372, 4-26-60, Cl. 296—28.
- Jewens, Richard H.: *See*—  
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- Jewett, Henry J.: *See*—  
Hurd, George E., Jr., and Jewett. 2,929,586.
- Jex, Victor B.: *See*—  
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- Jex, Victor B., and D. L. Bailey, to Union Carbide Corp. Tris(alkoxyisilylpropyl) amines. 2,920,095, 1-5-60, Cl. 260—448.8.
- Jex, Victor B., and D. L. Bailey, to Union Carbide Corp. Method for preparing copolymeric organopolysiloxanes. 2,921,950, 1-19-60, Cl. 260—448.2.
- Jex, Victor B., and D. L. Bailey, to Union Carbide Corp. Aminoalkyl silicon compounds and process for producing same. 2,930,809, 3-29-60, Cl. 260—448.8.
- Jex, Victor B., and D. L. Bailey, to Union Carbide Corp. Bis(alkoxyisilylpropyl) amines. 2,943,103, 6-28-60, Cl. 260—448.8.
- Jeyes' Sanitary Compounds Co. Ltd.: *See*—  
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- Jezeq, Henry J.,  $\frac{1}{2}$  to L. F. Jezeq. Cleaner for cotton stripper. 2,942,398, 6-28-60, Cl. 56—34.
- Jezeq, Louis F.: *See*—  
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- Jezi, Anton. Door alarm. 2,922,150, 1-19-60, Cl. 340—275.
- Jezi, James L.: *See*—  
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- Jezi, James L., to Sun Oil Co. Petroleum refining. 2,921,896, 1-19-60, Cl. 208—212.
- Jezi, James L., to Sun Oil Co. Refining of mineral oil. 2,927,077, 3-1-60, Cl. 208—282.
- Jezi, James L., to Sun Oil Co. Viscosity index and oxidation stability of lubricating oil. 2,928,788, 3-15-60, Cl. 208—314.
- Jezi, James L., to Sun Oil Co. Internal combustion engine lubricant. 2,931,775, 4-5-60, Cl. 252—51.5.
- Jezi, James L., to Sun Oil Co. Polymerization of olefins with complex catalyst. 2,935,496, 5-3-60, Cl. 260—88.2.
- Jezi, James L., to Sun Oil Co. Mineral oil antioxidant. 2,940,933, 6-14-60, Cl. 252—47.5.
- Jezi, James L., to Sun Oil Co. Separation of wax from oil. 2,949,418, 8-16-60, Cl. 208—31.
- Jezi, James L., to Sun Oil Co. Polymerization of 2-olefins. 2,956,989, 10-18-60, Cl. 260—88.2.
- Jezi, James L., to Sun Oil Co. Phenol salts of polyester- amines and their use as fungicides or rodent repellents. 2,957,850, 10-25-60, Cl. 260—47.
- Jiffy Mfg. Co.: *See*—  
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- Jilek, Jiri: *See*—  
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- Jilly, Louis F., to Borg-Warner Corp. Shaped-charge well perforator. 2,947,251, 8-2-60, Cl. 102—20.
- Jimenez, Jesus J., to J. Soto del Llano. Bottle stopper. 2,953,270, 9-20-60, Cl. 215—22.
- Jin, Korda K. D., to The General Industries Co. Speed control for electric motors. 2,936,412, 5-10-60, Cl. 318—325.
- Jin, Korda K. D., to The General Industries Co. Electric motors. 2,946,941, 7-26-60, Cl. 318—223.
- Jin, Minejiro, to Hitachi Ltd. Driving device of movable handrails for escalator. 2,929,483, 3-22-60, Cl. 198—16.
- Jipp, August G. W., to Siemens and Halske Aktiengesellschaft Berlin and Munich. Start-stop teleprinter system. 2,956,126, 10-11-60, Cl. 178—69.5.
- Jirou, Marcel, and Jean-Marie Frey, to Compagnie Francaise des Matieres Colorantes. Metallisable azo dyestuffs and metalliferous complexes derived therefrom. 2,920,070, 1-5-60, Cl. 260—147.
- Jisä, Miloslav: *See*—  
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- Jlu, James, to G. D. Searle & Co. 1,3,17-triacetoxyestra-1,3,5(10), 16-tetraene and congeners. 2,949,477, 8-16-60, Cl. 260—397.5.
- Jlu, James, to G. D. Searle & Co. 17-oxygenated estra-1,3,5(10)-triene-1,4-diols, their esters, and a corresponding quinone. 2,950,291, 8-23-60, Cl. 260—397.3.
- Jlu, James, and G. P. Mueller, to G. D. Searle & Co. 3-aminoalkylaminobenzothiazine-1-oxides. 2,966,487, 12-27-60, Cl. 260—247.5.
- Joa, Curt G., to Kohler-Joa Corp. Mounting for an adjustable power tool, including a wedge type lock. 2,919,730, 1-5-60, Cl. 144—134.
- Joa, Curt G. Sanitary napkins with external padding. 2,939,461, 6-7-60, Cl. 128—290.
- Joa, Curt G. Machine for manufacturing sanitary napkins, or the like. 2,960,143, 11-15-60, Cl. 154—29.
- Joabson, Arthur H. Furniture supporting device. 2,944,366, 7-12-60, Cl. 45—137.
- Joachim, Joseph G., and A. B. Sauer, to General Motors Corp. Closure latch. 2,943,880, 7-5-60, Cl. 292—201.
- Joachim, Joseph W., Jr. Air conditioning unit. 2,929,223, 3-22-60, Cl. 62—171.
- Jo-An Shoe Mfg. Co., Inc.: *See*—  
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- Joaquin Agricultural & Engineering Co., Inc.: *See*—  
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- Jobbins, John K.: *See*—  
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- Jobbins, John K., to United Kingdom Atomic Energy Authority. Shackles. 2,955,855, 10-11-60, Cl. 287—91.
- Jobe, Herman T.: *See*—  
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- Jobert, Arthur H., to New Britain Machine Co. Stock stop. 2,964,982, 12-20-60, Cl. 82—46.
- Jobmann, Paul F. W.: *See*—  
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- Jochem, Theodore B.: *See*—  
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- Jochems, Pieter J. W., to North American Philips Co., Inc. Semi-conductor device. 2,926,290, 2-23-60, Cl. 317—235.
- Jocz, Daniel G., to Beloit Iron Works. Apparatus for machining cylindrical objects. 2,965,008, 12-20-60, Cl. 90—15.
- Jodell, Georg E., to Aktiebolaget Electrolux. Apparatus for forming foamed plastic objects. 2,960,720, 11-22-60, Cl. 18—1.
- Joedel, Stanley V., to Infra-Red Systems. Ovens. 2,965,742, 12-20-60, Cl. 219—34.
- Joehlin, Norman C., to International Telephone and Telegraph Corp. Pulse code translator. 2,943,310, 6-28-60, Cl. 340—347.
- Joel, Amos E., Jr.: *See*—  
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- Joel, Amos E., Jr., to Bell Telephone Laboratories, Inc. Accounting system. 2,925,957, 2-23-60, Cl. 235—61.7.
- Joel, Amos E., Jr., to Bell Telephone Laboratories, Inc. Simultaneous direct-current and multifrequency signaling system. 2,941,042, 6-14-60, Cl. 179—18.
- Joens, Werner H. Multi-curve recorder. 2,920,930, 1-12-60, Cl. 346—46.
- Jofeh, Marcus L.: *See*—  
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- Jofeh, Marcus L., to The Sperry Gyroscope Co. Ltd. Control system for aircraft. 2,925,967, 2-23-60, Cl. 244—77.
- Jofeh, Marcus L., F. A. Summerlin, and D. G. Downes, to The Sperry Gyroscope Co. Ltd. Control systems for aircraft. 2,936,136, 5-10-60, Cl. 244—77.
- Joffe, Jacob S.,  $33\frac{1}{3}\%$  to G. S. Pfau, and  $33\frac{1}{3}\%$  to R. A. Posner. Fertilizers and method of making same. 2,951,755, 9-6-60, Cl. 71—6.
- Johannesen, John D.: *See*—  
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- Johannesen, John D., to Bell Telephone Laboratories, Inc. Switching circuit. 2,962,551, 11-29-60, Cl. 179—15.
- Johannesen, Walter L. Pickup mechanism for harvesters. 2,949,717, 8-23-60, Cl. 56—23.
- Johannesen, Paul R.,  $\frac{1}{2}$  to J. C. Simons, Jr., and  $\frac{1}{2}$  to R. H. Rines. A.C. servosystem with D.C. damping feedback magnetic amplifier. 2,961,590, 11-22-60, Cl. 318—448.
- Johannin, Pierre: *See*—  
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- Johanningmeier, Charles E. Match book spinner. 2,945,696, 7-19-60, Cl. 273—147.
- Johannis, Martha. Patient lifts. 2,927,329, 3-8-60, Cl. 5—317.
- Johannsen, Russel G., and R. F. Stansberry. Door construction. 2,926,728, 3-1-60, Cl. 160—191.
- Johansen, Einar K., to U. S. Industries, Inc. Guide mechanism for metal drawing press. 2,962,993, 12-6-60, Cl. 113—38.
- Johanson, Alfred E., to Bell Telephone Laboratories, Inc. Magnetic drum repertory dialer. 2,953,647, 9-20-60, Cl. 179—90.
- Johanson, Bengt J., to United-Carr Fastener Corp. Tube socket for use with standard grid patterns. 2,962,686, 11-29-60, Cl. 339—17.
- Johanson, Bengt J., and W. H. McKee, to United-Carr Fastener Corp. End connector for printed circuits. 2,947,964, 8-2-60, Cl. 339—17.
- Johanson, Norman R., to The Babcock & Wilcox Co. Apparatus for electric resistance welding two tubes to a spacer strip. 2,920,182, 1-5-60, Cl. 219—102.



- Johanson, Roy K., to Minneapolis-Honeywell Regulator Co. Pressure regulating valve. 2,940,462, 6-14-60, Cl. 137—116.3.
- Johansson, Bertil K. A.: *See*—  
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- Johansson, Carl E., to Youngstown Steel Door Co. Metallic linings for box cars. 2,923,256, 2-2-60, Cl. 105—423.
- Johansson, Ebbe A. I. and S. A. M. Convertible knapsack carriers. 2,922,465, 1-26-60, Cl. 155—123.
- Johansson, Folke C. E.: *See*—  
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- Johansson, Folke K. E.: *See*—  
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- Johansson, Fritz A., N. V. Mokvist, H. I. Elvander, and T. H. V. Aminoff, to Bolidens Gruvaktiebolag. Apparatus for taking up anodes. 2,941,648, 6-21-60, Cl. 198—20.
- Johansson, Hilding J. E., and P. J. G. Norbäck. Heat pump. 2,932,958, 4-19-60, Cl. 62—476.
- Johansson, Ingvar O. Tool machine brake mechanism. 2,966,079, 12-27-60, Cl. 77—28.
- Johansson, Isak E., to T. An. Tesch Aktiebolag. Charging devices for shaft furnaces. 2,965,249, 12-20-60, Cl. 214—36.
- Johansson, Isak E., to T. An. Tesch Aktiebolag. Charging devices for shaft furnaces. 2,965,250, 12-20-60, Cl. 214—36.
- Johansson, Sture A. M.: *See*—  
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- John, Chaucer G. Automatic conveyor weigher. 2,925,261, 2-16-60, Cl. 265—56.
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- John, Harold F., to Westinghouse Electric Corp. Protective treatment for semiconductor devices. 2,937,110, 5-17-60, Cl. 117—200.
- John, Kurt W.: *See*—  
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- Johndnes, James D. Flower display holder. 2,932,384, 4-12-60, Cl. 206—45.33.
- Johns, Avery G. Door lock. 2,920,474, 1-12-60, Cl. 70—451.
- Johns, Charles K.: *See*—  
Hill, Charles, and Johns. 2,927,420.
- Johns, Earl, to Seismograph Service Corp. Well bore detector and perforating apparatus. 2,965,031, 12-20-60, Cl. 102—218.
- Johns, Frank D. Automatic ticket-dispensing skee ball machine. 2,926,915, 3-1-60, Cl. 273—95.
- Johns, Iral E., to Monsanto Chemical Co. Corrosion inhibition. 2,962,356, 11-29-60, Cl. 23—139.
- Johns, Juanita A. Sun tan lotion applicator. 2,936,475, 5-17-60, Cl. 15—231.
- Johns-Manville Corp.: *See*—  
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- Cimochowski, Anthony E. 2,960,142.
- Ford, Harry S. 2,935,314.
- Fourmanoit, Robert. 2,929,447.
- Mastrobattista, Alex A., Bieling, and Peters. 2,930,643.
- Meserole, Robert H. 2,960,196.
- Modigliani, Piero. 2,964,439.
- Leistensnider, George P. 2,945,263.
- Page, Anthony J. 2,941,891.
- Palumbo, Henry J. 2,939,247.
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- Powell, Edward R. 2,952,869.
- Rutter, Donald P. 2,960,141.
- Toms, Robert U., and Grose. 2,964,819.
- Vander Linden, Carl R., and Blair. 2,966,441.
- Johns-Manville Fiber Glass Inc.: *See*—  
Finger, Joseph S. 2,959,511.
- Rhea, William F. 2,961,698.
- Johns, Mary B. Toy balls. 2,960,794, 11-22-60, Cl. 46—135.
- Johns, Nigrelli, Johns: *See*—  
Nigrelli, Biagio J., Standley, and Wittmann. 2,939,256.
- Nigrelli, Biagio J., Standley, Wittmann, and Snyder. 2,953,240.
- Johns, Ralph W.: *See*—  
Nigrelli, Biagio J., Standley, and Wittmann. 2,939,256.
- Nigrelli, Biagio J., Standley, Wittmann, and Snyder. 2,953,240.
- Johns, Robert R.: *See*—  
Nigrelli, Biagio J., Standley, and Wittmann. 2,939,256.
- Nigrelli, Biagio J., Standley, Wittmann, and Snyder. 2,953,240.
- Johns, William F., to G. D. Searle & Co. 16-halo-1,3,5-(10)-estratriene-17-ones and -17-ols. 2,928,847, 3-15-60, Cl. 260—397.3.
- Johns, William F., to G. D. Searle & Co. 17-oxygenatedestra-2,5(10)-dienes and intermediates. 2,944,067, 7-5-60, Cl. 260—397.3.
- Johns, William F., to G. D. Searle & Co. 17a-(1-alkynyl)- and 17a-(1-alkenyl)-estra-2,5(10)-dien-17b-ols and esters corresponding. 2,944,068, 7-5-60, Cl. 260—397.5.
- Johns, William F., to G. D. Searle & Co. 3,17-bisoxxygenated 16-haloestrenes and intermediate. 2,949,475, 8-16-60, Cl. 260—397.3.
- Johns, William F., to G. D. Searle & Co. 1-(oxygenated butyl)-2-oxygenated 1,2,3,4,4A,4B,5,6,7,9,10,10A-dodecahydraphenanthren-7-ones and intermediates. 2,957,896, 10-25-60, Cl. 260—397.45.
- Johns, William F., and G. P. Mueller, to G. D. Searle & Co. 16b,17b-epoxy-1,3,5(10)-estratrienes. 2,946,785, 7-26-60, Cl. 260—397.55.
- Johnsen, Clifford N., and E. T. Neubauer, to The Trane Co. Roll-out mechanism. 2,948,498, 8-9-60, Cl. 248—17.
- Johnsen, Vernon L., and R. S. Burnett, to Wilson & Co., Inc. Proteinaceous food adjunct and method of preparing same. 2,928,822, 3-15-60, Cl. 260—117.
- Johnshon, Philip A., 15% to R. L. Gausewitz. Hose-type pump. 2,958,294, 11-1-60, Cl. 103—149.
- Johnson, Adaline M.: *See*—  
Johnson, Edwin L. 2,934,931.
- Johnson, Agnar, to Atwood Vacuum Machine Co. Automobile door hinge. 2,934,783, 5-3-60, Cl. 16—146.
- Johnson, Al. Carton folding machine. 2,921,506, 1-19-60, Cl. 93—51.
- Johnson, Alben C., to General Dynamics Corp. Vibration hand tool. 2,930,914, 3-29-60, Cl. 310—27.
- Johnson, Albert M., to Barnes Drill Co. Pneumatic expander for honing machines. 2,923,101, 2-2-60, Cl. 51—34.
- Johnson, Albert T. Saw guard. 2,929,419, 3-22-60, Cl. 143—159.
- Johnson, Alfred C.: *See*—  
Severinsen, Arne R. 2,944,530.
- Johnson, Alfred D.: *See*—  
Dickinson, William A., Hemphill, and Johnson. 2,939,980.
- Johnson, Algot S.: *See*—  
Carpenter, Gayle E., and Johnson. 2,938,450.
- Johnson, Allard E. Electrical terminal box construction with detachable face plate and wire tapping means therefor. 2,920,303, 1-5-60, Cl. 339—97.
- Johnson, Allen Y., to Johnson Scale Co. Ratio conversion attachment for platform scale. 2,931,637, 4-5-60, Cl. 265—30.
- Johnson, Alvin L., to Johnson Enterprises, Inc. Adjustable hacksaw frame. 2,944,574, 7-12-60, Cl. 145—34.
- Johnson, Alvin L., to Edgar G. Vaudreuil. C-clamp. 2,947,333, 8-2-60, Cl. 144—305.
- Johnson, Andy A.: *See*—  
Stareck, Jesse E., Seyb, Johnson, and Rowan. 2,952,590.
- Johnson, Andy A., and G. Dubbernell, to Metal & Thermit Corp. Chromium plating process and bath. 2,950,234, 8-23-60, Cl. 204—51.
- Johnson, Armigene R. Skirt. 2,965,904, 12-27-60, Cl. 2—211.
- Johnson, Arnold E.: *See*—  
Kravig, Robert S., and Johnson. 2,933,223.
- Johnson, Arnold W.: *See*—  
Clark, Harold D., and Johnson. 2,923,542.
- Johnson, Arthur A., to The Eagle-Picher Co. Machine and method for molding heat-curable articles. 2,948,925, 8-16-60, Cl. 18—21.
- Johnson, Arthur C.: *See*—  
Slick, Fred S. 2,945,430.
- Johnson, Arthur E., to A. O. Smith Corp. Current rectifiers. 2,921,243, 1-12-60, Cl. 317—234.
- Johnson, Arthur H., to The Bendix Corp. Fluid flow control apparatus. 2,951,515, 9-6-60, Cl. 141—293.
- Johnson, Arthur L., M. Morf, and J. K. Whiteley, to Canadian Industries Ltd. Polymer blend of oil modified alkyl resin with copolymer of acrylamide and unsaturated vinyl monomer. 2,964,483, 12-13-60, Cl. 260—22.
- Johnson, Arthur M. Ellipsograph instrument. 2,926,423, 3-1-60, Cl. 33—30.
- Johnson, Arthur O. Fuel economizer for internal combustion engines. 2,954,967, 10-4-60, Cl. 261—144.
- Johnson, Arthur O. Fuel economizer for internal combustion engines. 2,956,559, 10-18-60, Cl. 123—119.
- Johnson, Arthur R., and J. C. Kern, to The Branford Co. Pneumatic impact device. 2,933,068, 4-19-60, Cl. 121—13.
- Johnson, Arvid T.: *See*—  
Johnson, Wallace A., and Johnson. 2,947,104.
- Johnson, Audrey D.: *See*—  
Jacobsen, Kenneth L., Johnson, Covell, Kwierant, and John. 2,930,345.
- Johnson, Axel E. F., to American Hospital Supply Corp. Support stand. 2,923,513, 2-2-60, Cl. 248—194.
- Johnson, Axel E. F., to American Hospital Supply Corp. Folding foot stool for beds. 2,941,215, 6-21-60, Cl. 5—92.
- Johnson, Axel E. F., to American Hospital Supply Corp. Method of joining tubular members. 2,953,127, 11-1-60, Cl. 29—523.
- Johnson, Axel E. F., and H. K. De Witt, to American Hospital Supply Corp. Adjustable supporting bracket. 2,954,957, 10-4-60, Cl. 248—280.
- Johnson, Axel E. F., and C. W. Ensinger, to American Hospital Supply Corp. Bumper structure. 2,958,555, 11-1-60, Cl. 293—62.
- Johnson, Bayard S.: *See*—  
Dunbar, Alver, Hausmann, and Johnson. 2,934,885.
- Dunbar, Alver, Hausmann, and Johnson. 2,935,416.
- Johnson, Berthold T. Automotive pulsating brake control apparatus. 2,959,012, 11-8-60, Cl. 60—54.6.
- Johnson, Bruce D., to The C. A. Lawton Co., Inc. Shell banding machine. 2,951,401, 9-6-60, Cl. 78—15.
- Johnson, Carey A.,  $\frac{1}{2}$  to T. L. Clark,  $\frac{1}{2}$  to K. E. Bush, and  $\frac{1}{2}$  to M. L. Hefner. Stroke adjusting mechanism. 2,958,237, 11-1-60, Cl. 74—522.
- Johnson, Carl A. Fishing rod holder. 2,939,662, 6-7-60, Cl. 248—41.
- Johnson, Carl E., to Nalco Chemical Co. Process of reducing surface incrustation by salt crystals during evaporation of brine solutions. 2,941,589, 6-21-60, Cl. 159—47.



- Johnson, Carl E., to Nalco Chemical Co. Imidazolines and imidazolium salts. 2,957,003, 10-18-60, Cl. 260—309.6.
- Johnson, Carl E. Sectional molded easel device. 2,958,490, 11-1-60, Cl. 248—34.
- Johnson, Carl E., and F. D. Purpura. Method of cutting aluminum including the step of heating to a white heat. 2,931,263, 4-5-60, Cl. 83—16.
- Johnson, Carl G. A., Jr., to The Ohio Brass Co. Trolley pole mounting. 2,922,852, 1-26-60, Cl. 191—66.
- Johnson, Carl W., to American Machine & Foundry Co. Special stitch forming machine. 2,941,485, 6-21-60, Cl. 112—98.
- Johnson, Carl W., to American Machine & Foundry Co. Sewing machine looper mechanism. 2,949,084, 8-16-60, Cl. 112—171.
- Johnson, Carlyle, Machine Co., The: *See*—  
Simon, Frank R., and Palmer. 2,936,054.
- Johnson, Carmen L. Occupant propelled amusement device. 2,948,531, 8-9-60, Cl. 272—57.
- Johnson, Cecil R. Armrest for automobile windows. 2,948,565, 8-9-60, Cl. 296—49.2.
- Johnson, Charles D.: *See*—  
Sublett, Ira, and Johnson. 2,919,678.
- Johnson, Charles E. Carburetor. 2,956,791, 10-18-60, Cl. 261—145.
- Johnson, Charles F. Tie knot holder. 2,958,870, 11-8-60, Cl. 2—153.
- Johnson, Charles H., to Gisholt Machine Co. Indexing apparatus. 2,924,127, 2-9-60, Cl. 74—822.
- Johnson, Charles H., to Gisholt Machine Co. Indexing multiple tool holder. 2,952,169, 9-13-60, Cl. 74—822.
- Johnson, Charles L., to R. S. Lynch. Duck call. 2,928,209, 3-15-60, Cl. 46—180.
- Johnson, Charles R.: *See*—  
Barbeau, Jean B., Johnson, and Schrader. 2,956,469.
- Johnson, Charles R. Mineral concentrating apparatus. 2,948,397, 8-9-60, Cl. 209—455.
- Johnson, Charles W. Dispenser box support bracket. 2,964,282, 12-13-60, Cl. 248—313.
- Johnson, Christopher L., to Rolls-Royce Ltd. Jet propulsion nozzle for supersonic flight. 2,928,235, 3-15-60, Cl. 60—35.6.
- Johnson, Christopher L., and W. H. London, to Rolls-Royce Ltd. Aircraft fuel system with fuel heating means. 2,925,712, 2-23-60, Cl. 60—39.07.
- Johnson, Christopher L., and P. G. Binns, to Rolls-Royce Ltd. Mountings, couplings and the like devices. 2,950,133, 8-23-60, Cl. 287—1.
- Johnson, Clarence A., and P. C. Keith, to Hydrocarbon Research, Inc. Shift reaction with fluidized catalyst. 2,960,388, 11-15-60, Cl. 23—213.
- Johnson, Clarence L., to Lockheed Aircraft Corp. Aircraft propulsion systems. 2,928,627, 3-15-60, Cl. 244—42.
- Johnson, Clarence W.: *See*—  
Elves, Douglas C., and Johnson. 2,932,204.
- Johnson, Clark E., Jr. Power supplies for miniature electric railways. 2,965,044, 12-20-60, Cl. 104—150.
- Johnson, Dale W., and P. L. Julian, to The Glidden Co. Process for removing sulfur dioxide from aqueous liquors. 2,962,421, 11-29-60, Cl. 195—39.
- Johnson, Darrell M. Device for stimulating the mental processes. 2,948,069, 8-9-60, Cl. 35—8.
- Johnson, David A., to Bristol-Myers Co. Process of producing nitrogen-containing chemical compounds. 2,966,518, 12-27-60, Cl. 260—570.7.
- Johnson, David A., G. A. Hardcastle, Jr., and Y. G. Perron, to Bristol-Myers Co. Process of antibiotic extraction. 2,936,307, 5-10-60, Cl. 260—210.
- Johnson, David W., to The Arrow-Hart & Hegemann Electric Co. Interlocked trigger and reversing switches. 2,936,349, 5-10-60, Cl. 200—50.
- Johnson, Delbert L.: *See*—  
Henderson, J. Alvin, Johnson, and Koenig. 2,941,083.
- Johnson, Donald C.: *See*—  
Hendrickson, Paul C., and Johnson. 2,963,793.
- Johnson, Donald D., to International Business Machines Corp. Method for applying a uniform coating to a cylindrical body. 2,950,990, 8-30-60, Cl. 117—94.
- Johnson, Donald L.: *See*—  
Raddin, Harry A., and Johnson. 2,930,078.
- Johnson, Donald L. Means for producing flakes while cutting flat surface on wood. 2,949,946, 8-23-60, Cl. 144—162.
- Johnson, Donald L. Wood flaking and surfacing machine. 2,964,079, 12-13-60, Cl. 144—176.
- Johnson, Donn M., to The B. F. Goodrich Co. Means for altering the leading edge shape of an airfoil. 2,937,826, 5-24-60, Cl. 244—44.
- Johnson, Douglas: *See*—  
Hall, Russell S., and Johnson. 2,952,973.
- Johnson, E. Calvin: *See*—  
Capron, Robert W., and Johnson. 2,939,287.
- Johnson, Earle W., to Rockford Machine Tool Co. Machine tool ways. 2,931,684, 4-5-60, Cl. 308—3.
- Johnson, Edward. Lawn edging device. 2,950,769, 8-30-60, Cl. 172—17.
- Johnson, Edward B.: *See*—  
Brewer, Clifton C., and Johnson. 2,958,070.
- Johnson, Edward P.: *See*—  
Balmer, Donald F., Lyon, Runge, and Johnson. 2,952,747.
- Johnson, Edwin H. Mail box signal. 2,924,376, 2-9-60, Cl. 232—35.
- Johnson, Edwin H., to Fitch Textile Co., Inc. Drying machine for tubular fabrics and the like. 2,929,127, 3-22-60, Cl. 26—56.
- Johnson, Edwin L., deceased, A. M. Johnson, executrix. Weep hole form. 2,934,931, 5-3-60, Cl. 72—5.
- Johnson, Edwin W., to Westinghouse Electric Corp. Vacuum arc furnace control. 2,942,045, 6-21-60, Cl. 13—13.
- Johnson, Edwin W., F. R. Itoh, and R. L. Readal, to Westinghouse Electric Corp. Metals joining apparatus. 2,933,594, 4-19-60, Cl. 219—137.
- Johnson, Elbert L., and W. K. Jensen, to General Motors Corp. Battery terminal connector. 2,962,689, 11-29-60, Cl. 339—95.
- Johnson, Ellsworth T., to Deere & Co. Adjustable draft member. 2,924,466, 2-9-60, Cl. 280—462.
- Johnson, Ellsworth T., and L. G. Dotson, to Deere & Co. Belt drive transmission. 2,930,246, 3-29-60, Cl. 74—220.
- Johnson, Elmer C., to The Vendo Co. Vending machine having article releasing mechanism. 2,929,533, 3-22-60, Cl. 221—67.
- Johnson, Elmer C., to The Vendo Co. Mechanism for releasing articles of vending machines. 2,951,616, 9-6-60, Cl. 221—67.
- Johnson, Elmer L.: *See*—  
Ludwig, Herbert P., and Johnson. 2,932,874.
- Johnson, Elmer T., to Minneapolis-Honeywell Regulator Co. Electrical pulse producing apparatus. 2,950,398, 8-23-60, Cl. 307—88.5.
- Johnson, Elvin. Protecting jacket for liquid containers. 2,921,706, 1-19-60, Cl. 215—12.
- Johnson Enterprises, Inc.: *See*—  
Johnson, Alvin L. 2,944,574.
- Johnson, Erdman H. System for classroom instruction in playing keyboard-type musical instruments. 2,927,494, 3-8-60, Cl. 84—470.
- Johnson, Eric C., to B.B. Chemical Co. Thermoplastic rod adhesives and method of bonding metallic sheet material therewith. 2,940,888, 6-14-60, Cl. 154—129.
- Johnson, Eric L.: *See*—  
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Atkinson, John R., Booth, Johnson, and Mills. 2,944,871.  
Baker, Ronald, Hadfield, Johnson, and Stephen. 2,953,560.  
Baker, Ronald, Hadfield, Johnson, and Stephen. 2,964,520.
- Johnson, Erik A., to B. Lofgren. Valve particularly for use in an electro-metallizing pistol. 2,944,568, 7-12-60, Cl. 137—630.22.
- Johnson, Ernest W.: *See*—  
Durbin, Vernon, and Johnson. 2,929,883.
- Johnson, Ernest W., to General Mills, Inc. Puffed goods mix. 2,919,986, 1-5-60, Cl. 99—94.
- Johnson, Everett A., to Standard Oil Co. Well strata productivity control. 2,933,135, 4-19-60, Cl. 166—42.
- Johnson, Floyd D., to Westinghouse Electric Corp. Phase interlock for series capacitor. 2,949,567, 8-16-60, Cl. 317—12.
- Johnson, Floyd H. Tape measuring guide knife for cutting sheet rock, plaster board and similar materials. 2,952,025, 9-13-60, Cl. 7—14.1.
- Johnson, Frances S. Magnifying cap for medicine bottle. 2,961,108, 11-22-60, Cl. 215—37.
- Johnson, Francis M., to United States of America, Air Force. Explosive/mechanical, single mount, bomb rack. 2,952,489, 9-13-60, Cl. 294—83.
- Johnson, Francis M., to United States of America, Air Force. Chaff dispensing system. 2,954,948, 10-4-60, Cl. 244—136.
- Johnson, Francis M., and D. R. Carlisle, to Rolls-Royce Ltd. Fuel injection means for feeding fuel to an annular combustion chamber of a gas turbine engine with means for dividing the air flow. 2,920,449, 1-12-60, Cl. 60—39.74.
- Johnson, Frank B.: *See*—  
Moser, John F., Jr., and Johnson. 2,927,073.
- Johnson, Frank F., to Schlumberger Well Surveying Corp. Borehole apparatus. 2,956,165, 10-11-60, Cl. 250—83.3.
- Johnson, Frank F., and J. Tittman, to Schlumberger Well Surveying Corp. Apparatus for investigating earth formations. 2,944,148, 7-5-60, Cl. 250—71.
- Johnson, Frank S.: *See*—  
Imalis, Oscar, Johnson, and Pucillo. 2,934,631.
- Johnson, Frank W. Line fastening device. 2,942,315, 6-28-60, Cl. 24—134.
- Johnson, Frederick D., to The Imperial Flo-Glaze Paints Ltd. Self-locking bolt and method of making same. 2,939,805, 6-7-60, Cl. 117—75.
- Johnson, Frithiof V., to General Electric Co. Acceleration responsive device. 2,942,475, 6-28-60, Cl. 73—516.
- Johnson Gage Development Co., The: *See*—  
Johnson, Paul W. 2,938,273.  
Johnson, Paul W. 2,938,698.  
Johnson, Stanley G. 2,940,175.
- Johnson Gear & Mfg. Co., Ltd.: *See*—  
Pamphilon, George. 2,944,440.
- Johnson, George C., and S. J. Lukasiewicz, to Socony Mobil Oil Co., Inc. Process of producing desulfurized coke from petroleum. 2,921,017, 1-12-60, Cl. 208—106.
- Johnson, George H., to United States Steel Corp. Annealing furnace. 2,930,825, 3-29-60, Cl. 13—20.
- Johnson, George I., to Borg-Warner Corp. Swing-out pivotal shelf for refrigerators. 2,963,171, 12-6-60, Cl. 211—147.
- Johnson, Glenn, Jr.: *See*—  
Hepler, Leon R., and Johnson. 2,955,721.
- Johnson, Glenn D.: *See*—  
Brown, Ora A., and Johnson. 2,940,523.
- Johnson, Glenn D., to Joy Mfg. Co. Pipe slip means. 2,924,866, 2-16-60, Cl. 24—263.



- Johnson, Gordon C., and M. H. Jelinek, to Union Carbide Corp. Composition containing water soluble substituted silane and zirconium oxychloride and method of treating material therewith. 2,957,839, 10-25-60, Cl. 260-29.2.
- Johnson, Gordon, Co.: See—  
Zebarth, Ralph S. 2,924,845.  
Zebarth, Ralph S. 2,924,846.  
Zebarth, Ralph S. 2,927,341.  
Zebarth, Ralph S. 2,931,486.
- Johnson, Gordon W., to Caterpillar Tractor Co. Steering system for track-type tractors. 2,961,057, 11-22-60, Cl. 180-6.2.
- Johnson, Gover L., to United States of America, Air Force. Multi-band wave guide jiffy clamp. 2,923,994, 2-9-60, Cl. 24-248.
- Johnson, Grady. Latch for gates. 2,928,688, 3-15-60, Cl. 292-87.
- Johnson, Gustav H. Load binder. 2,919,895, 1-5-60, Cl. 254-78.
- Johnson, Gustav H. Chain binder. 2,937,001, 5-17-60, Cl. 254-78.
- Johnson, Harold B. Reply letter sheet. 2,927,723, 3-8-60, Cl. 229-86.
- Johnson, Harold E., to Allis-Chalmers Mfg. Co. Check valve having closed internal circuit hydraulic system. 2,927,604, 3-8-60, Cl. 137-514.5.
- Johnson, Harold K. Child's flashing toy. 2,959,892, 11-15-60, Cl. 46-228.
- Johnson, Harold L., to W. H. Nicholson & Co. Valve. 2,938,543, 5-31-60, Cl. 137-624.
- Johnson, Harold R. Utility cart. 2,938,748, 5-31-60, Cl. 296-27.
- Johnson, Harwick, to Radio Corp. of America. Semiconductor devices. 2,932,748, 4-12-60, Cl. 307-88.5.
- Johnson, Hawkin. Holders for napkins and tissues. 2,958,496, 11-1-60, Cl. 248-223.
- Johnson, Henley B. Sectional anti-skid traction attachment. 2,957,509, 10-25-60, Cl. 152-173.
- Johnson, Herbert C., to United States of America, Air Force. Explosive deicer. 2,930,554, 3-29-60, Cl. 244-134.
- Johnson, Herbert C., Jr., to National Die Casting Co. Method of making a golf club head. 2,931,098, 4-5-60, Cl. 29-528.
- Johnson, Herbert L.: See—  
Reif, Henry E., and Johnson. 2,960,459.
- Johnson, Herbert L., and A. P. Stuart, to Sun Oil Co. Process for preparing chloroprene. 2,922,826, 1-26-60, Cl. 260-655.
- Johnson, Herbert L., H. E. Reif, and A. Schneider, to Sun Oil Co. Split hydrorefining of feed to catalytic cracking operation. 2,938,857, 5-31-60, Cl. 203-89.
- Johnson, Herbert L., and W. A. Henderson, to Sun Oil Co. Fractionation of polyolefins. 2,946,779, 7-26-60, Cl. 260-93.7.
- Johnson, Herbert S., to Shawinigan Chemicals Ltd. Acetaldehyde condensation product and process for preparation. 2,947,759, 8-2-60, Cl. 260-340.7.
- Johnson, Herbert S., and A. H. Andersen, to Shawinigan Chemicals Ltd. Process for preparation of carbon monoxide. 2,921,840, 1-19-60, Cl. 23-204.
- Johnson, Herbert S., and A. H. Andersen, to Shawinigan Chemicals Ltd. Process for preparation of hydrocyanic acid. 2,958,584, 11-1-60, Cl. 23-151.
- Johnson, Herbert S., and A. H. Andersen, to Shawinigan Chemicals Ltd. Process for the preparation of titanium tetrachloride. 2,948,587, 8-9-60, Cl. 23-87.
- Johnson and Hoffman Mfg. Corp.: See—  
Johnson, Jay H. 2,942,128.
- Johnson, Horace J. Series type multiple thermal jet propulsion system. 2,937,494, 5-24-60, Cl. 60-35.6.
- Johnson, Horace R., and R. D. Weglein, to Hughes Aircraft Co. Traveling-wave tube. 2,941,113, 6-14-60, Cl. 315-3.5.
- Johnson, Howard L., to Northrop Corp. Self-aligning quick disconnect plug. 2,939,102, 5-31-60, Cl. 339-45.
- Johnson, J. B., to Texaco Inc. Positive displacement type fluid filling machine having automatic cam track adjusting means and method of filling. 2,961,013, 11-22-60, Cl. 141-1.
- Johnson, Jack E. Magnetic distributor assembly. 2,953,652, 9-20-60, Cl. 200-30.
- Johnson, James L.: See—  
Armi, Edgar L., Johnson, Machler, and Polster. 2,939,318.
- Johnson, James R., to North American Aviation, Inc. Shock absorbing engine mount. 2,931,601, 4-5-60, Cl. 248-5.
- Johnson, James W. Sun-shade for automobiles. 2,927,819, 3-8-60, Cl. 296-97.
- Johnson, Jay H., to Johnson and Hoffman Mfg. Corp. Electrodes for electron gun unit. 2,942,128, 6-21-60, Cl. 313-82.
- Johnson, Jerome C.: See—  
Blixrud, John O., Johnson, and Franklin. 2,950,668.
- Johnson, Joel R.: See—  
Gellatly, John S., Johnson, and Quinlan. 2,921,177.
- Johnson, Joel R., to Western Electric Co., Inc. Apparatus for assembling articles. 2,959,845, 11-15-60, Cl. 209-203.
- Johnson, Joel R., W. Lach, and W. F. Stephen, to Western Electric Co., Inc. Apparatus for assembling operating cards onto wire spring relays. 2,944,332, 7-12-60, Cl. 29-203.
- Johnson, John. Endless cutting mechanism. 2,948,099, 8-9-60, Cl. 56-25.
- Johnson, John A.: See—  
Caputo, Paul J., and Johnson. 2,919,661.
- Johnson, John A. Feeder for flowable material. 2,953,281, 9-20-60, Cl. 222-70.
- Johnson, John, A. T. Blomquist, and W. C. McCrone, Jr., to United States of America, War. Sensitivity control during purification of crude cyclonite. 2,959,587, 11-8-60, Cl. 260-248.
- Johnson, John B., and N. T. Williams, to McGraw-Edison Co. Fire detection. 2,944,152, 7-5-60, Cl. 250-83.6.
- Johnson, John F.: See—  
Kirshenbaum, Isidor, Lemiszka, and Johnson. 2,921,949.
- Johnson, John G.: See—  
Edman, John H., Artus, and Johnson. 2,935,147.
- Johnson, John H.: See—  
Fields, Joseph E., and Johnson. 2,921,928.
- Johnson, John H., to Monsanto Chemical Co. Olefin/maleic anhydride copolymers of low molecular weight. 2,938,016, 5-24-60, Cl. 260-78.5.
- Johnson, John M. Safety device for pole climbers. 2,920,714, 1-12-60, Cl. 182-9.
- Johnson, John M. Brake mechanism for mechanic's creeper. 2,942,693, 6-28-60, Cl. 188-5.
- Johnson, John R., to Owens-Illinois Glass Co. Bottle decorating machine and bottle chucking device therefor. 2,925,030, 2-16-60, Cl. 101-115.
- Johnson, John R., to Owens-Illinois Glass Co. Apparatus for arranging irregularly shaped glass containers. 2,928,521, 3-15-60, Cl. 198-33.
- Johnson, John W.: See—  
Mader, Stewart S., and Johnson. 2,946,162.
- Johnson, John W. Pike and hook attachment for paddles. 2,939,418, 6-7-60, Cl. 114-230.
- Johnson & Johnson: See—  
Bartell, Charles, Weidner, and Smith. 2,937,109.  
Bergstedt, Milton A., and Collins. 2,964,422.  
Bergstedt, Milton A., and Young. 2,953,475.  
Bradley, Robert D., and Goetzelman. 2,922,417.  
Castelli, Charles. 2,942,764.  
Castelli, Charles, Meares, and Gershen. 2,929,541.  
Castelli, Charles, Moser, and Ashton. 2,939,610.  
Cook, Clayton M., Moser, and Ashton. 2,923,664.  
Douglas, Jocelyn F., and Gaughran. 2,956,928.  
Eberl, James J., Stonehill, and Masci. 2,928,717.  
Frantz, Verne L. 2,947,710.  
Ganz, Henry. 2,928,389.  
George, William L., and Eberl. Re. 24,787.  
Heffernan, William R., and Schenk. 2,922,418.  
Herr, Benjamin F., and Bemmels. 2,963,387.  
Homier, Paul A., and Litchfield. 2,935,065.  
Keough, Allen. 2,961,451.  
Lavanchy, Patricia B. 2,922,723.  
Litchfield, Roland G., and Frese. 2,964,174.  
Maso, Henry F., and Masci. 2,954,116.  
McCormick, Edward J., and Muller. 2,929,498.  
Ripin, Benet. 2,941,562.  
Schladermundt, Peter, Dennerlein, and Simons. 2,946,435.  
Schladermundt, Peter, Dennerlein, and Simons. 2,965,223.  
Weschler, Joseph R., and Bartell. 2,963,386.  
Weschler, Joseph R., Engel, and Lagally. 2,947,658.  
Wood, O. Wendell. 2,955,066.
- Johnson, Joseph F., to General Electric Co. Plug-in type electrical socket. 2,953,650, 9-20-60, Cl. 200-5.
- Johnson, Joseph F., and A. H. Veltech, to General Electric Co. Circuit breaker load-center. 2,934,679, 4-26-60, Cl. 317-119.
- Johnson, Julius T. Liquid sampling apparatus. 2,934,959, 5-3-60, Cl. 73-422.
- Johnson, Kalin S.: See—  
Kittler, Milton J., Sterner, and Johnson. 2,947,297.
- Johnson, Kenneth A., J. A. Ousley, and W. N. Stark, to General Precision, Inc. Vented safety squib arming device. 2,939,393, 6-7-60, Cl. 102-70.
- Johnson, Kenneth C., and G. G. Scarrott, to Ferranti Ltd. Electrical stages for performing logical functions. 2,934,706, 4-26-60, Cl. 328-92.
- Johnson, Kenneth F., to Western Electric Co., Inc. Apparatus for coldwelding metal parts together. 2,920,511, 1-12-60, Cl. 78-82.
- Johnson, Kenneth F., to Western Electric Co., Inc. Apparatus for coldwelding metal parts together. 2,923,183, 2-2-60, Cl. 78-82.
- Johnson, Kenneth F., to Weyerhaeuser Co. End loader for lift truck. 2,950,830, 8-30-60, Cl. 214-654.
- Johnson, Kenneth O., to General Motors Corp. Spring load bearing support. 2,941,848, 6-21-60, Cl. 308-26.
- Johnson, Kenneth O., to Esso Research and Engineering Co. Underground storage reservoir for light hydrocarbons in semipermeable rock. 2,947,147, 8-2-60, Cl. 61-5.
- Johnson, Kenneth V.: See—  
Poulter, John W., and Johnson. 2,965,253.
- Johnson, Lauren L., to General Motors Corp. Generator-motor power train and control. 2,962,644, 11-29-60, Cl. 318-144.
- Johnson, Lennart L. Pressure spray cleaning apparatus. 2,931,580, 4-5-60, Cl. 239-346.
- Johnson, Leonard E., Jr. Door hanger. 2,957,197, 10-25-60, Cl. 16-105.
- Johnson, Leonard E., Jr. Door hanger. 2,959,807, 11-15-60, Cl. 16-87.
- Johnson, Leonard L.: See—  
Hitt, Otis D., Knapp, Johnson, and Rosenblum. 2,924,114.



- Johnson, Leslie A., to Westinghouse Electric Corp. Washing apparatus having filtering means. 2,962,886, 12-6-60, Cl. 68-18.
- Johnson, Leslie W.: *See*—  
Oehler, William P., Youngberg, and Johnson. 2,960,171.
- Johnson, Le Roy E., H. J. Koepsell, and B. W. Churchill, to The Upjohn Co. Neomycin fermentation medium. 2,957,810, 10-25-60, Cl. 195-80.
- Johnson, Lloyd E.: *See*—  
Denison, Henry W., and Johnson. 2,959,370.
- Johnson, Lloyd E., and R. E. Holthe, to Caterpillar Tractor Co. Automatic planetary transmission and control therefor. 2,922,314, 1-26-60, Cl. 74-472.
- Johnson, Lloyd L. Container for housing and transporting minnows. 2,927,394, 3-8-60, Cl. 43-56.
- Johnson, Lloyd L. Means for supporting stock feed hoppers and the like on pickup truck beds. 2,947,568, 8-2-60, Cl. 296-35.
- Johnson, Lloyd R., to Fullerton Lumber Co. Building frame prefabricating table. 2,919,733, 1-5-60, Cl. 144-288.
- Johnson, Lloyd W., and D. J. Klee, to General Electric Co. Electrode cooling means for electric arc furnace. 2,942,046, 6-21-60, Cl. 13-14.
- Johnson, Lorain A. Spinning reel. 2,932,465, 4-12-60, Cl. 242-84.2.
- Johnson, Lowell E.: *See*—  
Coulter, James H., Jr., and Johnson. 2,946,669.
- Johnson-March Corp.: *See*—  
Mau, George A., 2,953,359.  
Mau, George A., and Wurttemberg. 2,938,622.
- Johnson, Martin A., and J. W. Holeman, to Kaiser Aluminum & Chemical Corp. Washing apparatus. 2,921,685, 1-19-60, Cl. 210-236.
- Johnson, Marvin B. Mobile spray apparatus. 2,946,514, 7-26-60, Cl. 239-127.
- Johnson, Marvin F. L., C. D. Keith, and W. E. Stewart, to Sinclair Refining Co. Process of regenerating platinum alumina catalysts. 2,922,766, 1-26-60, Cl. 252-419.
- Johnson, Marvin F. L., and J. Cole, to Sinclair Refining Co. Production of adsorptive charcoal from petroleum residual stocks containing asphaltene. 2,932,619, 4-12-60, Cl. 252-421.
- Johnson, Mary D. Particle collector and erasing shield for typewriters. 2,950,803, 8-30-60, Cl. 197-181.
- Johnson, Matthey & Co. Ltd.: *See*—  
Darling, Alan S. 2,946,679.  
Darling, Alan S. 2,962,123.  
Walter, Derek O., Tucker, and Ing. 2,953,247.
- Johnson, Maurice V., Jr., and D. C. Savage, to Sunkist Growers, Inc. Rotary inking ribbon tube. 2,953,987, 9-27-60, Cl. 101-336.
- Johnson, Milton: *See*—  
Heise, Lorenz W., and Johnson. 2,920,950.
- Johnson, Montgomery H.: *See*—  
Halpern, Otto, and Johnson. 2,951,246.
- Johnson, Montgomery H., Jr.: *See*—  
Halpern, Otto, Johnson, and Wright. 2,951,247.
- Johnson, Nels A., 1/2 to G. M. Munson. Brine tank control system and valve for water softeners. 2,962,041, 11-29-60, Cl. 137-391.
- Johnson, Oce W. Spray gun nozzle. 2,930,532, 3-29-60, Cl. 239-335.
- Johnson, Orville E., to Gulf Oil Corp. Wire twisting apparatus. 2,960,119, 11-15-60, Cl. 140-119.
- Johnson, Orville H., and E. H. Schmidt, to E. I. du Pont de Nemours and Co. Machine. 2,953,057, 9-20-60, Cl. 86-20.
- Johnson, Oscar H., to American Brake Shoe Co. Grinding mills. 2,931,583, 4-5-60, Cl. 241-70.
- Johnson, Oscar W., to Dorr-Oliver Inc. Pressure centrifuge. 2,928,592, 3-15-60, Cl. 233-46.
- Johnson, Otto E.: *See*—  
Orelind, John R., and Johnson. 2,947,367.  
Smith, Hiram P., and Johnson. 2,947,369.
- Johnson, Paul, to The Thew Shovel Co. Valve indexing mechanism. 2,958,233, 11-1-60, Cl. 74-471.
- Johnson, Paul, and R. H. Zeilman, to The Thew Shovel Co. Dual control system for cranes and the like. 2,959,260, 11-8-60, Cl. 192-3.
- Johnson, Paul B.: *See*—  
Nessel, Jiri M., and Johnson. 2,952,349.
- Johnson, Paul D., to The Glidden Co. Brazing paste. 2,933,426, 4-19-60, Cl. 148-23.
- Johnson, Paul D., to The Glidden Co. Process for preparing powdered silver-solder compositions. 2,950,184, 8-23-60, Cl. 75-5.
- Johnson, Paul H., and C. R. Eberline, to Phillips Petroleum Co. Controlling the surface area of siliceous cracking catalysts. 2,947,684, 8-2-60, Cl. 208-118.
- Johnson, Paul H., and K. L. Mills, Jr., to Phillips Petroleum Co. Isomerization of normal paraffins. 2,963,527, 12-6-60, Cl. 260-683.68.
- Johnson, Paul V.: *See*—  
Taylor, Robert B., Hubbard, and Johnson. 2,924,963.  
Taylor, Robert B., and Johnson. 2,931,104.
- Johnson, Paul V., and R. B. Taylor, to Structural Clay Products Research Foundation. Method of and apparatus for combining units to form a package. 2,961,810, 11-29-60, Cl. 53-26.
- Johnson, Paul W., to The Johnson Gage Development Co. Gage for a turbine blade wedge and the like. 2,938,273, 5-31-60, Cl. 33-174.
- Johnson, Paul W., to The Johnson Gage Development Co. Dial indicator stem mount. 2,938,698, 5-31-60, Cl. 248-314.
- Johnson, Peter D., to General Electric Co. Concave grating spectrographic instrument. 2,948,184, 8-9-60, Cl. 88-14.
- Johnson, Peter W. R., W. Hayden, N. J. Georgette, and M. Fuhr, to Products for Industry. Work bench system with adjustable dimensions and configurations. 2,943,897, 7-5-60, Cl. 311-35.
- Johnson, Philip C., to The Baldwin Piano Co. Push button chord derivation and apparatus. 2,964,986, 12-20-60, Cl. 84-119.
- Johnson, Philip C., F. W. Stone, and L. V. McQuillen, to Union Carbide Corp. Production of acrylic acid and esters thereof. 2,962,525, 11-29-60, Cl. 260-486.
- Johnson & Phillips Ltd.: *See*—  
Ashby, Ronald J. 2,931,185.
- Johnson Products Inc.: *See*—  
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Bergmann, Paul F. 2,948,270.  
Bergmann, Paul F., Sr., and Dadd. 2,942,595.  
Dadd, Morris V. 2,943,611.  
Dadd, Morris V. 2,964,027.
- Johnson, Ralph E., to The Singer Mfg. Co. Sewing machine throat-plate mechanisms. 2,920,593, 1-12-60, Cl. 112-260.
- Johnson, Ralph E., to The Singer Mfg. Co. Sewing machine presser bar mechanisms. 2,921,545, 1-19-60, Cl. 112-158.
- Johnson, Ralph E., to The Singer Mfg. Co. Cam-disk support device for sewing machines. 2,924,120, 2-9-60, Cl. 74-568.
- Johnson, Ralph E., to The Singer Mfg. Co. Work feeding mechanisms for sewing machines. 2,931,329, 4-5-60, Cl. 112-210.
- Johnson, Ralph E., to The Singer Mfg. Co. Needle bar drives for zigzag sewing machines. 2,932,268, 4-12-60, Cl. 112-221.
- Johnson, Ralph E., to The Singer Mfg. Co. Bobbin winders for sewing machines. 2,938,478, 5-31-60, Cl. 112-218.
- Johnson, Ralph E., to The Singer Mfg. Co. Button holding presser-foot. 2,942,565, 6-28-60, Cl. 112-235.
- Johnson, Ralph E., to The Singer Mfg. Co. Needle thread tension device for sewing machines. 2,955,775, 10-11-60, Cl. 242-150.
- Johnson, Ralph E., to The Singer Mfg. Co. Sewing machine and loop-taker mechanisms therefor. 2,966,130, 12-27-60, Cl. 112-184.
- Johnson, Ralph E., and F. J. Bartosz, to The Singer Mfg. Co. Control for electric sewing machines. 2,962,992, 12-6-60, Cl. 112-219.
- Johnson, Ray C., and P. H. Kreikenbaum, to Eastman Kodak Co. Stack weight. 2,928,672, 3-15-60, Cl. 271-32.
- Johnson, Raymond A.: *See*—  
Finley, Samuel P., and Johnson. 2,926,518.
- Johnson, Raymond P., to Socony Mobil Oil Co., Inc. Water depth measuring device. 2,932,969, 4-19-60, Cl. 73-290.
- Johnson, Raymond W.: *See*—  
Todish, Walter D., McFadden, and Johnson. 2,966,319.
- Johnson, Reginald: *See*—  
Nicklasson, Richard, Marks, and Johnson. 2,958,938.
- Johnson, Reynold B., O. F. Moneagle, T. D. Korany, H. A. Jurgens, and M. P. Prater, to International Business Machines Corp. Record feeding devices. 2,951,699, 9-6-60, Cl. 271-7.
- Johnson, Richard B., to Ideal Toy Corp. Method of molding flash-free plastic articles. 2,936,494, 5-17-60, Cl. 18-59.
- Johnson, Richard C., to The Powell Pressed Steel Co. Lift truck platform. 2,936,986, 5-17-60, Cl. 248-120.
- Johnson, Richard E., to Steel City Electric Co. Outlet box support bracket. 2,937,837, 5-24-60, Cl. 248-228.
- Johnson, Richard E., N. C. Cahoon, and H. F. Schaefer, to Union Carbide Corp. Gas-activated and gas-depolarized deferred action cell. 2,945,079, 7-12-60, Cl. 136-90.
- Johnson, Richard E., W. G. Darland, Jr., C. A. Grulke, N. C. Cahoon, and H. F. Schaefer, to Union Carbide Corp. Gas-activated primary cells. 2,948,767, 8-9-60, Cl. 136-90.
- Johnson, Richard H., to Container Corp. of America. Shipping container with side closure. 2,947,414, 8-2-60, Cl. 206-46.
- Johnson, Richard M., and A. Loft, to General Electric Co. Fuel proportioning dual fuel system. 2,933,894, 4-26-60, Cl. 60-39.28.
- Johnson, Richard P., to Aveco Mfg. Corp. Transistor oscillator. 2,954,531, 9-27-60, Cl. 331-113.
- Johnson, Robert, to H. K. Porter Co., Inc. Flush linoleum pan for headerduct outlet. 2,936,092, 5-10-60, Cl. 220-3.7.
- Johnson, Robert, to H. K. Porter Co., Inc. Conductor conduit for multiple electrical outlet system. 2,939,101, 5-31-60, Cl. 339-23.
- Johnson, Robert A.: *See*—  
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- Johnson, Robert C.: *See*—  
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Stewart, Aubrey P., Johnson, and Anderson. 2,924,531.
- Johnson, Robert D., to Owens-Illinois Glass Co. Packaging for lift truck handling. 2,966,260, 12-27-60, Cl. 206-60.
- Johnson, Robert E., to American Flange and Mfg. Co., Inc. Tool for insertion and removal of closure fittings. 2,961,756, 11-29-60, Cl. 29-235.



- Johnson, Robert H.: See—  
 Darrow, Kenneth A., and Johnson. 2,933,237.  
 Nerad, Anthony J., and Johnson. 2,948,117.
- Johnson, Robert H., to General Electric Co. Reverse vortex combustion chamber. 2,930,192, 3-29-60, Cl. 60—39.65.
- Johnson, Robert H. Bowling pin cleaning apparatus. 2,960,337, 11-15-60, Cl. 273—54.
- Johnson, Robert H., and W. R. Nial, to General Electric Co. Aerodynamic diffuser mechanisms. 2,966,028, 12-27-60, Cl. 60—35.6.
- Johnson, Robert I. Portable miter box. 2,956,598, 10-18-60, Cl. 143—88.
- Johnson, Robert P., to Bendix Aviation Corp. Gated amplitude discriminator. 2,933,689, 4-19-60, Cl. 328—146.
- Johnson, Robert R., R. J. Stahl, and G. A. Walters, to Textron Inc. Non-magnetic electro hydraulic transfer valve. 2,928,409, 3-15-60, Cl. 137—82.
- Johnson, Robert R., and P. M. Davies, to Hughes Aircraft Co. Circuits for selectively shifting, extracting, and inserting digital information. 2,930,028, 3-22-60, Cl. 340—174.
- Johnson, Robert W., to International Harvester Co. Power transmission gearing with speed change in forward and reverse drive. 2,947,190, 8-2-60, Cl. 74—342.
- Johnson, Robert W., Jr., R. J. Mortimer, and W. H. Ashton, to Personal Products Corp. Preformed, arcuate sanitary napkins. 2,964,039, 12-13-60, Cl. 128—290.
- Johnson, Roland, to Dominion Textile Co. Ltd. Slip-free fish netting and method of making same. 2,945,412, 7-19-60, Cl. 87—1.
- Johnson, Roy L.: See—  
 Dodington, Sven H. M., and Johnson. 2,924,821.
- Johnson, S. C., and Son, Inc.: See—  
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 Bader, Alfred R. 2,933,520.  
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 Greenlee, Sylvan O. 2,933,521.  
 Greenlee, Sylvan O. 2,933,523.  
 Greenlee, Sylvan O. 2,933,528.  
 Harris, William C., and Klema. 2,966,116.  
 Leeds, Harry. 2,919,645.
- Johnson, Sam W. Bait box. 2,949,691, 8-23-60, Cl. 43—55.
- Johnson, Samuel W.: See—  
 Coulliette, James H., and Johnson. 2,956,667.
- Johnson Scale Co.: See—  
 Johnson, Allen Y. 2,931,637.
- Johnson, Scott R., to Continental Can Co., Inc. Method for solder bonding can body seams. 2,964,006, 12-13-60, Cl. 113—120.
- Johnson, Searcy H., Jr.: See—  
 Norris, Alton C., and Johnson. 2,958,538.
- Johnson Service Co.: See—  
 Dodge, Austin P. 2,964,924.  
 Janisse, Norman J. 2,964,925.
- Johnson, Sheldon B. Automatic rinsing machine for diapers. 2,959,043, 11-8-60, Cl. 68—12.
- Johnson, Smith M., and J. A. Farmwald, to Imperial Mfg. and Engineering Co. Apparatus for receiving linear material from extruding or similar machines. 2,949,000, 8-16-60, Cl. 53—123.
- Johnson, Smith M., and J. A. Farmwald, to Imperial Mfg. and Engineering Co. Carriage reciprocating mechanism. 2,949,034, 8-16-60, Cl. 74—37.
- Johnson, Spencer: See—  
 Biskup, John, Johnson, and Wetterau. 2,935,417.
- Johnson Spring Cushion Co.: See—  
 Bergstrom, Victor J. 2,925,099.
- Johnson, Stanley G., to The Johnson Gage Development Co. Pitch diameter gage with rocking gaging roll, the stud and gaging roller combination, the gaging roll and the stud. 2,940,175, 6-14-60, Cl. 33—199.
- Johnson, Stanley N., to Motor Wheel Corp. Joining sheet metal parts. 2,949,088, 8-16-60, Cl. 113—116.
- Johnson, Stanley R. Dispenser for article-containing envelopes. 2,946,482, 7-26-60, Cl. 221—240.
- Johnson, Theodore B., to Remington Arms Co., Inc. Primary cell electrolyte. 2,952,572, 9-13-60, Cl. 136—154.
- Johnson, Theodore B., and F. Senko, to Remington Arms Co., Inc. Generator cell electrolyte. 2,941,909, 6-21-60, Cl. 136—154.
- Johnson, Thomas B., and B. J. Holman, to H. H. Robertson Co. Expandable drive fastener. 2,934,990, 5-3-60, Cl. 85—23.
- Johnson, Thomas D., L. S. Jones, and S. Kowalyshyn, Jr., to United States of America, Navy. Wide range depth control. 2,955,558, 10-11-60, Cl. 114—25.
- Johnson, Thomas E.: See—  
 Boyd, Walter K., Langston, and Johnson. 2,938,787.
- Johnson, Thomas E., to Stainless Foundry & Engineering, Inc. Nickel base alloys containing boron and silicon. 2,938,786, 5-31-60, Cl. 75—171.
- Johnson, Thomas J., to Gillfillan Bros. Inc. Flight pattern simulator for radar artificial aircraft. 2,929,157, 3-22-60, Cl. 35—10.4.
- Johnson, Thomas M. Sound switch. 2,957,957, 10-25-60, Cl. 200—61.01.
- Johnson, Thomas R., to Avondale Mills. Cam loom apparatus. 2,923,324, 2-2-60, Cl. 139—79.
- Johnson, Uno V.: See—  
 Jackson, Simpson, and Johnson. 2,963,240.
- Johnson, Wallace A., and A. T. Water fowl decoy. 2,947,104, 8-2-60, Cl. 43—3.
- Johnson, Wallace C., to Arcos Corp. Submerged arc welding. 2,927,990, 3-8-60, Cl. 219—73.
- Johnson, Wallace C., to Olin Mathieson Chemical Corp. Method of making plate or sheet metal articles having hollow sections. 2,957,230, 10-25-60, Cl. 29—157.3.
- Johnson, Wallace C., and H. C. Campbell, to Arcos Corp. Welding with self removing flux. 2,955,193, 10-4-60, Cl. 219—73.
- Johnson, Wallace M. L. Livebox. 2,965,259, 12-20-60, Cl. 220—6.
- Johnson, Walter C. Lawn implement. 2,966,218, 12-27-60, Cl. 172—172.
- Johnson, Walter C., and J. F. Brinster, to General Devices, Inc. Multi-signal sampling circuit. 2,958,857, 11-1-60, Cl. 340—176.
- Johnson, Walter J.: See—  
 Harris, Thomas I., Johnson, and Sandback. 2,956,475.
- Johnson, Walter J., to Bell & Howell Co. Optical objective. 2,962,930, 12-6-60, Cl. 88—57.
- Johnson, Warren B. Letter dispensing receptacle for post office. 2,935,203, 5-3-60, Cl. 211—10.
- Johnson, Warren C. Line tightener. 2,947,051, 8-2-60, Cl. 24—129.
- Johnson, Wayne A. Structure for protecting metallic columnar elements. 2,928,411, 3-15-60, Cl. 137—236.
- Johnson, Wayne R., to Minnesota Mining & Mfg. Co. Reproducing color television chrominance signals. 2,921,976, 1-19-60, Cl. 178—6.6.
- Johnson, Wayne R., to Minnesota Mining & Mfg. Co. Apparatus for wave-band division. 2,944,107, 7-5-60, Cl. 178—6.6.
- Johnson, Wayne R., to Minnesota Mining & Mfg. Co. Apparatus for recording television signals. 2,947,864, 8-2-60, Cl. 250—27.
- Johnson, Wesley W., and W. E. Barraclough, to Canadian Patents and Development Ltd. Dual-purpose midwater-bottom otterboard. 2,942,371, 6-28-60, Cl. 43—9.
- Johnson, Willard L.: See—  
 Umbrecht, Emil, Evans, and Johnson. 2,925,614.
- Johnson, Willard, to Frank W. Horner Ltd. Therapeutic composition including acetylation inhibitor. 2,937,116, 5-17-60, Cl. 167—51.5.
- Johnson, William C., Jr.: See—  
 Leatherman, Earl W., Johnson, and Ross. 2,959,785.
- Johnson, William C., Jr., to Goodyear Aircraft Corp. Airship-enclosed radar unit. 2,929,581, 3-22-60, Cl. 244—30.
- Johnson, William E., 1/2 each to H. D. Hedrick and C. H. Wolf. Tobacco treatment. 2,949,919, 8-23-60, Cl. 131—149.
- Johnson, William J. Electrical connector for building panels. 2,920,163, 1-5-60, Cl. 200—113.
- Johnson, William K., and T. L. Patton, to Monsanto Chemical Co. 9,10-dihydro-11,12-dioxo-9,10-ethanoanthracene and esters thereof. 2,938,049, 5-24-60, Cl. 260—471.
- Johnson, William P., and R. F. Elliott, to American Cyanamid Co. Animal feed composition. 2,929,712, 3-22-60, Cl. 99—2.
- Johnson, William R.: See—  
 Perry, James W., Johnson, and Frazer. 2,929,697.
- Johnson, Wray E. Portable drill press device. 2,925,001, 2-16-60, Cl. 77—7.
- Johnston, Alan H., H. O. Bohner, N. W. F. Phillips, and W. F. Southam, to Aluminium Laboratories Ltd. Conversion process for aluminum subhalide distillation. 2,937,082, 5-17-60, Cl. 75—10.
- Johnston, Alan R.: See—  
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- Johnston, Allen, & Co. Ltd.: See—  
 Mitchell, Walter. 2,940,407.
- Johnston, Arnold T.: See—  
 Kennard, Robert J. 2,925,113.
- Johnston, Arthur A. Mineral concentrator. 2,952,362, 9-13-60, Cl. 209—480.
- Johnston, Arthur D.: See—  
 Osborne, Wesley M., Edge, and Johnston. 2,965,443.
- Johnston, Buford B. Fishing bobber. 2,931,124, 4-5-60, Cl. 43—44.9.
- Johnston, Cecil E.: See—  
 Long, John B., and Johnston. 2,955,702.
- Johnston, Clair E. Perforated conveyor for potato diggers and the like. 2,944,660, 7-12-60, Cl. 198—195.
- Johnston, Clyde L.: See—  
 Herman, Emil A., and Johnston. 2,960,805.
- Johnston, David R., to British Celanese Ltd. Manufacture of organic substances of very high molecular weight. 2,925,412, 2-16-60, Cl. 260—230.
- Johnston, David R., to British Celanese Ltd. Manufacture of organic substances of very high molecular weight. 2,925,413, 2-16-60, Cl. 260—230.
- Johnston, David R., to British Celanese Ltd. Manufacture of very high molecular weight organic substances. 2,925,414, 2-16-60, Cl. 260—230.
- Johnston, Donald C., and W. R. Wilson, to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,960,294, 11-15-60, Cl. 244—135.
- Johnston, Donald C., and W. R. Wilson, to Minneapolis-Honeywell Regulator Co. Liquid level sensing apparatus. 2,965,888, 12-20-60, Cl. 340—244.
- Johnston, Donald L., and F. C. Roy, to General Electric Co. Sealing arrangement for high voltage bushings. 2,930,832, 3-29-60, Cl. 174—30.
- Johnston, Donald L., and E. F. Cronin, to General Electric Co. Sealing arrangement for electrical insulating bushings. 2,930,841, 3-29-60, Cl. 174—167.



- Johnston, Douglas, to John Blue Co. Liquid fertilizer metering pump. 2,933,049, 4-19-60, Cl. 103—175.
- Johnston, Douglas, to Blue John Co., Inc. Apparatus for dividing a source of fluid into three or more parts. 2,951,495, 9-6-60, Cl. 137—161.
- Johnston, Earl W., to United States Steel Corp. Slide caliper with dial indicator and vibrator. 2,953,854, 9-27-60, Cl. 33—147.
- Johnston, Edward J., to International Harvester Co. Rake tooth mounting. 2,931,161, 4-5-60, Cl. 56—400.
- Johnston, Everett A.: *See—*  
Laucher, Richard G., Winter, and Johnston. 2,950,595.
- Johnston, Everett E., to Sta-Parts, Inc. Pressure balance control valve. 2,947,287, 8-2-60, Cl. 121—45.
- Johnston, George E. Anchoring and identifying tripod for tape recorders. 2,946,533, 7-26-60, Cl. 242—74.1.
- Johnston, Harold C. Grinding wheel dresser. 2,926,654, 3-1-60, Cl. 125—37.
- Johnston, Henry E.: *See—*  
Bobb, Lloyd J., Johnston, and Taraborrelli. 2,924,461.
- Johnston, Herrick L., Inc.: *See—*  
May, Claude H. 2,932,175.  
Yeager, Marvin L. 2,926,810.
- Johnston, Howard, to The Dow Chemical Co. Pentachlorobenzenesulfonyl halides. 2,944,080, 7-5-60, Cl. 260—543.
- Johnston, Howard, to The Dow Chemical Co. Oxathianium, thiapyrylium and thiophenium compounds. 2,965,649, 12-20-60, Cl. 260—327.
- Johnston, Howard T., Jr., to International Business Machines Corp. Restraining device. 2,942,833, 6-28-60, Cl. 248—356.
- Johnston, James L., to R. E. Smith. Combination chair-table device. 2,922,463, 1-26-60, Cl. 155—43.
- Johnston, Jerrold J.: *See—*  
Barker, Arthur F., Johnston, and Quinn. 2,925,308.
- Johnston, John M. Extensible mop handle. 2,932,047, 4-12-60, Cl. 15—143.
- Johnston, John R., and D. J. Barbulesco, to General Motors Corp. Domestic appliance. 2,956,684, 10-18-60, Cl. 210—382.
- Johnston, Lyman C. Massaging device. 2,964,037, 12-13-60, Cl. 128—49.
- Johnston, Loyal L., to Herman Pneumatic Machine Co. Molding apparatus. 2,950,511, 8-30-60, Cl. 22—16.
- Johnston, M. Corene: *See—*  
Kennard, Robert J. 2,925,113.
- Johnston, Melvin I., and W. H. Moore, said Johnston assor. to said Moore. Clamp and support for Christmas tree branches. 2,931,603, 4-5-60, Cl. 248—42.
- Johnston, Peter R., to Columbia-Southern Chemical Corp. Aqueous hydrogen peroxide containing a small stabilizing amount of nitrilotriacetic acid. 2,950,175, 8-23-60, 23—207.5.
- Johnston, Peter R., to Columbia-Southern Chemical Corp. 1,2-diaminocyclohexane tetracetic acid as  $H_2O_2$  stabilizer. 2,961,306, 11-22-60, Cl. 23—207.5.
- Johnston, Ralph S.: *See—*  
Compagnari, Guy. 2,954,887.
- Johnston, Robert H., and I. Pass, to Esso Research and Engineering Co. Processing of steam-cracked naphtha light end products. 2,943,041, 6-28-60, Cl. 208—104.
- Johnston, Robert H., and E. A. Nirmaier, to Esso Research and Engineering Co. Naphtha steam-cracking quench. 2,951,029, 8-30-60, Cl. 208—100.
- Johnston Testers, Inc.: *See—*  
Bagnell, Edgar W., and Ansite. 2,923,562.  
O'Neill, Frank E. 2,944,606.  
Sackett, Thomas H., and Glass. 2,947,363.
- Johnston, Walker F., Jr.: *See—*  
Hamilton, Lonie W., Jr., and Johnston. 2,960,553.  
Haxton, Manford R., and Johnston. 2,944,008.  
Haxton, Manford R., Johnston, and Muller. 2,952,611.  
Haxton, Manford R., Johnston, and Teykl. 2,953,612.
- Johnston, William D.: *See—*  
Heikes, Robert R., and Johnston. 2,921,973.  
Heikes, Robert R., and Johnston. 2,953,617.
- Johnston, William R., to Standard Brands Inc. Dehydration. 2,929,150, 3-22-60, Cl. 34—9.
- Johnston, William S.: *See—*  
Pier, Jerome R., and Johnston. 2,960,942.
- Johnston, Willis T.,  $\frac{1}{2}$  to E. Dew. Furnace draft control. 2,937,697, 5-24-60, Cl. 158—28.
- Johnstone, Charles W.: *See—*  
Dewan, John T., and Johnstone. 2,961,641.
- Johnstone, Charles W., to United States of America, Atomic Energy Commission.  $N^2$  scaler. 2,931,570, 4-5-60, Cl. 235—164.
- Johnstone, Henry F., to Texas Gulf Sulphur Co. Method of producing pulping liquor. 2,922,735, 1-26-60, Cl. 162—83.
- Johnstone, Henry F., to United States of America, Atomic Energy Commission. Apparatus for cleaning gases with electrostatically charged particles. 2,924,294, 2-9-60, Cl. 183—7.
- Johnstone, John H., and K. W. Olson, to Bendix Aviation Corp. Electron discharge device. 2,945,147, 7-12-60, Cl. 313—217.
- Johnstone, Theodore H., to The Bingham-Herbrand Corp. Parking brake assembly. 2,943,511, 7-5-60, Cl. 74—529.
- Johnstone, Theodore H., to General Motors Corp. Lock. 2,949,762, 8-23-60, Cl. 70—364.
- Johnstown Research Associates, Inc.: *See—*  
Ackerbauer, Carl F. 2,935,987.
- Johnsyn, Wadsworth J., Jr. Fuel atomizing nozzle. 2,920,831, 1-12-60, Cl. 239—464.
- Johnsyn, Wadsworth J., Jr. Fuel nozzles. 2,921,742, 1-19-60, Cl. 239—125.
- Joiner, Edgar E., and J. P. Szumski, to Fred W. Mears Heel Co., Inc. Heels with nail-holding fillers. 2,949,684, 8-23-60, Cl. 36—40.
- Jointive Products Co. Ltd.: *See—*  
Amphlett, Philip H., Dundas, and Woodthorpe. 2,939,814.
- Joisel, Albert, 50% to Centre d'Etudes et de Recherches de l'Industrie des Liantes Hydrauliques. Ball-crusher. 2,937,814, 5-24-60, Cl. 241—175.
- Jokela, Allen R.: *See—*  
Beal, Laurence J., and Jokela. 2,955,604.
- Jokl, Alois L.: *See—*  
Scanlon, Earl J., and Jokl. 2,930,916.
- Jolin, Gerald, to Berwind Fuel Co. Charcoal kiln. 2,956,933, 10-18-60, Cl. 202—6.
- Joline, Everett S.: *See—*  
Jude, George F., Wheeler, and Joline. 2,933,268.
- Joline, Everett S., to Sperry Rand Corp. Speed controlling system for aircraft. 2,948,496, 8-9-60, Cl. 244—77.
- Jolitz, William L.: *See—*  
Berry, Foster W., and Jolitz. 2,964,319.
- Jolliffe, Sidney A. W., and D. W. Watson, to Marconi's Wireless Telegraph Co. Ltd. Direction finder. 2,946,998, 7-26-60, Cl. 343—118.
- Jolly, Jean: *See—*  
Joly, Robert, Nomine, and Jolly. 2,930,806.
- Jolly, John G., to Nutone, Inc. Single coil repeater solenoid. 2,946,905, 7-26-60, Cl. 310—34.
- Jolly, Paul E. Sewing machine extension table top attachment. 2,964,367, 12-13-60, Cl. 311—15.
- Jolly, Samuel E., to Sun Oil Co. Process for inhibiting corrosion of ferrous metals by oil well fluid. 2,920,040, 1-5-60, Cl. 252—8.55.
- Jolly, Samuel E., to Sun Oil Co. Stabilizing sulfonated petroleum with organic sulfoxides. 2,927,076, 3-1-60, Cl. 208—237.
- Jolly, Samuel E., to Sun Oil Co. Sulfonation of petroleum. 2,940,993, 6-14-60, Cl. 260—504.
- Jolly, Samuel E., to Sun Oil Co. Method for preparing homogeneous composition comprising oxidized petroleum wax and a polymer of a mono vinyl aromatic compound. 2,944,039, 7-5-60, Cl. 260—28.5.
- Joly, Albert. Feeler-controlled laterally shiftable plow. 2,935,138, 5-3-60, Cl. 172—5.
- Joly, Robert: *See—*  
Amiard, Gaston, Joly, and Velluz. 2,955,135.  
Bucourt, Robert, Valls, and Joly. 2,920,080.  
Warnant, Julien, and Joly. 2,927,120.
- Joly, Robert, J. Warnant, G. Nomine, and D. Bertin, to Les Laboratoires Francais de Chimiotherapie. Method of preparing 3-keto  $\Delta^4$  steroids. 2,923,721, 2-2-60, Cl. 260—397.3.
- Joly, Robert, R. Bucourt, and E. Toromanoff, to Les Laboratoires Francais de Chimiotherapie. Process of esterifying 18-hydroxy yohimbanes. 2,926,167, 2-23-60, Cl. 260—287.
- Joly, Robert, and R. Bucourt, to Les Laboratoires Francais de Chimiotherapie. Synthesis of reserpine and intermediates. 2,929,817, 3-22-60, Cl. 260—287.
- Joly, Robert, G. Nomine, and J. Jolly, to Les Laboratoires Francais de Chimiotherapie. Process of making the 3,20 disemicarbazone of cortisone acetate. 2,930,806, 3-29-60, Cl. 260—397.45.
- Joly, Robert, and J. Warnant, to Les Laboratoires Francais de Chimiotherapie. Process of producing a brominated lactone useful in the preparation of reserpine and related compounds. 2,951,852, 9-6-60, Cl. 260—343.3.
- Joly, Robert, and G. Nomine, to Les Laboratoires Francais de Chimiotherapie. Process of dehydrobrominating keto steroids and products obtained thereby. 2,951,856, 9-6-60, Cl. 260—397.3.
- Joly, Robert, and R. Bucourt, to Les Laboratoires Francais de Chimiotherapie. Process of dehydrogenating compounds of the reserpine series. 2,957,000, 10-18-60, Cl. 260—287.
- Joly, Robert, J. Mathieu, and J. Warnant, to Les Laboratoires Francais de Chimiotherapie. Process of preparing the lactone of 8 $\beta$ -hydroxy-2 $\alpha$ -methoxy-3 $\beta$ ,5 $\beta$ -epoxy-1,2,3,4,4a,5,8,8a-octahydronaphthalene-1 $\beta$ -carboxylic acid. 2,957,008, 10-18-60, Cl. 260—343.3.
- Joly, Robert, and J. Warnant, to Les Laboratoires Francais de Chimiotherapie. Process of preparing pregnene compounds having at least one double bond and one bromine atom in their molecule and products obtained. 2,957,890, 10-25-60, Cl. 260—397.3.
- Joly, Robert, J. Warnant, and J. Prost-Marechal, to Les Laboratoires Francais de Chimiotherapie. Novel process for the production of androsterone and the resulting novel intermediate. 2,966,500, 12-27-60, Cl. 260—397.4.
- Jomac, Inc.: *See—*  
Edwards, Russell F. 2,964,834.
- Jonah, Frederick C., to Chance Vought Aircraft, Inc. Tandem rocket launcher and firing system. 2,930,288, 3-29-60, Cl. 89—1.7.
- Jonas, Frank D., and E. D. Patterson, to Oxford Filing Supply Co. Inc. Suspension filing system. 2,935,204, 5-3-60, Cl. 211—46.
- Jonas, Le Roy F., to Jonas & Sons, Inc. Power fleshing machines. 2,942,448, 6-28-60, Cl. 69—46.
- Jonas, Robert P., and P. N. De Sarlo, to The Garrett Corp. Strain gauge weighing balance. 2,955,811, 10-11-60, Cl. 265—54.
- Jonas & Sons, Inc.: *See—*  
Jonas, Le Roy F. 2,942,448.



- Jonason, Olof G.: *See*—  
Jacobaeus, Anton C., Jonason, and Jacob. 2,929,879.
- Jonassen, Hans B.: *See*—  
McNeill, William, and Jonassen. 2,936,218.
- Jonasson, Axel V., to Reed Mfg. Co. Pipe cutter. 2,956,339, 10-18-60, Cl. 30-101.
- Jonasson, Sven, and W. Pucher, to Allmanna Svenska Elektriska Aktiebolaget. Extinguishing chamber in oil circuit breakers for medium voltages. 2,948,791, 8-9-60, Cl. 200-150.
- Jones, Alfred L. Card-supporting clip. 2,930,156, 3-29-60, Cl. 40-11.
- Jones, Alice F.: *See*—  
Brase, George. 2,943,522.  
Brase, George. 2,951,406.
- Jones, Allen H., and N. W. Hilliker, to The W. W. Sly Mfg. Co. Dust collector. 2,938,598, 5-31-60, Cl. 133-61.
- Jones, Allen P., W. M. Watts, and J. A. Zitz, to American Viscose Corp. Film shredder having oscillating guide nozzle for twisting web during feed. 2,930,535, 3-29-60, Cl. 241-301.
- Jones, Arthur F., and D. A. Rice, to Republic Steel Corp. Apparatus for supporting and conducting electric current to a load. 2,964,580, 12-13-60, Cl. 13-16.
- Jones, Arthur L., W. B. Howsmon, Jr., and E. C. Hughes, to The Standard Oil Co. Gasoline containing dimethyl formamide and boron compound as anti-icing additive. 2,958,591, 11-1-60, Cl. 44-63.
- Jones, Barton. Flow restrictor. 2,925,096, 2-16-60, Cl. 137-781.
- Jones, Barton. Valve release for differential pressure responsive devices. 2,945,510, 7-19-60, Cl. 137-790.
- Jones, Beauford E., Jr., and A. H. Huehn; said Huehn assor. to L. C. McKee. Ice cutting device. 2,955,805, 10-11-60, Cl. 255-69.
- Jones, Ben S.: *See*—  
Truesdell, Robert E., and Jones. 2,954,310.
- Jones, Benjamin F., to The B. F. Goodrich Co. Wheel and brake. 2,955,677, 10-11-60, Cl. 183-18.
- Jones, Benjamin W., and M. B. Neuwirth, to Consolidation Coal Co. Method for recovering purified phenolic isomers from low boiling cresylic acids. 2,931,787, 4-5-60, Cl. 260-53.
- Jones, Brian H.: *See*—  
Hallam, Thomas B., Jones, and Kidd. 2,926,770.
- Jones, Cecil I. Tire deflation signal. 2,931,867, 4-5-60, Cl. 200-61.25.
- Jones, Cecil D.: *See*—  
Thom, Wenzel W. 2,948,994.
- Jones, Cerny F. F. to Perfect Circle Corp. Automatic piston loader. 2,922,222, 1-26-60, Cl. 29-211.
- Jones, Charles E.: *See*—  
Schneider, William S. 2,942,760.
- Jones, Charles E., to Jones, Tate & Co. Control apparatus. 2,943,214, 6-28-60, Cl. 307-115.
- Jones, Charles E., and W. G. Crowle, to Manning Mfg. Corp. Tool fastening means for a skate. 2,926,924, 3-1-60, Cl. 280-11.3.
- Jones, Charles E., and W. G. Crowle, to Manning Mfg. Corp. Extensible roller skate. 2,927,797, 3-8-60, Cl. 280-11.26.
- Jones, Charles E., and W. G. Crowle, to Manning Mfg. Corp. Extensible roller skate having resiliently mounted trucks. 2,927,798, 3-8-60, Cl. 280-11.26.
- Jones, Charles E., and W. G. Crowle, to D. D. Kipnis and E. Schwartz. Slide skate. 2,929,636, 3-22-60, Cl. 280-11.13.
- Jones, Charles H., to Westinghouse Electric Corp. Color television receiver. 2,937,251, 5-17-60, Cl. 178-5.4.
- Jones, Charles H., to United States of America, Navy. Anti-leakthrough phase comparator. 2,952,809, 9-13-60, Cl. 324-87.
- Jones, Charles H., Jr. Starter for an internal combustion engine. 2,920,612, 1-12-60, Cl. 123-179.
- Jones, Clarence I., and R. I. Van Nice, to Westinghouse Electric Corp. Selectable frequency reference. 2,937,337, 5-17-60, Cl. 328-48.
- Jones, Claude E., Jr., to International Telephone and Telegraph Corp. Narrow-band video communication system. 2,955,159, 10-4-60, Cl. 178-7.2.
- Jones, Clifford: *See*—  
Roche, Arthur F., Tubbs, and Jones. 2,941,977.
- Jones, Clyde E. Jet orifice assembly. 2,931,393, 4-5-60, Cl. 138-44.
- Jones, Craig. Road packer. 2,929,304, 3-22-60, Cl. 94-50.
- Jones, Dale G., to Seismograph Service Corp. Ambiguity resolution in radio location systems. 2,930,037, 3-22-60, Cl. 343-105.
- Jones, Daniel J., to General Electric Co. Metal enclosed electric switchgear. 2,927,249, 3-1-60, Cl. 317-99.
- Jones, Daniel J., and D. E. Piccone, to General Electric Co. Interlock mechanism for an enclosed electric switch. 2,954,444, 9-27-60, Cl. 200-50.
- Jones, Dave J. and D. D. Bobby pin gun. 2,930,383, 3-29-60, Cl. 132-1.
- Jones, David G.: *See*—  
Delapena, Leslie S., Frost, and Jones. 2,958,524.
- Jones, Derrick A., to Fairchild Camera and Instrument Corp. Incremental linear actuator for preventing retrograde motion. 2,926,468, 3-1-60, Cl. 51-165.
- Jones, Dolly D.: *See*—  
Jones, Dave J. and D. D. 2,930,383.
- Jones, Donald C., and R. J. Laufer, to Consolidation Coal Co. Purification of thiophenols by treatment with aluminum. 2,957,029, 10-18-60, Cl. 260-609.
- Jones, Donald R. Dial thermometer alarm device. 2,923,786, 2-2-60, Cl. 200-56.
- Jones, Donald R., to Motorola, Inc. Pocket type radio receiver construction. 2,924,705, 2-9-60, Cl. 250-14.
- Jones, Dougan L., and C. Langewis, to The Marley Co. Method of affixing fins to tubing. 2,945,296, 7-19-60, Cl. 29-496.
- Jones, E. D., Corp.: *See*—  
Cumpston, Edward H., Jr. 2,951,518.  
Durant, Leonard G. 2,954,883.
- Jones, Earl P., to Gate City Sash and Door Co. Window and operator therefor. 2,953,368, 9-20-60, Cl. 268-106.
- Jones, Edward M.: *See*—  
Winder, Clayton F., and Jones. 2,956,171.
- Jones, Edward M., to The Baldwin Piano Co. Electronic synchronizing system for producing pitch discs and the like. 2,924,138, 2-9-60, Cl. 84-1.28.
- Jones, Edward M., to The Baldwin Piano Co. Cyclic pulse generating system. 2,943,210, 6-28-60, Cl. 250-230.
- Jones, Edward M., to The Baldwin Piano Co. Digital pattern producing equipment. 2,950,470, 8-23-60, Cl. 340-347.
- Jones, Edward M. T.: *See*—  
Honey, Richard C., Jones, and Cohn. 2,954,558.
- Jones, Edward N. Fluid pressure operated bottom hole chemical injector. 2,928,471, 3-15-60, Cl. 166-162.
- Jones, Eldon D. Hydraulic hoist attachment for tractors. 2,957,678, 10-25-60, Cl. 254-139.1.
- Jones, Eric H., and J. J. Vincent, to The British Cotton Industry Research Association. Method and means for the automatic regulation of the continuous application of specified amounts of solids or liquids to a moving sheet of material. 2,956,905, 10-18-60, Cl. 117-120.
- Jones, Ernest A., J. D. Leonard, and D. F. Yaw, to North American Aviation, Inc. Circularly polarizing horn antenna. 2,942,261, 6-21-60, Cl. 343-756.
- Jones, Eurgain. Dowel jigs. 2,930,263, 3-29-60, Cl. 77-62.
- Jones, Everett E., to Fairchild Engine and Airplane Corp. Automatic drilling apparatus. 2,953,046, 9-20-60, Cl. 77-24.
- Jones, Eynon, and O. H. Tracy. Confection and method of making the same. 2,950,200, 8-23-60, Cl. 99-137.
- Jones, Frank D.: *See*—  
Silverberg, Bernard M., and Jones. 2,950,938.
- Jones, Frank D., to Deere & Co. Ear pick-up rollers for corn harvesters. 2,927,414, 3-8-60, Cl. 56-104.
- Jones, Frank D., to Deere & Co. Corn harvester and stalk cutters therefor. 2,934,879, 5-3-60, Cl. 56-63.
- Jones, Frank D., to Deere & Co. Conveyor with retractable lugs. 2,959,272, 11-8-60, Cl. 198-170.
- Jones, Frank D., to Deere & Co. Corn harvester. 2,960,813, 11-22-60, Cl. 56-106.
- Jones, Fred: *See*—  
Howarth, Arthur J., Jones, and Wortley. 2,954,880.
- Jones, Frederick B., to American Enka Corp. Manufacture of pigmented viscose rayon. 2,934,449, 4-26-60, Cl. 106-165.
- Jones, Frederick B., to American Enka Corp. Production of filaments having improved whiteness. 2,950,207, 8-23-60, Cl. 106-165.
- Jones, Frederick L.: *See*—  
Sharp, Thomas A., and Jones. 2,936,241.
- Jones, Frederick M., to Thermo King Corp. Thermostat and temperature control system. 2,926,005, 2-23-60, Cl. 257-287.
- Jones, Geoffrey T.: *See*—  
Rushton, Frederick N., Mead, and Jones. 2,962,742.
- Jones, George L., and G. H. Bateman, to Divco-Wayne Corp. Hysteresis electric motor. 2,935,630, 5-3-60, Cl. 310-67.
- Jones, Gerald W.: *See*—  
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- Jones, Gordon H., to Giddings & Lewis Machine Tool Co. Chip collector for milling machine. 2,944,465, 7-12-60, Cl. 90-11.
- Jones, Gordon H., to Giddings & Lewis Machine Tool Co. Gear drive. 2,946,232, 7-26-60, Cl. 74-409.
- Jones, Grandville R., and J. Bentkowsky, to Sperry Rand Corp. Steering systems for navigational craft. 2,945,170, 7-12-60, Cl. 318-489.
- Jones, Griffin L. Metal marking ink. 2,962,398, 11-29-60, Cl. 148-6.14.
- Jones, Guy R.: *See*—  
Bell, Norman, and Jones. 2,935,430.
- Jones, Harold S.: *See*—  
Whittlesey, Welsh C., Jones, and Lewis. 2,942,310.
- Jones, Harry H., to E. I. du Pont de Nemours and Co. Hot paint dip tank. 2,930,349, 3-29-60, Cl. 118-602.
- Jones, Harry S. Thermal imaging device. 2,959,678, 11-8-60, Cl. 250-83.
- Jones, Harry W., to Dempster Brothers, Inc. Baling presses. 2,923,231, 2-2-60, Cl. 100-232.
- Jones, Harry W., to Dempster Brothers, Inc. Containers for self-loading vehicles. 2,949,199, 8-16-60, Cl. 214-302.
- Jones, Harry W., to Dempster Bros., Inc. Transporting and dumping equipment. 2,951,604, 9-6-60, Cl. 214-317.
- Jones, Harry W., and G. R. Dempster; said Jones assor. to Dempster Brothers, Inc. Transporting equipment. 2,963,185, 12-6-60, Cl. 214-505.



- Jones, Herbert S. Building structure. 2,948,362, 8-9-60, Cl. 189-2.
- Jones, Hiltan E.: *See*—  
Jackson, Leonard D., and Jones. 2,960,934.
- Jones, Howard A., J. A. Garman, and B. C. Dickinson, to Food Machinery and Chemical Corp. Synergistic insecticidal compositions. 2,945,780, 7-19-60, Cl. 167-22.
- Jones, Howard A., J. A. Garman, and B. C. Dickinson, to Food Machinery and Chemical Corp. Synergistic insecticidal compositions. 2,946,718, 7-26-60, Cl. 167-22.
- Jones, Howard A., J. A. Garman, and B. C. Dickinson, to Food Machinery and Chemical Corp. Synergistic insecticidal compositions. 2,946,719, 7-26-60, Cl. 167-22.
- Jones, Howard A., J. A. Garman, and B. C. Dickinson, to Food Machinery and Chemical Corp. Synergistic insecticidal compositions. 2,955,069, 10-4-60, Cl. 167-22.
- Jones, Howard A., J. A. Garman, and B. C. Dickinson, to Food Machinery and Chemical Corp. Synergistic insecticidal compositions. 2,955,070, 10-4-60, Cl. 167-22.
- Jones, Howard A., J. A. Garman, and B. C. Dickinson, to Food Machinery and Chemical Corp. Synergistic insecticidal compositions. 2,960,430, 11-15-60, Cl. 167-22.
- Jones, Howard A., J. A. Garman, and B. C. Dickinson, to Food Machinery and Chemical Corp. Synergistic insecticidal compositions. 2,960,431, 11-15-60, Cl. 167-22.
- Jones, Howard A., J. A. Garman, and B. C. Dickinson, to Food Machinery and Chemical Corp. Synergistic insecticidal compositions. 2,960,432, 11-15-60, Cl. 167-30.
- Jones, Howard A., J. A. Garman, and B. C. Dickinson, to Food Machinery and Chemical Corp. Synergistic insecticidal compositions. 2,961,869, 11-22-60, Cl. 167-22.
- Jones, Howard A., J. A. Garman, and B. C. Dickinson, to Food Machinery and Chemical Corp. Synergistic insecticidal compositions. 2,961,870, 11-22-60, Cl. 167-22.
- Jones, Howard A., J. A. Garman, and B. C. Dickinson, to Food Machinery and Chemical Corp. Synergistic insecticidal compositions. 2,961,871, 11-22-60, Cl. 167-30.
- Jones, Howard A., J. A. Garman, and B. C. Dickinson, to Food Machinery and Chemical Corp. Synergistic insecticidal compositions. 2,963,398, 12-6-60, Cl. 167-22.
- Jones, Howard L. to T-A Mfg. Corp. Fluid conduit insulating means. 2,964,064, 12-13-60, Cl. 138-64.
- Jones, Jack. Grinder holder. 2,964,888, 12-20-60, Cl. 51-247.
- Jones, James A. Self locking wedge. 2,958,562, 11-1-60, Cl. 306-33.
- Jones, James B., to Aeroprojects, Inc. Process for generating aerosol and apparatus therefor. 2,929,563, 3-22-60, Cl. 239-8.
- Jones, James B., and J. L. Straughn, to Aeroprojects, Inc. Aerosolization process. 2,944,029, 7-5-60, Cl. 252-305.
- Jones, James B., W. C. Elmore, and C. F. De Prisco, to Aeroprojects, Inc. Method and apparatus employing vibratory energy for bonding metals. 2,946,119, 7-26-60, Cl. 29-470.
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- Jones, Jean E.: *See*—  
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- Jones, John B.: *See*—  
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- Jones, John B., Jr.: *See*—  
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- Jones, John D.: *See*—  
En Dean, Howard J., Jones, and Topanelian. 2,924,966.  
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- Jones, John E.: *See*—  
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- Jones, John F.: *See*—  
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- Jones, John G., to A. O. Smith Corp. Apparatus for establishing arching of fibrous material. 2,955,720, 10-11-60, Cl. 214-17.
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- Jones, John P., and E. C. Levit, to Whirlpool Corp. One level dishwasher. 2,960,990, 11-22-60, Cl. 134-95.
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- Jones, John W., Jr. Variable drawing curve. 2,923,066, 2-2-60, Cl. 33-177.
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- Jones, Kenneth R., to The Western Union Telegraph Co. Frequency modulated oscillator with distortion cancellation. 2,923,892, 2-2-60, Cl. 332-18.
- Jones, Kenneth W., and P. J. Jackson, to The Associated Portland Cement Manufacturers Ltd. Paints based on Portland cement. 2,934,445, 4-26-60, Cl. 106-95.
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- Jones & Lamson Machine Co.: *See*—  
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- Jones & Laughlin Steel Corp.: *See*—  
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Djuvik, Carl. 2,923,965.  
Foster, John J. 2,958,243.  
Gettelman, Gilbert C. 2,965,310.
- Jones, Leon, and D. H. Lawrence, to Robertshaw-Fulton Controls Co. Quick disconnect coupling. 2,923,567, 2-2-60, Cl. 287-87.
- Jones, Leonard S.: *See*—  
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Kowalyshyn, Stephen, Daly, Jones, Osbon, and Beatty. 2,938,486.
- Jones, LeRoy T. Toy projectile. 2,923,090, 2-2-60, Cl. 46-86.
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- Jones, Lewis: *See*—  
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- Jones, Llewellyn, to Strongcraft Products, Inc. Collapsible bottle carrier. Re. 2,4785, 2-16-60, Cl. 220-110.
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- Jones, Marvin R., to Jersey Production Research Co. Latching overshot well blowout closure device. 2,946,386, 7-26-60, Cl. 166-95.
- Jones, Matthew T., to Union Carbide Corp. Method for joining carbon articles. 2,927,879, 3-8-60, Cl. 154-126.
- Jones, Maurice E. Polishing device and method. 2,933,749, 4-26-60, Cl. 15-97.
- Jones, Merton H., and J. Peters, to Bohn Aluminum & Brass Corp. Casting machine for casting hollow articles. 2,939,190, 6-7-60, Cl. 22-151.
- Jones, Morton E., to Texas Instruments Inc. Method of making ohmic connections to silicon semiconductor devices. 2,929,137, 3-22-60, Cl. 29-492.
- Jones, Morton E., to Texas Instruments Inc. Transistors and method of fabricating same. 2,934,685, 4-26-60, Cl. 317-235.
- Jones, Norman M.: *See*—  
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- Jones, Paul L., to General Motors Corp. Polishing discs. 2,936,553, 5-17-60, Cl. 51-193.



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- Jones, Preston A., to said P. A. Jones and W. D. Runswick. Lighting fixture globe unit. 2,958,764, 11-1-60, Cl. 240-73.
- Jones, R. A., and Co., Inc.: See—  
Jones, Wickliffe. 2,930,175.
- Jones, Richard E.: See—  
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- Jones, Richard H.: See—  
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- Jones, Richard H., to Burroughs Corp. Rotary read-out and storage device. 2,955,758, 10-11-60, Cl. 235-161.
- Jones, Richard N., and J. M. A. Nadeau. Spectrometric cell structure and charging method therefor. 2,927,209, 3-1-60, Cl. 250-43.5.
- Jones, Robert C.: See—  
De Young, John A., Fairbank, Jones, Matz, and Wolff. 2,935,942.  
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- Jones, Robert C. Kite. 2,960,298, 11-15-60, Cl. 244-153.
- Jones, Robert E., to Sierra Engineering Co. Controlled cold flow plastic bearing for swivel joints. 2,944,846, 7-12-60, Cl. 287-91.
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- Jones, Robert E., to Sanford-Day Iron Works, Inc. of Tennessee. Brake control cars. 2,966,236, 12-27-60, Cl. 188-41.
- Jones, Robert E., and S. A. Robinson, to Merck & Co., Inc. Process of making 20-semi carbozone derivatives of 17-acyloxymethyl carbonyl pregnane compound. 2,933,516, 4-19-60, Cl. 260-397.45.
- Jones, Robert F.: See—  
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- Jones, Robert H., R. M. Nagel, and C. N. Wolf, to Petro-Tex Chemical Corp. Olefin polymerization with pretreated catalyst. 2,936,302, 5-10-60, Cl. 260-93.7.
- Jones, Robert L., to Kaiser Aluminum & Chemical Corp. Starch-borax settling aid and process of using. 2,935,377, 5-3-60, Cl. 23-143.
- Jones, Robert M., to Admiral Corp. Automatic gain control circuit for television apparatus. 2,921,130, 1-12-60, Cl. 178-7.3.
- Jones, Robert M., to Admiral Corp. Television receiver contrast control. 2,927,156, 3-1-60, Cl. 178-7.3.
- Jones, Royce J.: See—  
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- Jones, Rufus E., Illuminated display means for garments. 2,962,580, 11-29-60, Cl. 240-6.4.
- Jones, Rufus V., and J. N. Scott, to Phillips Petroleum Co. Composition comprising pitch and chlorinated polyolefin, article prepared therefrom and method of making. 2,930,726, 3-29-60, Cl. 154-43.
- Jones, Sam A., to Consolidation Coal Co. Overhead solids withdrawal means for fluidized solids contacting vessels. 2,933,824, 4-26-60, Cl. 34-57.
- Jones, Samuel O., to Newport News Shipbuilding and Dry Dock Co. Apparatus for electric arc stud welding. 2,942,096, 6-21-60, Cl. 219-98.
- Jones, Sherwood P., and J. J. Keenan, to Engelhard Industries, Inc. Method of making electrical contacts. 2,925,647, 2-23-60, Cl. 29-155.55.
- Jones, Sydney, and R. E. Glading, to National Research Development Corp. Torque motors. 2,932,752, 4-12-60, Cl. 310-166.
- Jones, Tamar O., Distance measuring device. 2,924,014, 2-9-60, Cl. 33-71.
- Jones, Tate & Co.: See—  
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- Jones, Thomas C., and T. Mulvey, to Metropolitan-Vickers Electrical Co. Ltd. Mechanical linkages. 2,958,776, 11-1-60, Cl. 250-53.
- Jones, Thomas F., Jr.: See—  
Adams, William L., and Jones. 2,932,690.
- Jones, Thomas F., Jr., to General Electronic Laboratories, Inc. Magnetic amplifier. 2,933,672, 4-19-60, Cl. 323-89.
- Jones, Thomas F., Jr., and H. G. Williams, to General Electronic Laboratories, Inc. Magnetic amplifier control system. 2,933,673, 4-19-60, Cl. 323-89.
- Jones, Thomas G., Jr., and F. E. Null, to United States of America, Air Force. Ground target seeker. 2,951,658, 9-6-60, Cl. 244-14.
- Jones, Thomas M.: See—  
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Tarbutton, Grady, Farr, Jones, and Lewis, Jr. 2,963,344.
- Jones, Ulisses M. Automatically reversing tape player. 2,941,737, 6-21-60, Cl. 242-55.12.
- Jones, Virgil D.: See—  
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- Jones, Walter A.: See—  
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- Jones, Walter O., to The Wean Engineering Co., Inc. Means for sealing rotating shafts. 2,937,896, 5-24-60, Cl. 288-3.
- Jones, Warren C., to Bell Aerospace Corp. Structural panel. 2,962,403, 11-29-60, Cl. 154-45.9.
- Jones, Wesley N., and W. Ewanus, to Westinghouse Electric Corp. Apparatus for generating an electrical signal having a triangular waveform. 2,933,623, 4-19-60, Cl. 307-88.5.
- Jones, Wickliffe, to R. A. Jones and Co., Inc. Carton sealing apparatus. 2,930,175, 3-29-60, Cl. 53-388.
- Jones, William B., to International Business Machines Corp. Lubrication apparatus. 2,959,456, 11-8-60, Cl. 308-187.
- Jones, William G. M., and J. M. Thorp, to Imperial Chemical Industries Ltd. Method of determining cardiac chemical and composition therefor. 2,938,833, 5-31-60, Cl. 167-84.5.
- Jones, William H., to Esso Research and Engineering Co. Preparation of improved olefin alkylation feeds. 2,943,119, 6-28-60, Cl. 260-671.
- Jones, William H., and J. P. Costas, to General Electric Co. Controllable signal transmission network. 2,951,980, 9-6-60, Cl. 323-16.
- Jones, William L., to Bush Hog Mfg. Co., Inc. Mower lift means. 2,949,004, 8-16-60, Cl. 56-25.4.
- Jonke, Joseph L., to Fairchild Camera and Instrument Corp. Hollow shaft multi-unit potentiometer. 2,923,906, 2-2-60, Cl. 338-135.
- Jonker, Gerard H., and J. M. Cluwen, to North American Philips Co., Inc. Device for modulating and/or amplifying electric signals. 2,920,276, 1-5-60, Cl. 330-10.
- Jonker, Gerard H., H. P. J. Wijn, and P. B. Braun, to North American Philips Co., Inc. Ferromagnetic material. 2,946,752, 7-26-60, Cl. 252-62.5.
- Jonker, Gerard H., H. P. J. Wijn, and P. B. Braun, to North American Philips Co., Inc. Ferromagnetic material. 2,946,753, 7-26-60, Cl. 252-62.5.
- Jonker, Gerard H., H. P. J. Wijn, and P. B. Braun, to North American Philips Co., Inc. Ferrites of decreased initial permeability at high frequencies. 2,955,085, 10-4-60, Cl. 252-62.5.
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- Jonker, Hendrik, R. J. H. Alink, and T. W. van Rijssel, to North American Philips Co., Inc. Photographic process. 2,929,709, 3-22-60, Cl. 96-49.
- Jonker, Hendrik, R. J. H. Alink, and T. W. van Rijssel, to North American Philips Co., Inc. Photographic process. 2,952,538, 9-13-60, Cl. 96-48.
- Jonkers, Cornelius O., and J. W. L. Kohler, to North American Philips Co., Inc. Gaseous medium leakage prevention arrangement for a hot-gas reciprocating machine. 2,943,453, 7-5-60, Cl. 62-6.
- Jonson, Henry C., to Aktiebolaget Valida Maskiner. Conveying equipment. 2,934,197, 4-26-60, Cl. 198-38.
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- Jooss, Reinhold, and L. F. Harding, to The C. O. Bartlett & Snow Co. Sprue cleaning mill. 2,955,305, 10-11-60, Cl. 15-90.
- Joormann, Hendrik J. M.: See—  
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- Jopson, Howard B., to United States of America, Navy. Reversible transmission. 2,949,038, 8-16-60, Cl. 74-361.
- Jordan, Arthur D., Jr., to Rohm & Haas Co. Release-coatings, film- and sheet-casting bases for substrates. 2,923,646, 2-2-60, Cl. 117-155.
- Jordan, Cecil K.: See—  
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- Jordan, Clarence C. Bait. 2,952,935, 9-20-60, Cl. 43-26.2.
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- Jordan, Hans, to Given Machinery Co. Cushioned hanging device for garbage grinders. 2,925,225, 2-16-60, Cl. 241-100.5.
- Jordan, Hans, to Given Machinery Co. Disposal device for culinary waste. 2,940,677, 6-14-60, Cl. 241-257.
- Jordan, Hans, to Given Machinery Co. Resilient hanging device for waste disposal apparatus. 2,945,635, 7-19-60, Cl. 241-100.5.
- Jordan, Hans, to Given Machinery Co. Splash guard with plug for waste disposal apparatus. 2,948,482, 8-9-60, Cl. 241-100.5.
- Jordan, Hans, to Waste King Corp. Waste disposal device having noise damping means. 2,965,318, 12-20-60, Cl. 241-46.
- Jordan, Homer G., to Bell Telephone Laboratories, Inc. Slide switch. 2,966,570, 12-27-60, Cl. 200-164.
- Jordan, Hubert F., and W. V. Smith, to United States Rubber Co. Treatment with ionizing radiation of polyethylene containing particulate filler reacted with vinyltriethoxysilane. 2,952,595, 9-13-60, Cl. 204-154.
- Jordan, James D., to United States of America, Navy. Safety gate. 2,919,648, 1-5-60, Cl. 102-70.2.
- Jordan, John W. Kite. 2,927,752, 3-8-60, Cl. 244-153.
- Jordan, John W., to National Lead Co. Modified clay complexes and method of preparation. 2,966,506, 12-27-60, Cl. 260-448.
- Jordan, Joseph G.: See—  
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- Jordan, Merrill E., and W. G. Burbine, to Godfrey L. Cabot, Inc. Protective coating compositions comprising pyrogenic silica. 2,947,713, 8-2-60, Cl. 260-19.
- Jordan, Prentiss, and C. C. Long. Refrigerated bottle vending apparatus. 2,935,225, 5-3-60, Cl. 221-150.
- Jordan, Richard H., to Barnes Mfg. Co. Single lever control valve. 2,939,183, 11-8-60, Cl. 137-119.
- Jordan, Robert O., and J. Cunningham, to R. O. Jordan, J. Cunningham, R. S. Groetzinger, E. Marker, S. Stoltz, T. R. Juettner, and J. J. Cassidy, Jr. Single channel binaural or stereophonic sound system. 2,927,963, 3-8-60, Cl. 179-1.
- Jordan, Silvia W. Garment holder. 2,926,821, 3-1-60, Cl. 223-66.
- Jordan, Terence B., and H. A. Kirsch, to Texaco Inc. Extreme pressure lubricant. 2,932,615, 4-12-60, Cl. 252-372.
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- Jorgensen, Anders O., P. O. Skoldberg, and R. N. A. Thysk, to Telefonaktiebolaget L M Ericsson. Installation for manufacturing contact spring assemblies. 2,961,752, 11-29-60, Cl. 29-203.
- Jorgensen, Bernhardt, to United Shoe Machinery Corp. Lasting machines. 2,963,718, 12-13-60, Cl. 12-7.1.
- Jorgensen, Charles T. Conveyor chain. 2,960,210, 11-15-60, Cl. 198-177.
- Jorgensen, Chester N.: See—  
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- Jorgensen, Lester V., to The Chemstrand Corp. Heating device. 2,920,176, 1-5-60, Cl. 219-19.
- Jorgensen, Otto A., to General Dynamics Corp. Signal phasing system. 2,932,012, 4-5-60, Cl. 340-174.
- Jorgensen, Otto C., to General Dynamics Corp. Frequency discriminator. 2,922,042, 1-19-60, Cl. 250-31.
- Jorgensen, Paul S., to American Bosch Arma Corp. Gyro suspension. 2,959,059, 11-8-60, Cl. 74-5.0.
- Jorgensen, Rolf, to A/S Ardal og Sunddal Verk. Process for the protection of carbon electrodes for electric furnaces. 2,949,430, 8-16-60, Cl. 252-502.
- Jorgensen, Thomas D., to Graflex, Inc. Slide changing attachment. 2,940,197, 6-14-60, Cl. 40-79.
- Jorgensen, Walter T. Pulse reaction combustion engine. 2,920,444, 1-12-60, Cl. 60-35.6.
- Jori, Luciano. Thread stretching device for wet spinning more particularly of viscose rayon. 2,920,346, 1-12-60, Cl. 18-8.
- Jorick, Paul, Jr. Corner clamp. 2,936,803, 5-17-60, Cl. 144-293.
- Joris, George G.: See—  
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- Joris, George G., to Allied Chemical Corp. Alkylation and dealkylation processes. 2,945,072, 7-12-60, Cl. 260-671.
- Jorn, Raoul, and W. Beck. Elastic wheel. 2,923,570, 2-2-60, Cl. 295-11.
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- Josendal, Virgil A., and R. J. Stegemeier, to Union Oil Co. of California. Method and apparatus for determining direction of fluid flow in boreholes. 2,947,359, 8-2-60, Cl. 166-4.
- Joseph, Alphonse, to James Whitson and Co. Ltd. Apparatus for positioning a first movable member in dependence upon the position of a second movable member. 2,946,236, 7-26-60, Cl. 74-480.
- Joseph, Carl F.: See—  
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- Joseph, David. Cement dispensing device. 2,940,298, 6-14-60, Cl. 72-128.
- Joseph, Harold J. Car uncoupler for toy trains. 2,944,683, 7-12-60, Cl. 213-211.
- Joseph, James. Automobile clothes rack. 2,926,827, 3-1-60, Cl. 224-42.45.
- Joseph, Joseph P., to Sperry Rand Corp. Stop control for proportional spacing typewriter. 2,938,619, 5-31-60, Cl. 197-84.
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- Josephs, Melvin J. Method for the control of the growth of vegetation. 2,926,078, 2-23-60, Cl. 71-2.3.
- Josephson, Gilbert. Combination candle and flower arranger. 2,929,171, 3-22-60, Cl. 47-41.
- Josephson, Gilbert. Crimped wire tubing for purposes of support. 2,929,511, 3-22-60, Cl. 211-60.
- Josephson, Richard V. Ventilators for sealed windows and the like. 2,936,694, 5-17-60, Cl. 98-98.
- Josephson, Vernal: See—  
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- Josephson, Vernal, to United States of America, Atomic Energy Commission. Magnetic method for producing high velocity shock waves in gases. 2,922,890, 1-26-60, Cl. 250-84.5.
- Josephson, Vernal, to United States of America, Atomic Energy Commission. High energy gaseous discharge device. 2,925,512, 2-16-60, Cl. 313-155.
- Joslyn, Carl K.: See—  
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- Jost-Werke GmbH: See—  
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- Jouin, Germain L., to The Hobart Mfg. Co. Slicing machine. 2,923,337, 2-2-60, Cl. 146-78.
- Joukainen, Arnold S., P. J. Moroz, and E. C. Sutton, to E. I. du Pont de Nemours and Co. Sealing means for rotary pumps. 2,920,347, 1-12-60, Cl. 18-12.
- Joullie, Maurice, M. Lauree, G. Maillard, and P. Muller, to Recherches et Propagande Scientifiques (Societe a Responsabilite Limitee). Bis amino ethyl disulphide compounds. 2,944,065, 7-5-60, Cl. 260-326.
- Joullie, Maurice, M. Lauree, G. Maillard, and P. Muller, to Recherches et Propagande Scientifiques. Production of bis-chloromethyl bisulphide. 2,966,520, 12-27-60, Cl. 260-608.
- Journal Co., The: See—  
Miller, Robert E. 2,942,715.
- Journalstop Co., The: See—  
Sale, William H. 2,941,849.
- Journey, Clarence E., and H. E. Caldwell. Device to facilitate the pressing of sleeves of garments on steam air presses. 2,948,447, 8-9-60, Cl. 223-74.
- Jovanovich, Drago K. Helicopter rotor blade. 2,941,603, 6-21-60, Cl. 170-159.
- Jovanovich, Drago K., to Hughes Tool Co., Aircraft Division. Blade-to-hub connector for thrust producing rotor. 2,949,967, 8-23-60, Cl. 170-160.53.
- Jowett, Walter G., to The English Electric Co. Ltd. Brush holders for dynamo electric machines. 2,964,663, 12-13-60, Cl. 310-246.
- Joy, Alfred R., to R. M. Starbuck & Sons. Hole cutting saw. 2,926,555, 3-1-60, Cl. 77-69.
- Joy, Chester E., and F. J. Falatyn. Belt spinning reel. 2,925,230, 2-16-60, Cl. 242-84.2.
- Joy, Ivan L. Apparatus for ultrasonic materials testing. 2,949,028, 8-16-60, Cl. 73-67.9.
- Joy, Joseph F., to Joy Mfg. Co. Tunnel boring machine having flexible belt shaker conveyor. 2,942,863, 6-28-60, Cl. 262-7.
- Joy, Joseph F. Apparatus for offshore fishing. 2,951,307, 9-6-60, Cl. 43-26.1.
- Joy Mfg. Co.: See—  
Barrett, Arthur L. 2,920,747.  
Barrett, Arthur L. 2,932,496.  
Bodimer, Theodore B., and Pitrolo. 2,922,509.  
Brown, Ora A., and Johnson. 2,940,523.  
Curtis, John C. 2,938,709.  
Curtis, John C. 2,949,280.  
Densmore, Neal W. 2,948,520.  
Foley, Michael P. 2,935,155.  
Fish, Walter D. 2,922,396.  
Frellsen, Carlton B. 2,964,022.  
Hallman, Edward C. 2,925,901.  
Hughes, Robert W. 2,931,313.  
Hughes, Robert W., and Collins. 2,919,555.  
Johnson, Glenn D. 2,924,866.  
Joy, Joseph F. 2,942,863.  
Kodra, Esper, and Doperalski. 2,925,306.  
Leven, Samuel. 2,939,197.  
Little, Larry L. 2,943,697.  
Little, Larry L. 2,964,692.  
Murphy, Donald D. 2,925,900.  
Peterson, Harley G. 2,964,126.  
Read, John A. 2,929,611.  
Rollins, Lester G. 2,933,295.  
Russell, John A., and Bouille. 2,939,692.  
Russell, John D. 2,957,570.  
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Snyder, Lenard D., and Shagman. 2,919,925.  
Wachsmuth, Erich A. 2,919,685.  
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Zacur, Alex O. 2,954,219.
- Joy, Paul C., to Honolulu Gas Co., Ltd. Gas-fired luau torch. 2,961,859, 11-29-60, Cl. 67-87.
- Joy, Robert, and R. Bucourt, to Les Laboratoires Francais de Chimiotherapie. Process of purifying tryptamine compounds and products obtained thereby. 2,943,093, 6-28-60, Cl. 260-319.



- Joy, Robert F., and C. W. Smollinger, to Bethlehem Steel Co. Splice and method of making the same. 2,943,434, 7-5-60, Cl. 57-142.
- Joyce, Asa W.: *See*—  
Tsang, Siem M., and Joyce. 2,930,793.
- Joyce, Asa W. (1-alkylamino-2-anthraquinonylcarbonylamido) alkyl trialkyl ammonium salts as disperse dyes for acrylic fibers. 2,924,609, 2-9-60, Cl. 260-377.
- Joyce, Asa W., to American Cyanamid Co. (1-alkylamino-6-(7)-anthraquinonylsulfonamido) alkyl trialkyl ammonium salts as disperse dyes for acrylic fibers. 2,933,914, 5-31-60, Cl. 260-371.
- Joyce, Cecil R., to Burroughs Corp. Apparatus for forming electrostatic printing heads. 2,931,065, 4-5-60, Cl. 18-36.
- Joyce-Cridland Co., The: *See*—  
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- Joyce, Glover C.: *See*—  
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Narel, Joseph W., and Joyce. 2,963,017.
- Joyce, Martin G. Screw extracting tool. 2,923,335, 2-2-60, Cl. 145-1.
- Joyce, Ronald L., to Dow Corning Corp. Fire resistant organosilicone elastomer foams and method of preparing same. 2,956,032, 10-11-60, Cl. 260-2.5.
- Joyce, Temple N.: *See*—  
Wodal, Francis A., and Eaves. 2,925,234.
- Joyce, Thomas B. D.: *See*—  
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- Joyner, Frederick B.: *See*—  
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Coover, Harry W., Jr., and Joyner. 2,958,688.
- Jozwiak, John W. Infant nursing unit. 2,954,030, 9-27-60, Cl. 128-252.
- Jucatis, Pranas, to International Harvester Co. Rodent repelling binding cord incorporating a nitroaniline stabilized by an organic acid. 2,935,446, 5-3-60, Cl. 167-46.
- Jucker, Ernst, and A. J. Lindenmann, to Sandoz Ltd. Scopolamine ethers. 2,933,501, 4-19-60, Cl. 260-292.
- Jucker, Ernst, A. Ebnother, E. Rissi, A. Vogel, and R. Steiner, to Sandoz Ltd. Azetidines. 2,955,112, 10-4-60, Cl. 260-294.
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- Jucker, Ernst, A. Ebnother, and E. Rissi, to Sandoz Ltd. 3,5-dioxo-pyrazolidines. 2,959,593, 11-8-60, Cl. 260-294.
- Juculano, Theodore C., to Marvel Equipment Corp. Releasable metal scaffolding connector. 2,962,310, 11-29-60, Cl. 287-53.5.
- Juda, Walter, and W. A. McRae, to Ionics Inc. Ion exchange materials and method of making and using the same. Re. 24,865, 9-6-60, Cl. 204-98.
- Judd, Donald M., to Ferro Corp. Porcelain enamels for light metals. 2,925,351, 2-16-60, Cl. 106-48.
- Judd, Edwin B.: *See*—  
Cavagnaro, William A., Judd, Krzystyniak, and Truesdell. 2,958,016.
- Judd, Edwin B., and J. D. Young, to General Electric Co. Electric circuit breaker. 2,921,169, 1-12-60, Cl. 200-153.
- Judd, Winston R., to General Electric Co. Shaft control means. 2,940,564, 6-14-60, Cl. 192-8.
- Jude, George F.: *See*—  
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- Jude, George F., J. W. Wheeler, and E. S. Joline, to Sperry Rand Corp. Automatic flight control system for aircraft. 2,933,268, 4-19-60, Cl. 244-77.
- Judelson, David N. Chuck with roll end penetrating and gripping pawls. 2,938,733, 5-31-60, Cl. 279-2.
- Judelson, David N. Material feeding and doubling device. 2,951,459, 9-6-60, Cl. 112-203.
- Judge, Edward E., Sr., to Industrial Metal Products Corp. Shaft burnishing machine. 2,959,841, 11-15-60, Cl. 29-90.
- Judge, Edward E., Sr., to Industrial Metal Products Corp. Clutch and brake unit. 2,966,245, 12-27-60, Cl. 192-18.
- Judge, Edward T., and G. Foster, to Dorman, Long & Co. Ltd. Rolling mill platform. 2,929,280, 3-22-60, Cl. 80-1.
- Judge, Kenneth W., to Eastman Kodak Co. Surface application processor for sensitized materials. 2,933,033, 4-19-60, Cl. 95-94.
- Judge, Robert L.: *See*—  
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- Judge, Thomas J., to General Railway Signal Co. Decoding circuit for a mechanically resonant relay. 2,934,636, 4-26-60, Cl. 246-34.
- Judge, Thomas J., to General Railway Signal Co. Coded track circuit signalling system. 2,958,765, 11-1-60, Cl. 246-33.
- Judge, William P., and B. A. Carrier. Animal stunning devices. 2,965,919, 12-27-60, Cl. 17-1.
- Judkins, Edwin R., to Borg-Warner Corp. Pressure loaded pump. 2,933,047, 4-19-60, Cl. 103-126.
- Judson, Charles A., and E. Kellett, to The Birmingham Small Arms Co. Ltd. Elastic-fluid turbines. 2,938,659, 5-31-60, Cl. 230-116.
- Judson, George T.: *See*—  
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- Jue, Frank M.: *See*—  
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- Juelles, David, and A. Torok, to Venus Pen & Pencil Corp. Erasable graphite writing solution. 2,956,038, 10-11-60, Cl. 260-33.6.
- Juergens, Edwin C.: *See*—  
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Graft, Alan R., Juergens, and Berkenblit. 2,947,669.
- Juergens, Fred W. Door closing device. 2,946,081, 7-26-60, Cl. 16-80.
- Juettner, Thomas R.: *See*—  
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- Jugle, Leonard L., to Reliable Electric Co. Automatic distribution clamp. 2,963,679, 12-6-60, Cl. 339-246.
- Jugle, Leonard L., to Reliable Electric Co. Wire gripping device for ACSF cables. 2,966,653, 12-27-60, Cl. 339-95.
- Juhlin, Arthur H., to General Motors Corp. Railway vehicle brake system and valving therefor. 2,955,882, 10-11-60, Cl. 303-29.
- Juifis, Albert G., to Senco Products, Inc. Cohered, full headed nail. 2,940,081, 6-14-60, Cl. 1-56.
- Juifis, Albert G., to Senco Products, Inc. Stapling plier. 2,943,327, 7-5-60, Cl. 1-44.4.
- Juifis, Albert G., to Senco Products, Inc. Remote control air valve. 2,954,009, 9-27-60, Cl. 121-21.
- Jukkola, Walfrid W., to Dorr-Oliver Inc. Heat recovery in fluosulids process. 2,965,449, 12-20-60, Cl. 23-200.
- Julian, Clarence L., K. W. Epply, and J. C. Norris, to General Motors Corp. Ignition distributor. 2,945,923, 7-19-60, Cl. 200-31.
- Julian, Donald B., to Eastman Kodak Co. Photographic color former dispersions. 2,949,360, 8-16-60, Cl. 96-97.
- Julian Laboratories, Inc., The: *See*—  
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- Julian, Percy L.: *See*—  
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- Julian, Percy L., and H. C. Printy, to The Julian Laboratories, Inc. 3-keto-4-halo-A<sup>5</sup> steroid. 2,933,510, 4-19-60, Cl. 260-397.3.
- Julian, Percy L., and A. Magnani, to The Julian Laboratories, Inc. Method of epimerizing 11-bromo steroids. 2,940,991, 6-14-60, Cl. 260-397.45.
- Julian, Percy L., and A. Magnani, to The Julian Laboratories, Inc. Novel epoxy pregnanes. 2,944,052, 7-5-60, Cl. 260-239.55.
- Julian, Percy L., A. Magnani, and C. C. Cochran, to Chas. Pfizer & Co., Inc. Preparation of the 12-keto isomer of cortisone. 2,947,765, 8-2-60, Cl. 260-397.45.
- Juliard, Andre L., to Houdry Process Corp. Purification of reformate charge stocks using activated alumina impregnated with alkali or alkaline earth metal hydroxides. 2,951,804, 9-6-60, Cl. 208-91.
- Julich, Werner: *See*—  
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- Julier, Bertram, and J. Belsky, to The Gabriel Co. Emergency actuating means for vehicular brakes. 2,934,380, 4-26-60, Cl. 303-7.
- Jully, Charles, to Houilleres du Bassin de Lorraine. Method of producing metallurgical coke. 2,935,450, 5-3-60, Cl. 202-33.
- Jully, Charles, to Houilleres du Bassin de Lorraine. Method of cleaning iron ore fines, notably for the manufacture of improved ferrous coke. 2,965,473, 12-20-60, Cl. 75-1.
- Jumelle, Louis F., and P. C. F. André, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Control device for the air intake of a jet propulsion unit. 2,960,281, 11-15-60, Cl. 244-23.
- Jumper, Henry F., Jr. Draft equalizer. 2,942,688, 6-28-60, Cl. 183-6.
- Jung, Erland V., S. H. Monteus, and N. V. Andersson, to Aktiebolaget Landsverk. Centrifuges. 2,953,250, 9-20-60, Cl. 210-375.
- Jung, Hans. Filter. 2,963,158, 12-6-60, Cl. 210-86.
- Jung, Oscar H. Oil applicator. 2,951,557, 9-6-60, Cl. 184-102.
- Jung, Shee L., to E. I. du Pont de Nemours and Co. Linear polyester-polyurethane product and process of preparing same. 2,962,470, 11-29-60, Cl. 260-45.4.
- Jung, William A., Jr.: *See*—  
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- Junge, Albert E., to Pittsburgh Plate Glass Co. Prepolishing plate glass. 2,936,554, 5-17-60, Cl. 51-283.
- Junge, Albert E., to Pittsburgh Plate Glass Co. Manufacture of plate glass. 2,936,555, 5-17-60, Cl. 51-283.
- Junger, Miguel C.: *See*—  
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- Jungerman, George R.: *See*—  
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- Junghanns, Ernst: *See*—  
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- Junghans, Helmut, K. Von Zeppelin, and R. Weber. Centering shutter for photographic cameras. 2,925,024, 2-16-60, Cl. 95-63.
- Junghans, Helmut, and K. Bauerle, to Gebrüder Junghans A.G. Movement regulating arrangement. 2,941,417, 6-21-60, Cl. 74-527.



- Jungjohann, Vernon H., to Eastman Kodak Co. Slide projector shutter mechanism. 2,960,004, 11-15-60, Cl. 88-28.
- Junkmayr, Theodor, to Firma Fr. Hesser, Maschinenfabrik-Aktiengesellschaft. Dispensing machine. 2,942,761, 6-28-60, Cl. 222-162.
- Jüngst, Hans, and P. Kätisch, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Injection casing for injection syringes. 2,946,331, 7-26-60, Cl. 128-218.
- Junk, Rudolf: *See—*  
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- Junker, Arnold,  $\frac{1}{2}$  to G. Borgeaud. Helicopter with body attaching means. 2,920,841, 1-12-60, Cl. 244-4.
- Junker, Donald W., to Sarkes Tarzian, Inc. Semiconductor device. 2,947,922, 8-2-60, Cl. 317-234.
- Junker, Otto, to Otto Junker (Offene Handelsgesellschaft). Method and apparatus for electric induction furnace melting. 2,946,834, 7-26-60, Cl. 13-27.
- Junker, Otto (Offene Handelsgesellschaft): *See—*  
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- Junker, Wesley F.: *See—*  
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- Junkermann, Wolfgang, to The Babcock & Wilcox Co. Pulsating combustion method and apparatus. 2,945,459, 7-19-60, Cl. 110-28.
- Junkunc, Bela B. Folding tablet arm chair. 2,954,073, 9-27-60, Cl. 155-125.
- Junkunc Brothers: *See—*  
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- Junkunc, George P., to Junkunc Brothers. Combined key and permutation operated padlock. 2,926,514, 3-1-60, Cl. 70-21.
- Juptner, Wilhelm, to C. P. Clare & Co. Switching device. 2,957,961, 10-25-60, Cl. 200-87.
- Jurcheck, John, to Silver Corp. Dry land plow. 2,952,322, 9-13-60, Cl. 172-151.
- Jureit, William F.: *See—*  
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- Jurgeleit, Wolfgang: *See—*  
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- Jurgeleit, Wolfgang, to Vereinigte Glanzstoff-Fabriken Aktiengesellschaft. Process of polymerization of vinyl compounds. 2,924,589, 2-9-60, Cl. 260-67.
- Jurgeleit, Wolfgang, to Vereinigte Glanzstoff Fabriken AG. Method of preparing stable polyolefin dispersion. 2,966,474, 12-27-60, Cl. 260-33.6.
- Jurgens, Henry A.: *See—*  
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- Jurgens, Henry A., and M. J. Kelly, to International Business Machines Corp. Wire printer. 2,938,455, 5-31-60, Cl. 101-93.
- Jurich, Stevan N. Demountable equalizing spring support mechanism for vehicles. 2,933,330, 4-19-60, Cl. 280-124.
- Jurist, Alfred E., to Olin Mathieson Chemical Corp. Purification process. 2,945,850, 7-19-60, Cl. 260-210.
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- Jurosek, Robert: *See—*  
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- Jursich, Myron J., to Nalco Chemical Co. Antifoam compositions and uses thereof. 2,923,687, 2-2-60, Cl. 252-321.
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- Justad, Rosella S. Coat and leg-protecting liner therefor. 2,959,788, 11-15-60, Cl. 2-86.
- Justi, Eduard, and A. Winsel, to Ruhrchemie Aktiengesellschaft, and Steinkohlen-Elektrizität Aktiengesellschaft. Direct production of electrical energy from liquid fuels. 2,925,454, 2-16-60, Cl. 136-86.
- Justi, Eduard, W. Scheibe, and A. Winsel, to Ruhrchemie Aktiengesellschaft and Steinkohlen-Elektrizität Aktiengesellschaft. Double skeleton catalyst electrode. 2,928,891, 3-15-60, Cl. 136-86.
- Justi, Eduard, G. Reckert, and A. Winsel, to Ruhrchemie Aktiengesellschaft, and Steinkohlen-Elektrizität Aktiengesellschaft. Gas diffusion electrode. 2,946,836, 7-26-60, Cl. 136-86.
- Justi, Eduard, and A. Winsel, to Ruhrchemie Aktiengesellschaft, and Steinkohlen-Elektrizität Aktiengesellschaft. Direct production of electrical energy from combustible fuel gases. 2,947,797, 8-2-60, Cl. 136-86.
- Justi, H. D., and Son, Inc.: *See—*  
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- Justice Co., The: *See—*  
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- Justice, Donald S., to The Justice Co. Rotating air conditioner. 2,924,081, 2-9-60, Cl. 62-419.
- Justice, Donald S., to The Justice Co. Combined salt water still and fresh water chiller. 2,946,204, 7-26-60, Cl. 62-238.
- Justice, John L., to American Viscose Corp. Vinyl-coated fabrics. 2,940,889, 6-14-60, Cl. 154-136.
- Justoni, Romeo, and R. Pessina, to Francesco Vismara Società per Azioni. Process for preparing 5 hydroxy-tryptamine through new intermediates. 2,944,064, 7-5-60, Cl. 260-319.
- Justoni, Romeo, and R. Pessina: *See—*  
said Pessina assor. to Francesco Vismara Società Per Azioni. Process for preparing 5 hydroxy-tryptamine through new intermediates. 2,945,046, 7-12-60, Cl. 260-319.
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- Justus, Edgar J., to Beloit Iron Works. Heat pump system for paper machine dryers. 2,933,826, 4-26-60, Cl. 34-86.
- Justus, Edgar J., to Beloit Iron Works. Motor control for paper machine drive arrangement. 2,939,062, 5-31-60, Cl. 318-44.
- Justus, Sherman C., Jr.: *See—*  
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- Juten, Milford A. Method and apparatus for dispensing fluid materials. 2,926,816, 3-1-60, Cl. 222-1.
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- Jutzi, Albrecht: *See—*  
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- Juveland, Omar O., H. N. Friedlander, and E. Field, to Standard Oil Co. Catalytic conversion and catalysts. 2,932,633, 4-12-60, Cl. 260-94.9.
- K.A.C. Ltd.: *See—*  
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- KSM Products, Inc.: *See—*  
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- Kaap, Lawrence E., to Food Machinery and Chemical Corp. Apparatus for sterilizing products in sealed containers. 2,920,552, 1-12-60, Cl. 99-371.
- Kaarsemaker, Sjoerd, and J. A. Meys, to Stamicarbon N.V. Process for catalytically hydrogenating benzene. 2,927,140, 3-1-60, Cl. 260-667.
- Kaasa, Orin G., to Sinclair Oil & Gas Co. Ignition of fuel for lighting a well. 2,941,596, 6-21-60, Cl. 166-38.
- Kaasenbrood, Petrus J. C., to Stamicarbon N.V. Urea concentration process. 2,961,464, 11-22-60, Cl. 260-555.
- Kaashoek, Johannes, T. Poorter, and J. J. P. Valetton, to North American Philips Co., Inc. Circuit arrangement for multiplying functions in the form of electrical signals. 2,956,113, 10-11-60, Cl. 178-5.4.
- Kabel, Heinrich, to P. Hellermann, trading as Paul Hellermann Fabrik elektrotechnischer Spezialartikel. Device for widening pipes, tubes, spouts or the like made of rubber, synthetic rubber, or artificial resilient material. 2,944,335, 7-12-60, Cl. 29-235.
- Kabel-es Muanyagvar: *See—*  
Csordás, István, Lányi, Veress, and Vissy. 2,947,056.
- Kabelitz, Hans, to Firma Gebrüder Sucker, G.m.b.H. Method and apparatus for comparing measuring and regulating speed differences. 2,935,311, 5-3-60, Cl. 264-9.
- Kabelitz, Hans, to Gebrüder Sucker G.m.b.H. Method and means for measuring the processing qualities of sizing material and the like. 2,963,905, 12-13-60, Cl. 73-150.
- Kabelitz, Hans, and W. Lennartz, to Gebrüder Sucker G.m.b.H. Device for the continuous measuring of consecutive length portions of continuously traveling material. 2,951,293, 9-6-60, Cl. 33-136.
- Kabelschlepp G.m.b.H.: *See—*  
Waninger, Gilbert M. 2,945,201.
- Kabelwerk Vohwinkel A.G.: *See—*  
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- Kabo, Inc.: *See—*  
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- Kabushiki-Kaisha Koden Seisakusho: *See—*  
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- Kabushiki Kaisha Konan Kamera Kenkyu Jo: *See—*  
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- Kabushiki Kaisha Koparu Kaki Selsakusho: *See—*  
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- Kabushiki-Kaisha Maruman:** *See—*  
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- Kachadoorian, Suney:** *See—*  
Paldino, Domenico, and Kachadoorian. 2,936,522.
- Kachergis, Henry J., to Otto Bernz Co., Inc.** Adjustable nozzles. 2,944,743, 7-12-60, Cl. 239-458.
- Kacin, William L., to Faximile, Inc.** Electrical socket connector with mercury contact. 2,935,722, 5-3-60, Cl. 339-118.
- Kacmarek, Andrew J.: See—**  
Solomon, Irvine J., Kacmarek, and Hattori. 2,951,869.
- Kaczmarek, Charles B.** Oil burner. 2,935,126, 5-3-60, Cl. 158-53.
- Kaczmarek, Frank M.** Rotatable fence post. 2,937,727, 5-24-60, Cl. 189-23.
- Kadelburg, Kurt, and L. Pelfrey, to International Rectifier Corp.** Rectifier assembly. 2,959,718, 11-8-60, Cl. 317-234.
- Kaden, Harry E.** Multi-gang switch box. 2,943,757, 7-5-60, Cl. 220-3.9.
- Kaden, Willy: See—**  
Frost, Paul, and Kaden. 2,948,259.  
Winkler, Alfred, and Kaden. 2,925,022.
- Kadlec, Joseph J.** Balanced tamper. 2,928,321, 3-15-60, Cl. 94-48.
- Kadosch, Marcel: See—**  
De Jurquet de la Salle d'Anfreville, Louis M. G., Bertin, and Kadosch. 2,948,148.
- Kadosch, Marcel, and J. H. Bertin, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation.** Variable-area propelling nozzle combined with a thrust spoiler. 2,934,896, 5-3-60, Cl. 60-35.54.
- Kaeding, Warren W., R. O. Lindholm, and R. G. Temple, to The Dow Chemical Co.** Catalytic oxidation of aromatic carboxylic acids to phenols. Re. 2,848, 7-26-60, Cl. 260-621.
- Kaegebein, Bertha Z.: See—**  
Kaegebein, Erich L. 2,959,442.
- Kaegebein, Donald E.: See—**  
Kaegebein, Erich L. 2,959,442.
- Kaegebein, Erich L., 1/4 to B. Z. Kaegebein, 1/4 to D. E. Kaegebein, and 1/4 to S. Vander Werff.** Kitchen appliance. 2,959,442, 11-8-60, Cl. 294-31.
- Kaehni, Frank J., to The Electric Heat Control Co.** Direct current voltage transformer. 2,932,780, 4-12-60, Cl. 321-2.
- Kaelble, David H., and P. I. Roth, to Minnesota Mining and Mfg. Co.** Stressed flexible containers. 2,958,419, 11-1-60, Cl. 206-46.
- Kaemmerer, Kurt, to Farbenfabriken Bayer Aktiengesellschaft.** Animal foodstuffs. 2,925,341, 2-16-60, Cl. 99-2.
- Kaempfer, Karl K.: See—**  
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- Kaenan, Joseph P.: See—**  
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- Kaercher, William C., Jr.: See—**  
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- Kaerwer, Howard E., Jr.: See—**  
Porter, Frederic E., McAlpine, and Kaerwer. 2,932,128.
- Kaess, Franz: See—**  
Motz, Jürgen, Kaess, and Vogel. 2,926,080.
- Kaess, Franz, H. Kronacher, H. Hoeger, and W. Dichtl, to Sueddeutsche Kalkstickstoff-Werke A.G.** Manufacture of white calcium cyanamide. 2,940,824, 6-14-60, Cl. 23-78.
- Kaestle, Francis L., to General Electric Co.** Protective relaying system for direct current equipment. 2,929,963, 3-22-60, Cl. 317-13.
- Kaestner, Paul T., to J. W. Fecker, Inc.** Optical sighting device. 2,939,363, 6-7-60, Cl. 83-34.
- Kaether, Willy, to Braunschweigische Maschinenbauanstalt.** Apparatus for the treatment of animal and vegetable materials. 2,927,007, 3-1-60, Cl. 23-270.
- Kaether, Willy, to Braunschweigische Maschinenbauanstalt.** Apparatus for treating vegetable and animal materials. 2,954,790, 10-4-60, Cl. 134-132.
- Kaether, Willy, and F. Mushack, to Braunschweigische Maschinenbauanstalt.** Apparatus for extracting liquids from vegetable materials. 2,924,541, 2-9-60, Cl. 127-7.
- Kafadar, Ahmed D.: See—**  
Kroeger, William J., Kafadar, and Olson. 2,926,525.
- Kaffenberger, Richard: See—**  
Smith, George H., and Kaffenberger. 2,920,001.
- Kaffine, Heinrich O.** Fluid pressure control means. 2,923,326, 2-2-60, Cl. 139-137.
- Kafitz, Peter H.: See—**  
Jepsen, Robert L., and Kafitz. 2,963,605.
- Kafka, Wilhelm: See—**  
Siehling, Georg, Tschermak, and Kafka. 2,924,633.
- Kafko, Andrew, and C. Fischer.** Collapsible retaining and signaling means for slide fasteners. 2,949,612, 8-23-60, Cl. 2-234.
- Kagan, Fred, and R. D. Birkenmeyer, to The Upjohn Co.** 1,4-benzodioxepin-2,5-(3H)-dione. 2,956,064, 10-11-60, Cl. 260-340.2.
- Kagan, Sholly: See—**  
Harrison, John E. R., and Kagan. 2,931,034.  
Harrison, John E. R., and Kagan. 2,935,606.
- Kagdis, William A.** Loudspeaker construction. 2,926,221, 2-23-60, Cl. 179-115.5.
- Kagel, Hans A., to Vereinigte Westdeutsche Waggonfabriken Aktiengesellschaft.** Lift post especially for lift trucks. 2,925,888, 2-23-60, Cl. 187-9.
- Kagitani, Takeo.** Portable power tool. 2,923,280, 2-2-60, Cl. 123-7.
- Kagiya, Kosuke.** Sewing machine. 2,945,460, 7-19-60, Cl. 112-169.
- Kahkejian, Arthur J.: See—**  
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- Kahl, Frederick A.: See—**  
Taylor, Thomas L., Fischbach, and Kahl. 2,963,652.
- Kable, Alfred I.** Adjustable threshing cylinder. 2,962,028, 11-29-60, Cl. 130-27.
- Kahler, Ernest J., to Pennsalt Chemicals Corp.** Compounds of the class  $PxN_2O$  and process for producing same. 2,925,320, 2-16-60, Cl. 23-14.
- Kahler, Paul E., to Phillips Petroleum Co.** Process and apparatus for introducing fuel additives with LPG fuels. 2,965,085, 12-20-60, Cl. 123-119.
- Kahma, Aaron A.: See—**  
Puranen, Maunu, Kahma, and Ronka. 2,929,984.
- Kahn and Co., Inc.: See—**  
Canner, Edwin M. 2,921,436.  
Canner, Edwin M. 2,921,802.
- Kahn, David, Inc.: See—**  
Kahn, Julius M., and Levy. 2,964,012.  
Kennedy, Starrett C., and Sheldou. 2,955,673.  
Weisser, Karl, and Levy. 2,951,465.
- Kahn, Frank: See—**  
Havelin, Jules E., and Kahn. 2,937,581.
- Kahn, George.** Door knob paint shield. 2,925,064, 2-16-60, Cl. 118-505.
- Kahn, Julius M., and M. Levy, to David Kahn, Inc.** Writing instrument. 2,964,012, 12-13-60, Cl. 120-45.4.
- Kahn, Leo M.** Dishwashing machines. 2,937,063, 5-17-60, Cl. 312-229.
- Kahn, Louis: See—**  
Collins, Joseph L., and Kahn. 2,949,640.
- Kahn, Louis E., and J. A. Dalve, to E. I. du Pont de Nemours and Co.** Process of curing meat and composition therefor. 2,946,692, 7-26-60, Cl. 99-222.
- Kahn, Morton C., and W. H. Offenhauser, Jr., to Bionics Ltd.** Method and system of insect control. 2,928,204, 3-15-60, Cl. 43-107.
- Kahn, Walter K.: See—**  
Felsen, Leopold B., and Kurt. 2,963,662.
- Kahr, John S., and H. G. Holler, to Nordberg Mfg. Co.** Internal combustion engine and control system. 2,940,431, 6-14-60, Cl. 123-41.
- Kahr, Kurt: See—**  
Fueg, Heinz R., and Kahr. 2,939,865.
- Kahr, Kurt, and A. Flam, to Inventa A.-G., für Forschung und Patentverwertung Luzern.** Process for the production of alicyclic ketoximes. 2,947,783, 8-2-60, Cl. 260-566.
- Kaighin, Hall Y., and E. Greacen, to R. E. Dietz Co.** Remote control system for angular position adjustment. 2,932,210, 4-12-60, Cl. 74-471.
- Kail, Karl A.: See—**  
Link, Edwin A., Lowkrantz, and Kail. 2,963,543.
- Kainz, Kurt H., to Daimler-Benz Aktiengesellschaft.** Air inlet control mechanism for an internal combustion engine. 2,943,615, 7-5-60, Cl. 123-140.
- Kaiser Aluminum & Chemical Corp.: See—**  
Alexander, George O. 2,953,952.  
Allen, George. 2,939,829.  
Bell, Norman, and Jones. 2,935,430.  
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Dalin, Robert W., Floberg, and Reid. 2,926,352.  
Doerr, Dale D., and Grip. 2,936,985.  
Donaldson, Donald J. 2,946,658.  
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Garretts, William F. 2,960,048.  
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Johnson, Martin A., and Holeman. 2,921,685.  
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Martinet, Jacques R. 2,943,240.  
Richter, Donald L. 2,919,826.  
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- Kaiser, Arthur N.: See—**  
Perry, Donald S., Kaiser, and Purdy. 2,960,881.
- Kaiser, Carl B.: See—**  
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- Kaiser, Francis D., and K. F. Friedrich, to Westinghouse Electric Corp.** Rectifier circuit. 2,958,817, 11-1-60, Cl. 321-26.
- Kaiser, Fred.** Door lock set. 2,949,328, 8-16-60, Cl. 292-207.
- Kaiser, Friedrich, to Westfalla Dinnendahl Groppe Aktien-gesellschaft.** Steep-slope conveyor. 2,966,254, 12-27-60, Cl. 198-165.
- Kaiser, Harold R.: See—**  
Robbins, Harold M., and Kaiser. 2,958,852.
- Kaiser, Henry J., Co.: See—**  
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White, Walter A. 2,925,885.
- Kaiser, Herman F., to United States of America, Navy.** Electron cyclotron. 2,943,265, 6-28-60, Cl. 328-234.



- Kaiser Industries Corp.: *See*—  
 Aiken, William R. 2,930,930.  
 Aiken, William R. 2,930,931.  
 Aiken, William R. 2,937,315.  
 Aiken, William R. 2,945,974.  
 Aiken, William R. 2,955,231.  
 Aiken, William R., Shanafelt, and Cook. 2,928,014.  
 Foster, Leigh C. 2,945,982.
- Kaiser, Julius A., Jr.: *See*—  
 Donnellan, John R., and Kaiser. 2,953,781.  
 Marston, Arthur E., and Kaiser. 2,935,746.  
 Marston, Arthur E., and Kaiser. 2,947,000.
- Kaiser, Rudolf. Stopcock with spherical plug. 2,929,606, 3-22-60, Cl. 251-174.
- Kaiser, Rudolf. Fitting for a large-diameter rubber or plastic hose subjected to high loads. 2,940,778, 6-14-60, Cl. 285-95.
- Kaiser, Willy. Light steel girder. 2,966,242, 12-27-60, Cl. 189-37.
- Kaizerman, Samuel: *See*—  
 Mino, Guido, and Kaizerman. 2,922,768.  
 Mino, Guido, and Kaizerman. 2,922,774.  
 Mino, Guido, and Kaizerman. 2,922,775.
- Kaizerman, Samuel, and G. Mino, to American Cyanamid Co. Oil-soluble ceric salts and method of preparing the same. 2,922,801, 1-26-60, Cl. 260-429.2.
- Kaji, Walter U.: *See*—  
 Sweeney, Victor D., and Kaji. 2,948,524.
- Kakoska, Chris. Portable escalators. 2,919,658, 1-5-60, Cl. 104-94.
- Kakunodate, Masamichi: *See*—  
 Sago, Yoshiharu, Nemoto, and Kakunodate. 2,930,303.
- Kalamazoo Industrial Services, Inc.: *See*—  
 Hughes, Charles R. 2,966,313.
- Kalart Co. Inc., The: *See*—  
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 Kaprelian, Edward K., and Bender. 2,924,143.  
 Schwartz, Morris, and Kaprelian. 2,925,753.  
 Schwartz, Morris, and Kaprelian. 2,961,922.
- Kalb, Martin O. Variable force control system. 2,940,337, 6-14-60, Cl. 74-675.
- Kalb, Martin O., to American Machine & Foundry Co. Inductor devices. 2,958,060, 10-25-60, Cl. 336-210.
- Kälber, Fritz: *See*—  
 Faerber, Gerhard, and Kälber. 2,934,562.
- Kaldobsky, Phoebus R., to Ford Motor Co. Pressure relief and water expulsion valve. 2,939,477, 6-7-60, Cl. 137-204.
- Kaldobsky, Phoebus R., to Ford Motor Co. Water expulsion valve. 2,947,319, 8-2-60, Cl. 137-204.
- Kalenda, Helmut, to Chemische Werke Huls Aktiengesellschaft. Process and catalyst for the preparation of vinyl esters. 2,932,663, 4-12-60, Cl. 260-498.
- Kaley, Robert C., to American Machine & Foundry Co. Guard for rotary power cutter. 2,926,709, 3-1-60, Cl. 143-159.
- Kalfadelis, Charles D.: *See*—  
 Spiller, Charles A., Jr., Baldwin, and Kalfadelis. 2,962,361.
- Kalfaian, Haig: *See*—  
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- Kalfaian, Meguer V. Information storage system. 2,920,311, 1-5-60, Cl. 340-173.
- Kalfaian, Meguer V. Phonetic typewriter of speech (responsive to all voices). 2,921,133, 1-12-60, Cl. 178-31.
- Kalfaian, Meguer V. System of charging and discharging a capacitor at high speeds. 2,942,169, 6-21-60, Cl. 320-1.
- Kalfaian, Meguer V. System of time base standardization. 2,942,198, 6-21-60, Cl. 328-185.
- Kalfaian, Meguer V. Storage tube. 2,946,917, 7-26-60, Cl. 315-12.
- Kalfaian, Meguer V. Printed circuit wiring. 2,948,834, 8-9-60, Cl. 317-101.
- Kalfaian, Meguer V. Fundamental frequency extractor from speech waves. 2,957,134, 10-18-60, Cl. 324-77.
- Kalfaian, Meguer V. Amplitude equalizer of speech sound waves. 2,958,047, 10-25-60, Cl. 330-144.
- Kalfayan, Sarkis H.: *See*—  
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- Kali Chemie Aktiengesellschaft: *See*—  
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 Stühmer, Werner, and Funke. 2,934,557.  
 Stuehmer, Werner, and Funke. 2,948,746.
- Kalkow, Irving, to General Electric Co. Starter jaw advancing mechanism. 2,924,979, 2-16-60, Cl. 74-7.
- Kall, Emil O.: *See*—  
 Gregory, Russell W., and Kall. 2,959,007.
- Kall, James, to E. I. du Pont de Nemours and Co. Production of self-supporting reticulated sheet of chlorosulfonated polymers of ethylene. 2,923,979, 2-9-60, Cl. 18-57.
- Kalina, Henry A., and C. B. Goss, to International Telephone and Telegraph Corp. Line voltage regulator. 2,966,626, 12-27-60, Cl. 323-45.
- Kalinsky, Joseph L., to United States of America, Navy. Radiometric method for determining volume. 2,924,719, 2-9-60, Cl. 250-83.6.
- Kalis, Frank M. Muffler repair jacket. 2,966,226, 12-27-60, Cl. 181-72.
- Kalish, David, to The Alliance Mfg. Co., Division of Consolidated Electronics Industries Corp. Resettable welder. 2,945,941, 7-19-60, Cl. 219-124.
- Kalish, Israel H., and S. Silverstein, to Radio Corp. of America. Jig alloying of semiconductor devices. 2,964,431, 12-13-60, Cl. 148-1.5.
- Kalish, Paul J., to Ruska Instrument Corp. Test separation of gas and liquid. 2,958,220, 11-1-60, Cl. 73-53.
- Kalisher, Theodore: *See*—  
 Heigis, Henry E., and Kalisher. 2,949,274.
- Kall, Oscar E., to Kellma A.B. Compounded internal pole synchronous generator. 2,927,263, 3-1-60, Cl. 322-56.
- Kalle Aktiengesellschaft: *See*—  
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- Kalle & Co. Aktiengesellschaft: *See*—  
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- Kalle, Karl T. Electrothermic indicating apparatus. 2,927,308, 3-1-60, Cl. 340-201.
- Kalle, Karl T. Gear pump. 2,936,717, 5-17-60, Cl. 103-126.
- Kalle, Karl T. Viscosimeter or consistency meter. 2,940,304, 6-14-60, Cl. 73-59.
- Kallenborn, Frank P. Heavy duty electrical drop cord connection. 2,963,677, 12-6-60, Cl. 339-89.
- Kaller, Johan S. Distributor machine for the distribution of fertilizer. 2,945,698, 7-19-60, Cl. 275-2.
- Kaller, Johan S. Disk cultivator. 2,957,529, 10-25-60, Cl. 172-120.
- Kalling, Bo M. S., S. G. H. Eketorp, and F. C. E. Johansson, to Stora Kopparberg Bergslags Aktiebolag. Method of producing rolled steel products from fine grained iron material. 2,925,337, 2-16-60, Cl. 75-208.
- Kalling, Bo M. S., and F. K. E. Johansson, to Stora Kopparberg Bergslags Aktiebolag. Method of refining silicon containing pig iron with oxygen in a rotary furnace. 2,930,688, 3-29-60, Cl. 75-52.
- Kallio, Paul A., to The B. F. Goodrich Co. Endless slide fastener closure. 2,928,155, 3-15-60, Cl. 24-205.1.
- Kallio, William J., to United-Greenfield Corp. Twist drill. 2,936,804, 5-17-60, Cl. 145-117.
- Kallio, William J., to United-Greenfield Corp. Drill. 2,942,501, 6-28-60, Cl. 77-68.
- Kallio, William J., to United-Greenfield Corp. Drill. 2,966,081, 12-27-60, Cl. 77-70.
- Kallis, William F. Fluid coupling device. 2,941,820, 6-21-60, Cl. 284-18.
- Kallischnigg, Rolf, to Chemische Fabrik Promonta G.m.b.H. Tetrahydropyridone, 1,5-benzadiazepine-2-(3)-one. 2,928,837, 3-15-60, Cl. 260-296.
- Kallischnigg, Rolf, to Chemische Fabrik Promonta G.m.b.H. Process for preparing substituted carbazole derivatives. 2,944,058, 7-5-60, Cl. 260-293.2.
- Kallman, Donald, to The Babcock & Wilcox Co. Apparatus for refueling a nuclear reactor. 2,943,035, 6-28-60, Cl. 204-193.2.
- Kallman, Robert I., T. M. Steinbach, and R. F. Stoming, to The Dow Chemical Co. Dispensing container for sheet wrapping material. 2,948,575, 8-9-60, Cl. 312-39.
- Kallmann, Heinz E. Sound reproducing head. 2,936,342, 5-10-60, Cl. 179-100.2.
- Kallmann, Heinz E. Talking book having magnetic recording means and shielding means therefor. 2,945,307, 7-19-60, Cl. 35-35.
- Kallmann, Heinz E. Current gain measuring device. 2,946,008, 7-19-60, Cl. 324-158.
- Kallmeyer, Erich. Blood pressure measuring apparatus. 2,950,621, 8-30-60, Cl. 73-402.
- Kalm, Max J., to G. D. Searle & Co. 1-alkenyl-3-alkyl-6-amino-5-ureidouracils and process. 2,931,812, 4-5-60, Cl. 260-256.4.
- Kalm, Max J., to G. D. Searle & Co. 1-alkenyl-3-alkyl-5-sulfonamido-6-aminouracil. 2,931,813, 4-5-60, Cl. 260-256.5.
- Kalmus, Henry P. Apparatus responsive to changes in transit time of a wave-energy signal. 2,934,756, 4-26-60, Cl. 343-12.
- Kalmus, Henry P., and G. O. Striker. Device for the amplification of minute space currents. 2,952,813, 9-13-60, Cl. 328-253.
- Kalmy, Louis J., 50% to J. G. Wurtz, Jr. Traction motor support bearing. 2,954,263, 9-27-60, Cl. 308-36.1.
- Kalopissis, Gregoire: *See*—  
 Charles, Roger, Ritter, and Kalopissis. 2,944,942.
- Kalopissis, Gregoire, and G. Ghilardi, to Societe Anonyme dite: Societe Monsavon-l'Oreal. Process for dyeing keratinous material with ortho-diphenols. 2,944,869, 7-12-60, Cl. 8-11.
- Kalous, Leo R., to Collins Radio Co. Bidirectional spring-loaded, control device. 2,954,707, 10-4-60, Cl. 74-504.
- Kalous, Michael J.: *See*—  
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- Kalousek, George L., to Owens-Corning Fiberglass Corp. Synthesis of chysotile. 2,926,997, 3-1-60, Cl. 23-110.
- Kalstein, Abraham G., and W. Kameron, to Aerovox Corp. Electric capacitor. 2,930,954, 3-29-60, Cl. 317-258.
- Kaltenbach, Ernest G., to Oil Mathieson Chemical Corp. Securing device. 2,922,592, 1-26-60, Cl. 242-68.2.
- Kaltenbach, Frederick H., to The Babcock & Wilcox Co. Self stabilizing automatic temperature control. 2,944,137, 7-5-60, Cl. 219-20.
- Kalter, Harold E., to Troxel Mfg. Co. Cycle saddles. 2,931,423, 4-5-60, Cl. 155-524.



- Kalter, Harold E., to Troxel Mfg. Co. Bicycle saddle clamp. 2,946,372, 7-26-60, Cl. 155-524.
- Kaltheuner, Hans-Friedrich: *See*—  
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- Kalvaitis, John, to General Motors Corp. Four-way seat actuator. 2,922,462, 1-26-60, Cl. 155-14.
- Kalvar Corp.: *See*—  
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Glavin, Robert E. 2,950,194.
- Kalwaites, Frank, to Choctaw Mfg. Corp. Spring belt cross stretching machine. 2,952,893, 9-20-60, Cl. 28-76.
- Kamada, Akira: *See*—  
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- Kaman Aircraft Corp., The: *See*—  
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Emmerson, John O., and Polleys. 2,960,168.  
Kaman, Charles H. 2,951,544.  
Krol, Stanley J. 2,936,747.  
Stevens, Martin L., and Richmond. 2,960,202.
- Kaman, Charles H., to The Kaman Aircraft Corp. Rotor for a helicopter. 2,951,544, 9-6-60, Cl. 170-160.24.
- Kamäräinen, Kalle K. Device for lifting and loading of mass-goods such as sand, gravel, grain, snow, etc. 2,920,736, 1-12-60, Cl. 198-12.
- Kamath, Pandurang M.: *See*—  
Haas, Howard C., and Kamath. 2,949,436.
- Kamborian, Jacob S.: *See*—  
Dunlap, Robert B. 2,952,858.  
Roderick, Manuel J. 2,936,467.
- Kamborian, Jacob S. Replaceable wiper for toe lasting machine. 2,933,742, 4-26-60, Cl. 12-12.4.
- Kamborian, Jacob S. Aircraft landing aid. 2,946,041, 7-19-60, Cl. 34-26.
- Kamborian, Jacob S. Upholstery machine. 2,947,001, 8-2-60, Cl. 1-2.
- Kamborian, Jacob S. Heated wiper for lasting machine. 2,963,720, 12-13-60, Cl. 12-8.3.
- Kamborian, Jacob S., and T. A. Weisz, to said J. S. Kamborian. Lasting machine. 2,945,247, 7-19-60, Cl. 12-8.3.
- Kamenetzky, Jacobo. Apparatus for using liquids. 2,928,420, 3-15-60, Cl. 137-595.
- Kameron, William: *See*—  
Kaistein, Abraham G., and Kameron. 2,930,954.
- Kamimoto, Michael M., to United States of America, Navy. Missile. 2,952,207, 9-13-60, Cl. 102-50.
- Kamin, George W., to Cribben and Sexton Co. Wall member for heated compartment. 2,939,452, 6-7-60, Cl. 126-190.
- Kamin, George W., to Cribben and Sexton Co. Gas range. 2,939,453, 6-7-60, Cl. 126-214.
- Kaminski, Joseph, Jr., and R. L. McCoy, to General Electric Co. Combined grading and corona shield. 2,930,839, 3-29-60, Cl. 174-144.
- Kaminski, Joseph, Jr., and R. L. McCoy, to General Electric Co. Conductor spreader. 2,937,225, 5-17-60, Cl. 174-40.
- Kaminski, Joseph, Jr., R. L. McCoy, and M. G. Nauman, to General Electric Co. Conductor spreader. 2,937,226, 5-17-60, Cl. 174-40.
- Kaminsky, Stanley J. Tool for welding thermo-plastic materials. Re. 24,801, 3-22-60, Cl. 154-42.
- Kamkap, Inc.: *See*—  
Terry, George C. 2,950,669.  
Terry, George C. 2,950,711.  
Terry, George C. 2,950,712.  
Terry, George C. 2,961,942.
- Kamlet, Jonas: *See*—  
Goheen, David W., Hearon, and Kamlet. 2,925,442.
- Kamlet, Jonas, to Reynolds Metals Co. Process for the manufacture of cryolite. 2,925,324, 2-16-60, Cl. 23-88.
- Kamlet, Jonas, to Reynolds Metals Co. Process for the manufacture of cryolite. 2,925,325, 2-16-60, Cl. 23-88.
- Kamlet, Jonas. Hydraulic cements. 2,947,643, 8-2-60, Cl. 106-97.
- Kamlet, Jonas, to Reynolds Metals Co. Processing of ferrous aluminum ores. 2,964,383, 12-13-60, Cl. 23-143.
- Kamlukin, Igor: *See*—  
Rhoades, Nolan, and Kamlukin. 2,924,928.
- Kamlukin, Igor, to Simplicity Mfg. Co. Engine starting device. 2,927,571, 3-8-60, Cl. 123-179.
- Kamm, Lawrence J., to Wheelock Signals, Inc. Relay. 2,938,978, 5-31-60, Cl. 200-87.
- Kamm, Lawrence J. Electrical connector for flexible cable. 2,961,629, 11-22-60, Cl. 339-17.
- Kamm, Wunibald I. E., K. Staiger, and W. F. Krautter, to United States of America, Army. Tire pressure control device. 2,944,579, 7-12-60, Cl. 152-416.
- Kammer, Donald E., to Avco Mfg. Corp. Transistorized stable oscillator-mixer system. 2,957,979, 10-25-60, Cl. 250-20.
- Kammerer, Archer W.: *See*—  
Kammerer, Archer W., Jr. 2,945,676.  
Kammerer, Archer W., Jr. 2,945,677.
- Kammerer, Archer W., to Rotary Oil Tool Co. Rotary drill bits and cutters. 2,922,627, 1-26-60, Cl. 255-76.
- Kammerer, Archer W., to Rotary Oil Tool Co. Expandable rotary drill bit. 2,941,785, 6-21-60, Cl. 255-76.
- Kammerer, Archer W., Jr.,  $\frac{3}{8}$  to A. W. Kammerer and  $\frac{1}{8}$  to J. K. Lamphere. Hydraulic weight control and compensating apparatus for subsurface well bore devices. 2,945,676, 7-19-60, Cl. 255-19.
- Kammerer, Archer W., Jr.,  $\frac{3}{8}$  to A. W. Kammerer and  $\frac{1}{8}$  to J. K. Lamphere. Hydraulic weight compensating apparatus for well bore devices. 2,945,677, 7-19-60, Cl. 255-19.
- Kammerer, Howard F., to Libbey-Owens-Ford Glass Co. Sheet handling systems. 2,959,269, 11-8-60, Cl. 198-31.
- Kammerer, Leo: *See*—  
Haerther, Lester W., and Kammerer. 2,934,688.
- Kammerer, Otto F.: *See*—  
Schweitzer, Donald G., Weeks, Kammerer, and Gurinsky. 2,926,111.
- Kammerer, William, Jr., to American Cyanamid Co. Use of diglycidyl compounds in improved methods for preparing alkylid resins. 2,951,049, 8-30-60, Cl. 260-22.
- Kammermeyer, Karl, to Selas Corp. of America. Separation of gases by diffusion through silicone rubber. 2,966,235, 12-27-60, Cl. 183-115.
- Kammeyer, Lyle J. Automobile radiator mounted tool tray. 2,925,917, 2-23-60, Cl. 211-86.
- Kammgarntspinnerei Kaiserslautern: *See*—  
Schütz, Erwin. 2,948,025.  
Schütz, Erwin. 2,948,137.
- Kamp, Ewald A.: *See*—  
Bobco, William D., Kamp, and Stern. 2,965,001.
- Kampa, Clifford L. Ice fishing device. 2,934,849, 5-3-60, Cl. 43-17.
- Kampert, Keith W., to The Frank G. Hough Co. Tractor loaders. 2,959,306, 11-8-60, Cl. 214-140.
- Kampf, Erhard, and A. Kraft. Method and apparatus for feeding materials. 2,939,469, 6-7-60, Cl. 137-3.
- Kampmeier, Frederick J., to The Ingersoll Milling Machine Co. Clamp for adjustable rotary spindle. 2,957,393, 10-25-60, Cl. 90-11.
- Kampmeier, Paul E. Automobile sleeping and dressing unit. 2,930,051, 3-29-60, Cl. 5-119.
- Kanady, William E., and J. C. Woods, to Jersey Production Research Co. Marine transfer assembly. 2,963,179, 12-6-60, Cl. 214-14.
- Kanaga, Amos E., to Pyronic Corp. Cooking device. 2,939,383, 6-7-60, Cl. 99-327.
- Kanarek, Irving A., to North American Aviation, Inc. Propellant combination including liquid fluorine and liquid oxide oxidizer. 2,930,684, 3-29-60, Cl. 52-5.
- Kanbar, Maurice S. Pill comb. 2,934,810, 5-3-60, Cl. 26-28.
- Kanbergs, Juris: *See*—  
Diamond, Allen M., Kanbergs, and Zellmer. 2,933,658.
- Kanda, Frank A.: *See*—  
Clark, Charles C., and Kanda. 2,963,347.
- Kandle, Charles W. Tunneling machine clean-up apparatus. 2,920,878, 1-12-60, Cl. 262-7.
- Kandle, Charles W. Tunneling machine having stepper type advancing means. 2,955,808, 10-11-60, Cl. 262-7.
- Kandle, Charles W. Drill cutting head. 2,960,312, 11-15-60, Cl. 255-61.
- Kandoian, Armig G., to International Telephone and Telegraph Corp. Aircraft antenna system. 2,934,761, 4-26-60, Cl. 343-708.
- Kane, Elizabeth B.: *See*—  
Blatz, Peter A. 2,956,427.
- Kane, Ernest M., to United States of America, Navy. Squib tester. 2,920,479, 1-12-60, Cl. 73-35.
- Kane, Ernest M. Variable thrust rocket motor. 2,956,401, 10-18-60, Cl. 60-35.6.
- Kane, Gerald: *See*—  
Carpentier, Melbourne L., and Drinkard. 2,957,461.
- Kane, Joseph H.: *See*—  
Davisson, Jacob W., Tanner, Finlay, and Kane. 2,963,401.
- Kane, Neil G., to Ekwall Corp. Centrifugal feed unit. 2,954,674, 10-4-60, Cl. 60-54.5.
- Kane, Robert P., to E. I. du Pont de Nemours and Co. Composition comprising reaction product of a polyalkyleneether glycol, a fatty acid triglyceride and an arylenediacrylate and foam prepared therefrom. 2,955,091, 10-4-60, Cl. 260-2.5.
- Kane, Thomas C., to The Commercial Shearing and Stamping Co. Jet bar. 2,921,748, 1-19-60, Cl. 239-534.
- Kanegafuchi Boseki Kaisha: *See*—  
Yazawa, Masahide, and Arakawa. 2,954,687.
- Kanegafuchi Spinning Co. Ltd.: *See*—  
Yazawa, Masahide, and Arakawa. 2,954,687.
- Kangas, Charles H.: *See*—  
Hebard, Glen G., and Kangas. 2,920,483.
- Kanitz, Georges. Proof-printing machine. 2,932,250, 4-12-60, Cl. 101-245.
- Kann, Myron, to General Electric Co. Threaded fastener retaining device. 2,919,736, 1-5-60, Cl. 151-69.
- Kann, Myron, to General Electric Co. Threaded fastener retaining device. 2,922,456, 1-26-60, Cl. 151-69.
- Kannengieser, Ludwig, and H. Lang, to Firma Rhenopak G.m.b.H. Heat sealing. 2,928,220, 3-15-60, Cl. 53-180.
- Kanoi, Nobuo: *See*—  
Yasuda, Junichi, Kanoi, and Takahata. 2,950,385.
- Kanouse, Robert F. Portable anchor winch. 2,927,772, 3-8-60, Cl. 254-186.
- Kanter, Jerome J., A. L. Sachs, and C. U. Larson, to Crane Co. Valve mechanism for tanks or the like. 2,962,727, 12-6-60, Cl. 4-67.
- Kantner, Donald J.: *See*—  
Dotterer, Elmer E., Kantner, Sprankle, and Van Gorder. 2,943,749.
- Kantor, Andrew J.: *See*—  
Tucker, Linwood G., Jr., and Kantor. 2,946,112.



- Kantrowitz, Arthur. Fluid flow rectifier. 2,925,830, 2-23-60, Cl. 138-37.
- Kantrowitz, Sidney H.: *See*—  
Eichenbaum, William, Kantrowitz, and Mandel. 2,938,456.
- Kany, John A.: *See*—  
Jensen, William G., and Kany. 2,925,076.
- Kanz, Ewald. Container for nutrient media. 2,954,327, 9-27-60, Cl. 195-139.
- Kanzelberger, Claude G.: *See*—  
Hiers, Victor H., and Kanzelberger. 2,931,128.
- Kanzelberger, Claude G., and V. H. Hiers, to Hamilton Mfg. Co. Brake mechanism for drafting table. 2,924,299, 2-9-60, Cl. 188-67.
- Kao, Shih C.: *See*—  
Ethington, Lloyd D., and Kao. 2,930,633.
- Kapeller, James J., to Levolor Lorentzen, Inc. Gears. 2,952,163, 9-13-60, Cl. 74-449.
- Kapfer, William H., and M. Kronstein, to United States of America, Navy. Process for applying a protective coating to a magnesium surface. 2,935,423, 5-3-60, Cl. 117-71.
- Kapff, Sixt F.: *See*—  
Ryant, Charles J., Jr., and Kapff. 2,949,768.
- Kaphengst, Jurgen, to Stierlen-Werke Aktiengesellschaft. Device for washing and rinsing drinking-vessels. 2,953,144, 9-20-60, Cl. 134-80.
- Kapilow, Marvin: *See*—  
Bechtold, Edwin W., Kapilow, and Weinstein. 2,945,415.  
Bechtold, Edwin W., Kapilow, and Weinstein. 2,945,419.  
Reibel, Robert H., Martinez, and Kapilow. 2,923,195.
- Kapitula, John. Cylinder head. 2,920,929, 1-12-60, Cl. 309-2.
- Kaplan, Charles H., and J. J. M. Pelen, to Compagnie pour la Fabrication des Compteurs et Materiel d'Usines a Gaz. Measuring device. 2,950,433, 8-23-60, Cl. 324-43.
- Kaplan, Leo I., to Poly Industries, Inc. Airfoil structure with boundary layer control means. 2,959,377, 11-8-60, Cl. 244-40.
- Kaplan, Louis G.: *See*—  
Benes, William S., and Kaplan. 2,945,609.
- Kaplan, Louis G., to Cullen-Friestedt Co. Torque limiting clutch assembly with heat dissipating and lubricating means. 2,920,465, 1-12-60, Cl. 64-29.
- Kaplan, Louis G., to Cullen-Friestedt Co. Shock absorbing linkage mechanism. 2,959,411, 11-8-60, Cl. 267-71.
- Kaplan, Henry: *See*—  
Finkel, Leonard, and Kaplan. 2,956,244.
- Kaplan, Richard D., L. M. Nucci, and J. H. Maravel, to Republic Aviation Corp. Variable area air induction system. 2,939,651, 6-7-60, Cl. 244-53.
- Kaplan, Sam H., to Zenith Radio Corp. Color image reproducers. 2,947,899, 8-2-60, Cl. 313-92.
- Kaplan, Sam H., to Zenith Radio Corp. Color image reproducer and method of manufacture. 2,959,483, 11-8-60, Cl. 96-34.
- Kapp, Numer M.: *See*—  
Ashwill, Richard E., and Kapp. 2,928,793.
- Kapp, Numer M., to Houdry Process Corp. Quench oil system. 2,935,541, 5-3-60, Cl. 260-681.5.
- Kapp, Roland, and R. Griffith, to Nopco Chemical Co. Calcium pantothenate and a method for treating same. 2,935,528, 5-3-60, Cl. 260-534.
- Kappel, Edwin L. Brush rest and wiper for paint can. 2,941,692, 6-21-60, Cl. 220-90.
- Kappel, Joseph R. Electrical musical instrument. 2,960,899, 11-22-60, Cl. 84-118.
- Kappel, Max. Aerial projectile game. 2,923,548, 2-2-60, Cl. 273-95.
- Kappen, John W. Insulated container. 2,947,436, 8-2-60, Cl. 220-10.
- Kappenberger, Helmut: *See*—  
Schimmelschmidt, Kurt, and Kappenberger. 2,959,582.
- Kappus, Peter G., to General Electric Co. VTOL aircraft. 2,932,468, 4-12-60, Cl. 244-23.
- Kappus, Peter G., to General Electric Co. VTOL aircraft. 2,936,973, 5-17-60, Cl. 244-23.
- Kapral, Ales M. Coating compositions. 2,952,555, 9-13-60, Cl. 106-243.
- Kaprelian, Edward K.: *See*—  
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Schwartz, Morris, and Kaprelian. 2,961,922.
- Kaprelian, Edward K., and W. Bender, to The Kalart Co., Inc. Panning guide. 2,924,143, 2-9-60, Cl. 88-16.
- Kaprelian, Edward K. Electrophotography. 2,940,847, 6-14-60, Cl. 96-1.
- Kaprelian, Edward K. Gas discharge light shutter. 2,962,932, 12-6-60, Cl. 88-61.
- Kapsch, Tobie E. Flexible harrow and converter means therefor. 2,919,755, 1-5-60, Cl. 172-245.
- Kapsenberg, Cornelis, to N.V. Koninklijke Maatschappij "De Schelde." Marine adjustable-blade propeller and sealing means therefor. 2,933,141, 4-19-60, Cl. 170-160.23.
- Kapteyn, Paul. Circuit system for electronic flash instruments with transistors. 2,944,191, 7-5-60, Cl. 315-183.
- Kara, narodni podnik: *See*—  
Vysanský, Miloš. 2,959,081.
- Karabinos, Joseph V., and A. T. Ballun, to Olin Mathieson Chemical Corp. Production of improved polyethenoxy esters and products derived therefrom. 2,954,369, 9-27-60, Cl. 260-97.5.
- Karady, Sándor: *See*—  
Slettinger, Meyer, and Karady. 2,951,075.
- Karageorgieff, Christoph. Liquid container with dispensing device. 2,954,905, 10-4-60, Cl. 222-483.
- Karash, Walter J., to General Electric Co. Ballast transformer apparatus. 2,958,007, 10-25-60, Cl. 315-100.
- Karato, Yoshiichi: *See*—  
Taniyama, Toshio, Karato, and Usamoto. 2,933,219.  
Taniyama, Toshio, Sasaki, Karato, and Usamoto. 2,957,758.
- Karbowski, John S.: *See*—  
Mayhall, John A., and Karbowski. 2,942,706.
- Karbowski, Sylvester, to Progressive Tool & Mfg. Co. Belt-grinding machine. 2,934,864, 5-3-60, Cl. 51-141.
- Karbum, August C., and J. C. Boag, to Ethyl Corp. Process of preparing metallo derivatives of acetoacetic acid esters. 2,948,747, 8-9-60, Cl. 260-483.
- Karchner, Ellen L.: *See*—  
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- Kardas, Raymond S., K. Routsis, and A. G. Chartier, to United States of America, Air Force. Pendulum type spectrograph. 2,929,294, 3-22-60, Cl. 88-14.
- Karde, Klaus C., M. W. Paquette, and W. V. Putz, to Harnischfeger Corp. Connecting rod and piston assembly. 2,926,975, 3-1-60, Cl. 309-20.
- Karde, Klaus C., to Harnischfeger Corp. Two cycle super charged internal combustion engine. 2,963,006, 12-6-60, Cl. 123-41.33.
- Kården, Karl G., to Atlas Copco Aktiebolag. Throttle valves for pneumatic tools or the like. 2,939,675, 6-7-60, Cl. 251-242.
- Kardorff, Leon: *See*—  
Gold, Charles M., and Kardorff. 2,963,533.
- Karg, Fred H., to Giannini Controls Corp. Rotary potentiometer. 2,959,729, 11-8-60, Cl. 323-79.
- Kargard, Allen C.: *See*—  
Kargard, Raymond, P. and A. C., and H. A. and R. H. Andresen. 2,942,567.
- Kargard Co., Inc.: *See*—  
Kargard, Raymond, P. and A. C., and H. A. and R. H. Andresen. 2,942,567.
- Kargard, Peter: *See*—  
Kargard, Raymond, P. and A. C., and H. A. and R. H. Andresen. 2,942,567.
- Kargard, Raymond, P. and A. C., and H. A. and R. H. Andresen, to The Kargard Co., Inc. Mechanism for forming ends of metallic cylinders. 2,942,567, 6-28-60, Cl. 113-52.
- Karger, Henry, and R. D. Kemper, to Borg-Warner Corp. Air conditioners. 2,939,297, 6-7-60, Cl. 62-298.
- Karhan, Raymond A., to Borg-Warner Corp. Oil systems for refrigerant compressors. 2,919,847, 1-5-60, Cl. 230-206.
- Karig, Horace: *See*—  
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Given, Bertram, Jordan, and Karig. 2,958,911.
- Karinen, Raymond S.: *See*—  
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- Karius, William: *See*—  
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- Karkalits, Olin C., Jr., and H. F. Christmann, to Petro-Tex Chemical Corp. Catalytic dehydrogenation of hydrocarbons. 2,958,717, 11-1-60, Cl. 260-680.
- Karl, Robert. Automatic telephone message receiver and recorder. 2,935,566, 5-3-60, Cl. 179-6.
- Karlby, Henning, to Rockwell Mfg. Co. Flow mass meter. 2,940,309, 6-14-60, Cl. 73-194.
- Karlene, Everett L.: *See*—  
McAuley, James W., and Karlene. 2,929,176.
- Karlet, Joseph G., to General Railway Signal Co. Remote control system for a trimming locomotive. 2,951,452, 9-6-60, Cl. 104-26.
- Karlet, Joseph G., and J. M. Hesser, to Westinghouse Air Brake Co. Automatic switching system for railway classification yard utilizing a punched tape. 2,941,068, 6-14-60, Cl. 246-2.
- Karll, Robert E.: *See*—  
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- Karll, Robert E., A. R. Sabot, and E. E. Richardson, to Standard Oil Co. Lubricating oil composition. 2,921,901, 1-19-60, Cl. 252-32.7.
- Karll, Robert E., E. E. Richardson, and R. W. Watson, to Standard Oil Co. Preparation of metal salts of phosphorus sulfide-hydrocarbon reaction products. 2,952,672, 9-13-60, Cl. 260-139.
- Karlovitz, Bela, B. Lewis, and G. Von Elbe, to Combustion and Explosives Research, Inc. Glass fiber production. 2,925,620, 2-23-60, Cl. 18-47.3.
- Karlson, John C.: *See*—  
Wattson, Harry B., and Karlson. 2,925,662.
- Karlson, Richard W.: *See*—  
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- Karlson, Wesley N. Carbonated beverages. 2,943,939, 7-5-60, Cl. 99-28.
- Karlsson, Arnold V.: *See*—  
Mattson, Sven A., Karlsson, and Nilsson. 2,963,018.
- Karlsson, Elov K.: *See*—  
Hyman, Benjamin M., and Karlsson. 2,947,133.  
Pool, Stuart D., and Karlsson. 2,923,207.
- Karlsson, Elov K., to International Harvester Co. Corn pitcher. 2,935,193, 5-3-60, Cl. 209-136.
- Karlsson, Elov K., to International Harvester Co. Ear corn conveyor for corn pickers. 2,947,131, 8-2-60, Cl. 56-18.



- Karlsson, Erik A.: *See*—  
Dahlqvist, Georg A., and Karlsson. 2,956,424.
- Karlsson, Sven-Olof: *See*—  
Quistgaard, Erik V., and Karlsson. 2,936,653.
- Karlsson, Sven-Olof, and E. V. Quistgaard, to Aktiebolaget Volvo. Change speed gearings, particularly for motor vehicles. 2,919,606, 1-5-60, Cl. 74—688.
- Karlstadt, Maurice D., Jr.: *See*—  
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- Karlstrom, Karl R.: *See*—  
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- Karlstrom, Karl R. M., to Aetna Steel Products Corp. Locking device. 2,955,688, 10-11-60, Cl. 189—36.
- Karmas, George, to Ortho Pharmaceutical Corp. Certain 1-dialkyl amino methyl, 3-alkyl pyrazoles. 2,928,842, 3-15-60, Cl. 260—310.
- Karmas, George, to Ortho Pharmaceutical Corp. 4-alkyl-pyrazoles. 2,931,814, 4-5-60, Cl. 260—310.
- Karmas, George, and William Orshnik, to Ortho Pharmaceutical Corp. Certain 1-acyl-3-undecyl pyrazoles. 2,926,170, 2-23-60, Cl. 260—310.
- Karnath, Gunther: *See*—  
Karnath, Kurt, G. and K., and Stahl. 2,951,711.
- Karnath, Klaus-Jürgen: *See*—  
Karnath, Kurt, G. K., and Stahl. 2,951,711.
- Karnath, Kurt, G. and K., and D. Stahl. Trailer coupling for towing vehicles for hauling trailers whose pole is provided with a towing eye. 2,951,711, 9-6-60, Cl. 280—508.
- Karnaugh, Maurice: *See*—  
James, Dennis B., Johannesen, Karnaugh, and Malthaner. 2,957,949.
- Karnavas, Eisdoros C., B. Cornelison, and H. Braun, to Texas Instruments Inc. Apparatus for forming point contacts for transistors. 2,962,058, 11-29-60, Cl. 140—71.5.
- Karnes, Laurette C. Paint applicator. 2,936,473, 5-17-60, Cl. 15—209.
- Karney, James R., Corp.: *See*—  
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- Karnopp, Kingsley P.: *See*—  
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- Karo, Wolf: *See*—  
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Halpern, Benjamin D., and Karo. 2,947,734.  
Halpern, Benjamin D., and Karo. 2,951,830.  
Halpern, Benjamin D., Karo, and Levine. 2,957,914.
- Karoff, Robert B. Collapsible serving table. 2,926,794, 3-1-60, Cl. 211—149.
- Karolus, August. Magnetic picture recording. 2,947,809, 8-2-60, Cl. 178—6.6.
- Karp, Arthur, to Bell Telephone Laboratories, Inc. Traveling wave tube structure. 2,945,979, 7-19-60, Cl. 315—3.5.
- Karp, Arthur, to Bell Telephone Laboratories, Inc. Magnetron-type traveling wave tube. 2,945,981, 7-19-60, Cl. 315—3.5.
- Karp, Edward J., to G. S. Blakeslee & Co. Pump. 2,959,134, 11-8-60, Cl. 103—103.
- Karp, Martin E., to National Pneumatic Co., Inc. Door operation and control. 2,941,795, 6-21-60, Cl. 268—63.
- Karp, Philip I.: *See*—  
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- Karpchuk, Sylvester, to Tinius Olsen Testing Machine Co. Tunable pick-up. 2,946,218, 7-26-60, Cl. 73—70.2.
- Karpeles, Mark A., to International Telephone and Telegraph Corp. Course guidance system. 2,943,321, 6-28-60, Cl. 343—112.
- Karpes, Bernard. Fishing hook or lure retrieving device. 2,948,077, 8-9-60, Cl. 43—17.2.
- Karpes, Bernard. Fishing devices. 2,950,558, 8-30-60, Cl. 43—17.2.
- Karpi, Nikolaus. Camera holding handle. 2,961,937, 11-29-60, Cl. 95—86.
- Karpi, Nikolaus. Tilting tripod-head. 2,962,251, 11-29-60, Cl. 248—183.
- Karpuk, John P., and J. B. Thomas, to Reynolds Metals Co. Control apparatus for blow torch. 2,939,410, 6-7-60, Cl. 110—22.
- Karr, Clarence, Jr., W. D. Weatherford, Jr., and J. H. Wright, to Gulf Research & Development Co. Preparation of adsorbents for a specific activity. 2,960,479, 11-15-60, Cl. 252—463.
- Karr, George R., and P. Blount, to Western Corrugated, Inc. Fiberboard container. 2,957,615, 10-25-60, Cl. 229—16.
- Karr, J. Harold: *See*—  
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- Karr, Theodore J.: *See*—  
Vierk, Ernest R., and Karr. 2,947,697.
- Karrer, Friedrich W. J., to Aktiebolaget Pluria. Method of treating with liquid a material in granular, threaded or fibrous form. 2,936,212, 5-10-60, Cl. 8—158.
- Karrer, Friedrich W. J. Apparatus for treating with liquid a material in granular, threaded or fibrous form. 2,959,047, 11-8-60, Cl. 68—184.
- Karrer, Korbinian, to Siemens & Halske Aktiengesellschaft. Electromagnetic switch. 2,922,856, 1-26-60, Cl. 200—87.
- Karrer, Sebastian: *See*—  
Fritts, Robert W., and Karrer. 2,922,082.  
Fritts, Robert W., and Karrer. 2,922,083.  
Fritts, Robert W., and Karrer. 2,937,216.
- Karsa, Anthony H., to H. Rushworth & Co. Ltd. Preparation of bristle material. 2,953,820, 9-27-60, Cl. 19—65.
- Karsh, Irving: *See*—  
Heinmiller, Percival M., and Karsh. 2,933,329.
- Karst, Robert: *See*—  
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- Karst, Sylvester F. Portable sectional pier. 2,948,121, 8-9-60, Cl. 61—48.
- Kartridg Pak Co., The: *See*—  
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- Kartridg-Pak Machine Co.: *See*—  
Cross, Lawrence P. 2,930,077.  
Mojonner, Albert B., and Karnopp. 2,925,835.
- Karwat, Ernst, to Gesellschaft für Linde's Eismaschinen Aktiengesellschaft. Process for the production of oxygen of low argon content. 2,930,201, 3-29-60, Cl. 62—22.
- Kase, Otto E., to Sperry Rand Corp. Selective posting interpreter. 2,927,529, 3-8-60, Cl. 101—93.
- Kash, Don: *See*—  
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- Kash, Lou: *See*—  
Taren, Jack. 2,920,243.
- Kashivama, Junzo. Photographer's jacket. 2,919,443, 1-5-60, Cl. 2—94.
- Kashiwara, Manabu. Servo-control mechanism. 2,953,933, 9-27-60, Cl. 74—388.
- Kaskan, Walter E., and A. E. Moreen, to General Electric Co. Combustion chamber screech eliminator. 2,919,550, 1-5-60, Cl. 60—39.72.
- Kaskey, Sonia S. Case for holding and displaying wrist watch. 2,936,067, 5-10-60, Cl. 206—45.15.
- Kaslow, Arthur L. Refuse receptacle. 2,926,834, 3-1-60, Cl. 229—52.
- Kason, John, to Electric & Musical Industries Ltd. Distributed amplifiers. 2,931,989, 4-5-60, Cl. 330—54.
- Kaspar, Emanuel: *See*—  
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Hiersemann, Wolfgang, Kaspar, and Kerb. 2,962,510.
- Kaspari, Albert R., H. C. Rutherford, and G. M. Avalon, to Fidelitone, Inc. Phonograph needle package. 2,944,663, 7-12-60, Cl. 206—45.19.
- Kaspaul, Alfred, to P. Vogel. Apparatus for handling radioactive materials. 2,931,680, 4-5-60, Cl. 294—100.
- Kaspaul, Alfred, to P. Vogel. Instruments for the manipulation of dangerous liquids. 2,932,974, 4-19-60, Cl. 77—425.6.
- Kasper, Anne N.: *See*—  
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- Kasper, Elmer J., to Royal Appliance Mfg. Co. Suction cleaner motor mounting construction. 2,964,236, 12-13-60, Cl. 230—117.
- Kasperik, Archibald S., and S. C. Justus, Jr., to Signal Oil and Gas Co. Zeolitic molecular sieve adsorption process using the adsorbate as the desorbing medium. 2,963,519, 12-6-60, Cl. 260—676.
- Kass, Irvin E., and G. A. Rouvellat, to The Martin Co. Combined hinge, structural member and actuator for aircraft control surfaces. 2,932,473, 4-12-60, Cl. 244—90.
- Kass, Samuel M. Flush tank inlet valve. 2,955,672, 10-11-60, Cl. 181—49.
- Kassardjian, Hagop. Garment hangers. 2,920,800, 1-12-60, Cl. 223—88.
- Kassay, John L., G. M. Le Fave, A. W. Stewart, and A. J. Baranoff, said Kassay assor. to Yucaipa Instruments Ltd., Inc. Trimming potentiometer. 2,938,186, 5-24-60, Cl. 338—180.
- Kassel, Martin: *See*—  
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- Kassel, Martin, to Kienzle Apparate G.m.b.H. Electronic computer. 2,936,956, 5-17-60, Cl. 235—160.
- Kassinger, Herman. Double glazed insulating window unit. 2,966,435, 12-27-60, Cl. 154—2.71.
- Kassnel, Nicholas J., to Verson Allsteel Press Co. Overload protected mechanical press. 2,936,055, 5-10-60, Cl. 192—129.
- Kassner, Rudolf R.: *See*—  
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- Kassner, Rudolf R., and G. Opydyke, Jr., to Avco Mfg. Corp. Fuel vaporizer. 2,956,404, 10-18-60, Cl. 60—39.71.
- Kasson, Glendon F.: *See*—  
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- Kasson, Glendon F., and N. H. Foss, to Northrop Corp. Secondary observation window for a tracking telescope. 2,962,925, 12-6-60, Cl. 88—1.
- Kastan, Howard, to Lockheed Aircraft Corp. Debris traps for engine-air inlets. 2,944,731, 7-12-60, Cl. 230—132.
- Kasten, John W., to Canyon Farms, Inc. Animal self-feeder. 2,930,352, 3-29-60, Cl. 119—52.
- Kasten, Walter, to Bendix Aviation Corp. Filter element assembly. 2,919,765, 1-5-60, Cl. 183—71.
- Kasten, Walter, to Bendix Aviation Corp. Filter. 2,937,754, 5-24-60, Cl. 210—131.
- Kasten, Walter, to Bendix Aviation Corp. Filter and method of making. 2,947,419, 8-2-60, Cl. 210—435.
- Kasten, Walter, to The Bendix Corp. Method of molding endcaps on filter elements. 2,965,933, 12-27-60, Cl. 18—59.
- Kasten, Walter, and A. M. Rohn, to Bendix Aviation Corp. Method of forming filter endcaps. 2,934,791, 5-3-60, Cl. 18—59.
- Kastner, Curtis H., to Western Engineering & Mfg. Co. Rotary ventilator. 2,953,079, 9-20-60, Cl. 98—75.



- Kästner, Erich. Film printing machine. 2,943,554, 7-5-60, Cl. 95-75.
- Kastner, Jacob: *See*—  
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- Kastner, Walter J., Jr. Steam engine. 2,961,835, 11-29-60, Cl. 60-108.
- Kastning, Ernst-Guenther: *See*—  
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- Katagiri, Hideo, and T. Tochikura, to Ajinomoto Co., Inc. Process for producing L-glutamic acid from hardly soluble amino-acid. 2,953,499, 9-20-60, Cl. 194-47.
- Kates, Charles, to The Union Malleable Mfg. Co. Well seal. 2,956,822, 10-18-60, Cl. 285-137.
- Kates, Leonard W., R. W. Campbell, and R. H. W. Heartel, to United States of America, Atomic Energy Commission. Method for making fuel elements. 2,947,080, 8-2-60, Cl. 29-528.
- Kath, Frank G.: *See*—  
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- Kath, Norman A. Signal-controlled actuator for telephones and the like. 2,960,576, 11-15-60, Cl. 179-84.
- Kathe, Edmund A.: *See*—  
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- Kathrein, Henry R., to Grain Processing Corp. Production of carotenoids by the cultivation of algae. 2,949,700, 8-23-60, Cl. 47-58.
- Katls, William R., to "Automatic" Sprinkler Corp. of America. Pipe hanger. 2,944,778, 7-12-60, Cl. 248-62.
- Katko, Daniel A., to Lombard Corp. Adjusting means for extrusion press die slide block. 2,960,220, 11-15-60, Cl. 207-1.
- Katko, Daniel A., and A. P. Sgambati, to Lombard Corp. Trepanning machine. 2,959,990, 11-15-60, Cl. 77-31.
- Kato, Sadatake: *See*—  
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- Kato, Shinichi: *See*—  
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- Katoh, Saburo. Multiple classifier. 2,964,185, 12-13-60, Cl. 209-288.
- Katorsky, Oskar. Oil burner. 2,933,131, 4-19-60, Cl. 158-77.
- Katransky, Stephen: *See*—  
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- Kätsch, Paul: *See*—  
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- Katsunuma, Susumu: *See*—  
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- Katsuragawa Denki Kabushiki-Kaisha: *See*—  
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- Katt, Harold M., and J. M. Simmons. Roof ventilator. 2,954,727, 10-4-60, Cl. 98-33.
- Katz, Alex J.: *See*—  
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- Katz, Arthur A.: *See*—  
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- Katz, Arthur J., to International Telephone and Telegraph Corp. Radio altimeter systems. 2,928,085, 3-8-60, Cl. 343-14.
- Katz, David. Anti-skid implement for automobiles. 2,933,337, 4-19-60, Cl. 291-1.
- Katz, Edwin F., to General Motors Corp. Gyroscope compensation torque device. 2,934,961, 5-3-60, Cl. 74-5.4.
- Katz, Edwin F., to General Motors Corp. Electromagnetic torque motor system. 2,950,430, 8-23-60, Cl. 318-28.
- Katz, Harold. Toy for balancing and walking. 2,930,613, 3-29-60, Cl. 272-57.
- Katz, Harold W., to General Electric Co. Delay line for angular modulation. 2,949,585, 8-16-60, Cl. 332-29.
- Katz, Irving: *See*—  
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- Katz, Jack: *See*—  
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- Katz, Jack I., to Kingsland Drum & Barrel Co. Inc. Methods of reconditioning drums. 2,943,386, 7-5-60, Cl. 29-401.
- Katz, Joseph J.: *See*—  
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- Katz, Leon, J. Gannon, and R. E. Brouillard, to General Aniline & Film Corp. Conditioning of crude polychloro copper phthalocyanines. 2,930,796, 3-29-60, Cl. 260-314.5.
- Katz, Manfred, to E. I. du Pont de Nemours and Co. Elastic filaments of linear copolyurethanes. 2,929,802, 3-22-60, Cl. 260-77.5.
- Katz, Manfred, to E. I. du Pont de Nemours and Co. Preparation of piperazine phthalamide polymers. 2,949,440, 8-16-60, Cl. 260-78.
- Katz, Norman H.: *See*—  
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- Katz, Robert, W. H. Nebgen, and B. Anik. Rotary interchanger with direct interfacial fluid contact. 2,944,801, 7-12-60, Cl. 261-24.
- Katz, Samuel B., and R. J. Cheebe, to Pipe Plugs, Inc. Method of repairing thread rolling dies. 2,951,283, 9-6-60, Cl. 29-401.
- Katz, Sidney: *See*—  
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- Katz, Sidney, and C. W. Weber, to United States of America, Atomic Energy Commission. Continuous gas analyzer. 2,925,327, 2-16-60, Cl. 23-255.
- Katz, William J.: *See*—  
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- Katz, William J., and A. C. Lind, to Chain Belt Co. Apparatus for separation of liquids or solids from a liquid. 2,961,100, 11-22-60, Cl. 210-519.
- Katzbeck, Walter J., to Corn Products Co. Cold water dispersible laundry starch. 2,938,809, 5-31-60, Cl. 106-210.
- Katzberg, Eugene, to Republic Aviation Corp. Loading and ejection mechanism. 2,923,278, 2-2-60, Cl. 121-40.
- Katzen, Jack, to General Electric Co. Frangible connector. 2,951,421, 9-6-60, Cl. 89-1.7.
- Katzenberger, Edward F.: *See*—  
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- Katzenstine, A. Frank: *See*—  
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- Katzfey, Clarence E. Lawn edger gauge wheel. 2,934,875, 5-3-60, Cl. 56-25.4.
- Katzfey, James M., to H. K. Porter Co., Inc. Drive mechanism for power saw. 2,966,178, 12-27-60, Cl. 143-68.
- Katzin, Eugene M. Venting structure. 2,944,548, 7-12-60, Cl. 128-214.
- Katzman, Seymour. Split mold for metal pig casting machines. 2,952,054, 9-13-60, Cl. 22-62.
- Katzmann, Fred L., and R. J. Schnell, to Allen B. Du Mont Laboratories, Inc. Cathode ray oscillograph. 2,928,985, 3-15-60, Cl. 315-30.
- Katzmarek, Edmund R. Prefabricated step unit. 2,949,703, 8-23-60, Cl. 50-107.
- Katzschmann, Ewald, to Chemische Werke Witten Gesellschaft mit beschränkter Haftung. Process of producing terephthalic acid mono-( $\beta$ -hydroxy ethyl) ester and its metal salts. 2,937,197, 5-17-60, Cl. 260-475.
- Kauder, Otto S., to Argus Chemical Corp. Stabilization of chlorinated solvents. 2,944,088, 7-5-60, Cl. 260-652.5.
- Kauer, James C., to E. I. du Pont de Nemours and Co. Process for making acetylenic compounds by contacting alkyl acetylenes with oxygen and a copper salt. 2,952,718, 9-13-60, Cl. 260-678.
- Kauer, Kenneth C.: *See*—  
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- Kaufeld, Donald B., to Excel-O-Therm Container Corp. Insulated perishable food carton. 2,954,912, 10-4-60, Cl. 229-3.5.
- Kaufman, Benjamin F. Oil burner air cleaner. 2,933,153, 4-19-60, Cl. 183-44.
- Kaufman, Floyd L., D. B. Van Dolah, and A. W. Sharp. Egg handling method. 2,923,631, 2-2-60, Cl. 99-113.
- Kaufman, Floyd L., and L. D. Mink, to Swift & Co. Treatment of liquid whole eggs. 2,936,240, 5-10-60, Cl. 99-196.
- Kaufman, Jesse: *See*—  
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- Kaufman Advertising Co., Inc.: *See*—  
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- Kaufman, Charles E., and W. H. Trautman, to Hagan Chemicals & Controls, Inc. Method of and apparatus for controlling the concentration of dissolved solids in steam boiler waters. 2,964,024, 12-13-60, Cl. 122-382.
- Kaufman, Daniel, to National Lead Co. Titanium and zirconium organic compounds. 2,922,802, 1-26-60, Cl. 260-429.3.
- Kaufman, Daniel, to National Lead Co. Di-cyclopentadienyl di-titanium hexa-halide and process of preparation. 2,922,803, 1-26-60, Cl. 260-429.5.
- Kaufman, Daniel, to National Lead Co. Cyclopentadienyl-metal halide compounds. 2,922,805, 1-26-60, Cl. 260-439.
- Kaufman, Harold G., to Kaufman Advertising Co., Inc. Comparison device. 2,944,349, 7-12-60, Cl. 35-54.
- Kaufman, Herbert C., to John B. Pierce Foundation. Biphenyltriphenoxysilane. 2,924,574, 2-9-60, Cl. 252-78.
- Kaufman, Herbert C., to John B. Pierce Foundation. Xenyl triphenoxy silane, mixtures thereof and method of transferring heat. 2,924,575, 2-9-60, Cl. 252-78.
- Kaufman, Herbert C., to John B. Pierce Foundation. Compositions comprising hexaphenoxo disilyl benzene. 2,934,502, 4-26-60, Cl. 252-78.
- Kaufman, Hans J., to Stakmore Co. Inc. Folding chair with pivots in intersecting planes. 2,936,026, 5-17-60, Cl. 155-141.
- Kaufman, Jack, and A. Lund, to Markstone Mfg. Co. Recessed light fixture and mounting fastener therefor. 2,954,959, 10-4-60, Cl. 248-343.
- Kaufman, John J., and P. R. Templin, to Gulf Research & Development Co. Soil nutrient composition and method for preparing same. 2,936,226, 5-10-60, Cl. 71-1.
- Kaufman, Roy L., to Western Electric Co., Inc. Heater insulator for indirectly heated cathode. 2,936,385, 5-10-60, Cl. 313-340.
- Kaufman, Samuel J. Time-piece incorporating an instantaneously-operating date indicator. 2,934,886, 5-3-60, Cl. 58-5.
- Kaufman, Sidney: *See*—  
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- Kaufmann, Carl P., to Ellicott Machine Corp. Portable dredge. 2,944,352, 7-12-60, Cl. 37-54.
- Kaufmann, Ernst F., to Möbelfabrik Ernst Kaufmann K.G. Combined chest and bench. 2,936,025, 5-10-60, Cl. 155-114.
- Kaufmann, Frank H., to Steel Heddle Mfg. Co. Reeds for looms. 2,931,396, 4-5-60, Cl. 139-192.
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- Kaufmann, Stanley L., to Marshfield Mfg. Corp. Pistol-type soldering torch. 2,934,308, 4-26-60, Cl. 251-114.
- Kaufmann, Waldemar, A. Ragoss, E. Fitzer, and L. Gress, to Siemens-Planawerke Aktiengesellschaft für Kohlefabrikate. Butt joint on carbon electrodes for electric furnaces. 2,957,716, 10-25-60, Cl. 287-127.
- Kaul, Arthur A., Wall construction and bond. 2,942,453, 6-28-60, Cl. 72-38.
- Kaul, Ben, to American Radiator & Standard Sanitary Corp. Cold shaping of steel. 2,930,483, 3-29-60, Cl. 207-10.
- Kaul Clay Co.: *See*—  
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- Kaul, Harry J., to Westinghouse Electric Corp. Electrical apparatus. 2,953,278, 9-20-60, Cl. 220-67.
- Kaulakis, Frank: *See*—  
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- Kaupp, Bette K., to Maiden Form Brassiere Co., Inc. Girdle. 2,953,134, 9-20-60, Cl. 128-548.
- Kaupp, Josef, G. von Rosenberg, and H. Träger, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brünig. Hard waxes and process for their manufacture. 2,963,379, 12-6-60, Cl. 106-268.
- Kaut, William, Jr. Guard for a lawn mower. 2,934,882, 5-3-60, Cl. 56-255.
- Kautenberg, W. E., Co.: *See*—  
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- Kautenberg, William E., to W. E. Kautenberg Co. Sponge wringer mop. 2,941,226, 6-21-60, Cl. 15-119.
- Kautz, George R.: *See*—  
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- Kautz, Glenn E., to H. H. Robertson Co. Fire damper control apparatus. 2,957,403, 10-25-60, Cl. 98-41.
- Kautz, Murrell F., to Minneapolis-Honeywell Regulator Co. Differential adjustment. 2,953,929, 9-27-60, Cl. 74-100.
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- Kavado, Abraham, and M. K. Lindsay, to Drinks, Inc. Pack for foil containers. 2,956,677, 10-18-60, Cl. 206-80.
- Kavanaugh, Richard J., to Consolidated Electronics Industries Corp. Cam-actuated switch assembly for a repeating interval timer or the like. 2,953,667, 9-20-60, Cl. 200-153.
- Kawabata, Toshio. Textile drafting apparatus. 2,932,858, 4-19-60, Cl. 19-130.
- Kawajiri, Seizo, to Takeda Pharmaceutical Industries, Ltd. Stabilized aqueous solution of vitamin B complex containing cyanocobalamin and thiocyanates. 2,959,520, 11-8-60, Cl. 167-81.
- Kawamura, Masato, to The Lihue Plantation Co., Ltd. Double torpedo rodent exterminator. 2,921,401, 1-19-60, Cl. 43-131.
- Kawamura, Masato, to The Lihue Plantation Co., Ltd. Double torpedo rodent exterminator. 2,921,420, 1-19-60, Cl. 53-34.
- Kawanishi, Sadao, to Kongo Kagaku Kabushiki Kaisha. Process for the preparation of pteroylglutamic acid. 2,956,057, 10-11-60, Cl. 260-251.5.
- Kawarada, Masataro, to Ataka & Co., Ltd. Gyroscopes. 2,963,912, 12-13-60, Cl. 74-5.7.
- Kawasaki Jukogyo Kabushiki Kaisha (Kawasaki Dockyard Co., Ltd.): *See*—  
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- Kawasaki, Sozo. Process of making oil-impregnated machine parts from synthetic resin and the articles manufactured by said process. 2,946,094, 7-26-60, Cl. 18-47.5.
- Kawate, Kenichi. Photographic flash bulb socket. 2,920,301, 1-5-60, Cl. 339-32.
- Kawneer Co.: *See*—  
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- Kay, Charles W., to General Motors Corp. Automatic head-light beam control. 2,922,860, 1-26-60, Cl. 200-97.
- Kay Chemicals, Inc.: *See*—  
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- Kay, John G., and M. Dabich, to F. Jos. Lamb Co. Conveying and storing units. 2,948,386, 8-9-60, Cl. 198-219.
- Kay, John G., to F. Jos. Lamb Co. Rotary machine for processing workpieces. 2,921,412, 1-19-60, Cl. 51-7.
- Kay, John G., to F. Jos. Lamb Co. Rotary machine for processing workpieces. 2,921,413, 1-19-60, Cl. 51-7.
- Kay, John G., and J. K. Rye, to F. Jos. Lamb Co. Elevators for lifting articles or workpieces. 2,924,325, 2-9-60, Cl. 198-168.
- Kay, Lloyd D., to Kay-Brunner Steel Products, Inc. Brake shoe construction. 2,928,510, 3-15-60, Cl. 188-250.
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- Kaye, Anthony J., to General Electric Co. Feed mechanism. 2,961,138, 11-22-60, Cl. 226-172.
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- Arnot, Alfred E. R. 2,944,689.
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- Kaye, Hubert E., to Rollway Bearing Co., Inc. Thrust bearing. 2,959,458, 11-8-60, Cl. 308-231.
- Kaye, Joseph, E. F. Kurtz, Jr., and G. F. Harper. Multiple stage rocket. 2,927,398, 3-8-60, Cl. 46-74.
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Korn, Irving, Kaye, Pierce, Walworth, and Huscher. 2,956,915.
- Kaye, Karl H. Masonry joint mesh-strip. 2,929,238, 3-22-60, Cl. 72-103.
- Kaye, Philip, F. A. Glomb, and H. C. Bull, to International Staple and Machine Co. Standard for automatic stapling machine. 2,954,952, 10-4-60, Cl. 248-123.
- Kaye, Robert K., to General Dynamics Corp. Paystation adapter for telephone systems. 2,938,953, 5-31-60, Cl. 179-6.3.
- Kaye, Saul, to Ben Venue Laboratories Inc. Sterilizing apparatus employing gas. 2,965,936, 12-27-60, Cl. 21-91.
- Kayes, George R.: *See*—  
Besuch, Joachim A., and Kayes. 2,954,257.
- Kaye-Tex Mfg. Corp.: *See*—  
Korn, Irving, Kaye, Pierce, Walworth, and Huscher. 2,956,915.
- Kayler, Frank H., to American Steel Foundries. Transitional coupling arrangement. 2,921,698, 1-19-60, Cl. 213-112.
- Kayler, Frank H., to American Steel Foundries. Railway coupler. 2,923,419, 2-2-60, Cl. 213-110.
- Kayler, Frank H., to American Steel Foundries. Railway coupler. 2,950,018, 8-23-60, Cl. 213-159.
- Kayler, Frank H., and F. C. Kulieke, to American Steel Foundries. Anti-jackknifing connection arrangement for railway draft rigging. 2,933,199, 4-19-60, Cl. 213-20.
- Kayler, Frank H., and E. G. Opsahl, to American Steel Foundries. Trailer support beam. 2,963,990, 12-13-60, Cl. 105-368.
- Kays, Donald H. Latch mechanism for end panels for wagons. 2,940,622, 6-14-60, Cl. 214-82.
- Kayser-Roth Corp.: *See*—  
Caulfield, Harding B. 2,965,227.
- Gift, John. 2,948,132.
- Kayton, Irving: *See*—  
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- Pos, Julius. 2,930,125.
- Kaywood Corp.: *See*—  
Bury, Jack. 2,923,027.
- Sherwood, Glenn L. 2,948,897.
- Kazan, Benjamin, to Radio Corp. of America. Picture storage device. 2,926,263, 2-23-60, Cl. 250-213.
- Kazan, Benjamin, to Radio Corp. of America. Photoconductive image intensifier. 2,927,234, 3-1-60, Cl. 313-65.
- Kazan, Benjamin, to Radio Corp. of America. Electroluminescent storage device. 2,942,120, 6-21-60, Cl. 250-213.
- Kazan, Benjamin, to Radio Corp. of America. Radiant energy sensitive device. 2,949,537, 8-16-60, Cl. 250-213.
- Kazan, Benjamin, to Radio Corp. of America. Photoconductive control circuit for light amplifiers and like device. 2,957,991, 10-25-60, Cl. 250-213.
- Kazan, Benjamin, and J. E. Berkeyheiser, Jr., to Radio Corp. of America. Radiant energy control apparatus. 2,943,205, 6-28-60, Cl. 250-206.
- Kazato, Kenji: *See*—  
Takahashi, Noboru, Kazato, Ashinuma, and Watanabe. 2,932,069.
- Kazenas, Zenon, to J. D. Steele. Magnetic particles. 2,936,287, 5-10-60, Cl. 252-62.5.
- Kazenas, Zenon, to Switzer Brothers, Inc. Pigment materials. 2,938,873, 5-31-60, Cl. 252-301.2.
- Kazimierzczak, Dionizy. Tile mastic applying machine. 2,958,881, 11-8-60, Cl. 15-50.
- Kazmierczak, Leon J., and F. W. Sullivan, III, to Houdry Process Corp. Gas deflector for gas-solids contact apparatus. 2,925,331, 2-16-60, Cl. 23-288.
- K'Burg, Robert T., to E. I. du Pont de Nemours and Co. Di-phase cleaning system. 2,923,648, 2-2-60, Cl. 134-12.
- Ke, Bacon, and H. N. Friedlander, to Standard Oil Co. Polymerization process and catalysts. 2,946,778, 7-26-60, Cl. 260-93.7.
- Kealy, Joseph P., to Swift & Co. Urea-formaldehyde polymers of high agronomic value. 2,953,930, 10-11-60, Cl. 71-29.
- Kearby, Kenneth K., to Esso Research and Engineering Co. Adsorption process. 2,958,714, 11-1-60, Cl. 260-676.



- Kearney, James L.: *See*—  
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- Kearney, James R., Corp.: *See*—  
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Hardy, Robert D. 2,958,067.  
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Landis, Alfred R. 2,924,263.  
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- Kearney, John F.: *See*—  
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- Kearney, Thomas J., to Detrex Chemical Industries, Inc. Cleaning apparatus. 2,949,121, 8-16-60, Cl. 34—130.
- Kearney, Thomas J., and J. H. Nuber, to Detrex Chemical Industries, Inc. Apparatus for treatment with solvents. 2,924,229, 2-9-60, Cl. 134—79.
- Kearney & Trecker Corp.: *See*—  
Armitage, Joseph B., and Lukey. 2,925,747.  
Barker, Orrin W., Martin, Osburn, and Zankl. 2,963,945.  
Barker, Orrin W., and Osburn. 2,952,190.  
Davis, Jacob M., and Hochmuth. 2,958,753.  
Finley, John R., and Sem. 2,925,002.  
Gleisner, William C., Jr. 2,930,292.  
Hansen, John A. 2,956,454.  
Hansen, John A., Parske, and Riedel. 2,952,170.  
Lukey, John B., Osburn, and Zankl. 2,925,018.  
Osburn, John C. 2,960,189.  
Parske, Charles A., and Riedel. 2,947,227.  
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- Kearns, Charles M., Jr., to United Aircraft Corp. Hub structure for an aeronautical propeller. 2,939,536, 6-7-60, Cl. 170—160.58.
- Kearns, James J. Ship decontamination system. 2,953,143, 9-20-60, Cl. 134—58.
- Kearns, Robert W. Means for extending the useful frequency response of measuring instruments. 2,959,347, 11-8-60, Cl. 235—61.
- Kearns, William J. L.: *See*—  
Cochran, Peter W. F., Reilly, Lewis, and Kearns. 2,927,846.
- Kearsarge Engineering Corp.: *See*—  
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- Keasbey & Mattison Co.: *See*—  
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- Keathley, Anthony C., and N. A. Kimmel, to Phillips Petroleum Co. Termination of thrust in solid-propellant rockets. 2,944,390, 7-12-60, Cl. 60—35.6.
- Keathley, Maurice F., Sr., and R. O. Manspeaker. Mattress. 2,932,831, 4-19-60, Cl. 5—91.
- Keathley, Maurice F., Sr., and R. O. Manspeaker. Depositing machine. 2,939,407, 6-7-60, Cl. 107—15.
- Keating, Bernard H., and C. P. Sprunk, to General Motors Corp. Sunshade support assembly. 2,939,741, 6-7-60, Cl. 296—97.
- Keating, Charles R., Jr.: *See*—  
Salak, Michael, Keating, and Wilson. 2,943,713.
- Keating, Ethel M., and D. C. Milzer, Jr. Coffee pot or the like. 2,935,928, 5-10-60, Cl. 99—287.
- Keating, George J. Fastener. 2,952,254, 9-13-60, Cl. 128—92.
- Keating, Harry M.: *See*—  
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- Keating, Henry E., J. E. Murphy, and B. N. Poss. Reinforcing structures for temporary barricades for doors of boxcars and grain cars. 2,932,262, 4-12-60, Cl. 105—369.
- Kebba, John J.: *See*—  
Downs, William J. 2,943,408.
- Kebler, Richard W., E. E. Dutches, and R. L. Hutcheson, to Union Carbide Corp. Method for making synthetic uncrystalline bodies. 2,962,838, 12-6-60, Cl. 49—77.
- Kebrich, Leonard M., to National Lead Co. Stabilizer compositions and their process of manufacture. 2,964,418, 12-13-60, Cl. 106—243.
- Kebrich, Leonard M., and A. W. Stroebel, to National Lead Co. Process for the manufacture of heat stabilizing and plasticizing paste compositions. 2,929,733, 3-22-60, Cl. 106—243.
- Kebrle, Jindrich: *See*—  
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Hoffmann, Karl, Hunger, Kebrle, and Rossi. 2,942,002.  
Hoffmann, Karl, Hunger, Kebrle, and Rossi. 2,945,043.  
Hoffmann, Karl, Hunger, Kebrle, and Rossi. 2,945,044.
- Kececioğlu, Dimitri B.: *See*—  
Anderson, Richard F., Kececioğlu, and Baugh. 2,959,364.
- Kececioğlu, Dimitri B., R. A. Weber, N. Kiefer, to Allis-Chalmers Mfg. Co. Fluid pump. 2,938,468, 5-31-60, Cl. 103—118.
- Keble, Roy H. W. Panoramic picture system. 2,926,561, 3-1-60, Cl. 88—16.
- Keef, Dennis W., to Guy F. Atkinson Co. Multi-rotor hydro-turbine pump. 2,928,585, 3-15-60, Cl. 230—79.
- Keefe, Lincoln M.: *See*—  
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- Keefe, Robert L., Jr., to E. I. du Pont de Nemours and Co. Gasket. 2,960,198, 11-15-60, Cl. 189—36.
- Keefe, George E., to Owens-Illinois Glass Co. Oxidation shield for electric furnace electrodes. 2,933,545, 4-19-60, Cl. 13—17.
- Keefe, George E., to Owens-Illinois Glass Co. Method for installing furnace electrode. 2,953,613, 9-20-60, Cl. 13—17.
- Keefe, George E., to Owens-Illinois Glass Co. Furnace electrode assembly with oxidation shielding. 2,960,555, 11-15-60, Cl. 13—17.
- Keefe, Irwin C., to Chromcraft Corp. Chairs. 2,961,037, 11-22-60, Cl. 155—196.
- Keehan, Thomas D. Screw fastener. 2,931,411, 4-5-60, Cl. 151—22.
- Keehn, Richard W., to General Dynamics Corp. Electrostatic filter for fluids. 2,925,372, 2-16-60, Cl. 204—302.
- Keelavite Co. Ltd., The: *See*—  
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- Keeler, Eugene R.: *See*—  
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- Keeler, Frederick D., and J. W. Peterson, to Gilbert Mfg. Co., Inc. Electric lamp socket with pin tap connecting means. 2,938,189, 5-24-60, Cl. 339—99.
- Keeler, Lawrence M.: *See*—  
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- Keeler, Lawrence M., A. J. Vincent, and J. G. Gamble; said Vincent and said Gamble assors. to said Keeler. Method of and to apparatus for use in concatenating fibrous material to form a spun yarn or strand. 2,926,483, 3-1-60, Cl. 57—58.95.
- Keeler, Ralph P., and L. H. Franklin. High voltage resistors. 2,958,061, 10-25-60, Cl. 338—64.
- Keeler, Robert J., to Minneapolis-Honeywell Regulator Co. Aircraft automatic control apparatus having non-linear characteristics. 2,944,767, 7-12-60, Cl. 244—77.
- Keeler, Thelma H. Game book. 2,932,095, 4-12-60, Cl. 35—26.
- Keeley, Lloyd L., to The Coleman Co., Inc. Centrifugal blower wheel and method of forming. 2,925,953, 2-23-60, Cl. 230—134.
- Keeling, Wilmer B. Riding toy. 2,920,889, 1-12-60, Cl. 272—33.
- Keely, Donald O. Apparatus for fish culture. 2,944,513, 7-12-60, Cl. 119—3.
- Keeman, Willem: *See*—  
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- Keen, Albert J., to International Computers and Tabulators Ltd. Data checking apparatus. 2,965,296, 12-20-60, Cl. 235—153.
- Keen, Harry J., R. J. Papaieck, and A. J. Gilbert, Jr., to Lavoie Laboratories, Inc. Constant temperature chamber, in particular a crystal oven. 2,920,175, 1-5-60, Cl. 219—19.
- Keen Mfg. Co., Inc.: *See*—  
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- Keen, Yeoman. Electrical fixture support for electrical outlet boxes. 2,921,114, 1-12-60, Cl. 174—61.
- Keenan, Charles E., to American Machine and Metals, Inc. Indicator servosystem. 2,939,061, 5-31-60, Cl. 318—30.
- Keenan, James J.: *See*—  
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- Keenan, Julian J.: *See*—  
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- Keene, Carl E. Hand engraver. 2,958,131, 11-1-60, Cl. 33—23.
- Keeney, Douglas: *See*—  
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- Keeping, William O., to The British Oxygen Co. Ltd. Gas/liquid contact devices. 2,921,776, 1-19-60, Cl. 261—94.
- Keeping, William O., to The British Oxygen Co. Ltd. Storage vessels for liquefied gases. 2,940,631, 6-14-60, Cl. 220—14.
- Keeping, William O., to The British Oxygen Co. Ltd. Production of inert atmospheres in storage vessels, fuel tanks and the like. 2,964,916, 12-20-60, Cl. 62—48.
- Keeran, Royal V. Semi-automatic signal amplitude recorder. 2,921,304, 1-12-60, Cl. 343—17.7.
- Keeran, Royal V., to Brubaker Electronics, Inc. Subminiature relay. 2,923,794, 2-2-60, Cl. 200—104.
- Keeran, Royal V. Code sorter tube. 2,925,507, 2-16-60, Cl. 313—73.
- Keesaer, William C., to General Motors Corp. Spectrometer specimen holder. 2,939,007, 5-31-60, Cl. 250—52.
- Keese, Alfred E. Drawbar. 2,959,427, 11-8-60, Cl. 280—405.
- Keesling, C. H.: *See*—  
Keesling, Thomas B. 2,932,205.
- Keesling, Thomas B., ½ to C. H. Keesling. Power operated tool attachment for electric drills and the like. 2,932,205, 4-12-60, Cl. 74—44.
- Keesling, Thomas B., to Canning Equipment Co. Fruit pitting machine. 2,962,068, 11-29-60, Cl. 146—28.
- Kefes, Donn E.: *See*—  
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- Kegelman, Matthew R., to E. I. du Pont de Nemours and Co. Motor fuels. 2,933,380, 4-19-60, Cl. 44—69.
- Kegerise, Wesley R., and G. B. Heydt, to The Carpenter Steel Co. High temperature alloy steel with improved room temperature properties. 2,932,568, 4-12-60, Cl. 75—125.
- Kegg, Robert R., and A. D. Pinotti, to Kimble Glass Co. Support means for mounting color-control element in glass portion of cathode-ray tube envelope. 2,951,167, 8-30-60, Cl. 313—85.



- Kehl, Lawrence J.: *See*—  
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- Kehn, Ralph F. Self-bailing boat. 2,949,879, 8-23-60, Cl. 114-185.
- Kehr, Clifton L., to E. I. du Pont de Nemours and Co. Improved process for sulfur curing polyurethane elastomers. 2,921,926, 1-19-60, Cl. 260-77.5.
- Kehrer, Fritz: *See*—  
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Forster, Willy, and Kehrer. 2,941,858.
- Keicher, Georg: *See*—  
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- Keidel, Frederick A., to E. I. du Pont de Nemours and Co. Electrolytic drying apparatus. 2,944,957, 7-12-60, Cl. 204-275.
- Keiding, Povl, and K. J. Sylvest, to F. L. Smidth & Co. Method and apparatus for modulization of pulverulent materials. 2,924,847, 2-16-60, Cl. 18-1.
- Keight, Albert W.: *See*—  
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- Keightley, William E., to Wood Newspaper Machinery Corp. Press arrangement for color printing. 2,920,887, 1-12-60, Cl. 270-5.
- Keil, David G.: *See*—  
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- Keil, Harvard L., R. F. Hagen, and R. W. Flaws, to Armour and Co. Coating composition, method of applying same to a food, and coated food product. 2,953,462, 9-20-60, Cl. 99-169.
- Keil, Harvard L., E. F. Cavanaugh, and J. B. Himes, to Armour and Co. Treatment of blood to yield amino acids. 2,958,630, 11-1-60, Cl. 195-29.
- Keil, Henry P., to Fixture Hardware Corp. Copy sheet receiving tray for duplicating machines. 2,937,021, 5-17-60, Cl. 271-86.
- Keil, Leonard W.: *See*—  
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- Kellman, James J., to L. J. R. Corp. Flashlight construction. 2,938,111, 5-24-60, Cl. 240-10.61.
- Keim, Gerald I., to Hercules Powder Co. Wet-strength paper and method of making same. 2,926,116, 2-30-60, Cl. 162-164.
- Keim, Gerald I., to Hercules Powder Co. Cationic thermosetting polyamide-epichlorohydrin resins and process of making same. 2,926,154, 2-23-60, Cl. 260-29.2.
- Keim, Carl H.: *See*—  
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- Keim, Laurence A., to Pittsburgh Plate Glass Co. Method for pressing laminated glass. 2,948,645, 8-9-60, Cl. 154-27.
- Keinath, Richard L., to General Motors Corp. Combined splash guard and oil separator. 2,925,071, 2-16-60, Cl. 123-41.86.
- Keiper, Francis P., Jr., to Philco Corp. Photo-index cathode ray device. 2,959,682, 11-8-60, Cl. 250-217.
- Keirnan, Charles G., to Patterson Foundry & Machine Co. Lump breaker for vacuum dryer. 2,946,624, 7-26-60, Cl. 241-98.
- Keiser, David H., Jr. Lawn edge trimming shears and the like. 2,931,158, 4-5-60, Cl. 56-241.
- Keiser, Morris, to United States of America, War. Acoustic position finder. 2,932,002, 4-5-60, Cl. 340-16.
- Keiser, Russell W.: *See*—  
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- Keister, James E.: *See*—  
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- Keitel, Gerald A., to The Mansfield Sanitary Pottery Co. Manufacture of ceramic articles. 2,941,897, 6-21-60, Cl. 117-17.
- Keith, Arthur C.: *See*—  
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- Keith, Carl D.: *See*—  
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Thomas, Owen H., and Keith. 2,964,462.  
Van Nordstrand, Robert A., Teter, Keith, and Haul. 2,938,211.
- Keith, Carl D., H. Erickson, E. H. McGrew, and D. G. Braithwaite, said McGrew and said Braithwaite assors. to Nalco Chemical Co., and said Keith and said Erickson assors. to Sinclair Refining Co. Catalyst manufacture. 2,938,002, 5-24-60, Cl. 252-464.
- Keith, Clyde R.: *See*—  
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- Keith, Donald G. Method and apparatus for the production of hollow articles from sheet synthetic resinous materials. 2,937,403, 5-24-60, Cl. 18-19.
- Keith, George H.: *See*—  
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- Keith-Hitchens, John G.: *See*—  
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- Keith, John V., to Leesona Corp. Twister spindle. 2,932,150, 4-12-60, Cl. 57-58.86.
- Keith, John V., to Leesona Corp. Winding machine. 2,950,067, 8-23-60, Cl. 242-18.
- Keith, Percival C.: *See*—  
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- Keith, Wayland D.: *See*—  
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- Keith, Wayland D. Safety cars for amusement rides. 2,949,299, 8-16-60, Cl. 272-49.
- Keith, Weldon W., to Raytheon Co. Sonic delay lines. 2,920,294, 1-5-60, Cl. 333-30.
- Keizer, Eugene O., to Radio Corp. of America. Color television receivers with color balance control. 2,955,152, 10-4-60, Cl. 178-5.4.
- Keizer, Eugene O., to Radio Corp. of America. Dynamic bistable, or control, circuit. 2,964,637, 12-13-60, Cl. 250-211.
- Keizer, Eugene O., and R. F. Sanford, to Radio Corp. of America. Frequency divider. 2,944,205, 7-5-60, Cl. 321-69.
- Kek Seat Corp.: *See*—  
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- Kelchner, Harley E.: *See*—  
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- Kelco Co.: *See*—  
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- Kelday, Roy M., and F. L. Hayden, to The Steel Co. of Canada, Ltd. Wire-drawing die. 2,928,528, 3-15-60, Cl. 205-29.
- Kelek Co.: *See*—  
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- Kelemen, Alexander J.: *See*—  
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- Kelemen, Frank K., L. P. English, and O. H. Darlington, Jr., to KSM Products, Inc. Stud welding apparatus. 2,938,105, 5-24-60, Cl. 219-98.
- Kelemen, Frank K., and R. K. Ritter, to KSM Products, Inc. Stud welding apparatus. 2,945,118, 7-12-60, Cl. 219-98.
- Kelgard, Erik, and T. B. McMeekin, to Nordberg Mfg. Co. Moisture control for engines. 2,935,978, 5-10-60, Cl. 123-119.
- Kelite Corp.: *See*—  
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- Kelkar, Govind R., and S. C. Bhattacharyya, to Council of Scientific and Industrial Research. Preparation of costus root oil and the products thereof. 2,946,783, 7-26-60, Cl. 260-236.6.
- Kelker, David R., to Air Reduction Co., Inc. Steel welding. 2,943,180, 6-28-60, Cl. 219-74.
- Kelleher, Kenneth S.: *See*—  
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- Kelleher, Kenneth S., and C. W. Morrow, to Melpar, Inc. Air navigation antenna device. 2,935,745, 5-3-60, Cl. 343-754.
- Kelleher, Kenneth S., and C. F. Parker, Jr., to Melpar, Inc. Constant beamwidth horn antenna. 2,946,999, 7-26-60, Cl. 343-786.
- Kelleigh, Waldo J., to Electrical Apparatus Co., Inc. Cam device. 2,922,318, 1-26-60, Cl. 74-568.
- Keller, Arthur C.: *See*—  
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- Keller, August: *See*—  
Ford, Walter B., II, and Keller. 2,957,725.
- Keller, Carl, to Bosch & Speidel. Apparatus for measuring the arterial blood pressure. 2,960,086, 11-15-60, Cl. 128-2.05.
- Keller, Curt, and W. Winkler, to Escher Wyss Aktiengesellschaft. Sealing device. 2,965,398, 12-20-60, Cl. 286-1.
- Keller, Edwin H.: *See*—  
Burk, Robert E., Keller, and O'Flynn. 2,920,947.
- Keller, Ernest A., to Information Systems, Inc. Low level scanner and analog to digital converter. 2,956,271, 10-11-60, Cl. 340-347.
- Keller, Gregory H.,  $\frac{1}{2}$  to R. E. McCormack. Candy cane forming machine. 2,956,520, 10-18-60, Cl. 107-8.
- Keller, Gunther: *See*—  
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- Keller, Harold W.: *See*—  
Reents, August C., and Keller. 2,937,959.
- Keller, Harry. Plastic brush construction. 2,920,334, 1-12-60, Cl. 15-187.
- Keller, Helmuth: *See*—  
Huber, Hans, Keller, Rohlf, and Dewald. 2,924,509.
- Keller, Herman J. Dyeing solution for coloring citrus fruits and method of dyeing citrus fruits. 2,943,943, 7-5-60, Cl. 99-148.
- Keller, Howard F., Jr., to Union Oil Co. of California. Oil-external emulsion drilling fluids. 2,946,746, 7-26-60, Cl. 252-8.5.
- Keller, John D. Recuperators. 2,947,522, 8-2-60, Cl. 257-309.
- Keller, John N.: *See*—  
Olson, Albert W., and Keller. 2,922,391.
- Keller, John W., Jr.: *See*—  
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- Keller Mfg. Co., Inc.: *See*—  
Decker, Edward W., Keller, Killaren, and Mueller. 2,921,694.  
Keller, William J., and N. G. 2,953,388.
- Keller, Max: *See*—  
Kuhn, Jacques R. 2,948,431.
- Keller, Nellie G.: *See*—  
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- Keller, Paul, to Jesse J. Shelley. Means for discharging ice chips. 2,962,878, 12-6-60, Cl. 62-320.
- Keller, Robert, to Ancienne Manufacture d'Horlogerie, Patek, Philippe & Co. S.A. Driving device for clockwork. 2,934,887, 5-3-60, Cl. 58-28.
- Keller, Robert B.: *See*—  
Doherty, Thomas E., and Keller. 2,928,475.
- Keller, Robert C., to Sandoz Ltd. Retarding and levelling agents. 2,963,339, 12-6-60, Cl. 8-37.
- Keller, Robert J. Deer pull and pulley. 2,931,629, 4-5-60, Cl. 254-195.
- Keller, Robert R. Light-diffusing structural panels. 2,931,468, 4-5-60, Cl. 189-34.
- Keller, Robert R. Panel joints and panel joining devices. 2,933,167, 4-19-60, Cl. 189-36.
- Keller, Roger J. Safety pins. 2,941,269, 6-21-60, Cl. 24-161.
- Keller, Siegfried, W. Müller, and F. Seger, to Machine Tool Works Oerlikon, Administration Co. Brake system charging means. 2,957,730, 10-25-60, Cl. 303-59.
- Keller, Stefan. Method of manufacturing open-web metal joists. 2,939,206, 6-7-60, Cl. 29-155.
- Keller, Walter G., to Clark Equipment Co. Apparatus and method for handling passengers. 2,931,681, 4-5-60, Cl. 296-28.
- Keller, Wayne H., and J. P. Martin, to National Research Corp. Separation of tantalum. 2,927,855, 3-8-60, Cl. 75-121.
- Keller, William J.: *See*—  
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- Keller, William J., and N. G., to Keller Mfg. Co., Inc. Display stand. 2,953,888, 9-20-60, Cl. 280-47,24.
- Kellerman, David, to JFD Electronics Corp. Coaxial trimmer capacitors. 2,922,093, 1-19-60, Cl. 317-249.
- Kellerman, William, to Kling "100" Corp. Fluid pressure operated timing and control devices. 2,966,050, 12-27-60, Cl. 68-12.
- Kellermann, Arnold L.: *See*—  
Shaw, Bernard S., and Kellermann. 2,921,415.
- Kellett, Eric: *See*—  
Judson, Charles A., and Kellett. 2,938,659.
- Kellett, Harry, to The American Laundry Machinery Co. Pivoted blade laundry folding machine. 2,954,974, 10-4-60, Cl. 270-80.
- Kellett, Roderick G., to Smith, Kline & French Laboratories. Pipette. 2,930,238, 3-29-60, Cl. 73-425,4.
- Kellett, William B. Ornamental awning. 2,949,650, 8-23-60, Cl. 20-57,5.
- Kelley, Addison W., and H. A. Reehling, to Armstrong Cork Co. Method of bleaching linoleum using hydrogen peroxide bleach. 2,960,382, 11-15-60, Cl. 8-111.
- Kelley, Arnold E., and R. F. Deering, to Union Oil Co. of California. Mixed-phase hydrofining of hydrocarbon oils. 2,952,625, 9-13-60, Cl. 208-210.
- Kelley, Arnold E., and R. F. Deering, to Union Oil Co. of California. Mixed-phase hydrofining of hydrocarbon oils. 2,952,626, 9-13-60, Cl. 208-210.
- Kelley, Forrest H. Precision pipe advancement mechanism for bending machine. 2,961,090, 11-22-60, Cl. 203-170.
- Kelley, Fred W., Jr., to General Electric Co. Multiple-feedback-path regulating systems for generators. 2,966,625, 12-27-60, Cl. 322-24.
- Kelley, Gaynor N., to The Perkin-Elmer Corp. Preparative column for gas chromatography. 2,960,183, 11-15-60, Cl. 183-2.
- Kelley, Gilbert A., to Midland-Ross Corp. Low temperature air conditioning. 2,935,154, 5-3-60, Cl. 183-2.
- Kelley, Howard W., and S. B. Marting, Sr., to Webber C. French, Mfr. Animal feeder. 2,966,135, 12-27-60, Cl. 119-53,5.
- Kelley & Hueber, Inc.: *See*—  
Hueber, Joseph A., and E. K. 2,942,724.
- Kelley, John E. Liquid dumper. 2,939,593, 6-7-60, Cl. 214-314.
- Kelley, John R., to Bell & Howell Co. Direct writing recorder. 2,950,162, 8-23-60, Cl. 346-74.
- Kelley, Joseph A., and J. L. Ridgeway, to Zonolite Co. Method for handling liquid materials and for granulating and conditioning solids. 2,931,716, 4-5-60, Cl. 71-1.
- Kelley, Lionel G. Toy block set. 2,940,211, 6-14-60, Cl. 46-17.
- Kelley, Oliver K., to General Motors Corp. Brake cooling system. 2,924,308, 2-9-60, Cl. 188-264.
- Kelley, Oliver K., to General Motors Corp. Liquid cooled disc brake. 2,955,683, 10-11-60, Cl. 188-72.
- Kelley, Oliver K., to General Motors Corp. Multiple disc wheel brake and hydraulic actuating system. 2,956,649, 10-18-60, Cl. 188-264.
- Kelley, Oliver K., to General Motors Corp. Transmission. 2,964,976, 12-20-60, Cl. 74-677.
- Kelley, Oliver K., G. K. Hause, and B. Heck, to General Motors Corp. Liquid cooled friction brake. 2,934,177, 4-26-60, Cl. 188-264.
- Kelley, Oliver K., G. K. Hause, and B. Heck, to General Motors Corp. Liquid cooled friction brake. 2,955,682, 10-11-60, Cl. 188-72.
- Kelley, Oliver K., and G. K. Hause, to General Motors Corp. Multi-phase torque converter. 2,957,370, 10-25-60, Cl. 74-677.
- Kelley, Oliver K., and S. L. Buckay, to General Motors Corp. Accessory drive. 2,963,923, 12-13-60, Cl. 74-752.
- Kelley, Ralph R. Material handling device. 2,925,300, 2-16-60, Cl. 294-103.
- Kelley, Roland T., to Esso Research and Engineering Co. Dispersing polymers into converging streams of steam. 2,959,561, 11-8-60, Cl. 260-29,6.
- Kelley, Roland T., and W. R. Lewis, to Esso Research and Engineering Co. Method of processing hydrocarbon polymers to prevent agglomeration thereof. 2,958,684, 11-1-60, Cl. 260-85,3.
- Kelliher, Maurice G. Microwave linear accelerator circuit. 2,925,522, 2-16-60, Cl. 315-54,2.
- Kelling, Leroy U. C., to General Electric Co. Intermittent feed cut-off register control. 2,945,957, 7-19-60, Cl. 250-219.
- Kelm, Otto E., to Advance Products Corp. Die sinking table. 2,957,362, 10-25-60, Cl. 74-405.
- Kellma A.B.: *See*—  
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- Kellner, Ferdinand, to Novoflex Fotogerätebau Karl Müller. Focusing device for photographic lenses. 2,920,545, 1-12-60, Cl. 95-45.
- Kellner, Ferdinand, to Novoflex Fotogerätebau Karl Müller. Focusing device for photographic lenses. 2,938,444, 5-31-60, Cl. 95-45.
- Kellner, Jackson M.: *See*—  
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- Kellogg, Bruce H.: *See*—  
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Hait, James M., and Kellogg. 2,933,174.
- Kellogg, Edward N. Fish lure. 2,963,812, 12-13-60, Cl. 43-42,22.
- Kellogg, Harry L., to General Electric Co. Static magnetic frequency multiplier. 2,953,736, 9-20-60, Cl. 321-7.
- Kellogg, Harry L., to General Electric Co. Self-saturating magnetic amplifier. 2,960,647, 11-15-60, Cl. 323-89.
- Kellogg, Helen J.: *See*—  
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- Kellogg, M. W. Co., The: *See*—  
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- Kershaw, Harold, Dowling, and Miller. 2,933,829.
- Kershaw, Harold, Dowling, and Miller. 2,958,142.
- Mader, Charles K. 2,943,062.
- Mantell, Russell M., and Plescia. 2,925,709.
- Mirabile, Frank A. 2,944,965.
- Nathan, Marvin F. 2,933,822.
- Palazzo, Dominic F., and Schreiner. 2,940,270.
- Palazzo, Dominic F., and Schreiner. 2,956,410.
- Plescia, Otto J., and Mantell. 2,926,144.
- Plescia, Otto J., Mantell, and Martin. 2,930,184.
- Rosshiem, David B. 2,962,182.
- Smith, Martin R. 2,929,774.
- Smith, Martin R., and Bednars. 2,929,773.
- Stiles, Samuel R. 2,920,125.
- Stiles, Samuel R. 2,954,341.
- Stiles, Samuel R., Warburton, and Black. 2,920,124.
- Stiles, Samuel R., Warburton, and Black. 2,927,009.
- Virgil, Theodore C., and Nathan. 2,941,938.
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- Kellums, Wayne W.: *See*—  
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- Kelly, Clyde W., to Fenestra Inc. Storm window. 2,921,350, 1-19-60, Cl. 20-55.
- Kelly, Clyde W., D. J. McKinnon, J. F. Heintzel, and A. C. Harper, Jr., to Fenestra, Inc. Metal door structure. 2,948,366, 8-9-60, Cl. 189-46.
- Kelly, Daniel R., to Wyandotte Chemicals Corp. Aluminum brightener compositions. 2,942,956, 6-28-60, Cl. 41-42.
- Kelly, Donald H., to Technicolor Corp. Optical beam linking systems. 2,945,413, 7-19-60, Cl. 88-1.
- Kelly, Donald H., to Technicolor Corp. Optical projection of beam controlled object fields. 2,958,258, 11-1-60, Cl. 88-24.
- Kelly, Donald R., to Bokelco Mfg. Co. Pipe hanger. 2,931,605, 4-5-60, Cl. 248-59.
- Kelly, Earle G. Fountain-type brush. 2,922,178, 1-26-60, Cl. 15-135.
- Kelly, George C.: *See*—  
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- Kelly, George M., to Kingston Products Corp. Suction tool for vacuum cleaners. 2,946,079, 7-26-60, Cl. 15-371.
- Kelly, Gerald E. Portable film-type braille reader. 2,924,896, 2-16-60, Cl. 35-35.
- Kelly, Gordon E.: *See*—  
Iannuzzi, William P., and Kelly. 2,951,115.
- Kelly, Gordon E., to Radio Corp. of America. Burst separating apparatus. 2,953,636, 9-20-60, Cl. 178-5,4.
- Kelly, Harold C., and J. R. Wirt, to The Dow Chemical Co. Composition and process for coating foodstuffs and articles thereby obtained. 2,951,763, 9-6-60, Cl. 99-169.
- Kelly, Howard A., Sr.: *See*—  
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- Kelly, James J.: *See*—  
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- Kelly, Joe T., and H. M. Knight, to The American Oil Co. Ferric pyrophosphate hydrate-BF<sub>3</sub>-Mo Cls catalyst and alkylation process. 2,923,750, 2-2-60, Cl. 260—683.44.
- Kelly, Joe T., and H. M. Knight, to The American Oil Co. Polymerization process using metal pyrophosphate hydrate-BF<sub>3</sub> catalyst. 2,924,595, 2-9-60, Cl. 260—94.9.
- Kelly, John C., to Kelsey-Hayes Co. Locating fixture and method. 2,932,015, 4-5-60, Cl. 340—282.
- Kelly, John C. R., Jr., to United States of America, Navy. Method of preparing powdered refractory metals for mechanical working. 2,932,882, 4-19-60, Cl. 29—420.
- Kelly, Joseph L., to Speedac, Inc. Throttle control mechanism. 2,936,866, 5-17-60, Cl. 192—3.
- Kelly, Kenneth C., to Hughes Aircraft Co. Pencil beam slot antenna. 2,929,064, 3-15-60, Cl. 343—771.
- Kelly, Kenneth L., and D. E. Hoffman, to Fedders Corp. Mounting platform for air conditioning units. 2,943,834, 7-5-60, Cl. 248—208.
- Kelly, Leonard : See—  
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- Kelly, Lewis B. Rodent control feeding stations. 2,944,364, 7-12-60, Cl. 43—131.
- Kelly, Martin J. : See—  
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- Kelly, Robert J. : See—  
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- Kelly, Robert P. : See—  
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- Kelly, Robert W., to ACF Industries, Inc. Tube cutter. 2,937,440, 5-24-60, Cl. 30—95.
- Kelly, Thomas E. : See—  
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- Kelly, Thomas J., and R. M. Kennedy, to Sun Oil Co. Shock cooling crystalline polypropylene to lower the brittle point. 2,962,486, 11-29-60, Cl. 260—93.7.
- Kelly, Thomas M. : See—  
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- Kelly, William A. : See—  
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- Kelly, William A., to Lever Bros. Co. Fluidization process. 2,962,447, 11-29-60, Cl. 252—117.
- Kelly, William D., to Ferro Corp. Circuitous resistance plate type electric heater. 2,955,190, 10-4-60, Cl. 219—43.
- Kelly, William D., to Ferro Corp. Enclosed resistance electric heater and method of making such heater. 2,953,670, 9-20-60, Cl. 219—19.
- Kelly, William E., ½ to Salvatore Compagnone. Ladle sculling machine. 2,931,060, 4-5-60, Cl. 15—104.1.
- Kelly, William T., and R. J. Clements, to Texaco Inc. Geophysical exploration. 2,922,484, 1-26-60, Cl. 181—5.
- Kelly, Winton J., to Miniature Precision Bearings, Inc. Bearings. 2,936,199, 5-10-60, Cl. 308—196.
- Kelly, Winton J., to Miniature Precision Bearings, Inc. Thrust bearings. 2,936,200, 5-10-60, Cl. 308—196.
- Kelner, Robert C. : See—  
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- Kelner, Robert C., and H. Rubinstein, to Laboratory For Electronics, Inc. Magnetic amplifiers. 2,933,719, 4-19-60, Cl. 340—174.
- Kelner, Robert C., H. W. Fuller, H. Rubinstein, and H. E. Lerner, to Laboratory for Electronics, Inc. Data synchronizer. 2,958,076, 10-25-60, Cl. 340—174.
- Kelnhofer, Sylvester A., to General Dynamics Corp. Control system for parallel-coupled communication stations. 2,928,905, 3-15-60, Cl. 179—33.
- Kelsall, Richard H. : See—  
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- Kelseaux, Raymond M., and J. A. Lupfer. Prime mover and a fuel-power function of operation thereof. 2,937,634, 5-24-60, Cl. 123—119.
- Kelsen, Arent P., to Midland-Ross Corp. Oven door construction. 2,953,108, 9-20-60, Cl. 110—173.
- Kelsey, Ernest S., to Northern Electric Co., Ltd. Wire transposing means. 2,957,039, 10-18-60, Cl. 174—33.
- Kelsey-Hayes Co. : See—  
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- Kelsey-Hayes Co. : See—Continued  
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- Kelso, Robert L. : See—  
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- Kelso, Robert L., to Rohr Aircraft Corp. Machine table load equalizer. 2,939,369, 6-7-60, Cl. 90—58.
- Kelso, Robert L., and C. H. Easley, to Rohr Aircraft Corp. Metal forming machine with traveling carriage support for workpiece tensioning means. 2,963,067, 12-6-60, Cl. 153—40.
- Kelter, Joseph J. : See—  
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- Kelton, Harold V. : See—  
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- Kelton, Harold V., to L. A. M. Phelan. Pressure cooker with vertically shiftable cover and exhaust therefor. 2,942,753, 6-28-60, Cl. 220—33.
- Kelton, Harold V., to L. A. M. Phelan. Pressure cooker vessel and cover support therefor. 2,964,215, 12-13-60, Cl. 220—57.
- Keltz, Laurence, to I-T-E Circuit Breaker Co. Sensing device for diode rectifiers. 2,935,676, 5-3-60, Cl. 321—11.
- Kelvin & Hughes Ltd. : See—  
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- Kelvington, William D. Fixture for curtain and drapery rods. 2,937,838, 5-24-60, Cl. 248—265.
- Kem Button Corp. : See—  
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- Kember, Norman F., to United Kingdom Atomic Energy Authority. Recovery of metal values including thorium, hafnium, zirconium, uranium and molybdenum from aqueous solution. 2,966,393, 12-27-60, Cl. 23—14.5.
- Kemelhor, Robert E. : See—  
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- Kemelhor, Robert E. Fluid magnetic spring, damper and lockout device. 2,940,749, 6-14-60, Cl. 267—1.
- Kemeny, Julius, to General Electric Co. Tuning mechanism. 2,962,903, 12-6-60, Cl. 74—10.27.
- Kemnitz, George E., to Noble Drilling Corp. Guide assembly for washover pipe. 2,957,525, 10-25-60, Cl. 166—221.
- Kemnitz, Warren N., to General Electric Co. Combination vacuum cleaner tool. 2,960,716, 11-22-60, Cl. 15—417.
- Kemp Equipment Co. : See—  
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- Kemp, Cyril F. Apparatus for making a joint between a metal tube and an object engageable therein. 2,948,170, 8-9-60, Cl. 81—15.
- Kemp, Lebbeus C., Jr. : See—  
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- Kempen, Raymond J., and W. L. Newell, to Alton Box Board Co. Manufacture of box blanks from box board. 2,949,827, 8-23-60, Cl. 93—58.
- Kemper, David A. Continuously indicating torque and horsepower device. 2,946,219, 7-26-60, Cl. 73—136.
- Kemper, James M., to The Garrett Corp. Underwater breathing apparatus. 2,929,376, 3-22-60, Cl. 128—142.
- Kemper, John A., to The Scott & Fetzer Co. Vacuum cleaner nozzle with adjustable brush. 2,932,055, 4-12-60, Cl. 15—371.
- Kemper Ltd. : See—  
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- Kemper, Maxwell F. Vehicle for transporting concrete. 2,920,582, 1-12-60, Cl. 105-247.
- Kemper, Ralph D.: *See*—  
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- Kempf, Clayton A.: *See*—  
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- Kempf, Walter R., to Hamilton Watch Co. Primary dry cell. 2,937,222, 5-17-60, Cl. 136-175.
- Kempf, Walter R., and J. W. Rhyne, Jr., to Hamilton Watch Co. Battery case construction. 2,951,891, 9-6-60, Cl. 136-169.
- Kempkes, Rolf: *See*—  
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- Ken Standard Corp.: *See*—  
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- Kenaga, Eugene E., to The Dow Chemical Co. Methods and composition for control of parasites. 2,954,317, 9-27-60, Cl. 167-22.
- Kenann, John G., to Marotta Valve Corp. Reenforced valve seat. 2,934,315, 4-26-60, Cl. 251-362.
- Kenann, John G., and J. Detaranto, Jr., to Marotta Valve Corp. Three-way magnetic valve. 2,934,090, 4-26-60, Cl. 137-625.5.
- Kenco Products Corp.: *See*—  
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- Kenco Pump Division of The American Crucible Products Co.: *See*—  
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- Lloyd, John K. 2,959,280.
- Samour, Carlos M. 2,935,522.
- Samour, Carlos M. 2,956,071.
- Tritsch, Ludwig. 2,956,723.
- Kendall, Edgar H. Rolling mill for rings and discs. 2,930,266, 3-29-60, Cl. 80-16.
- Kendall, Edward R., and G. W. Meister, to Simoniz Co. Pressurized polishing composition. 2,949,373, 8-16-60, Cl. 106-10.
- Kendall, Edward R., to Simoniz Co. Polishing composition. 2,949,374, 8-16-60, Cl. 106-10.
- Kendall, Hugh C., and W. K. Maenpaa, to General Railway Signal Co. Cab signaling system for railroads. 2,959,670, 11-8-60, Cl. 246-63.
- Kendall, Jackson W., Jr.: *See*—  
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- Kendall, James M.: *See*—  
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- Kendall, James M., to United States of America, Navy. Precision micromanometer. 2,948,186, 8-9-60, Cl. 88-24.
- Kendall, James M., and G. A. Henderson. Torpedo exploder mechanism. 2,954,734, 10-4-60, Cl. 102-70.2.
- Kendall, James M. Fluid pressure differential switch. 2,961,506, 11-22-60, Cl. 200-81.5.
- Kendall, James M., and C. F. Holdrege. Torpedo exploder mechanism. 2,961,961, 11-29-60, Cl. 102-17.
- Kendall, James W., and C. R. Tottle, to United Kingdom Atomic Energy Authority. Fuel elements for nuclear reactor. 2,956,000, 10-11-60, Cl. 204-193.2.
- Kendall, John D.: *See*—  
Duffin, George F., and Kendall. 2,954,292.
- Duffin, George F., and Kendall. 2,965,485.
- Kendall, Julius: *See*—  
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- Kendall, Larrabee T.: *See*—  
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- Kendall, Perry E.: *See*—  
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- Gates, Robert F., and Kendall. 2,927,272.
- Hoey, Raymond M. 2,924,331.
- Samour, Carlos M. 2,920,089.
- Williams, Walter J., and Kendall. 2,952,762.
- Kendall Refining Co.: *See*—  
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- Kendig, Robert M., to Westinghouse Air Brake Co. Hydraulic power brake apparatus. 2,932,947, 4-19-60, Cl. 60-52.
- Kendon Electronics, Inc.: *See*—  
Oestreicher, Warren J. 2,922,073.
- Oestreicher, Warren J. 2,938,142.
- Kenfield Corp.: *See*—  
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- Kenig, Cazzaniga y Cia. Sociedad de Responsabilidad Limitada: *See*—  
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- Kenkel, Howard H.: *See*—  
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- Kenlock, Albert A. H., and J. H. Alden, to General Motors Corp. Truck cabs. 2,959,239, 11-8-60, Cl. 180-89.
- Kenmar Mfg. Co., The: *See*—  
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- Kenmore Research Co.: *See*—  
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- Allen, Lloyd R., and Woodard. 2,944,880.
- Kenamer, Ulos D., Jr. Pen and pencil holder for drawing boards. 2,957,270, 10-25-60, Cl. 45-131.
- Kennametal, Inc.: *See*—  
McKenna, Philip M. 2,955,847.
- Kennard, George J. and I., to V. A. and M. H. Puff. Automatically operated body exercising table. 2,949,911, 8-23-60, Cl. 128-25.
- Kennard, Irene: *See*—  
Kennard, George J. and I. 2,949,911.
- Kennard, Kenneth C., and D. M. Burness, to Eastman Kodak Co. Photographic emulsions sensitized with quaternary dithiocarbamates. 2,937,090, 5-17-60, Cl. 96-107.
- Kennard, Robert J., 1/4 each to R. E. Kennard, and A. T. and M. C. Johnston. Automobile tire chain apparatus. 2,925,113, 2-16-60, Cl. 152-233.
- Kennard, Ruth E.: *See*—  
Kennard, Robert J. 2,925,113.
- Kennaway, Alexander, R. A. Lolley, and O. R. Pigott, to Imperial Chemical Industries Ltd. Pulse generator weigher. 2,925,983, 2-23-60, Cl. 249-2.
- Kennaway, Alexander, and O. R. Pigott, to Imperial Chemical Industries Ltd. Automatic weigher. 2,926,010, 2-23-60, Cl. 265-27.
- Kennebago Lake Camps: *See*—  
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- Kennecott Copper Corp.: *See*—  
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- Jaffee, Robert I. 2,938,789.
- Jaffee, Robert I., Schwartzberg, and Williams. 2,940,845.
- Last, Arthur W., and Marquardson. 2,953,569.
- Pick, Hans H., Brandt, and Franz. 2,925,940.
- Zimmerley, Stuart R., and Malouf. 2,965,447.
- Zimmerley, Stuart R., and Prater. 2,945,743.
- Kennedy, John W.: *See*—  
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- Tausch, Gilbert H., and Kennedy. 2,938,584.
- Kennedy, John W., to Jersey Production Research Co. Well tool placement apparatus. 2,927,640, 3-8-60, Cl. 166-51.
- Kennedy, Anthony, Jr., L. J. Adams, H. L. Kirby, and G. J. Steinbronn, to John B. Stetson Co. Hat sizing machine. 2,936,507, 5-17-60, Cl. 28-8.
- Kennedy, Charles J.: *See*—  
Stavakis, Alexander V., and Kennedy. 2,928,620.
- Kennedy, Charles J., to F. L. Moseley Co. Electrical signal generators. 2,922,994, 1-26-60, Cl. 340-332.
- Kennedy, Charles J., to F. L. Moseley Co. Graphical recorder chart motor drive system. 2,945,997, 7-19-60, Cl. 318-341.
- Kennedy, David P., to Raytheon Mfg. Co. Semiconductor noise generators. 2,952,817, 9-13-60, Cl. 331-68.
- Kennedy, Delvin P. Attachment for shirt finishing unit. 2,946,492, 7-26-60, Cl. 223-68.
- Kennedy, Frank J., to National Electric Products Corp. Flying saw with stationary motor base. 2,930,269, 3-29-60, Cl. 83-311.
- Kennedy, George W. Angularly adjustable toilet seat. 2,928,104, 3-15-60, Cl. 4-237.
- Kennedy, Harry E., to Union Carbide Corp. Magnetic powder dispenser. 2,922,677, 1-26-60, Cl. 302-51.
- Kennedy, Harry E., to Union Carbide Corp. Powder entrained gas shielded metal arc welding. 2,929,910, 3-22-60, Cl. 219-74.
- Kennedy, Harry E., and G. E. Clausen, to Union Carbide Corp. Welding composition. 2,951,000, 8-30-60, Cl. 148-26.
- Kennedy, Harvey T., and P. B. Crawford, to Great Lakes Carbon Corp. Viscometer. 2,957,338, 10-25-60, Cl. 73-54.
- Kennedy, Hoyt C. Yarn packaging means. 2,933,263, 4-19-60, Cl. 242-118.11.
- Kennedy, Hugh H., 30% to S. J. Pigasewski. Fish-line tying device. 2,934,369, 4-26-60, Cl. 289-17.
- Kennedy, Ira D., and J. L. Turner, to Boeing Airplane Co. Skin trimmer attachment for air drill motors. 2,933,021, 4-19-60, Cl. 90-12.
- Kennedy, Isaac F. Automatic starting device. 2,934,055, 4-26-60, Cl. 123-179.
- Kennedy, John G., and E. R. Spence, to American Home Products Corp. Easily reconstituted milk powder. 2,928,742, 3-15-60, Cl. 99-56.
- Kennedy, Joseph B., to Sperry Rand Corp. Travelling wave tube helix to coaxial line transition means. 2,922,068, 1-19-60, Cl. 315-3.6.
- Kennedy, Kenneth K., to Bell Telephone Laboratories, Inc. Electrical testing device. 2,921,191, 1-12-60, Cl. 250-27.
- Kennedy, Merritt T., Jr. Wiggler type fluid distributor. 2,930,531, 3-29-60, Cl. 239-229.
- Kennedy, Mildred S., and E. V. Loman, to Electronic Wave Products, Inc. Liquid-tight carton and liner. 2,926,830, 3-1-60, Cl. 229-14.
- Kennedy, Patrick B., and H. R. Smith, Jr., to United States of America, Atomic Energy Commission. Refrigeration system especially for very low temperature. 2,952,139, 9-13-60, Cl. 62-335.
- Kennedy, Raymond L.: *See*—  
Lindell, John F., and Kennedy. 2,944,353.
- Kennedy, Robert E. Joist spacer and support. 2,964,807, 12-20-60, Cl. 20-9.
- Kennedy, Robert M.: *See*—  
Donnell, Conrad K., Kennedy, and Schneider. 2,933,445.
- Kennedy, Robert M., to Sun Oil Co. Process for polymerizing olefins. 2,921,054, 1-12-60, Cl. 260-88.2.
- Kennedy, Robert M., to Sun Oil Co. Fuel compositions. 2,929,694, 3-22-60, Cl. 44-51.



- Kennedy, Robert M., to Sun Oil Co. Manufacture of polyolefins. 2,935,495, 5-3-60, Cl. 260-88.2.
- Kennedy, Robert M., to Sun Oil Co. Preparation of polyolefins. 2,948,711, 8-9-60, Cl. 260-88.2.
- Kennedy, Robert M., to Sun Oil Co. Process for stabilizing polypropylene. 2,957,849, 10-25-60, Cl. 260-45.95.
- Kennedy, Robert N.: *See—*  
Graham, Donald L., Kennedy, and Kropscott. 2,959,508.
- Kelly, Thomas J., and Kennedy. 2,962,486.
- Kennedy, Starrett C., and R. S. Sheldon, to Kahn and Co., Inc. Process and apparatus for dehydrating gas. 2,955,673, 10-11-60, Cl. 183-4.1.
- Kennedy, Stephen J., to United States of America, Army. Muff-convertible cuff. 2,928,101, 3-15-60, Cl. 2-270.
- Kennedy, Ted, to The Trenton Corp. Pipe covering. 2,937,665, 5-24-60, Cl. 138-64.
- Kennedy, Thomas E., to Tyler Refrigeration Corp. Refrigerated goods case. 2,961,845, 11-29-60, Cl. 62-256.
- Kennedy, Thomas W., to United States of America, Navy. Gas-liquid energy transmission. 2,928,345, 3-15-60, Cl. 102-16.
- Kennedy, Verne C., Jr., to Streeter-Amet Co. Weight and center of gravity computing apparatus. 2,932,188, 4-12-60, Cl. 73-65.
- Kennedy, Verne C., Jr., to Streeter-Amet Co. Potentiometer apparatus. 2,943,287, 6-28-60, Cl. 338-91.
- Kennedy, Verne C., Jr., to Streeter-Amet Co. Vehicle weighing system. 2,950,910, 8-30-60, Cl. 265-72.
- Kennedy, William J., to Bell Telephone Laboratories, Inc. Shield for coin gauge on coin collectors. 2,948,377, 8-9-60, Cl. 194-1.
- Kennedy, William J., and W. Pferd, to Bell Telephone Laboratories, Inc. Coin collectors. 2,922,571, 1-26-60, Cl. 232-57.5.
- Kennedy, William R. Electrical connector for printed circuits. 2,937,357, 5-17-60, Cl. 339-17.
- Kennell, Earle D.: *See—*  
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- Kennell, Earle D., to Ingersoll-Rand Co. Nail set. 2,931,041, 4-5-60, Cl. 1-49.9.
- Kennett, Ralph B., to Tung-Sol Electric Inc. Electric lamp unit. 2,957,158, 10-18-60, Cl. 339-128.
- Kenney, Charles J. Playpen. 2,958,084, 11-1-60, Cl. 5-99.
- Kenney, Clarence E., to Allis-Chalmers Mfg. Co. Hydraulic system for steam turbine. 2,949,122, 8-16-60, Cl. 137-17.
- Kenney, Clarence E., to Allis-Chalmers Mfg. Co. Hydraulic system for steam turbine. 2,963,032, 12-8-60, Cl. 137-17.
- Kenney, Clarence E., and R. C. Moore, to Allis-Chalmers Mfg. Co. Elastic fluid turbine two speed motor control system. 2,949,730, 8-23-60, Cl. 60-1.
- Kenney, Francis J. and J. F. Food warming attachment for electric toasters. 2,940,379, 6-14-60, Cl. 99-339.
- Kenney, Frank J.: *See—*  
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- Kenney, John F.: *See—*  
Kenney, Francis J. and J. F. 2,940,379.
- Kennedy, John T., and S. E. Gamarekian, to United States of America, Air Force. Combustion chamber. 2,925,715, 2-23-60, Cl. 60-39.65.
- Kenney, Mahlon W., to The Seeburg Corp. Turntable. 2,948,539, 8-9-60, Cl. 274-39.
- Kennon, Woodrow A. Pitching game target with indicator. 2,931,654, 4-5-60, Cl. 273-102.1.
- Keny, Charles R., to General Precision, Inc. Automatic control circuit. 2,940,010, 6-7-60, Cl. 315-107.
- Kenny, Charles R., to General Precision, Inc. Signal conversion system. 2,940,048, 6-7-60, Cl. 328-155.
- Kenshol, Kenneth W., to Metalizing Company of America Inc. Spray gun for fusible materials. 2,963,033, 12-6-60, Cl. 137-36.
- Kent, Allen H. Driving means. 2,963,598, 12-6-60, Cl. 310-50.
- Kent, Brian E.: *See—*  
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- Kent, Earle L.: *See—*  
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- Kent, Eric R., G. L. Payne, and J. J. Wise, to Socony Mobil Oil Co., Inc. Removal of granular solids from liquid-solids contacting systems. 2,925,382, 2-16-60, Cl. 208-304.
- Kent, Francis J., O. Hammon, and E. T. Vogel, to Baldwin-Lima-Hamilton Corp. Die changing apparatus for metal extrusion press. 2,963,151, 12-6-60, Cl. 207-1.
- Kent, Frank A. Fish lure. 2,951,308, 9-6-60, Cl. 43-42.33.
- Kent, George C., to Controls Co. of America. Filter construction. 2,931,507, 4-5-60, Cl. 210-445.
- Kent, George, Ltd.: *See—*  
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- Kent, James J., Jr., and T. E. Rodgers, to Northrop Corp. Spider web blackening process. 2,958,612, 11-1-60, Cl. 117-106.
- Kent Mfg. Corp.: *See—*  
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Batcheller, Hugh W. 2,948,877.
- Kent-Moore Organizations, Inc.: *See—*  
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- Kent, Maurice J., to Precision Grinding Ltd. Means for trimming grinding or analogous rotary bodies used in grinding or other machine. 2,957,471, 10-25-60, Cl. 125-11.
- Kent, Nelson H.: *See—*  
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- Kent Plastics Corp.: *See—*  
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- Kent, Robert D.: *See—*  
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- Kent, Robert E.: *See—*  
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- Kent, Robert E., to Chas. Pfizer & Co. Inc. Anthelmintic compositions and process. 2,956,923, 10-18-60, Cl. 167-53.
- Kent, Samuel J.: *See—*  
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- Kent, Stephen D.: *See—*  
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- Kentile, Inc.: *See—*  
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- Kentucky Research Foundation, The: *See—*  
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- Kenty, Carl, to General Electric Co. Pulsating electric discharge. 2,961,564, 11-22-60, Cl. 313-174.
- Kenworthy, Louis C. Work supporting stand. 2,931,644, 4-5-60, Cl. 269-112.
- Kenyon, David E. and T. W., to said D. E. Kenyon, assor. Sperry Rand Corp. Rotor dynamic unbalance analyzing system. 2,924,977, 2-16-60, Cl. 73-465.
- Kenyon, George W., to Frink Sno-Plows, Inc. Car towing and pushing attachment. 2,932,416, 4-12-60, Cl. 214-86.
- Kenyon, Roy E. Equalizing means for hydraulic brake system. 2,937,502, 5-24-60, Cl. 60-54.5.
- Kenyon, Theodore W.: *See—*  
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- Kenyon, Walter W., to Millipore Filter Corp. Portable incubator. 2,944,134, 7-5-60, Cl. 219-20.
- Keogh, Raymond J.: *See—*  
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- Keown, Robert W., to El. I. du Pont de Nemours and Co. Process for stabilizing monovinylacetylene containing impurities. 2,947,795, 8-2-60, Cl. 260-678.
- Képes, André, and N. Brody. Change speed arrangement. 2,920,493, 1-12-60, Cl. 74-325.
- Kepka, Frank: *See—*  
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- Keplinger, Orin C., O. C. Elmer, and J. S. Duncan, to The General Tire & Rubber Co. Composition comprising a rubbery reaction product of an organic polyisocyanate and a dihydroxy terminated polyester. 2,953,539, 9-20-60, Cl. 260-31.6.
- Kepner, Hugh G. Check valve. 2,959,188, 11-8-60, Cl. 137-540.
- Keppler, Jack W., and H. J. Holuba, to Montgomery Elevator Co. Elevator control system. 2,941,624, 6-21-60, Cl. 187-29.
- Keppel, Robert E.: *See—*  
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- Kerb, Ulrich: *See—*  
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- Kerber, Horst, and R. Platz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Polymerization of olefins with a catalyst of chromium oxide on aluminum orthophosphate. 2,930,789, 3-29-60, Cl. 260-94.9.
- Kercher, James H.: *See—*  
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- Kerhart, Karel: *See—*  
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- Kerimly, Nicolas: *See—*  
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- Kerker, William C., 25% to F. Manfredonia, and 25% to M. Manfredonia. Automatic bag packaging machine and method. 2,958,990, 11-8-60, Cl. 53-24.
- Kerley, Bernard J., Jr. Liquid metering method and apparatus. 2,956,713, 10-18-60, Cl. 222-464.
- Kerman, Marshall S. Drapery pin dispenser. 2,954,560, 10-4-60, Cl. 1-46.
- Kern, Donald R.: *See—*  
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- Kern, Fritz: *See—*  
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- Kern, George, Jr. Junction box for soft shielded cable and method of wiring it. 2,927,149, 3-1-60, Cl. 174-65.
- Kern, George R., to Fairfax Mfg. Co., Inc. Fluid drive dental handpiece and system. 2,937,444, 5-24-60, Cl. 32-27.
- Kern, John D., and R. C. Kohn, to United States Rubber Co. Method of making a game ball. 2,938,237, 5-31-60, Cl. 18-59.
- Kern, Joseph C.: *See—*  
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- Kern, Loyd R.: *See—*  
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- Kern, Roland J., to Monsanto Chemical Co. Thermal polymerization of acrylonitrile or methacrylonitrile in the presence of a benzoxazolyl disulfide catalyst. 2,926,160, 2-23-60, Cl. 260-88.7.
- Kern, Walter : *See*—  
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- Kernan, James M., to Packaging Corp. of America. Method and apparatus for determining opening force characteristics for flat-folded carton blanks. 2,922,302, 1-26-60, Cl. 73-88.
- Kernan, James M., and R. L. Lewis, to Packaging Corp. of America. Apparatus primarily for testing opening force and flap score stiffness characteristics of cartons. 2,949,770, 8-23-60, Cl. 73-93.
- Kernan, Paul, to Bendix Aviation Corp. Range voltage generating circuit for an automatic tracking loop. 2,928,083, 3-8-60, Cl. 343-7.3.
- Kernander, Warren N., and C. F. Van Bennekom, to General Electric Co. Terminal assembly. 2,944,181, 7-5-60, Cl. 200-166.
- Kernchen, Günter, to Olympia Werke A.G. Line indicating and positioning arrangement for typewriters. 2,949,177, 8-16-60, Cl. 197-187.
- Kernick, Andress, and H. A. Perkins, Jr., to Westinghouse Electric Corp. Load-controlled magnetic amplifier circuit. 2,953,740, 9-20-60, Cl. 323-89.
- Kerns, Quentin A. : *See*—  
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- Kerns, Quentin A., and O. A. Anderson, to United States of America, Atomic Energy Commission. Frequency stabilizing system. 2,935,686, 5-3-60, Cl. 328-133.
- Kerpchar, Michael, to Bendix Aviation Corp. Variably damped instrument landing servosystem. 2,926,294, 2-23-60, Cl. 318-489.
- Kerpelman, Leonard J. : *See*—  
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- Kerr, Avie H. Abduction splint for correcting hip dysplasia. 2,935,984, 5-10-60, Cl. 128-87.
- Kerr, Charles E., to Food Machinery and Chemical Corp. Carton closing machine. 2,927,411, 3-8-60, Cl. 53-376.
- Kerr, Charles E., to Food Machinery and Chemical Corp. Filling mechanism with valve means. 2,954,806, 10-4-60, Cl. 141-275.
- Kerr, Charles E., to Food Machinery and Chemical Corp. Filling machine. 2,958,346, 11-1-60, Cl. 141-141.
- Kerr Chemicals, Inc. : *See*—  
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- Kerr, David : *See*—  
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- Kerr, David, to Ultra Electric, Inc. Method and apparatus for measuring distance in radio homing systems. 2,944,254, 7-5-60, Cl. 343-11.
- Kerr, Edward L. : *See*—  
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- Kerr, Fred S., to Holley Carburetor Co. Transistor ignition system. 2,943,131, 6-28-60, Cl. 123-148.
- Kerr, George A. Clamping and bending implement. 2,948,323, 8-9-60, Cl. 153-38.
- Kerr, Glenn W. : *See*—  
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- Kerr, Gordon A. Hardness tester. 2,942,458, 6-28-60, Cl. 73-82.
- Kerr, John C. : *See*—  
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- Kerr, Kingdom, and E. Halitsky. Information storage and readout system. 2,922,894, 1-26-60, Cl. 250-219.
- Kerr, Laird I. : *See*—  
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- Kerr, Ralph W., and F. C. Cleveland, Jr., to Corn Products Co. Surgical dusting powder and process therefor. 2,938,901, 5-31-60, Cl. 260-233.5.
- Kerr, Ralph W., and F. C. Cleveland, to Corn Products Co. Process for preparing inorganic starch esters. 2,961,440, 11-22-60, Cl. 260-233.5.
- Kerr, Robert J., and E. H. Green, to Kerr Chemicals, Inc. Valve assembly. 2,925,103, 2-16-60, Cl. 141-349.
- Kerr, Wallace E. Die assembly. 2,928,526, 3-15-60, Cl. 205-3.
- Kerridge, Irene D. Device for teaching typing. 2,962,819, 12-6-60, Cl. 35-6.
- Kerridge, Norman E., to Stothert & Pitt, Ltd. Chain transmission drive for vibratory rollers. 2,954,726, 10-4-60, Cl. 94-50.
- Kerrigan, Vincent : *See*—  
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- Kerrigan, Vincent, and W. R. Pryer, to Imperial Chemical Industries Ltd. Vulcanization of natural and synthetic rubber. 2,962,481, 11-29-60, Cl. 260-79.5.
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- Kerry, Thomas H., and P. A. Ward, to Rolls-Royce Ltd. Aircraft structures with power plants. 2,940,692, 6-14-60, Cl. 244-15.
- Kerry, Thomas H., and P. A. Ward, to Rolls-Royce Ltd. Retractable guards for air intakes. 2,944,631, 7-12-60, Cl. 183-62.
- Kerschner, Paul M., and B. W. Greenwald, to Cities Service Research and Development Co. Polyester synthetic lubricants. 2,951,861, 9-6-60, Cl. 260-448.2.
- Kerschner, Paul M., and B. W. Greenwald, to Cities Service Research and Development Co. Carbon functional organosiloxane dibasic acid halogen esters. 2,966,508, 12-27-60, Cl. 260-448.2.
- Kersh, Jack R. Rail securing cargo car. 2,932,261, 4-12-60, Cl. 105-355.
- Kersh, Jack R. Ship elevator. 2,938,638, 5-31-60, Cl. 214-15.
- Kershaw, Harold, E. D. Dowling, and W. S. Miller, to The M. W. Kellogg Co. Scale model assembly jig. 2,933,829, 4-26-60, Cl. 35-16.
- Kershaw, Harold, E. D. Dowling, W. S. Miller, to The M. W. Kellogg. Scaled model and method of manufacture. 2,938,142, 11-1-60, Cl. 35-16.
- Kershaw, John W. G. : *See*—  
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- Kershaw Mfg. Co., Inc. : *See*—  
Kershaw, Royce. 2,926,617.  
Kershaw, Royce G. 2,929,084.
- Kershaw, Peter L. : *See*—  
Steghart, Fritz L. F., and Kershaw. 2,957,980.
- Kershaw, Peter L., and T. E. Oliver, to Evershed & Vignoles Ltd. Electrical remote indicating and repeating systems. 2,932,817, 4-12-60, Cl. 340-187.
- Kershaw, Royce G. Apparatus for removing ballast from beneath a railroad track. 2,950,549, 8-30-60, Cl. 37-104.
- Kershaw, Royce, to Kershaw Mfg. Co., Inc. Ballast tamping apparatus. 2,926,617, 3-1-60, Cl. 104-12.
- Kershaw, Royce G., to Kershaw Mfg. Co., Inc. Deflector assembly for railroad track sweepers. 2,929,084, 3-22-60, Cl. 15-55.
- Kershaw, Royce G. Ballast distributing apparatus for railroads. 2,965,986, 12-27-60, Cl. 37-105.
- Kershner, Osborn A., and H.-J. Tsai, to Lambert Brake Corp. Mechanical actuator means for disc brakes. 2,938,607, 5-31-60, Cl. 188-72.
- Kershner, Osborn A., to Lambert Brake Corp. Disc brake having combined friction and segmental actuating means. 2,938,608, 5-31-60, Cl. 188-72.
- Kerst, Donald W., and K. R. Symon, to Research Corp. Imparting energy to charged particles. 2,932,798, 4-12-60, Cl. 328-235.
- Kersten, William H., to The Parker Pen Co. Writing instruments. 2,960,066, 11-15-60, Cl. 120-42.03.
- Kerver, John K. : *See*—  
Graham, John W., and Kerver. 2,950,886.
- Kerwin, James F., and M. E. Wolff, to Smith Kline & French Laboratories. 11,18-enoxy steroid compounds. 2,959,586, 11-8-60, Cl. 260-239.55.
- Kesel, Robert E. : *See*—  
Macleish, Kenneth G., and Kesel. 2,944,783.
- Keskkula, Henno, R. M. Price, and A. F. Roche, to The Dow Chemical Co. Compositions of polymeric alkenyl aromatic hydrocarbons and monovinyl aromatic hydrocarbon-butadiene copolymers. 2,958,671, 11-1-60, Cl. 260-45.5.
- Kesling, Elmer G. Releaseable restraining device for rotatable parts of calculators. 2,935,257, 5-3-60, Cl. 235-144.
- Kesling, Harold D. Orthodontic attachment. 2,930,126, 3-29-60, Cl. 32-14.
- Kesling, Keith K. : *See*—  
Rill, John C., Jr., and Kesling. 2,962,183.
- Kesling, Keith K., to General Motors Corp. Domestic appliance. 2,939,465, 6-7-60, Cl. 134-115.
- Kesling, William L., to Union Carbide Corp. Pigmented polyethylene extrusion composition. 2,951,821, 9-6-60, Cl. 260-41.
- Kessel, Benjamin, to Minneapolis-Honeywell Regulator Co. Adding and subtracting apparatus. 2,934,271, 4-26-60, Cl. 235-176.
- Kessler, George W., to The Babcock & Wilcox Co. Marine boiler. 2,939,435, 6-7-60, Cl. 122-478.
- Kessler, Jacob C. F., and H. R. Spreuwers, to N.V. Onderzoekingsinstituut Research. Process of extruding composition comprising a fiber forming linear condensation product and a thickening agent. 2,959,570, 11-8-60, Cl. 260-77.5.
- Kessler, James R. : *See*—  
Conn, Francis E., and Kessler. 2,948,343.
- Kessler, James R., D. W. Miller, and R. K. Skinner, to General Motors Corp. Propeller speed controller. 2,949,159, 8-16-60, Cl. 170-160.14.
- Kessler, John W. : *See*—  
Hartsfield, Alfred R., Kessler, and Moran. 2,932,388.
- Kessler, Milton. Illuminated driveway curbing. 2,920,184, 1-5-60, Cl. 240-2.
- Kessler, Milton. Pin and hoop game. 2,965,376, 12-20-60, Cl. 273-104.
- Kessler, Theodore P., to Timron Development and Mfg. Corp. Shipping carton for plush. 2,922,516, 1-26-60, Cl. 206-51.
- Kessler, Vernon R. : *See*—  
Hopkinson, Harold H., Irwin, and Kessler. 2,959,031.



- Kesster, Ward P., J. P. Malmrose, and R. L. Evans, to Kewanee Mfg. Co., Horizontal sliding window. 2,952,883, 9-20-60, Cl. 20—52.2.
- Kesseling, Carl G., Harrow lifting mechanism. 2,963,098, 12-6-60, Cl. 172—488.
- Kesseling, Carl G., Decapitator and tail cutting device. 2,964,784, 12-20-60, Cl. 17—12.
- Kessler, George E., Fuel pump. 2,930,323, 3-29-60, Cl. 103—44.
- Kesterman Bros. Mfg. Co.: See—  
Williams, Howard F., and Minutoli. 2,948,110.
- Kesterton, Arthur J., to The Steel Co. of Wales Ltd., Gun assembly used in an open hearth furnace. 2,937,864, 5-24-60, Cl. 266—34.
- Kesterton, Arthur J., and A. V. Williams, to The Steel Co. of Wales, Ltd., Abbey Works., Oxygen lance with bent tip. 2,965,370, 12-20-60, Cl. 266—34.
- Kestler, George, 20% to T. B. D. Joyce, Pistons. 2,921,823, 1-19-60, Cl. 309—15.
- Ketcham & McDougall, Inc.: See—  
Bosland, James M., 2,929,359.
- Ketchledge, Raymond W.: See—  
Jacoby, Gerald E., and Ketchledge. 2,929,962.
- Ketchledge, Raymond W., to Bell Telephone Laboratories, Inc., Wave energy translating system. 2,922,100, 1-19-60, Cl. 318—489.
- Ketchledge, Raymond W., to Bell Telephone Laboratories, Inc., Signal comparison system. 2,923,475, 2-2-60, Cl. 235—175.
- Ketchledge, Raymond W., to Bell Telephone Laboratories, Inc., Signal comparison system. 2,923,476, 2-2-60, Cl. 235—177.
- Ketchledge, Raymond W., to Bell Telephone Laboratories, Inc., Communication switching system employing gas tubes. 2,936,402, 5-10-60, Cl. 315—84.5.
- Ketchledge, Raymond W., to Bell Telephone Laboratories, Inc., Communication switching system employing gas tubes. 2,944,114, 7-5-60, Cl. 179—18.
- Ketchledge, Raymond W., to Bell Telephone Laboratories, Inc., Steering system utilizing thermal-energy radiations. 2,964,265, 12-13-60, Cl. 244—14.
- Ketchledge, Raymond W., to Bell Telephone Laboratories, Inc., Signal comparison system. 2,965,298, 12-20-60, Cl. 235—175.
- Ketchledge, Raymond W., to Bell Telephone Laboratories, Inc., Electrical circuit. 2,965,855, 12-20-60, Cl. 330—164.
- Ketchpel, Paul A., Jr.: See—  
Haskell, Philip R., Evans, Ketchpel, and Connor. 2,949,898.
- Haskell, Philip R., Evans, Ketchpel, and Connor. 2,954,759.
- Ketchpel, Richard D., to Hughes Aircraft Co., Multi-gap collimation lens for use in direct-view storage tube. 2,950,408, 8-23-60, Cl. 313—82.
- Ketchpel, Richard D., to Hughes Aircraft Co., Storage tube. 2,950,414, 8-23-60, Cl. 315—1.
- Ketchum, James R., to Minneapolis-Honeywell Regulator Co., Force ratio responsive device. 2,937,528, 5-24-60, Cl. 73—407.
- Ketley, Richard E., and J. C. Paterson, Cooling internal combustion locomotive engines. 2,925,788, 2-23-60, Cl. 105—62.
- Kettell, Philip E., to E. A. Adams & Son, Inc., Earring clamps having a threaded shank adjustable in a threadless opening. 2,961,854, 11-29-60, Cl. 63—14.
- Ketting, Leendert, to Gebrueder Buehler, Plane-sifter drive. 2,936,634, 5-17-60, Cl. 74—61.
- Kettler, Clarence J.: See—  
Moody, Charles W., Neff, Gray, and Kettler. 2,947,065.
- Keuffel & Esser Co.: See—  
Baker, Allister L., 2,943,529.  
Baker, Allister L., 2,960,912.  
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Eerde, John D., 2,942,975.  
Hillman, Conway D., 2,937,570.  
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Mades, Eugene V., and Baker. 2,937,560.  
Snechler, Daniel S., 2,943,936.  
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- Keuning, Klaas J.: See—  
De Jonge, Jelis, Jonker, Keuning, and Dippel. 2,923,626.
- Keville, Jesse F., Jr., to Carrier Corp., Apparatus for re-constituting defrosting liquid. 2,954,822, 10-4-60, Cl. 159—26.
- Kewanee Mfg. Co.: See—  
Kessler, Ward P., Malmrose, and Evans. 2,952,883.
- Keyes Fibre Co.: See—  
Williams, Philip M., 2,936,922.
- Keyes, Robert L.: See—  
Graham, Harry C., 2,929,306.
- Keys, Conrad R., Device for handling cable reels and the like. 2,941,678, 6-21-60, Cl. 214—77.
- Keys, Conrad R., Dumping receptacle and means for handling and manipulating the same. 2,941,682, 6-21-60, Cl. 214—307.
- Keys, Conrad R., Loading and dumping receptacle and closing construction and fastening construction therefor. 2,941,690, 6-21-60, Cl. 220—34.
- Keys, Conrad R., Equipment for loading, hauling and dumping loose materials. 2,943,753, 7-5-60, Cl. 214—317.
- Keys, Conrad R., Vehicular dumping receptacle. 2,943,754, 7-5-60, Cl. 214—317.
- Keyser, Allen H., to Minneapolis-Honeywell Regulator Co., Bumpless manual automatic switch. 2,935,077, 5-3-60, Cl. 137—82.
- Keyser, Allen H., to Minneapolis-Honeywell Regulator Co., Straight-line recording and indicating instrument. 2,942,927, 6-28-60, Cl. 346—17.
- Keyser, Edwin J., Gyroscopically controlled transmission. 2,960,889, 11-22-60, Cl. 74—751.
- Keyser, Howard F.: See—  
Cameron, Thomas A., and Keyser. 2,949,667.
- Keyser, Johann J., to Schiess Aktiengesellschaft, Needle strips for spinning machines and method of employing same. 2,934,795, 5-3-60, Cl. 19—129.
- Keyser, Johann J., to Schiess Aktiengesellschaft, Working roll arrangement for textile machinery. 2,950,507, 8-30-60, Cl. 19—65.
- Keystone Casing Supply Co.: See—  
Sartore, Laurence. 2,922,186.
- Keystone Chemurgic Corp.: See—  
Schenck, Remsen T. E., 2,945,853.  
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- Keystone Engineering Co.: See—  
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- Keystone Packing Machine Corp.: See—  
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- Keystone Plastics, Inc.: See—  
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- Keystone Steel & Wire Co.: See—  
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Dahlhauser, Anthony H., and Yaeger. 2,944,722.
- Keyt, Donald E., M. M. Dubitzky, and N. T. Pierce, to Arthur D. Little, Inc., Portable cooking stove. 2,928,386, 3-15-60, Cl. 126—38.
- Keyt, Ferris G., to Minneapolis-Honeywell Regulator Co., Automatic pilots for aircraft. 2,952,425, 9-13-60, Cl. 244—77.
- Keyworth, Alan: See—  
Edmonds, Robert C., and Keyworth. 2,925,637.
- Kezerian, Charles: See—  
Ramsey, William M., and Kezerian. 2,964,549.
- Khachoyan, Joseph, and J.-P. Niederhauser, to Compagnie Française des Matières Colorantes, New process for the coloration of synthetic materials and the industrial products resulting therefrom. 2,937,067, 5-17-60, Cl. 8—55.
- Khaill, Seyed, Variable spacing typewriter. 2,939,565, 6-7-60, Cl. 197—84.
- Khalil, Seyed, to Royal McBee Corp., Typing machines for arabic group languages. 2,940,575, 6-14-60, Cl. 197—1.
- Kharasch, Morris S., to United States of America, War, Process of producing an incendiary composition. 2,920,949, 1-12-60, Cl. 52—23.
- Kharasch, Norman, to Stauffer Chemical Co., Chlorinolysis of disulfides and thiols, with sulfonyl chloride and a catalyst. 2,929,820, 3-22-60, Cl. 260—306.
- Kharasch, Norman, and R. B. Langford, to Stauffer Chemical Co., Beta-substituted sulfenylate esters. 2,929,824, 3-22-60, Cl. 260—348.
- Khawam, Antoine, to Allied Chemical Corp., Highly cross-linked non-flammable polyurethane foams and preparation of same. 2,953,533, 9-20-60, Cl. 260—2.5.
- Khawam, Antoine, to Allied Chemical Corp., Highly cross-linked non-flammable polyurethane compositions and preparation of same. 2,956,031, 10-11-60, Cl. 260—2.5.
- Kher, Gabriel F., Method of preserving a perishable product. 2,950,976, 8-30-60, Cl. 99—166.
- Khol, Frantisek, and Talas, Apparatus for the evaluation of X-ray photographs. 2,945,300, 7-19-60, Cl. 33—1.
- Khoury, Esa M., Multistory building. 2,960,732, 11-22-60, Cl. 20—1.13.
- Kiashek, George, Decorative mounts. 2,947,103, 8-2-60, Cl. 40—140.
- Kiba, Jack Y., to Pan-Am Plastics Corp., Cradle hinge for plastic receptacles. 2,960,253, 11-15-60, Cl. 220—31.
- Kiba, Jack Y., to Pan-Am Plastics Corp., Flexible hinge construction for plastic boxes. 2,960,254, 11-15-60, Cl. 220—31.
- Kibbe, Milo W., Jr., to Plane Parts, Inc., Pneumatic peening and marking tool. 2,944,521, 7-12-60, Cl. 121—17.
- Kibble, Edgar D., to McLouth Steel Corp., Grinding machine. 2,925,691, 2-23-60, Cl. 51—78.
- Kibler, Charles J., and J. W. Tamblin, to Eastman Kodak Co., Cellulose organic acid ester plastics containing certain aromatic sulfones. 2,956,896, 10-18-60, Cl. 106—181.
- Kibler, Charles J., A. Bell, and J. G. Smith, to Eastman Kodak Co., Polyester-urethanes derived from cyclohexanedi-methanol and textile fabric coated therewith. 2,956,961, 10-18-60, Cl. 260—2.5.
- Kibler, Charles J., and G. C. Newland, to Eastman Kodak Co., Stabilized poly- $\alpha$ -olefin compositions. 2,964,497, 12-13-60, Cl. 260—45.85.
- Kibler, Louis E.: See—  
Kirshner, Abraham S., 2,936,013.
- Kibrick, Andre C., I. W. Scopp, and R. R. Colton; said Colton assor. to said Kibrick and said Scopp, Method of preparing paper pulp. 2,944,928, 7-12-60, Cl. 162—32.
- Kidd, Frederick and T. D., to Fisher & Ludlow Ltd., Conveyor rollers. 2,942,721, 6-28-60, Cl. 198—192.
- Kidd, George H.: See—  
Hallam, Thomas B., Jones, and Kidd. 2,926,770.
- Kidd, Marshall C., to Radio Corp. of America, Semi-conductor trigger circuits. 2,921,206, 1-12-60, Cl. 307—88.5.



- Kidd, Marshall C., to Radio Corp. of America. Simplified two-channel multiplex system. 2,921,981, 1-19-60, Cl. 179-15.
- Kidd, Marshall C., to Radio Corp. of America. Convertible self-biasing or amplifying circuit for magnetic recording or reproducing. 2,946,858, 7-26-60, Cl. 179-100.2.
- Kidd, Thomas D.: *See*—
- Kidd, Frederick and T. D. 2,942,721.
- Kidde Mfg. Co., Inc.: *See*—
- Noe, Harold C. 2,955,304.
- Kidde Textile Machinery Corp.: *See*—
- Glover, Clement E. 2,957,327.
- Noe, Harold C. 2,921,453.
- Noe, Harold C. 2,955,897.
- Kidde, Walter & Co., Inc.: *See*—
- Bagno, Samuel M. 2,961,869.
- Kidde, Walter, Nuclear Laboratories, Inc.: *See*—
- Miller, Philip. 2,951,156.
- Kidder, Marshall J., to Remington Arms Co., Inc. Shot shell wad molding process. 2,953,816, 9-27-60, Cl. 18-55.
- Kidder, Ray E.: *See*—
- Schurman, Glenn A., and Kidder. 2,939,291.
- Kiddy Case Mfg. Co., Inc.: *See*—
- Greenberg, Walter S. 2,949,987.
- Kidwell, Gaylord B. Medical tablet container. 2,965,222, 12-20-60, Cl. 206-42.
- Kidwell, John H., and G. Musat, to The Babcock & Wilcox Co. Fluid fuel burner. 2,921,542, 1-19-60, Cl. 110-28.
- Kidwell, Robert L.: *See*—
- Steele, Harry M., Jr., and Kidwell. 2,936,387.
- Kiebert, Martin V., Jr. Self-balancing amplifier. 2,921,266, 1-12-60, Cl. 330-119.
- Kiebert, Martin V., Jr., to J. K. Nunan. Nutating commutator switch. 2,965,724, 12-20-60, Cl. 200-23.
- Kiebler, Myron W., Jr.: *See*—
- Baumhart, Earl E., Kiebler, and Zier. 2,957,786.
- Kiechle, Julius, to Zahnradfabrik Friedrichshafen. Hydraulic gear shift systems. 2,931,238, 4-5-60, Cl. 74-335.5.
- Kiecker, Ervin A., and T. G. Lange. Snow plow. 2,944,351, 7-12-60, Cl. 37-43.
- Kiefer, Augustine J. Pillow. 2,940,087, 6-14-60, Cl. 5-338.
- Kiefer, Erich. Apparatus for drying loose fibrous materials and the like. 2,922,229, 1-26-60, Cl. 34-115.
- Kiefer, Erich, and W. Schmolz. Perforated drum drier. 2,964,854, 12-20-60, Cl. 34-115.
- Kiefer, Karl, Machine Co., The: *See*—
- Osmond, Charles W., and Fehchheimer. 2,922,445.
- Kiefer, Norbert: *See*—
- Kececioğlu, Dimitri B., Weber, and Kiefer. 2,938,468.
- Kiefer, Paul J., Jr.: *See*—
- Gams, Theodore C., and Kiefer. 2,941,124.
- Kiefer, William R.: *See*—
- Erikson, Robert W., and Kiefer. 2,931,314.
- Kieffaber, Clarence A., to Stickelber & Sons, Inc. Automatic roller discharge panning mechanism. 2,964,890, 12-20-60, Cl. 53-74.
- Kiekhaefer Corp.: *See*—
- Alexander, Charles F., Jr. 2,948,252.
- Schoenfeldt, Frederick C. 2,920,393.
- Strang, Charles D. 2,945,138.
- Kiekhaefer, Elmer C. Outboard motor and starting means therefor. 2,944,508, 7-12-60, Cl. 115-18.
- Kiekhaefer, Elmer C. Outboard propulsion units for boats. 2,953,335, 9-20-60, Cl. 248-4.
- Kiel, Kenneth M., to United States of America, Navy. Mercury switch. 2,926,226, 2-23-60, Cl. 200-80.
- Kiel, Merwin A., Sr. Corn salvage picker and trailer. 2,952,469, 9-13-60, Cl. 280-32.5.
- Kiel, Wilhelm K. B., and U. T. R. Eichler; said Kiel assor. to Metall-Guss-und Presswerk Heinrich Diehl G.m.b.H. Calculating machine. 2,936,952, 5-17-60, Cl. 235-63.
- Kiel, Wilhelm K. B., and U. J. R. Eichler, to Metall-Guss-und Presswerk Heinrich Diehl Gesellschaft mit beschränkter Haftung. Dividend-divisor aligning mechanism. 2,937,809, 5-24-60, Cl. 235-63.
- Kielsmeier, Elwood W.: *See*—
- Paynter, William D., and Kielsmeier. 2,947,635.
- Kienel, Joseph E. Pneumatic apparatus for turning and stacking hosiery. 2,944,709, 7-12-60, Cl. 223-43.
- Kiener, John: *See*—
- Powell, Charles E., Jr., and Kiener. 2,957,649.
- Kienker, James E.: *See*—
- Yost, Clyde E., and Kienker. 2,923,540.
- Kienlen, Wilbur A. Knock-down shipping container. 2,961,113, 11-22-60, Cl. 217-12.
- Kienow, Sigismund, to Manufacturers Chemical Corp. Coating metals with protecting layers. 2,964,216, 12-13-60, Cl. 220-64.
- Kienzle Apparate G.m.b.H.: *See*—
- Hollein, Wilhelm. 2,938,760.
- Kassel, Martin. 2,936,956.
- Polzin, Gerwalt, Kassel, and Martens. 2,925,958.
- Riegger, Paul, and Bertrang. 2,924,497.
- Riegger, Paul, and Vögtlin. 2,933,363.
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- Kienzle, Harold K.: *See*—
- Du Shane, Wallace H., and Kienzle. 2,924,285.
- Du Shane, Wallace H., and Kienzle. 2,935,145.
- Kienzle Uhrenfabriken A.G.: *See*—
- Leimenstoll, Fritz. 2,953,041.
- Schweizer, Walter, Glunz, and Muller. 2,931,164.
- Kiepert, Klaus: *See*—
- Weber, Heinrich, Strache, Broich, Franke, and Kiepert. 2,935,501.
- Kier, Willard C. Multi-spool ribbon curling and cutting device. 2,961,736, 11-29-60, Cl. 28-1.
- Kier, Willard C. Ribbon display and dispensing device. 2,962,199, 11-29-60, Cl. 225-37.
- Kiernan, Earl F. Radar controlled missile. 2,934,286, 4-26-60, Cl. 244-14.
- Kieronski, John P., and G. G. Golm, to Universal Winding Co. Replenishing means for looms. 2,928,429, 3-15-60, Cl. 139-229.
- Kies, Elliott J.: *See*—
- Frey, Edward, Mollet, Kies, and Huey. 2,960,784.
- Kies, Elliott J., to The Massillon-Cleveland-Akron Sign Co. Motion display sign. 2,953,866, 9-27-60, Cl. 40-39.
- Kies, Elliott J., to The Massillon-Cleveland-Akron Sign Co. Horizontal banner mounting construction. 2,954,626, 10-4-60, Cl. 40-125.
- Kies, Elliott J., to The Massillon-Cleveland-Akron Sign Co. Horizontal banner mounting construction. 2,954,627, 10-4-60, Cl. 40-125.
- Kies, Elliott J., to The Massillon-Cleveland-Akron Sign Co. Banner mounting construction. 2,960,785, 11-22-60, Cl. 40-125.
- Kies, Elliott J., to The Massillon-Cleveland-Akron Sign Co. Banner mounting construction. 2,961,787, 11-29-60, Cl. 40-128.
- Kieser, Alwin F. Portable cable puller and power unit. 2,948,510, 8-9-60, Cl. 254-139.1.
- Kiesler, Allan J., to General Electric Co. Method and apparatus for producing grain-oriented ingots. 2,951,272, 9-6-60, Cl. 22-126.
- Kiester, George S.: *See*—
- Hawk, Gale F., and Kiester. 2,924,351.
- Kiewit, Peter, Sons, Inc.: *See*—
- Ryser, Leo W., White, Brown, and Franklin. 2,920,455.
- Kiff, Ben W.: *See*—
- Guest, Howard R., and Kiff. 2,951,826.
- Guest, Howard R., and Kiff. 2,957,856.
- Kiger, Fred B.: *See*—
- Hamilton, Arthur R. 2,961,815.
- Kightlinger, Ronald J.: *See*—
- Dowell, Lloyd, and Kightlinger. 2,956,149.
- Kihn, Harry, to Radio Corp. of America. Electrical circuits. 2,951,245, 8-30-60, Cl. 343-13.
- Kihn, Harry, to United States of America, Air Force. Scanning system for cathode ray tubes. 2,957,043, 10-18-60, Cl. 178-7.5.
- Kihn, Harry, W. E. Barnette, and S. Metzger, to Radio Corp. of America. Modulation system. 2,955,264, 10-4-60, Cl. 332-12.
- Kikuchi, Yoshimitsu. Ferrite. 2,951,810, 9-6-60, Cl. 252-62.5.
- Kikuhara, Shizuo, to Shin-Meiwa Kogyo Kabushiki Kaisha. Spray-controller for watercraft. 2,919,669, 1-5-60, Cl. 114-66.5.
- Kilburn, Tom: *See*—
- Williams, Frederic C., and Kilburn. 2,928,983.
- Williams, Frederic C., and Kilburn. 2,948,830.
- Williams, Frederic C., Kilburn, and Hoffman. 2,932,763.
- Kilburn, Tom, D. B. G. Edwards, and G. E. Thomas, to International Business Machines Corp. Electronic digital computing machines. 2,940,670, 6-14-60, Cl. 235-166.
- Kilburn, Tom, and G. R. Hoffman, to International Business Machines Corp. Magnetic storage systems. 2,945,214, 7-12-60, Cl. 340-174.
- Kilburn, Tom, and G. R. Hoffman, to National Research Development Corp. Magnetic core storage systems. 2,958,074, 10-25-60, Cl. 340-174.
- Kilby, Jack S., and L. E. Dillger, to Globe-Union Inc. Component mounting for printed circuits. 2,945,163, 7-12-60, Cl. 317-101.
- Kilcoin, Arthur H. P. Diaphragm valve. 2,939,676, 6-7-60, Cl. 251-331.
- Kile Brothers Mfg. Co.: *See*—
- Kile, John A., to Kile Brothers Mfg. Co. Oil filter turning tool with coiled spring gripping member. 2,959,994, 11-15-60, Cl. 81-64.
- Kilgore, Inc.: *See*—
- Clauser, Herbert C., and Long. 2,920,560.
- Kilian, Joseph J., to E. I. du Pont de Nemours and Co. Spinneret assembly. 2,936,482, 5-17-60, Cl. 18-8.
- Kilian, Rudolph R., and W. P. Barnett, to General Electric Co. Cantilever semiconductor mounting. 2,963,632, 12-6-60, Cl. 317-235.
- Killik, David. Corner plate for brief bags and the like. 2,921,615, 1-19-60, Cl. 150-1.6.
- Killam, Harry R., to American Radiator & Standard Sanitary Corp. Propeller fan wheel. 2,965,180, 12-20-60, Cl. 170-170.
- Killaren, Arthur J.: *See*—
- Decker, Edward W., Keller, Killaren, and Mueller. 2,921,694.
- Kille, Lindley A.: *See*—
- Breed, Rolland N., Groth, Irwin, Kille, and Riggs. 2,946,984.
- Killebrew, Sam H. Vehicle comprising a plurality of selectively dumpable receptacles. 2,929,658, 3-22-60, Cl. 298-8.
- Killian, Cletus H., ¼ to R. K. Le Blond Machine Tool Co. Automatic machinist. 2,947,928, 8-2-60, Cl. 318-023.



- Killian, George W., to General Dynamics Corp. Switching circuit. 2,947,878, 8-2-60, Cl. 307-64.
- Killian, Henry E. Cigarette. 2,934,073, 4-26-60, Cl. 131-11.
- Killian, Robert J., to Automatic Steel Products, Inc. Multi-groove pulley manufacture. 2,955,748, 10-11-60, Cl. 230-135.
- Killinger, John J., to General Motors Corp. Multiple control arrangement for air spring. 2,934,356, 4-26-60, Cl. 280-124.
- Killmer, Earl C. Shrub packing machine. 2,961,812, 11-29-60, Cl. 53-124.
- Kilner, William N., and J. Tudge, to Metropolitan-Vickers Electrical Co. Ltd. Electrical turbo generators. 2,950,403, 8-23-60, Cl. 310-232.
- Kilonsky, Rudolph H.: *See*—  
Bravo, Joel W., and Kilonsky. 2,962,825.
- Kilpatrick, Robert H., and J. R. Spencer, to Lockheed Aircraft Corp. Apparatus for post-heating with a shielded arc spotwelding gun. 2,935,312, 5-3-60, Cl. 266-4.
- Kilpinen, Leo T., and W. A. Morris. Fish lure. 2,932,110, 4-12-60, Cl. 43-17.1.
- Kilvington, Earl R. Driving and steering mechanism for motor boats. 2,956,536, 10-18-60, Cl. 115-15.
- Kim, Se K. Continuous irrigation apparatus. 2,919,695, 1-5-60, Cl. 128-227.
- Kim, Se K. Catheters. 2,919,697, 1-5-60, Cl. 128-348.
- Kimball, A., Co.: *See*—  
Rothmann, Harry E. 2,943,559.
- Kimball, Eugene C. Pruning apparatus. 2,926,480, 3-1-60, Cl. 56-235.
- Kimball, George R., C. R. D'Olive, and J. A. Butler, to Chamberlain Corp. Roll out shelf structure. 2,966,388, 12-27-60, Cl. 312-333.
- Kimball, Leigh L.: *See*—  
Worrell, Edsel A., and Kimball. 2,927,284.
- Kimball, Lloyd R., to Sperry Rand Corp. Automatic track-while-scan system. 2,922,156, 1-19-60, Cl. 343-7.3.
- Kimball Mfg. Corp.: *See*—  
Maples, James F. 2,933,740.
- Kimball, Raymond F.: *See*—  
Wight, Daniel T., and Kimball. 2,919,853.
- Kimball, Vernon R.: *See*—  
Maionary, Robert T., and Kimball. 2,940,319.
- Kimball, Wilsey: *See*—  
Nupp, Wayne E., and Kimball. 2,930,449.
- Kimberlin, Charles N., Jr.: *See*—  
Draeger, Kenneth E., Kimberlin, Arey, and Mattox. 2,952,614.
- Gladrow, Elroy M., Mason, Kimberlin, and Arey. 2,927,072.
- Mason, Ralph B., Arey, and Kimberlin. 2,938,855.
- Mattox, William J., and Kimberlin. 2,956,089.
- Steffen, Frederick W., Kimberlin, and Buchmann. 2,965,563.
- Kimberlin, Charles N., Jr., C. E. Adams, and W. O. Taff, to Esso Research and Engineering Co. Deashing of residual fractions. 2,926,129, 2-23-60, Cl. 208-86.
- Kimberlin, Charles N., Jr., to Esso Research and Engineering Co. Hydroforming process with a fixed bed of platinum catalyst and fluidized inert solids. 2,931,770, 4-5-60, Cl. 208-138.
- Kimberlin, Charles N., Jr., and W. J. Mattox, to Esso Research and Engineering Co. Naphtha reforming process. 2,944,001, 7-5-60, Cl. 208-80.
- Kimberlin, Charles N., Jr., and H. E. Merrill, to Esso Research and Engineering Co. Paraffin hydrocarbon reactions with aluminum bromide. 2,946,833, 7-26-60, Cl. 260-683.74.
- Kimberlin, Charles N., Jr., and W. J. Mattox, to Esso Research and Engineering Co. Separation of aromatics and olefins using zeolitic molecular sieves. 2,950,336, 8-23-60, Cl. 260-674.
- Kimberlin, Charles N., Jr., and W. J. Mattox, to Esso Research and Engineering Co. Production of high octane motor fuels. 2,958,644, 11-1-60, Cl. 208-64.
- Kimberlin, Charles N., Jr., and W. J. Mattox, to Esso Research and Engineering Co. Naphtha reforming process. 2,958,645, 11-1-60, Cl. 208-93.
- Kimberlin, Charles N., Jr., and H. G. Ellert, to Esso Research and Engineering Co. Shale oil refining process using a selective solvent and anhydrous hydrogen chloride. 2,966,450, 12-27-60, Cl. 208-10.
- Kimberly-Clark Corp.: *See*—  
Beaulieu, Delton C. 2,960,243.
- Bletzinger, John C. 2,922,422.
- Bletzinger, John C., and Allan. 2,950,223.
- Bletzinger, John C., and Nelson. 2,926,394.
- Braun, Ralph V. 2,940,890.
- Burger, William H., Jr., Nelson, and Rowe. 2,926,667.
- Carnes, Frank C. 2,920,759.
- Gmeiner, Archibald R., and Hackbert. 2,955,947.
- Grangaard, Donald H. 2,928,868.
- Grangaard, Donald H., and Saunders. 2,926,114.
- Greiner, Charles J., and Hubin. 2,960,023.
- Gresham, James T. 2,920,373.
- Harwood, Kenneth J. 2,965,102.
- Harwood, Kenneth J. 2,965,224.
- Harwood, Kenneth J., and Day. 2,960,089.
- Marogg, Richard. 2,923,052.
- McIntyre, James W., and Hechtman. 2,962,404.
- Nelson, Howard N. 2,927,714.
- Kimberly, Ned P., to L-O-F Glass Fibers Co. Continuous winding apparatus. 2,932,461, 4-12-60, Cl. 242-18.
- Kimble, Creighton B., to United States of America, Navy. Electronic recticle generator. 2,957,245, 10-25-60, Cl. 33-49.
- Kimble, Donal G.: *See*—  
Miller, Carl S., and Kimble. 2,958,778.
- Kimble Glass Co.: *See*—  
Brookover, George B., and Tom. 2,933,423.
- Dapp, Robert J. 2,963,142.
- Eastus, Harold L. 2,925,183.
- Hitchner, William G. 2,925,692.
- Kegg, Robert R., and Pinotti. 2,951,167.
- Mayhew, Ray W., Ruff, and Vogelpohl. 2,931,141.
- Pinotti, Alfred D. 2,961,703.
- Pinotti, Alfred D. 2,963,824.
- Stutske, William A., and Sheets. 2,948,988.
- Torok, Julius J. 2,956,371.
- Zauner, Otto. 2,952,943.
- Zimmerman, George. 2,920,421.
- Kimble, Robert H., and A. W. Wiseman, to The Sheffield Corp. Machine tool device. 2,953,044, 9-20-60, Cl. 77-5.
- Kimel, Walter, to Hoffmann-La Roche Inc. Cyclic alcohols and esters and preparation thereof. 2,934,560, 4-26-60, Cl. 260-488.
- Kimm, Ewald J., to United Aircraft Products, Inc. Magnetic sealing means. 2,919,943, 1-5-60, Cl. 288-20.
- Kimm, Ewald J., to Standard-Thomson Corp. Electrically controlled actuator assembly. 2,928,233, 3-15-60, Cl. 60-23.
- Kimmel, Norman A.: *See*—  
Keathley, Anthony C., and Kimmel. 2,944,390.
- Kimmel, Norman A., to Phillips Petroleum Co. Method and apparatus for controlling pipeline pressure. 2,950,682, 8-30-60, Cl. 103-11.
- Kimmel, Norman A., and J. P. Alden, to United States of America, Air Force. Rocket motor and method of operating same. 2,952,972, 9-20-60, Cl. 60-35.6.
- Kimmel, Richard L.: *See*—  
Wride, William J., and Kimmel. 2,953,557.
- Kimmel, William E., to Crompton & Knowles Corp. Pick and pick automatic loom. 2,929,411, 3-22-60, Cl. 139-232.
- Kimmel, William E., to Crompton & Knowles Corp. Loom with weft replenishing means and control therefor. 2,958,342, 11-1-60, Cl. 139-232.
- Kimmell, Richard T.: *See*—  
Strobel, Charles K., McMichael, and Kimmell. 2,943,488.
- Kimsey, Woodrow P., and W. L. Holmstrom, to Caterpillar Tractor Co. Anchors for concentric coil springs. 2,934,336, 4-26-60, Cl. 267-61.
- Kimura, Hiroichi: *See*—  
Tadano, Bunya, Morito, and Kimura. 2,928,004.
- Kimura, Senkichiro. Fishing-rod holder. 2,949,269, 8-16-60, Cl. 248-41.
- Kinard, William C.: *See*—  
Green, Max L., and Kinard. 2,953,389.
- Kinariwala, Bharat K., to Bell Telephone Laboratories, Inc. Active impedance branch. 2,933,703, 4-19-60, Cl. 33-80.
- Kincaid, James F., to Texaco Inc. Internal combustion engine. 2,958,313, 11-1-60, Cl. 123-32.
- Kincaid, Marshall M.: *See*—  
Gordon, Bernard M., and Kincaid. 2,962,214.
- Kinckiner, Allan F. Direct reading oscilloscope scale. 2,936,449, 5-10-60, Cl. 340-368.
- Kindel, Georg: *See*—  
Reuter, Franz G., and Kindel. 2,954,251.
- Kindel, Georg S.: *See*—  
Reuter, Franz G., Kindel, and Ulderup. 2,952,486.
- Kindel, Georg S., and F. G. Reuter, to Mobay Chemical Co. Door fastener. 2,954,254, 9-27-60, Cl. 292-340.
- Kinder, Floyd A., and E. E. Green, to United States of America, Navy. Airborne cinethedolite. 2,961,933, 11-29-60, Cl. 95-12.5.
- Kinderman, Walter J.: *See*—  
Yarnall, David R., and Kinderman. 2,951,496.
- Kinderman, Walter J., to Yarnall-Waring Co. Steam trap. 2,936,772, 5-17-60, Cl. 137-183.
- Kindler, Adolf, to Bohn & Kahler Motoren-und Maschinenfabrik Aktiengesellschaft. Ramming machine. 2,921,475, 1-19-60, Cl. 74-61.
- Kindorf, Orlan C. Concrete insert with swivel support for conduits or the like. 2,953,874, 9-27-60, Cl. 50-476.
- Kindred, Bob A., to Sierra Engineering Co. Flapper valve. 2,936,779, 5-17-60, Cl. 137-525.
- Kindred, Raymond L., to Phillips Petroleum Co. Analog to digital converter. 2,940,071, 6-7-60, Cl. 340-347.
- Kindred, Raymond L., to Phillips Petroleum Co. Mass spectrometer. 2,951,155, 8-30-60, Cl. 250-41.9.
- Kine, Benjamin B.: *See*—  
Matlin, Nathaniel A., and Kine. 2,923,653.
- McBurney, Charles H., Richter, and Kine. 2,933,479.
- Richter, George A., Jr., McBurney, and Kine. 2,933,460.
- Kine, Benjamin B., and N. A. Matlin, to Rohm & Haas Co. Bonded non-woven fibrous products and methods for making them. 2,931,749, 4-5-60, Cl. 154-101.
- King, Aden J., and V. A. Russell, to Olin Mathieson Chemical Corp. Preparation of borohydrides. 2,942,935, 6-28-60, Cl. 23-14.



- King, Albert, to British Insulated Callender's Cables Ltd. Microcrystalline petroleum wax impregnating composition for insulated electric cables. 2,956,036, 10-11-60, Cl. 260—28.5.
- King, Bertell W. Device for measuring inclinations. 2,946,131, 7-26-60, Cl. 33—214.
- King, Berton E. Power saw guide device with saw cut locator and attaching clamps. 2,942,633, 6-28-60, Cl. 143—6.
- King, Burdette M., to The Ohio Fuel Gas Co. Safety starting and stopping system of the pneumatic type for internal combustion engines. 2,931,166, 4-5-60, Cl. 60—16.
- King, Burnham W., and H. P. Tripp, to Diamond Alkali Co. Electrically conductive glass composition containing suboxides of titanium and method of making the same. 2,933,458, 4-19-60, Cl. 252—520.
- King, Burnham W., and A. K. Smalley, to Union Carbide Corp. Opaque glass. 2,946,704, 7-26-60, Cl. 117—129.
- King, Carl A., to The Kentucky Research Foundation. Occupant-controlled, self-propelled, obstruction-climbing vehicle. 2,931,449, 4-5-60, Cl. 180—8.
- King, Carl M.: *See—*  
Lovinggood, Martin G., and King. 2,923,023.
- King, Charles B.: *See—*  
Elman, Edward F., and King. 2,953,031.
- King, Charles B., and S. D. Stookey, to Corning Glass Works. Method of making a semicrystalline ceramic body. 2,960,801, 11-22-60, Cl. 49—77.
- King, Charles S., and R. N. Penny, to The Rover Co. Ltd. Fuel pump. 2,965,042, 12-20-60, Cl. 103—162.
- King, Clifford J.: *See—*  
Salzberg, Harold K., and King. 2,933,406.
- King, Dale F.: *See—*  
Pockman, Lloyd A., and King. 2,963,004.
- King, Donald M. Conveyor systems. 2,950,688, 8-30-60, Cl. 104—172.
- King, Edward H., R. W. Heine, and J. S. Schumacher, to The Hill & Griffith Co. Carbonaceous component for foundry molding sand. 2,920,970, 1-12-60, Cl. 106—38.5.
- King, Edward J., Jr., to Collins Radio Co. Device for rapidly unwinding excess wire storage. 2,934,281, 4-26-60, Cl. 242—4.
- King, Edward J., Jr., to Collins Radio Co. Mechanical movement for coil winding machine. 2,957,634, 10-25-60, Cl. 242—4.
- King, Edward L.: *See—*  
Fucinari, Angelo M., and King. 2,966,425.
- King, Elizabeth: *See—*  
King, George J. 2,939,637.
- King, Ellis G., and C. Adolphson, to Puget Sound Pulp and Timber Co. Drilling fluid composition and process. 2,935,473, 5-3-60, Cl. 252—8.5.
- King, Ellis G., and C. Adolphson, to Puget Sound Pulp and Timber Co. Process of improving the effectiveness of the components of spent sulfite liquor and the products thereof. 2,935,504, 5-3-60, Cl. 260—124.
- King, Elmore L. Mailing device. 2,963,806, 12-13-60, Cl. 40—65.
- King, Emmett T.: *See—*  
Valdi, Walter J., and King. 2,943,874.
- King, Fenton B., Jr., and The Sheffield Corp. Gaging apparatus. 2,937,451, 5-24-60, Cl. 33—174.
- King, Frank A.: *See—*  
Schlaak, Ervin, and King. 2,952,301.
- King, George E.: *See—*  
Giboney, Ray E., and King. 2,933,626.  
Smith, Joseph W., and King. 2,924,318.  
Smith, Joseph W., and King. 2,945,445.
- King, George J., deceased, by E. King, executrix. Lawn sprinkler. 2,939,637, 6-7-60, Cl. 239—387.
- King, George L.: *See—*  
Gilbert, Everett A., and King. 2,929,052.
- King, George R.: *See—*  
Jenkins, Herbert A. H., Freeman, and King. 2,955,061.
- King, Geo. W., Ltd.: *See—*  
Burrows, Arthur T. C. 2,920,503.  
Burrows, Arthur T. C. 2,926,771.  
Burrows, Arthur T. C. 2,940,401.  
Burrows, Arthur T. C. 2,943,580.  
Burrows, Arthur T. C. 2,957,969.
- King, Gerald H. Supporting frame for fluid tanks. 2,930,562, 3-29-60, Cl. 248—152.
- King, Harry M.: *See—*  
Fraula, William S., and King. 2,946,091.
- King, Howard L.: *See—*  
Mooneyham, James D., and King. 2,929,454.
- King, Joe F., and A. R. Hille. Carpet protector. 2,919,514, 1-5-60, Cl. 45—137.
- King, Joseph B. Pump. 2,938,466, 5-31-60, Cl. 103—44.
- King Kan Opener, Inc.: *See—*  
Nagy, John, James, and Martin. 2,964,763.
- King, Karl G. Attachment for phonographs. 2,958,529, 11-1-60, Cl. 274—47.
- King, Kenneth A.: *See—*  
Rice, Arthur V., and King. 2,920,156.
- King, Kenneth L., to United Aircraft Corp. Synchronous indicator. 2,964,662, 12-13-60, Cl. 310—162.
- King, Kenneth L., and J. C. Mathiesen, to United Aircraft Corp. Photoelectric drift angle and ground speed meter. 2,942,119, 6-21-60, Cl. 250—209.
- King, Kenneth K., to General Motors Corp. Universal joint centering device. 2,947,158, 8-2-60, Cl. 64—21.
- King, Kenneth O., and C. M. Melas, to The National Cash Register Co. Card readout system. 2,964,238, 12-13-60, Cl. 234—58.
- King, L. D. Percival: *See—*  
Hammond, R. Philip, and King. 2,929,767.
- King, L. D. Percival, to United States of America, Atomic Energy Commission. Catalytic recombiner for a nuclear reactor. 2,943,921, 7-5-60, Cl. 23—288.
- King, L. D. Percival, to United States of America, Atomic Energy Commission. Water boiler reactor. 2,961,391, 11-22-60, Cl. 204—193.2.
- King, Laurence F.: *See—*  
Eldib, Ibrahim A., and King. 2,948,674.
- King, Laurence F., and W. H. White, to Esso Research and Engineering Co. Process for removing acids with an ethylene glycol monoalkylamine ether. 2,956,946, 10-18-60, Cl. 208—263.
- King, Lawrence, to Pyramid Mfg. Co. Inc. Automatic cut-off apparatus for strip material having photoelectric control means. 2,939,354, 6-7-60, Cl. 83—165.
- King, Leonard T., to Electric & Musical Industries Ltd. Attenuators or suppressors for attenuating or suppressing undesired oscillations. 2,950,450, 8-23-60, Cl. 333—22.
- King, Louis T.: *See—*  
Jensen, Raymond W., King, and Bush. 2,948,265.
- King, Marvin K. Speed control device. 2,924,119, 2-9-60, Cl. 74—562.5.
- King, Merrill S. Station announcer. 2,928,196, 3-15-60, Cl. 40—86.
- King, Ralph B.: *See—*  
Christensen, Emil A., and King. 2,941,431.
- King, Ralph W., and D. J. Movsovic, to Shell Oil Co. Preparation of aluminum alkyls. 2,957,897, 10-25-60, Cl. 260—448.
- King, Richard J., and B. J. Schill, to J. I. Case Co. Adjustable hitch used for towing implements. 2,923,364, 2-2-60, Cl. 172—678.
- King, Robert E., and P. M. Cruse, to Hughes Aircraft Co. Automatic phase measuring system. 2,921,261, 1-12-60, Cl. 324—83.
- King, Robert L.: *See—*  
Glavan, Richard, and King. 2,952,898.
- King, Robert L., to Stephens-Adamson Mfg. Co. Method of making a rod end bearing. 2,952,901, 9-20-60, Cl. 29—149.5.
- King, Robert R.: *See—*  
Grant, Arthur F., and King. 2,925,156.
- King, Robert W.: *See—*  
McCrory, Rollin J., King, and Mark. 2,959,159.
- King, Rutledge F., C. D. Moak, and V. E. Parker, to United States of America, Atomic Energy Commission. Ion pulse generation. 2,956,169, 10-11-60, Cl. 250—84.5.
- King Sales & Engineering Co.: *See—*  
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- King-Seeley Corp.: *See—*  
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Bergsma, Rudolph. 2,928,958.  
Boddy, Leonard. 2,925,572.  
Boddy, Leonard. 2,947,979.  
Klug, Charles W. 2,944,209.  
Olson, Eugene E., and Trow. 2,923,104.  
Roberts, Benjamin K. 2,949,019.  
Young, Robert M. 2,923,156.
- King, Sidney L. Basket support. 2,964,200, 12-13-60, Cl. 211—108.
- King, Wayne J.: *See—*  
Boynton, Herbert H., Jr. 2,937,387.
- King, William D., and B. W. Roberts, to Westinghouse Electric Corp. Motor control apparatus. 2,965,821, 12-20-60, Cl. 318—7.
- King, William F., to General Motors Corp. Balancing organization. 2,947,172, 8-2-60, Cl. 73—462.
- King, William F., and K. E. Sihvonen, to General Motors Corp. Balancing device. 2,947,175, 8-2-60, Cl. 73—483.
- King, William H., V. L. Frampton, and A. M. Altschul, to United States of America, Agriculture. Treatment of cottonseed meals to remove residual pigments. 2,934,432, 4-26-60, Cl. 99—2.
- King, William H., and V. L. Frampton, to United States of America, Agriculture. Production of cottonseed meal of improved quality. 2,950,198, 8-23-60, Cl. 99—2.
- King, William H., Jr.: *See—*  
Beerbower, Alan, and King. 2,955,088.
- King, William R., to Phillips Petroleum Co. Carbon black wet pelleting process and apparatus. 2,949,349, 8-16-60, Cl. 23—314.
- King, William R., to Minneapolis-Honeywell Regulator Co. Right angle electrical connector. 2,954,541, 9-27-60, Cl. 339—61.
- Kingbach Tool Co., Inc.: *See—*  
Moser, Edward I. 2,955,612.
- Kingdon, Ralph H.: *See—*  
Stanback, Harris L., and Kingdon. 2,961,512.
- Kingery, Marion R. Fish bait containers. 2,935,858, 5-10-60, Cl. 62—371.
- Kingfisher-Bristol Co., The: *See—*  
Miller, Harry C., and Gregory. 2,921,572.  
Miller, Harry C., and Gregory. 2,933,798.
- Kingma, Gerben R., to The Hays Corp. Gas sampling device. 2,934,958, 5-3-60, Cl. 73—421.5.
- Kingma, Wouter G.: *See—*  
Boon, Edmund F., Vahl, and Kingma. 2,946,706.



- Kingsbury, Burton A., to Bell Telephone Laboratories, Inc. System for testing unattended repeaters. 2,951,128, 8-30-60, Cl. 179—175.31.
- Kingsbury, John P.: *See*—  
Barrett, Cedric A., and Kingsbury. 2,930,398.
- King-Seeley Corp.: *See*—  
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Nelson, Marcus, and Roberts. 2,952,141.  
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- Kingslake, Rudolf, and K. Tolle, to Eastman Kodak Co. Anamorphosing lens systems for use in convergent light. 2,933,017, 4-19-60, Cl. 88—57.
- Kingsland Drum & Barrel Co. Inc.: *See*—  
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- Kingsley, David G.: *See*—  
Rice, Richard L., Hogan, and Kingsley. 2,955,623.
- Kingsley, David G., to Stapling Machines Co. Loop fastener machine control apparatus. 2,947,329, 8-2-60, Cl. 140—93.
- Kingsley, David G., to Stapling Machines Co. Prong guiding means in machines for forming loop fasteners on wirebound boxes. 2,963,050, 12-6-60, Cl. 140—93.
- Kingsley, David G., and J. P. Greene, to Stapling Machines Co. Slat feeder. 2,924,357, 2-9-60, Cl. 221—224.
- Kingsley, Lewis A. Double sided wire marking machine. 2,925,773, 2-23-60, Cl. 101—11.
- Kingsley, Lewis A. Air operated stamping machine. 2,960,024, 11-15-60, Cl. 101—27.
- Kingsley, Lewis A. Type holding head for tape marking machine. 2,961,950, 11-29-60, Cl. 101—381.
- Kingsley, Lewis A. Imprinting of perfluorocarbon polymers. 2,964,867, 12-20-60, Cl. 41—26.
- Kingston Electronic Corp.: *See*—  
Russell, Allan D. 2,946,001.  
Russell, Allan D. 2,946,002.
- Kingston, Joseph G., and R. F. Schwartz, to The Glidden Co. Emulsion copolymerizate of heat bodied glyceride oils and vinylic monomers. 2,926,151, 2-23-60, Cl. 260—23.
- Kingston Products Corp.: *See*—  
Bowman, Joe. 2,940,333.  
Drury, Thomas W. 2,966,278.  
Kelly, George M. 2,946,079.  
Lorimer, John D. 2,935,720.  
Weber, Nelson H., and Dull. 2,959,761.
- Kinkaide, Ross B., to The Adlake Co. Mercury switch with overload protection. 2,935,587, 5-3-60, Cl. 200—112.
- Kinkead, Robert M., and M. M. Moorhead, Jr., to Daytronic Corp. Digital output. 2,936,447, 5-10-60, Cl. 340—347.
- Kinkel, John F., to Bell & Howell Co. High efficiency direct current power amplifier. 2,936,345, 5-10-60, Cl. 179—171.
- Kinley, John C.: *See*—  
Kinley, Myron M. and J. C., and Knust. 2,937,854.  
Potter, Rossiter R., and Anderson. 2,924,434.
- Kinley, John C.,  $\frac{1}{2}$  to M. M. Kinley. Internal pipe calliper ing tools. 2,933,819, 4-26-60, Cl. 33—178.
- Kinley, M. M., Co.: *See*—  
Potter, Rossiter R., and Anderson. 2,924,434.
- Kinley, Myron M.: *See*—  
Kinley, John C. 2,933,819.
- Kinley, Myron M. Apparatus for controlling fluid circulation. 2,922,479, 1-26-60, Cl. 166—224.
- Kinley, Myron M. and J. C., and B. Knust, to said M. M. and J. C. Kinley. Safety joints. 2,937,854, 5-24-60, Cl. 255—28.
- Kinnard, Isaac F.: *See*—  
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- Kinnavy, James W., to Wallace A. Erickson & Co. Treatment of tobacco smoke. 2,920,416, 1-12-60, Cl. 43—208.
- Kinnavy, James W., to Wallace A. Erickson & Co. Filtration of tobacco smoke. 2,920,629, 1-12-60, Cl. 131—10.
- Kinnavy, James W., to Wallace A. Erickson & Co. Tobacco smoke filter. 2,920,630, 1-12-60, Cl. 131—10.
- Kinnear Mfg. Co., The: *See*—  
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- Kinneman, William P., Jr.: *See*—  
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- Kinney, David B.: *See*—  
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- Kinney, Eugene M.: *See*—  
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- Kinney, Frank N. Kite accessory. 2,946,544, 7-26-60, Cl. 244—155.
- Kinney, Le Baron W., to General Dynamics Corp. Solid carbon dioxide handling apparatus and system. 2,939,255, 6-7-60, Cl. 53—3.
- Kinney, Lloyd J., to Union Oil Co. of California. Well drilling process and apparatus. 2,966,221, 12-27-60, Cl. 175—5.
- Kinney, S. P. Engineers: *See*—  
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Kinney, Selwyne P., Garrigan, Clarke, Fuhs, and Kukich. 2,956,683.  
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- Kinney, Selwyne P., C. J. Garrigan, W. W. Clarke, and H. B. Carr, to S. P. Kinney Engineers, Inc. Tight closing butterfly valve. 2,934,310, 4-26-60, Cl. 251—163.
- Kinney, Selwyne P., C. J. Garrigan, W. W. Clarke, J. S. Fuhs, and G. Kukich, to S. P. Kinney Engineers, Inc. Water strainer. 2,956,683, 10-18-60, Cl. 210—330.
- Kinney, Theodore S. Vented storage tank. 2,928,659, 3-15-60, Cl. 257—34.
- Kinney, Thomas D.: *See*—  
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- Kinniburgh, Donald P., to The Crescent Co. Inc. Cable construction. 2,924,141, 2-9-60, Cl. 87—9.
- Kinnicutt, Roger, Jr., and W. J. Hill, to Morgan Construction Co. Torque equalizer. 2,932,381, 4-12-60, Cl. 198—203.
- Kinoshita, Kazumoto: *See*—  
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- Kinsella, James A.: *See*—  
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- Kinsella, John E. Grain distributor with adjustable funnel. 2,955,828, 10-11-60, Cl. 275—15.
- Kinsey, Claude J., to General Motors Corp. Wheel balancing means. 2,955,876, 10-11-60, Cl. 301—5.
- Kinsey, Ronald W. S., to Siemens Edison Swan Ltd. Automatic switching systems. 2,925,474, 2-16-60, Cl. 179—22.
- Kinsey, Walter C. TV-party snack server. 2,944,694, 7-12-60, Cl. 220—17.
- Kinsinger, Frank E.: *See*—  
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- Kinsman, Frank W.: *See*—  
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- Kinsman, George H., N. N. Hellman, and D. L. Baker, to Basic Products Corp. Beer and ale method of preparing the same. 2,938,795, 5-31-60, Cl. 99—48.
- Kinsman, George H., and N. N. Hellman, to Basic Products Corp. Malt liquor and method of preparing the same. 2,948,616, 8-9-60, Cl. 99—48.
- Kinsman, George H., and N. N. Hellman, to Basic Products Corp. Art of producing aqueous based liquid food substances. 2,964,410, 12-13-60, Cl. 99—151.
- Kinter, Mark R.: *See*—  
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- Kintish, Irving L.: *See*—  
Marhefka, Andrew J., and Kintish. 2,920,413.
- Kinzelman, Joseph, to Gasway Corp. Skewed roller type tensioning for ironing machines. 2,940,194, 6-14-60, Cl. 38—49.
- Kinzer, James B.: *See*—  
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- Kinzie, Ora A., and H. J. Watts, to Continental Oil Co. Rotary conduit seal. 2,964,340, 12-13-60, Cl. 286—11.14.
- Kiper, Gerd, to Agfa Aktiengesellschaft. Spring power mechanism. 2,954,099, 9-27-60, Cl. 185—38.
- Kipnis, Daniel D.: *See*—  
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- Kipp, Calvin P., and M. B. and H. M. Cole, to Federal Electric Products Co. Automatic riveting apparatus. 2,920,783, 1-12-60, Cl. 218—5.
- Kipp, Louis, to American Steel Foundries. Means for cutting threads. 2,921,490, 1-19-60, Cl. 82—34.
- Kippenhan, Dean O.: *See*—  
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- Kiraly, James: *See*—  
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- Kiraly, Karl L. Multilens transmission for range finder. 2,925,762, 2-23-60, Cl. 95—44.
- Kirberg, Emil J., to Gulf Oil Corp. Hydro-treating a blend of straight-run fuel oil and thermally cracked gasoline. 2,951,807, 9-6-60, Cl. 208—217.
- Kirby, Ben H., D. P. Bernard, and J. S. Milazzo, to Pittsburgh Chemical Co. Acid oasting phthalocyanines. 2,964,531, 12-13-60, Cl. 260—314.5.
- Kirby, Henry L.: *See*—  
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- Kirby, Henry L., to John B. Stetson Co. Hat shrinking machine. 2,930,101, 3-29-60, Cl. 28—8.
- Kirby, Judson T.,  $\frac{1}{2}$  to W. Kramer and  $\frac{1}{2}$  to E. Kohler. Vacuum cleaner. 2,951,553, 9-6-60, Cl. 183—58.
- Kirby, Thomas P.: *See*—  
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- Kirby, Woodrow P., and J. E. Meyers, to The Magnavox Co. Telescoping dipole antenna. Re. 24,866, 9-6-60, Cl. 343—901.
- Kirch, James E., and W. H. Minshull, Jr., to Motorola, Inc. Distance measuring apparatus. 2,938,202, 5-24-60, Cl. 343—7.5.
- Kirchberger, Michael. Folder packer. 2,933,226, 4-19-60, Cl. 225—13.
- Kirche, Robert M. Mixing attachment for faucets. 2,932,305, 4-12-60, Cl. 137—1.
- Kircher, Haetmann J., and S. Lehrer, to United States of America, Air Force. Rocket engine injector. 2,928,236, 3-15-60, Cl. 60—35.6.
- Kircher, Paul J., to Landers, Frary & Clark. Coffee maker. 2,930,032, 3-22-60, Cl. 340—252.
- Kircher, Paul J., to Landers, Frary & Clark. Thermostatic switching device. 2,942,082, 6-21-60, Cl. 200—138.
- Kircher, Paul J., to Landers, Frary & Clark. Protective device for appliances. 2,952,759, 9-13-60, Cl. 200—136.5.
- Kircher, Paul J., to Landers, Frary & Clark. Thermostat for coffee makers. 2,952,760, 9-13-60, Cl. 200—139.
- Kirchhofer, Hans U. Turret lathe. 2,961,739, 11-29-60, Cl. 29—46.
- Kirchhoff, Kurt. Close-up attachment for photographic cameras. 2,936,689, 5-17-60, Cl. 95—44.



- Kirchler, Lewis, to International Harvester Co. Hydraulic apparatus for actuating material moving means. 2,927,389, 3-8-60, Cl. 37-144.
- Kirchner, Carl O., to Leggett & Platt, Inc. Helical spring winding machine with terminal eye forming means. 2,937,688, 5-24-60, Cl. 153-65.
- Kirchner, Ernest: *See—*
- Kirchner, William R. and E. 2,937,705.
- Kirchner, George J., and A. F. Kritscher, to United States Steel Corp. Method and apparatus for testing pipe. 2,947,165, 8-2-60, Cl. 73-37.
- Kirchner, Norbert, to North American Philips Co., Inc. Relay control circuit arrangement. 2,956,206, 10-11-60, Cl. 315-156.
- Kirchner, William R. and E. Farm implement bar. 2,937,705, 5-24-60, Cl. 172-655.
- Kirchoff, Kenneth P., and R. F. Shepherd, to General Motors Corp. Power shifting multi-step transmissions. 2,964,962, 12-20-60, Cl. 74-472.
- Kirk, David B., to Moore Products Co. Pneumatic dimension gages. 2,953,917, 9-27-60, Cl. 73-37.5.
- Kirk, Eric W.: *See—*
- Matthews, Robert, and Kirk. 2,965,849.
- Kirk, Harold L., to Meier Electric and Machine Co., Inc. Fan housing and protective grill. 2,950,859, 8-30-60, Cl. 230-259.
- Kirk Industries Inc.: *See—*
- Kirkorian, Kirk C. 2,964,921.
- Kirk, James B. Chance selector device for determining relative positions. 2,942,887, 6-28-60, Cl. 273-139.
- Kirk, James C., and E. L. Miller, to Continental Oil Co. Preparation of stable alkaryl sulfonates. 2,928,867, 3-15-60, Cl. 260-505.
- Kirk, James C., and E. L. Miller, to Continental Oil Co. Purification of alkyl aryl hydrocarbons. 2,932,677, 4-12-60, Cl. 260-674.
- Kirk, Morris P., and Son, Inc.: *See—*
- Larrieu, Leslie J. 2,940,846.
- Kirk Patrick, Elizabeth M., to The Garrett Corp. Production of liquid oxygen from atmospheric air. 2,960,834, 11-22-60, Cl. 62-7.
- Kirk, Roger E., to The Baldwin Piano Co. Electroacoustical transducer. 2,958,740, 11-1-60, Cl. 179-139.
- Kirk, Roy, and J. L. Robinson, to The Dow Chemical Co. Anode for magnesium primary cell. 2,952,727, 9-13-60, Cl. 136-120.
- Kirk, Russell D.: *See—*
- Schulman, James H., and Kirk. 2,937,999.
- Kirk, William M., deceased; V. E. Scott, executrix, to Old Scratch, Inc. Applicator supports. 2,956,543, 10-18-60, Cl. 119-157.
- Kirka, Chester, to The Machlett Laboratories, Inc. Universal bases for thermionic valve tubes. 2,958,006, 10-25-60, Cl. 315-58.
- Kirkby, Albert H., to The Babcock & Wilcox Co. Apparatus for cleaning the surfaces of heat exchange means. 2,946,569, 7-26-60, Cl. 257-1.
- Kirkby, Albert H., to The Babcock & Wilcox Co. Apparatus for cleaning heat exchange means. 2,949,282, 8-16-60, Cl. 257-1.
- Kirkeby, David H., to L. D. Dunn. Lap tray-container. 2,924,372, 2-9-60, Cl. 229-34.
- Kirkham, Charles B.: *See—*
- Rhodes, Walter C., and Kirkham. 2,928,513.
- Kirkham, Don, and J. E. Adams, to Iowa State College Research Foundation, Inc. Apparatus for measuring erodibility, run-off, infiltration and other physical properties of soil in place. 2,923,148, 2-2-60, Cl. 73-86.
- Kirkham, Don, and B. L. Grover, to Iowa State College Research Foundation, Inc. Apparatus for measuring fluid permeability of porous materials. 2,949,766, 8-23-60, Cl. 73-38.
- Kirkham, Hall, to The New York Air Brake Co. Valve. 2,956,577, 10-18-60, Cl. 137-101.
- Kirkhart, Dale W., and T. Petree. Self-cleaning bootless grain elevator. 2,919,792, 1-5-60, Cl. 198-140.
- Kirkhof Mfg. Corp.: *See—*
- Girton, Preston E. Re. 24,838.
- Taylor, Roy M., and Girton. 2,929,915.
- Kirkland, Earl V.: *See—*
- Knight, Harmon M., and Kirkland. 2,945,907.
- Kirkland, Earl V., to The American Oil Co. Preparation of polyesters. 2,939,874, 6-7-60, Cl. 260-410.6.
- Kirkland, Loyal: *See—*
- Tryon, David H. 2,947,468.
- Kirkland, Robert E.: *See—*
- Beebe, John N., and Kirkland. 2,964,729.
- Kirkman, Peter J., and M. S. Tisler, to Libbey-Owens-Ford Glass Co. Method and apparatus for polishing glass sheets. 2,923,108, 2-2-60, Cl. 51-263.
- Kirkorian, Kirk C., to Kirk Industries Inc. Absorption refrigerating system. 2,964,921, 12-20-60, Cl. 62-110.
- Kirkpatrick, Claude L.: *See—*
- Carruthers, Walter W., and Kirkpatrick. 2,948,970.
- Kirkpatrick, Willard H., to Visco Products Co. Demulsifying compositions and process. 2,943,061, 6-28-60, Cl. 252-342.
- Kirkpatrick, Willard H., to Visco Products Co. Polyoxo-alkylene esters of tall oil rosin acids. 2,950,272, 8-23-60, Cl. 260-104.
- Kirkpatrick, Willard H., to Visco Products Co. Surface active substances of ether ester class. 2,950,299, 8-23-60, Cl. 260-407.
- Kirkpatrick, Willard H., to Visco Products Co. Surface active substances. 2,950,310, 8-23-60, Cl. 260-475.
- Kirkpatrick, Willard H., to Visco Products Co. Surface active polyoxypropylene esters. 2,950,313, 8-23-60, Cl. 260-484.
- Kirkpatrick, Willard H., to Visco Products Co. Polyoxo-propylene derivatives of hydroxy acid compounds. 2,965,658, 12-20-60, Cl. 260-404.
- Kirkpatrick, Willard H., and A. Walker, to Visco Products Co. Chemical compositions. 2,925,429, 2-16-60, Cl. 260-404.8.
- Kirkpatrick, Willard H., and V. L. Seale, to Visco Products Co. Process of inhibiting corrosion and corrosion inhibiting compositions. 2,935,474, 5-3-60, Cl. 252-8.55.
- Kirkpatrick, Willard H., and V. L. Seale, to Visco Products Co. Method of inhibiting corrosion. 2,941,943, 6-21-60, Cl. 252-8.55.
- Kirkpatrick, Willard H., and V. L. Seale, to Visco Products Co. Composition for conditioning surfaces containing contaminating water and method of using the same. 2,946,747, 7-26-60, Cl. 252-8.55.
- Kirkpatrick, William E.: *See—*
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- Kirkpatrick, William E., and R. W. Sears, to Bell Telephone Laboratories, Inc. Dual picture direct view storage tube. 2,929,957, 3-22-60, Cl. 315-12.
- Kirkpatrick, Wylie C., to W. R. Grace & Co. Packaging. 2,956,672, 10-18-60, Cl. 206-46.
- Kirkwood, Loren R.: *See—*
- Clay, Burton R., and Kirkwood. 2,943,218.
- Kirsch Co.: *See—*
- Light, Earl D. 2,930,072.
- Kirsch, Francis W., and S. W. Weller, to Houdry Process Corp. Selective hydrogenation of diolefins with copper chromite catalyst. 2,964,579, 12-13-60, Cl. 260-677.
- Kirsch, Herbert S., M. Goldberg, and G. N. Greenspan. Fastening clip. 2,960,737, 11-22-60, Cl. 24-85.
- Kirsch, Howard A.: *See—*
- Jordan, Terence B., and Kirsch. 2,932,615.
- Kirschbaum, Hans, to R. Graf & Co., Sueddeutsche Catgut-fabrik. Method of producing catgut threads and strings. 2,940,247, 6-14-60, Cl. 57-160.
- Kirschbaum, Herbert S., to United States of America, Navy. Forbidden rotation reversing, position control servosystem. 2,938,154, 5-24-60, Cl. 318-29.
- Kirschenlohr, Werner: *See—*
- Kuhn, Richard, and Kirschenlohr. 2,922,783.
- Kirschner, Leon I.: *See—*
- Kirschner, Louis A., and L. I. 2,965,127.
- Kirschner, Louis A., and L. I. Drain trap. 2,965,127, 12-20-60, Cl. 137-424.
- Kirscht, Arthur A., and D. J. Klee, to General Electric Co. Current collector for an electric arc furnace. 2,942,048, 6-21-60, Cl. 13-17.
- Kirshenbaum Isidor: *See—*
- Banes, Fred W., Kirshenbaum, and Bartlett. 2,920,056.
- Lemiszka, Theodore, Mirviss, and Kirshenbaum. 2,948,713.
- Lewis, Warren K., Jr., and Kirshenbaum. 2,943,039.
- Kirshenbaum, Isidor, T. Lemiszka, and J. F. Johnson, to Esso Research and Engineering Co. Method of oxidizing aluminum alkyls. 2,921,949, 1-19-60, Cl. 260-448.
- Kirshenbaum, Isidor, A. H. Gleason, and V. L. Hughes, to Esso Research and Engineering Co. Radiochemical treatment of drying oils. 2,936,275, 5-10-60, Cl. 204-158.
- Kirshenbaum, Isidor, J. H. Bartlett, and O. C. Sloterbeck, to Esso Research and Engineering Co. Paint driers. 2,955,949, 10-11-60, Cl. 106-264.
- Kirshenbaum, Isidor, J. A. Hinlicky, E. Arundale, and R. M. Hill, to Esso Research and Engineering Co. Hydrocracking of a sulfur containing gas oil with a platinum on eta alumina catalyst. 2,958,651, 11-1-60, Cl. 208-112.
- Kirshenbaum, Isidor, J. A. Hinlicky, E. Arundale, and R. M. Hill, to Esso Research and Engineering Co. Hydrocracking of shale oils with a platinum-on-eta-alumina catalyst composite. 2,958,652, 11-1-60, Cl. 208-112.
- Kirshenbaum, Isidor, A. W. Langer, Jr., and E. Arundale, to Esso Research and Engineering Co. Process for hydrodesulfurization and hydrogenation with platinum-eta alumina catalyst. 2,965,564, 12-20-60, Cl. 208-217.
- Kirshner, Abraham S., 1/4 to L. E. Kibler. Mushroom trimming machine. 2,936,013, 5-10-60, Cl. 146-81.
- Kirst, Philip J., to Poor & Co. Rail joint insulation protection system. 2,928,605, 3-15-60, Cl. 238-152.
- Kirstahler, Alfred: *See—*
- Strauss, Wennemar, Kirstahler, Gundel, and Haas. 2,937,978.
- Strauss, Wennemar, Kirstahler, Gundel, and Willmund. 2,956,956.
- Kirstahler, Alfred, and K. Goldann, to Bohme Fettchemie G.m.b.H. Substituted amino-carboxylic acid amides and method of making the same. 2,921,960, 1-19-60, Cl. 260-534.
- Kirwan, John O.: *See—*
- Wallace, Charles F., and Kirwan. 2,929,393.
- Kish, Arnold C. Beverage dispensing device. 2,955,729, 10-11-60, Cl. 222-400.7.
- Kish, Arthur S.: *See—*
- Ziherl, Frank A., Kish, and Hingson. 2,944,546.
- Ziherl, Frank A., Kish, and Hingson. 2,944,547.
- Kish, Nick W.: *See—*
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- Kishel, Joseph F.: *See*—  
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- Kishi, Hajime J.: *See*—  
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- Kissel, Roland, to Institut de Recherches de la Siderurgie. Pyrometer of the suction type. 2,923,755, 2-2-60, Cl. 136-4.
- Kissinger, Charles W.: *See*—  
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- Kissinger, Richard D., and R. F. Maile, to Radio Corp. of America. Glass beading mechanism for electron guns. 2,950,568, 8-30-60, Cl. 49-1.
- Kissinger, Stanley P. Emergency brake controlling apparatus. 2,949,171, 8-16-60, Cl. 188-106.
- Kisteneich, Heinz: *See*—  
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- Kister, Thomas L., to Texaco Inc. Electrical logging system for exploring subsurface formations. 2,965,838, 12-20-60, Cl. 324-1.
- Kistler, Roland D., to Lear, Inc. Summing network. 2,942,124, 6-21-60, Cl. 307-88.5.
- Kistler, Samuel S., to Norton Co. Grinding machine. 2,920,026, 1-5-60, Cl. 204-218.
- Kistner, Herman H. Valve seat and sealing valve unit. 2,936,777, 5-17-60, Cl. 137-454.5.
- Kistner, Merrill M., and E. G. Tesmer, to Steam Iron Corp. Steam iron. 2,952,086, 9-13-60, Cl. 38-77.
- Kita, Donald A.: *See*—  
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- Kita, Donald A., to Chas. Pfizer & Co., Inc. Preparation of glutamic acid by *aspergillus terreus*. 2,921,002, 1-12-60, Cl. 195-35.
- Kita, Donald A., to Chas. Pfizer & Co., Inc. Oxygenation of steroids by rhodospirillum. 2,936,264, 5-10-60, Cl. 195-51.
- Kitchen Master Appliances, Inc.: *See*—  
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- Kitchens, Clyde T.: *See*—  
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- Kitchens, Lee G., and B. Cornellison, to Texas Instruments Inc. Transistor devices. 2,937,962, 5-24-60, Cl. 148-33.
- Kitrell, R. L. Welding apparatus and flexible dam for use therewith. 2,941,067, 6-14-60, Cl. 219-125.
- Kitselman, Harry L., to Indiana Steel & Wire Co., Inc. Conductor support. 2,965,701, 12-20-60, Cl. 174-164.
- Kitson, Robert E., and C. E. Reese, to E. I. du Pont de Nemours and Co. Process for elongating a synthetic resin structure. 2,931,068, 4-5-60, Cl. 18-48.
- Kitson, Robert E., and C. E. Reese, to E. I. du Pont de Nemours and Co. Process of preparing spontaneously extensible structures. 2,952,879, 9-20-60, Cl. 18-48.
- Kittelberger, James E., J. P. McElrath, and F. Wahl, to Western Electric Co., Inc. Optical gaging system. 2,958,254, 11-1-60, Cl. 88-14.
- Kitterman, Donald M.: *See*—  
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- Kittler, Milton J., M. F. Sterner, and K. S. Johnson, to Holley Carburetor Co. Ignition distributor. 2,947,297, 8-2-60, Cl. 123-117.
- Kittredge, George D., to Phillips Petroleum Co. Method of operating continuous combustion type power plants. 2,947,138, 8-2-60, Cl. 60-35.4.
- Kittredge, George D., to Phillips Petroleum Co. Method for producing naphthenes. 2,956,942, 10-18-60, Cl. 204-162.
- Kittredge, Raymond E., to General Precision, Inc. Simulated aircraft inclinometer instrument. 2,935,795, 5-10-60, Cl. 35-12.
- Kitz, Norbert, J. G. Lloyd, and H. L. Mansford, to Bell Punch Co. Ltd. Indicating devices. 2,954,507, 9-27-60, Cl. 315-135.
- Kitzul, Harry D. Colostomy appliance. 2,931,353, 4-5-60, Cl. 128-1.
- Kivari, Arthur M., and S. I. Bousman, to Process Engineers, Inc. Removal of grit from sewage. 2,935,201, 5-3-60, Cl. 210-519.
- Kivela, Stanley E. Drip tray for toilet tank. 2,921,319, 1-19-60, Cl. 4-10.
- Kivett, Jerome S., and W. L. McDaniel, to J. S. Kivett. Construction unit having marginal interconnecting means. 2,962,133, 11-29-60, Cl. 189-36.
- Kiyasu, Zenichi, K. Hanawa, S. Katsunuma, N. Ikeno, and T. Fukuoka, to Nippon Telegraph & Telephone Public Corp. Dial impulse register. 2,952,742, 9-13-60, Cl. 179-18.
- Kiyasu, Zen-iti: *See*—  
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- Kiyasu, Zen-iti, H. Uno, S. Oshima, and H. Enomoto, to Kokusai Denshin Denwa Kabushiki Kaisha. Apparatus for the binary digital coding of electric signals. 2,928,053, 3-8-60, Cl. 332-11.
- Kizaar, Arthur J., to General Electric Co. X-ray apparatus. 2,966,588, 12-27-60, Cl. 250-57.
- Kizer, Ira D. Trap-type fish hook. 2,948,985, 8-16-60, Cl. 43-43.4.
- Kjellberg, Sven A.: *See*—  
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- Kjellstrom, Elving J., to Wisconsin Mold & Tool Co., Inc. Trays for automobiles and other vehicles. 2,961,279, 11-22-60, Cl. 311-22.
- Kjellstrom, John M.: *See*—  
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- Klaas, Nicholas P., G. M. Ide, B. Stricklin, and J. A. Brown, to Minnesota Mining & Mfg. Co. Lost circulation materials. 2,935,472, 5-3-60, Cl. 252-8.5.
- Klaassen, Anne: *See*—  
Ensink, Johannes, and Klaassen. 2,931,986.
- Klaassen, Hendrik, and W. Daane, to Lips N.V. Adjusting mechanism for adjusting the pitch of the blades of a marine propeller. 2,946,317, 7-26-60, Cl. 121-38.
- Klaber, George B., to ACF Industries, Inc. Float valve. 2,937,014, 5-17-60, Cl. 261-72.
- Klach, Stanley J.: *See*—  
Bernier, Robert G., Berni, and Klach. 2,939,762.
- Klafke, Alfons, to Lindauer Dornier G.m.b.H. Stop bracket device in a loom for weaving. 2,924,249, 2-9-60, Cl. 139-347.
- Klager, Karl: *See*—  
Frankel, Milton B., and Klager. 2,933,518.
- Vanneman, Clinton R., and Klager. 2,928,866.
- Klager, Karl, to Aerojet-General Corp. Nitroisocyanates. 2,923,726, 2-2-60, Cl. 260-453.
- Klager, Karl, to Aerojet-General Corp. Nitro-substituted lac-tams. 2,933,491, 4-19-60, Cl. 260-239.3.
- Klager, Karl, to Aerojet-General Corp. Gem-dinitro amino acids. 2,940,997, 6-14-60, Cl. 260-534.
- Klager, Karl, to Aerojet-General Corp. 9,10-endo-nitroethyl-ene anthracene. 2,945,892, 7-19-60, Cl. 260-645.
- Klager, Karl, to Aerojet-General Corp. Gem-dinitro carbam-ates. 2,955,132, 10-4-60, Cl. 260-482.
- Klages, John W., to The Columbus Auto Parts Co. Collaps-ible shelter. 2,928,404, 3-15-60, Cl. 135-4.
- Klahn, William K., and R. W. Neupert, to United States Steel Corp. Grapple. 2,946,618, 7-26-60, Cl. 294-67.
- Klair, Howard P. Fuze for artillery shell. 2,923,242, 2-2-60, Cl. 102-78.
- Klamm, Carl E., to Parker-Hannifin Corp. Hand tool tube bender. 2,927,490, 3-8-60, Cl. 81-15.
- Klamm, Carl E., to Parker-Hannifin Corp. Tube clamping means for tube bending apparatus. 2,938,565, 5-31-60, Cl. 153-40.
- Klamm, Carl E., and D. T. Boody, to Parker-Hannifin Corp. Automatic tank filling device. 2,938,550, 5-31-60, Cl. 141-215.
- Klamp, Paul, to Mechanical Handling Systems, Inc. Over-head truck pusher conveyor. 2,949,862, 8-23-60, Cl. 104-88.
- Klamp, Paul, and R. Krammer, to Mechanical Handling Systems, Inc. Sub-floor conveyor system. 2,965,043, 12-20-60, Cl. 104-88.
- Klancnik, Adolph V. Dashpot for machine tools. 2,954,851, 10-4-60, Cl. 188-97.
- Klang, Robert S., H. B. Hindin, and W. H. Hulswit, Jr., to United States Rubber Co. Equipotential wire breaker. 2,930,426, 3-29-60, Cl. 152-361.
- Klank, Walter C., P. R. Hughes, and W. J. Neuberg, Jr., to United Aircraft Products, Inc. Tank for liquid circulating system of vehicles. 2,942,610, 6-28-60, Cl. 137-43.
- Klank, Walter C., Jr.: *See*—  
Hughes, Paul R., and Klank. 2,943,841.
- Klank, Walter C., Jr., to United Aircraft Products, Inc. Liquid storage tank. 2,942,612, 6-28-60, Cl. 137-43.
- Klank, Walter C., Jr., and P. R. Hughes, to United Aircraft Products, Inc. Vented liquid storage tank with priority system of supply. 2,942,611, 6-28-60, Cl. 137-43.
- Klapp, Arnold, and B. Zellerhoff, to Koppers Co., Inc. Apparatus for gasification of finely divided solid or liquid fuels. 2,919,980, 1-5-60, Cl. 48-63.
- Klapper, John J., and C. C. Smith, Jr., to General Electric Co. Wire twisting machine. 2,944,380, 7-12-60, Cl. 57-34.
- Klar, John, and M. L. Kuniholm, to Heald Machine Co. Grinding machine. 2,924,913, 2-16-60, Cl. 51-88.
- Klar, Robert L., Jr.: *See*—  
Hill, Earl R., and Klar. 2,949,544.
- Klas, Harold W.: *See*—  
Glennon, James B., Park, Estes, and Klas. 2,941,493.
- Klasek, Frank A.: *See*—  
Cihlar, Anthony J., and Klasek. 2,928,453.
- Klasens, Hendrik A.: *See*—  
Cox, Anna P. M., Hoekstra, and Klasens. 2,965,579.
- Diemer, Gesinus, and Klasens. 2,922,892.
- Elings, Garnt A., Koelewijn, Verweij, and Klasens. 2,924,737.
- Klasens, Hendrik A., and H. J. M. Joormann, to North American Philips Co., Inc. Electroluminescent element. 2,964,666, 12-13-60, Cl. 313-108.
- Klasing, Charles L., Jr., to Klasing Hand Brake Co. Sealed non-spin hand brake mechanism. 2,954,107, 9-27-60, Cl. 192-16.
- Klasing Hand Brake Co.: *See*—  
Klasing, Charles L., Jr. 2,954,107.
- Sale, William H. 2,962,326.
- Klassen, Edward G.: *See*—  
Klassen, E. J., and E. G. 2,934,062.
- Klassen, Edward J., and E. G. Therapeutic vibrator. 2,934,062, 4-26-60, Cl. 128-33.
- Klassen, John G.: *See*—  
Baker, Roy B., and Klassen. 2,923,073.
- Klatt, John O.: *See*—  
Cunningham, Fred A., Klatt, Brown, and Slovacek. 2,934,001.



- Klatt, Martin C.: *See*—  
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- Klaue, Hermann. Disc brake, more particularly for motor vehicles. 2,930,452, 3-29-60, Cl. 188-72.
- Klauer, Walter E. Snow sweeper. 2,941,223, 6-21-60, Cl. 15-79.
- Klauke, Erich, and O. Bayer.  $\frac{1}{2}$  to Farbenfabriken Bayer Aktiengesellschaft, and  $\frac{1}{2}$  to Mobay Chemical Co. Condensation products of carbamic acid esters. 2,946,768, 7-26-60, Cl. 260-65.
- Klaum, Henry. Batter board. 2,934,826, 5-3-60, Cl. 33-1.
- Klaus, Ernst M.: *See*—  
Pleigten, Max G., and Klaus. 2,949,656.
- Klaue, Karl, and F. A. Grupe, Sr., to American Can Co. Apparatus for applying tear card to inner flap of wrapped package. 2,934,870, 5-3-60, Cl. 53-73.
- Klauser, Hans: *See*—  
Reinhard, Louis, and Klauser. 2,931,035.  
Reinhard, Louis, and Klauser. 2,936,452.
- Klauser, Hans, to Albiwerk Zurich A.G. Radar directional antenna assembly. 2,945,229, 7-12-60, Cl. 343-754.
- Klausmann, Milton H., to Seal-Spout Corp. Container and combined cover and pouring spout. 2,923,445, 2-2-60, Cl. 222-531.
- Klausmann, Milton H., H. J. Brucker, and R. P. Von Culin, to Seal-Spout Corp. Combined container and measuring spout. 2,943,769, 7-5-60, Cl. 222-364.
- Klauss, Ralph E., and J. W. Ward, to Eastman Kodak Co. Spring driven roller means for removing cut work from cutting die. 2,928,303, 3-15-60, Cl. 83-129.
- Klaybor, Leonard V., P. R. Borneman, and D. L. Byrne, to Allegheny Ludlum Steel Corp. High temperature bearing alloys. 2,934,430, 4-26-60, Cl. 75-126.
- Klayer, Fred W.: *See*—  
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- Klebe, Carl H., to P. B. Morrissy. Automatic sliding lock. 2,923,665, 2-2-60, Cl. 287-58.
- Klebe, Hans: *See*—  
Schuler, Wilhelm A., and Klebe. 2,934,533.
- Klecki, John J. Painter aid. 2,952,863, 9-20-60, Cl. 15-248.
- Kleczeck, Walter S., to United States of America, Army. Pressure regulator modification. 2,941,543, 6-21-60, Cl. 137-505.18.
- Klee, David J.: *See*—  
Carr, Victor H., Frogge, and Klee. 2,942,049.  
Carr, Victor H., Klee, and Krivanek. 2,942,138.  
Johnson, Lloyd W., and Klee. 2,942,046.  
Kirsch, Arthur A., and Klee. 2,942,048.
- Klee, David J., to General Electric Co. Cooling fluid flow control valve for an electrode support. 2,941,821, 6-21-60, Cl. 284-19.
- Klee, David J., to General Electric Co. Current collector for an electric arc furnace. 2,942,047, 6-21-60, Cl. 13-14.
- Klee, David J., to General Electric Co. Motor drive control circuit. 2,942,139, 6-21-60, Cl. 314-69.
- Klee, Lester A. Door lock. 2,947,560, 8-2-60, Cl. 292-241.
- Kleen-Stik Products, Inc.: *See*—  
Cole, Gerald E. 2,933,216.
- Kleesattel, Claus, to Cavitron Corp. Acoustic impedance transformer. 2,948,154, 8-9-60, Cl. 74-1.
- Kleiber, Carl E., to Esso Research and Engineering Co. Recovery of finely divided solids. 2,934,494, 4-26-60, Cl. 208-161.
- Klein, Ann, to Underwater Sports, Inc. Quick-release buckle. 2,956,324, 10-18-60, Cl. 24-230.
- Klein, Caspar, and E. Podschus, to Farbenfabriken Bayer Aktiengesellschaft. Paper containing an organic fluorescent dye. 2,924,549, 2-9-60, Cl. 162-162.
- Klein, Clarence F., to The Lord Baltimore Press, Inc. Tamper-proof carton. 2,928,582, 3-15-60, Cl. 229-43.
- Klein, Clifford J., to Specialties Development Corp. Apparatus for detecting flame. 2,946,990, 7-26-60, Cl. 340-227.
- Klein, Edward, to Quaker-Stretcher Co. Combined tray table rack and serving table. 2,965,236, 12-20-60, Cl. 211-2.
- Klein, Edward J., to Minneapolis-Honeywell Regulator Co. Flow measuring apparatus for hydraulic solids. 2,959,053, 11-8-60, Cl. 73-194.
- Klein, Eli, to Klein Hardware Co., Inc. Adjustable foot for hospital and restaurant cabinets, tables and like articles of furniture. 2,956,368, 10-18-60, Cl. 45-137.
- Klein, Esther G.: *See*—  
Miller, George. 2,955,615.
- Klein, Eugene A., to The Glidden Co. Hydrogenation of hydrochlorinated verbenone and product obtained thereby. 2,945,066, 7-12-60, Cl. 260-587.
- Klein, Eugene A., to The Glidden Co. Conversion of verbanone. 2,945,067, 7-12-60, Cl. 260-587.
- Klein, George J.: *See*—  
Vogelfanger, Isaac J., Beattie, Klein, Smialowski, and Fischer. 2,940,451.
- Klein, Gerald: *See*—  
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- Klein Hardware Co., Inc.: *See*—  
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- Klein, Heinrich, A. Steingrubner, and H. Grosschopf, to Wahl Brothers. Winding machinery. 2,931,162, 4-5-60, Cl. 57-13.
- Klein, Herbert D. Cap visor reinforcement. 2,931,046, 4-5-60, Cl. 2-195.
- Klein, Howard C., to Nopco Chemical Co. Vitamin A intermediates and process for obtaining same. 2,945,876, 7-19-60, Cl. 260-456.
- Klein, Joseph J.: *See*—  
Struthers, William H. 2,962,158.
- Klein, Joseph J., to Food Machinery and Chemical Corp. Diffuser tube. 2,947,525, 8-2-60, Cl. 261-122.
- Klein, Keith W., and H. L. Mutti, to General Electric Co. Seven-day time control switch. 2,921,149, 1-12-60, Cl. 200-38.
- Klein, Leon, to General Electric Co. Voltage limiter. 2,948,843, 8-9-60, Cl. 323-81.
- Klein, Mathias A., Jr., to Mathias Klein & Sons. Olique cutting plier. 2,938,266, 5-31-60, Cl. 30-124.
- Klein, Mathias, & Sons: *See*—  
Klein, Mathias A., Jr. 2,938,266.
- Klein, Morris, to International Research & Development Corp. Plural loop antenna having ferrite cores. 2,955,286, 10-4-60, Cl. 343-742.
- Klein, Morton J., I. J. Solomon, and B. C. Harrison, to Callery Chemical Co. Dimethylenetetraborane-10. 2,961,469, 11-22-60, Cl. 260-606.5.
- Klein, Norman E.: *See*—  
Bolinger, Edgar D., and Klein. 2,919,534.  
Preston, Frederick A., Klein, and Wright. 2,961,823.
- Klein, Norman E., to Deering Milliken Research Corp. Plying. 2,939,267, 6-7-60, Cl. 57-58.3.
- Klein, Norman E., to Deering Milliken Research Corp. Apparatus for plying strands. 2,961,824, 11-29-60, Cl. 57-58.36.
- Klein, Norman E., to Deering Milliken Research Corp. Safety device for yarn twisting machines. 2,961,825, 11-29-60, Cl. 57-58.76.
- Klein, Norman E., C. D. Lucas, and G. A. Mobley, to Deering Milliken Research Corp. Brake and braking system. 2,924,869, 2-16-60, Cl. 28-28.
- Klein, Norman E., C. D. Lucas, and G. A. Mobley, to Deering Milliken Research Corp. Brake system. 2,964,826, 12-20-60, Cl. 28-28.
- Klein, Paul. Combination bottle and handle attachment. 2,930,502, 3-29-60, Cl. 215-100.
- Klein, Ralph: *See*—  
Scheer, Milton D., and Klein. 2,934,578.
- Klein, Ralph, H. G. Nadeau, L. J. Schoen, and A. D. Bliss, to Olin Mathieson Chemical Corp. Preparation of diborane. 2,946,664, 7-26-60, Cl. 23-204.
- Klein, Richard J.: *See*—  
Moyer, Elmo E., and Klein. 2,955,247.
- Klein, Rudolf: *See*—  
Klemann, Heinrich, and Klein. 2,964,996.
- Klein, Victor G., to The McNeil Machine & Engineering Co. Lubricating apparatus. 2,960,185, 11-15-60, Cl. 184-7.
- Klein, Walter, to E. Leitz, G.m.b.H. Vertical illuminator. 2,950,650, 8-30-60, Cl. 88-40.
- Klein, Walter, to The National Cash Register Co. Control circuit. 2,963,293, 12-6-60, Cl. 271-57.
- Klein, Walter W., Jr., W. W. Grannemann, and O. A. Fredriksson, to California Research Corp. Pulse modulation function multiplier. 2,952,812, 9-13-60, Cl. 328-172.
- Klein, Werner, and W. Friz, to C. Lorenz Aktiengesellschaft. Traveling wave tube. 2,921,225, 1-12-60, Cl. 315-3.6.
- Klein, William C., to Eastman Kodak Co. Exposure delay power circuit for a photographic printer. 2,928,328, 3-15-60, Cl. 95-75.
- Klein, William G.: *See*—  
Sanborn, Malcolm A., and Klein. 2,930,084.
- Klein, Willibald, to Societa Italiana Prodotti Schering. Process for preparing inosine. 2,928,773, 3-15-60, Cl. 195-68.
- Kleinau, Glenn R. Folding tent. 2,926,676, 3-1-60, Cl. 135-4.
- Kleindienst & Co. Maschinenfabrik und Eisengieberei: *See*—  
Weihmayr, Engelbert. 2,943,772.
- Kleine, Werner K. M. Drill mechanism. 2,922,322, 1-26-60, Cl. 77-5.
- Kleineberg, Paul E., and J. C. Roseman, to T. W. & C. B. Sheridan Co. Controlled hopper feed for independently driven trimmer in bookbinding system. 2,922,171, 1-26-60, Cl. 11-1.
- Kleineberg, Paul E., and H. R. Mebus, to T. W. & C. B. Sheridan Co. Independent driving mechanism for book trimmer in book binding system. 2,956,295, 10-18-60, Cl. 11-1.
- Kleiner, Helmut: *See*—  
Lehmann, Erich, Kleiner, and Manderla. 2,926,060.
- Kleinhample, Edward J., and M. J. Draganjac, to Westinghouse Air Brake Co. Simulating circuit for gyroscope indicators. 2,928,188, 3-15-60, Cl. 35-12.
- Kleinholz, Milton P., to Sinclair Refining Co. Anti-wear lubricant. 2,937,992, 5-24-60, Cl. 252-32.7.
- Kleinholz, Milton P., to Sinclair Refining Co. Stable anti-corrosive lubricant composition. 2,944,971, 7-12-60, Cl. 252-32.7.
- Kleinle, Alois, and R. F. Weiss, to International Standard Electric Corp. Selenium rectifier. 2,956,218, 10-11-60, Cl. 317-241.
- Kleinman, Bernard, to Radio Corp. of America. Traveling wave type tube and method of manufacture. 2,943,228, 6-28-60, Cl. 315-3.5.
- Kleinman, Jacob L. Assembled shearing section for electrically operated shaving implements. 2,930,119, 3-29-60, Cl. 30-43.



- Kleinman, Jacob L. Electrically operated dry shaving implements. 2,935,788, 5-10-60, Cl. 30—43.
- Kleinman, Jacob L. Electrical dry shaving implement having a hingeable shearing section. 2,935,789, 5-10-60, Cl. 30—43.
- Kleinman, Jacob L. Magazine feeding shaving implements. 2,935,790, 5-10-60, Cl. 30—62.
- Kleinschmidt, Edward F., to Smith-Corona Marchant Inc. Tape control transmitter. 2,923,769, 2-2-60, Cl. 178—17.
- Kleinschmidt, Robert V., to The Bowen Corp. Vapor compression evaporation. 2,942,657, 6-28-60, Cl. 159—47.
- Kleinschmidt, Roger F., to Phillips Petroleum Co. Purification of polymers of the polyamide type. 2,958,677, 11-1-60, Cl. 260—78.
- Kleinschmidt, Roger F., and J. M. Wilkinson, to General Aniline & Film Corp. Synthesis of 2-pyrrolidone. 2,946,805, 7-26-60, Cl. 260—326.5.
- Kleis, Derk : See—
- Vermeulen, Roelof, and Kleis. 2,931,862.
- Kleiser, James M. Vibratory mechanism for feeding and separating finely divided materials. 2,958,421, 11-1-60, Cl. 209—480.
- Kleist, Dale, to Owens-Corning Fiberglas Corp. Method and apparatus for the attenuation of heat softenable materials into fibers. 2,936,480, 5-17-60, Cl. 18—2.5.
- Kleist, Dale, and H. J. Snow, to Owens-Corning Fiberglas Corp. Apparatus for forming fibers. 2,949,631, 8-23-60, Cl. 18—2.5.
- Kleist, Dale, and H. J. Snow, to Owens-Corning Fiberglas Corp. Apparatus for centrifugally forming fibers. 2,949,632, 8-23-60, Cl. 18—2.5.
- Kleist, Dale, and H. J. Snow, to Owens-Corning Fiberglas Corp. Rotor supporting and driving construction. 2,962,754, 12-6-60, Cl. 18—2.6.
- Klema, Kenneth G. : See—
- Harris, William C., and Klema. 2,966,116.
- Klemann, Heinrich, and R. Klein, to Ernst Leitz G.m.b.H. Projection microscopes. 2,964,996, 12-20-60, Cl. 88—40.
- Klemchuk, Peter P. : See—
- Beutel, Ralph H., and Klemchuk. 2,956,080.
- Klement, John F., to Ampco Metal, Inc. Aluminum bronze alloy containing manganese and chromium and having improved wear resistance. 2,937,941, 5-24-60, Cl. 75—161.
- Klement, John F., to Ampco Metal, Inc. Welded wrought aluminum bronze article and a method of heat treating the same. 2,937,965, 5-24-60, Cl. 148—127.
- Klement, John F. Aluminum bronze alloy containing chromium and having improved wear resistance. 2,944,889, 7-12-60, Cl. 75—162.
- Klement, John F., to Ampco Metal, Inc. Aluminum bronze alloy having improved wear resistance by the addition of cobalt and chromium. 2,944,890, 7-12-60, Cl. 75—162.
- Klemer, Earl M. : See—
- Smith, Willard A., and Klemer. 2,958,844.
- Kleminsky, Michael, deceased; A. K. Chomo, administratrix. Airplane balancing device. 2,936,137, 5-10-60, Cl. 244—93.
- Klemma, Asle. Adjustable threshold. 2,947,043, 8-2-60, Cl. 20—64.
- Klemme, Gilbert R. Automobile ice box. 2,954,682, 10-4-60, Cl. 62—259.
- Klemp, Hans-Joachim : See—
- Redlich, Horst, Klemp, and Neumann. 2,962,561.
- Klempay, Francis J. : See—
- Wheeler, Stephen W. 2,961,901.
- Klemperer, Wolfgang B., to Douglas Aircraft Co., Inc. Cabin pressure control. Re. 24,900, 11-29-60, Cl. 98—1.5.
- Klent, Hermann, to Institut fuer Schienenfahrzeuge. Liquid ring gaseous fluid displacing device. 2,937,499, 5-24-60, Cl. 60—39.61.
- Klenk, Dieter : See—
- Vieli, Otto A., and Klenk. 2,933,767.
- Klenke, Edward F., Jr., to E. I. du Pont de Nemours and Co. Production of pigments. 2,964,532, 12-13-60, Cl. 260—314.5.
- Klepper, Richard H. : See—
- Schwartz, Walter, and Klepper. 2,926,870.
- Klepp, Fritz, and R. Werner, to Vereinigte Osterreichische Eisen-und Stahlwerke Aktiengesellschaft. Process for production of high-grade cast-iron. 2,937,084, 5-17-60, Cl. 75—130.
- Klepp, George F. : See—
- Ullrich, Edward H., and Klepp. 2,928,976.
- Klepper, Laurence R. : See—
- Williamson, John, Klepper, and Brink. 2,965,272.
- Klessig, Ernst F., and R. B. Pettibone, to Vickers Inc. Power transmission. 2,962,977, 12-6-60, Cl. 103—220.
- Klestadt, Bernard, to Hughes Aircraft Co. Level changing direct coupled amplifier. 2,956,236, 10-11-60, Cl. 330—123.
- Klett, Robert H. Traffic diverter. 2,929,349, 3-22-60, Cl. 116—63.
- Kleve, Robert E. Sound recording and reproducing apparatus. 2,964,593, 12-13-60, Cl. 179—100.2.
- Klevens, Howard B., and J. Nichols, to Ethicon, Inc. Collagen article and the manufacture thereof. 2,919,998, 1-5-60, Cl. 106—161.
- Kleyn, John G., to Monsanto Chemical Co. Soap stabilization. 2,921,907, 1-19-60, Cl. 252—107.
- Kliegl Bros, Universal Electric Stage Lighting Co., Inc. : See—
- Macklem, F. Sutherland. 2,920,240.
- Klier, Robert W. : See—
- Cottrill, Delbert E., and Klier. 2,950,888.
- Kliever, Waldo H., and W. C. Roberts, to Clevite Corp. Binary scale reader. 2,960,689, 11-15-60, Cl. 340—347.
- Klinek, Edward A., to General Motors Corp. Conduit tender. 2,955,080, 5-3-60, Cl. 137—344.
- Klinck, Ronald W., L. F. Porter, R. H. Wright, and H. Zitko, to British Columbia Research Council. Statistical indicator. 2,955,563, 10-11-60, Cl. 116—135.
- Kline, Charles M., to Sperry Rand Corp. Mixer. 2,953,360, 9-20-60, Cl. 259—9.
- Kline, Edward S. : See—
- Taylor, Richard O., and Kline. 2,937,787.
- Kline, Granville B., and E. R. Shepard, to Eli Lilly and Co. Synthesis of pyrrolidine. 2,952,688, 9-13-60, Cl. 260—313.
- Kline, Jack, to Sanders Associates, Inc. Frequency-stabilized oscillator. 2,949,581, 8-16-60, Cl. 331—91.
- Kline, Jack, and D. L. Winsor, to Sanders Associates, Inc. Tunable cavity for high-frequency generators. 2,950,453, 8-23-60, Cl. 333—83.
- Kline, James A. Motor vehicle safety system. 2,940,560, 6-14-60, Cl. 192—3.
- Kline, John E., to Micromatic Hone Corp. Resonant honing. 2,939,250, 6-7-60, Cl. 51—34.
- Kline, Joseph D., to Ryan Aeronautical Co. Voltage deviation detector. 2,956,268, 10-11-60, Cl. 340—248.
- Kline, Ralph W. : See—
- Rogers, Alan B., and Kline. 2,928,748.
- Kline, Ralph W., and A. B. Rogers, to Armour and Co. Dry-mix souffle products and the preparation thereof. 2,939,792, 6-7-60, Cl. 99—94.
- Kline, Robert E., W. C. Starnes, and R. C. Zabor, to Gulf Research & Development Co. Process for upgrading a wide range gasoline. 2,944,959, 7-12-60, Cl. 208—79.
- Kling, Nelson G., and M. H. Pelavin, to Technicon Instruments Corp. Method and apparatus for recording vector cardiographs. 2,932,549, 4-12-60, Cl. 346—110.
- Kling "100" Corp. : See—
- Kellerman, William. 2,966,050.
- Kling, Walter, and H. Lange, to Bohme Fettchemie G.m.b.H. Methods of washing textile fabrics. 2,950,253, 8-23-60, Cl. 252—152.
- Klingbeil, Hermann. Attachment for hand drills and the like. 2,919,609, 1-5-60, Cl. 77—7.
- Klinge, Earl R., to Continental Motors Corp. Compression ignition engine. 2,947,291, 8-2-60, Cl. 123—30.
- Klingenstein, Paul. Camera carrying case with chart selector. 2,938,441, 5-31-60, Cl. 95—11.
- Klinger Mfg. Co., The : See—
- Gilchrist, Reginald S., Scragg, and Mattingly. 2,958,921.
- Klingler, Karl A. Metering pump. 2,928,351, 3-15-60, Cl. 103—37.
- Klingler, Karl A. Seal for inboard ends of journal boxes for railroad cars. 2,934,901, 5-3-60, Cl. 60—54.5.
- Klingler, Karl A. Railroad car journal lubricator. 2,937,055, 5-17-60, Cl. 308—90.
- Klingler, Karl A. Packing means for railroad car axle journal boxes. 2,940,780, 6-14-60, Cl. 286—6.
- Klingler, Karl A. External seal shock absorber. 2,945,689, 7-19-60, Cl. 267—34.
- Klingler, Karl A. Extension seal. 2,949,787, 8-23-60, Cl. 74—18.2.
- Klingler, Karl A. Sleeve packing. 2,949,788, 8-23-60, Cl. 74—18.2.
- Klingler, Karl A. Gasket assembly. 2,964,343, 12-13-60, Cl. 288—27.
- Klingler, Lawrence B. Door check. 2,926,379, 3-1-60, Cl. 16—83.
- Klingler, Lawrence B. Door check. 2,938,226, 5-31-60, Cl. 16—83.
- Klingler, Martin L., to AMP Inc. Hydraulically operated connector crimping tool. 2,941,430, 6-21-60, Cl. 81—15.
- Klingler, Martin L., and W. R. Evans, to AMP Inc. Manually operated hydraulic tool having means for releasing fluid pressure and by-pass valve means for maintaining its released condition. 2,921,438, 1-19-60, Cl. 60—52.
- Klingspor, Carl. Abrasive wheels. 2,948,090, 8-9-60, Cl. 51—193.5.
- Klinkowski, James J., to United States of America, Navy. Data shifting circuit. 2,950,468, 8-23-60, Cl. 340—174.
- Klink, Theodore G., to American Cyanamid Co. Container feed apparatus. 2,948,435, 8-9-60, Cl. 221—251.
- Klint, Robert V. : See—
- Glasser, Thomas H., and Klint. 2,948,506.
- Klint, Robert V., to General Electric Co. Damping turbine buckets. 2,930,581, 3-29-60, Cl. 253—77.
- Klint, Robert V., and A. J. Nerad, to General Electric Co. Damping turbine buckets. 2,933,286, 4-19-60, Cl. 253—77.
- Klioze, Oscar : See—
- Gerber, Clifford F., and Klioze. 2,939,820.
- Klipfel, Harold H. Folding tent. 2,960,992, 11-22-60, Cl. 135—4.
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- Rones, James M., and Alexander. 2,954,575.
- Klix, Herman A. : See—
- Doyle, Edward G., and Klix. 2,964,341.
- Klockmann, Frederick F. : See—
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- Decker, Johannes B. 2,958,903.  
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 Klomp, Alfred W., to Process Gear & Machine Co. Gear bore and tooth-flank concentricizing machine. 2,924,910, 2-16-60, Cl. 51-3.  
 Klompas, Nicholas, to Orenda Engines Ltd. Lubricating and scavange system for bearing assembly. 2,934,168, 4-26-60, Cl. 184-6.  
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 Klug, Charles W., to King-Seely Corp. Constant voltage output device. 2,944,209, 7-5-60, Cl. 323-68.  
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 Kluge, Robert D., to Minneapolis-Honeywell Regulator Co. Photographic flash unit. 2,953,675, 9-20-60, Cl. 240-1.3.

- Klugh, Bethune G., deceased (The First National Bank of Birmingham, executor), to Monsanto Chemical Co. Process for producing metallurgical furnace charge material. 2,961,411, 11-22-60, Cl. 252-188.3.  
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- Knapp, Samuel B., and J. D. Wethern, to Hawaiian Development Co., Ltd. Rapid neutral sulfite process for pulping bagasse and other non-woody plant lignocellulose. 2,924,547, 2-9-60, Cl. 162-83.
- Knapp, Samuel B., and J. D. Wethern, to Hawaiian Development Co., Ltd. Rapid soda process for pulping bagasse and other non-woody plant lignocellulose. 2,944,929, 7-12-60, Cl. 162-90.
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- Knauer, Gail H. Small percentages to various assignees. Protractor attachment for layout tables. 2,965,968, 12-27-60, Cl. 33-76.
- Knauert, William F., to Sonotone Corp. Acoustic signal transducers. 2,927,977, 3-8-60, Cl. 179-115.
- Knauert, William F., to Sonotone Corp. Acoustic signal transducers. 2,927,978, 3-8-60, Cl. 179-115.
- Knauf, Wilhelm, to Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate. Folding focusing hood for reflex cameras. 2,926,580, 3-1-60, Cl. 95-47.
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- Knecht, Emil. Tone arm mechanism. 2,926,921, 3-1-60, Cl. 274-31.
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- Knecht, Walter S.: See—
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- Knefel, Vitus. Reckoner for demonstrating arithmetical calculations. 2,949,681, 8-23-60, Cl. 35-30.
- Kneipp, Hans L., to Rheinstahl Hamburg Stahlbau Eggers & Friedrich Kehrhaun G.m.b.H. Moving stairways. 2,936,872, 5-17-60, Cl. 198-16.
- Kneisel, Joseph P., to Pacific Wood Products Co. Method for producing decorative wood panels. 2,958,352, 11-1-60, Cl. 144-309.
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- Knibb, Leroy H. Ice cream freezers. 2,928,660, 3-15-60, Cl. 259-121.
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- Knight, Henry D., to The British Thomson-Houston Co. Ltd. Electric discharge devices. 2,965,788, 12-20-60, Cl. 313-193.
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- Knight, Lloyd K., to The Jeffrey Mfg. Co. Material reducing apparatus. 2,964,249, 12-13-60, Cl. 241-230.
- Knight, Lorin, and A. Trussell, to International Computers and Tabulators Ltd. Electronic calculating apparatus. 2,932,450, 4-12-60, Cl. 235-159.
- Knight, Philip H., and R. J. O'Donovan, to Bell Brothers (Domestic) Ltd. Mixing valve. 2,949,130, 8-16-60, Cl. 137-552.
- Knight, Ralph M., to National Distillers and Chemical Corp. Continuous process for the production of aliphatic monolefin polymers. 2,956,995, 10-18-60, Cl. 260-94.9.
- Knight, Robert F., to Core Laboratories, Inc. Drilling rate measuring apparatus. 2,957,346, 10-25-60, Cl. 73-151.5.
- Knight, Ronald G.: See—
- Bray, Frederick H., and Knight. 2,954,438.
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- Knight, Warren N., to The British Petroleum Co. Ltd. Motor fuels of high octane value. 2,935,458, 5-3-60, Cl. 208-62.
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- Knights, Herbert C.: See—
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- Knoepke, Olga H.: See—
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- Knostr, Lloyd H. Clamping mechanism for seam welding machines. 2,941,491, 6-21-60, Cl. 113-59.



- Knuth, Fred. Interchangeable articulator. 2,928,175, 3-15-60, Cl. 32-32.
- Knuth, Walter H., Jr., to E. I. du Pont de Nemours and Co. 1,1-difluoro-2-methylene-3-difluoromethylene cyclobutane and polymers thereof. 2,964,507, 12-13-60, Cl. 260-87.5.
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- Smith, Merrill M., and Knowland. 2,965,923.
- Knowland, Thomas M., to American Biltrite Rubber Co., Inc. Controlling mechanism for pressure band. 2,953,813, 9-27-60, Cl. 18-6.
- Knowles, Charles M. Sod plug planter. 2,949,083, 8-16-60, Cl. 111-3.
- Knowles, Edward R., to Newark Die Hobbing & Casting Co. Method of making a plastic container cap. 2,965,932, 12-27-60, Cl. 18-59.
- Knowles, Frank W., to Belt-Ice Corp. Plate freezer for packaged foods. 2,927,443, 3-8-60, Cl. 62-341.
- Knowles, Frederick W. Sanitary bed. 2,924,832, 2-16-60, Cl. 5-9.
- Knowles, Hugh S. Transducer and vibratory diaphragm. 2,966,558, 12-27-60, Cl. 179-114.
- Knowles, John, & Co.: *See*—
- Edmonds, Robert C., and Keyworth. 2,925,637.
- Knowles, John G. Hydraulic brake systems. 2,944,637, 7-12-60, Cl. 188-73.
- Knowles, Joseph R., to Gulf Research & Development Co. Thermally controlled coolant supply for metal cutting tools. 2,924,873, 2-16-60, Cl. 29-106.
- Knowles, M. B., and H. S. Pridgen, to Eastman Kodak Co. Solvents for fat and oil antioxidants. 2,944,908, 7-12-60, Cl. 99-163.
- Knowles, Philip N. G.: *See*—
- Barnett, Arthur A. C., Warner, and Knowles. 2,944,238.
- Knox, David M. Picture ensemble. 2,957,262, 10-25-60, Cl. 40-152.
- Knox Glass, Inc.: *See*—
- Deible, William B., and Youkers. 2,945,325.
- Knox, Granville S., to Hydril Co. Packing seal. 2,934,363, 4-26-60, Cl. 286-26.
- Knox, Granville S., to Hydril Co. Sealing gate valve. 2,952,437, 9-13-60, Cl. 251-171.
- Knox, Granville S., to Hydril Co. Well head connector. 2,962,096, 11-29-60, Cl. 166-75.
- Knox, Kerro, to Bell Telephone Laboratories, Inc. Magnetic materials. 2,945,744, 7-19-60, Cl. 23-50.
- Knox, Lawrence H., and G. A. Bernotsky, to Nopco Chemical Co.  $\beta$ -methyleneaminopropionitrile and its conversion to  $\beta$ -alanine. 2,935,524, 5-3-60, Cl. 260-465.5.
- Knox, Lewis A., to International Business Machines Corp. Analogue-to-digital precision integrator. 2,950,052, 8-23-60, Cl. 235-154.
- Knox, Roger E., to E. I. du Pont de Nemours and Co. Polyurethane foams coated with a polyurethane elastomer. 2,955,056, 10-4-60, Cl. 117-98.
- Knox, William H., Jr., J. E. Blanch, and G. P. Carroll, to Victor Chemical Works. Dehydrated sodium aluminum phosphate composition and method of producing same. 2,957,750, 10-25-60, Cl. 23-105.
- Knox, William J., and S. G. Thompson, to United States of America, Atomic Energy Commission. Method of separating Pu from metathesized  $\text{BiPO}_4$  carrier. 2,938,768, 5-31-60, Cl. 23-14.5.
- Knudsens, Arthur W., to United States of America, Air Force. Quick acting valve. 2,924,235, 2-9-60, Cl. 137-461.
- Knudsens, Charles B. Golf ball washing machine. 2,931,058, 4-5-60, Cl. 15-21.
- Knudsens, Knud J., to Lewis Engineering Co. Pyrometer circuit. 2,930,233, 3-29-60, Cl. 73-360.
- Knudsens, Knud J., to The Lewis Engineering Co. Instrument relay. 2,931,955, 4-5-60, Cl. 317-148.5.
- Knudsens, Knud J., to The Lewis Engineering Co. Electrical instrument. 2,946,007, 7-19-60, Cl. 324-154.
- Knudsens, Magnus. Pipe for tobacco. 2,956,568, 10-18-60, Cl. 131-184.
- Knudsens, Raymond G., and F. W. Preslan, to Snap-on Tools Corp. Linkage gauge for automatic transmissions and the like. 2,930,136, 3-29-60, Cl. 33-181.
- Knudson, Giltner J., to Bendix Aviation Corp. Ignition apparatus. 2,922,903, 1-26-60, Cl. 310-156.
- Knudson, Louis I., and J. D. Pfeiffer, to General Laboratory Associates, Inc. Sensing igniter. 2,963,620, 12-6-60, Cl. 315-35.
- Knusli, Enrico: *See*—
- Gysin, Hans, and Knusli. 2,923,614.
- Gysin, Hans, and Knusli. 2,936,227.
- Gysin, Hans, and Knusli. 2,940,844.
- Knust, Bernhard: *See*—
- Kinley, Myron M. and J. C., and Knust. 2,937,854.
- Knuth, Charles J.: *See*—
- Bavley, Abraham, and Knuth. 2,936,297.
- Bavley, Abraham, and Knuth. 2,936,299.
- Bavley, Abraham, Knuth, and Michelotti. 2,938,014.
- Bavley, Abraham, Knuth, and Tate. 2,936,309.
- Knuth, Harvey G., to Lyon Metal Products, Inc. Sheet metal table having hollow end panels supporting the table top. 2,943,898, 7-5-60, Cl. 311-110.
- Knutsen, Margaret E.: *See*—
- Knutsen, Oivind L. 2,965,269.
- Knutsen, Oivind L., to M. E. Knutsen. Containers for powdered and granular substances. 2,965,269, 12-20-60, Cl. 222-195.
- Knutsen, Wallace N.: *See*—
- Rayburn, Charles C., Schmidt, and Knutsen. 2,947,247.
- Knutson, Russell G.: *See*—
- Chamberlin, George E., and Knutson. 2,928,129.
- Knutti, Helmut: *See*—
- Kohler, Horst, and Knutti. 2,950,651.
- Koback, Benjamin. Broom winding machine. 2,937,900, 5-24-60, Cl. 300-14.
- Koback, Benjamin. Broom winding machine. 2,938,750, 5-31-60, Cl. 300-14.
- Kobayashi, Hideya. Camera with reflection light meter. 2,940,369, 6-14-60, Cl. 95-10.
- Kobayashi, Kanjiro, and A. Kamada, to Nagase & Co., Ltd. Organic mercury compounds of quaternary ammonium salt type and their preparation. 2,942,018, 6-21-60, Cl. 260-433.
- Kobel, John R., and W. J. Polits, to Tektronix, Inc. Distributed amplifier. 2,930,986, 3-29-60, Cl. 330-54.
- Kobbeman, Donald D., to Phillips Petroleum Co. Rocket motor. 2,957,309, 10-25-60, Cl. 60-35.6.
- Kobe Inc.: *See*—
- Coberly, Clarence J. 2,929,327.
- Coberly, Clarence J. 2,935,953.
- Coberly, Clarence J. 2,939,397.
- Coberly, Clarence J. 2,939,533.
- Coberly, Clarence J. 2,949,857.
- Coberly, Clarence J. 2,952,212.
- Coberly, Clarence J. 2,952,220.
- Koberle-Zimmermann, Fritz. End-thrust type profiling cutter. 2,956,599, 10-18-60, Cl. 144-219.
- Koberstein, Edgar, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Production of hydrocyanic acid. 2,927,844, 3-8-60, Cl. 23-151.
- Kobetich, Edward A., and E. J. Burke, to Westinghouse Air Brake Co. Transistor transistor. 2,936,367, 5-10-60, Cl. 250-13.
- Koble, Robert A., to Phillips Petroleum Co. Contamination prevention in underground storage. 2,942,424, 6-28-60, Cl. 61-5.
- Kobler, Paul. Coupling means for spring motor, to release and transmit its power. 2,964,133, 12-13-60, Cl. 185-39.
- Kobler, Victor and W. Adjustable speed driving mechanism for dry shavers. 2,947,722, 2-2-60, Cl. 310-47.
- Kobler, Werner: *See*—
- Kobler, Victor and W. Re. 2,947,722.
- Koblish, Merle F., to Allied Chemical Corp. Apparatus for liquefied gas transfer. 2,932,310, 4-12-60, Cl. 137-212.
- Kobos, Roman L.: *See*—
- Claybourn, Carlton C., and Kobos. 2,933,039.
- Kobryner, Herman H., and G. A. Olsen, to Murray Mfg. Corp. Electrical pressure connector. 2,938,191, 5-24-60, Cl. 339-272.
- Kocay, Witold R., to American Cyanamid Co. Aqueous solution containing a bisulfite and acrylonitrile polymer having basic amino groups. 2,946,762, 7-26-60, Cl. 260-29.6.
- Kocay, Witold R., W. J. Clark, and G. P. Vescio, to American Cyanamid Co. Art of producing polyacrylonitrile filaments. 2,936,211, 5-10-60, Cl. 8-55.
- Koce, James. Trash burner. 2,965,051, 12-20-60, Cl. 110-18.
- Koch, Adolf. Construction units. 2,966,009, 12-27-60, Cl. 50-442.
- Koch, Alan J.: *See*—
- Bower, Warren R., Koch, and Woods. 2,958,912.
- Koch, Charles F.: *See*—
- Popkess, William R., and Koch. 2,924,811.
- Koch, Charles J.: *See*—
- Decker, James L., and Koch. 2,920,842.
- Koch, David, to Morris Kurtzon, Inc. Rack construction. 2,947,554, 8-2-60, Cl. 287-54.
- Koch, Duane L., to United States Rubber Co. Journal lubricating device. 2,956,842, 10-18-60, Cl. 308-87.
- Koch, Earl E.: *See*—
- Vutz, Wilhelm, and Koch. 2,957,407.
- Koch, Earl E., and E. F. Glass, to Sperry Rand Corp. Hay crimper. 2,954,656, 10-4-60, Cl. 56-1.
- Koch Engineering Co., Inc.: *See*—
- Koch, Fred C. 2,919,559.
- Koch, Fred C., to Koch Engineering Co., Inc. Cooling system. 2,919,559, 1-5-60, Cl. 62-305.
- Koch, Fritz, to W. Koch. Magnet game or toy. 2,940,216, 6-14-60, Cl. 46-238.



- Koch, George, Sons, Inc.: *See*—  
Tredwell, Gilman, 2,928,356.
- Koch, George R.: *See*—  
Cargill, Don A., Ducker, and Koch, 2,958,616.
- Koch, Gerard, H. Mey, and M. A. Muller, to Goetzewerke Friedrich Goetze Aktiengesellschaft. Machines for machining hollow bodies. 2,932,227, 4-12-60, Cl. 82-19.
- Koch, Gustav H., to Westinghouse Electric Corp. Pivotal support for fans. 2,933,273, 4-19-60, Cl. 248-13.
- Koch, Gustav H., to Westinghouse Electric Corp. Ventilating and supporting structure for motors of reversible fans. 2,951,634, 9-6-60, Cl. 230-259.
- Koch, H. & Sons: *See*—  
Gaylord, John A., 2,938,254.
- Koch, Hans, to Hauni-Werke Korber & Co. K.G. Apparatus for supplying fibrous materials to machines. 2,944,854, 7-12-60, Cl. 302-17.
- Koch, Harold E. Fastening device. 2,936,501, 5-17-60, Cl. 24-221.
- Koch, John E., Jr.: *See*—  
Waters, Elmer E., Shatynski, and Koch, 2,944,976.
- Koch, John H., to Burton-Rodgers, Inc. Training panel assembly. 2,952,079, 9-13-60, Cl. 35-1.
- Koch, John H., Jr., to Engelhard Industries, Inc. Catalyst and preparation thereof. 2,922,767, 1-26-60, Cl. 252-466.
- Koch, Joseph H.: *See*—  
Brockardt, Frank G., and Koch, 2,924,996.
- Koch, Lawrence E., to L. A. M. Phelan. Temperature control system for freezers. 2,930,203, 3-29-60, Cl. 62-135.
- Koch, Leonard J., and E. Hutter, to United States of America, Atomic Energy Commission. Fuel handling mechanism. 2,924,483, 2-9-60, Cl. 294-86.
- Koch, Lydie, and G. Lambert, to Commissariat a l'Energie Atomique. Hall effect magnetometer. 2,959,733, 11-8-60, Cl. 324-45.
- Koch, Paul H.: *See*—  
Harman, Arlington R., and Koch, 2,932,288.
- Koch, Paul H., to The Babcock & Wilcox Co. Steam generating and superheating unit with downshot burners and gas recirculation temperature control. 2,921,565, 1-19-60, Cl. 122-478.
- Koch, Paul H., to The Babcock & Wilcox Co. Forced flow vapor generating unit. 2,962,005, 11-29-60, Cl. 122-478.
- Koch, Paul H., to The Babcock & Wilcox Co. Long span tubular heat exchange apparatus. 2,962,007, 11-29-60, Cl. 122-510.
- Koch, Paul H., W. D. Stevens, and M. Wiener, to The Babcock & Wilcox Co. Steam generating unit having a superheater and reheater each including a radiant section and a convection section. 2,948,267, 8-9-60, Cl. 122-481.
- Koch Refrigerators, Inc.: *See*—  
Litman, Chester K., 2,928,262.
- Koch, Walter L., to Curtiss-Wright Corp. Roll and pitch control apparatus. 2,955,782, 10-11-60, Cl. 244-76.
- Koch, Winfield R., to Radio Corp. of America. Voice coil structure. 2,925,541, 2-16-60, Cl. 317-158.
- Koch, Winfield R., to Radio Corp. of America. Frequency variation response circuit. 2,935,607, 5-3-60, Cl. 250-20.
- Koch, Wolfgang: *See*—  
Kock, Fritz, 2,940,216.
- Kochendorfer, Heinrich, to Robert Bosch G.m.b.H. Over-running clutch. 2,939,323, 6-7-60, Cl. 74-6.
- Kocher, Erich J., and W. I. Grant, to The Vilter Mfg. Co. Refrigerated hermetically sealed motors. Re. 24,802, 3-29-60, Cl. 62-475.
- Kochheim, Gerhard. Auxiliary pre-adjusting device for the needles of a flat bed knitting apparatus. 2,922,295, 1-26-60, Cl. 66-60.
- Kochka, Edgar L.: *See*—  
West, James R., and Kochka, 2,955,912.
- Kochner, William B., to Knapp-Monarch Co. Valved head construction for sparklet syphon. 2,928,576, 3-15-60, Cl. 222-394.
- Kochs Adlernahmaschinen Werke A.G.: *See*—  
Müller, Friedrich W., and Tölle, 2,931,484.
- Kochs, Friedrich, G.m.b.H.: *See*—  
Uebing, Heinrich, 2,950,934.
- Koci, Ludvik J.: *See*—  
Jepson, Ivar, and Koci, 2,931,884.
- Kock, Hendrikus G.: *See*—  
Manintveld, Jan A., and Kock, 2,953,729.
- Kockums Mekaniska Verkstads Aktiebolag: *See*—  
Broden, John G. M., and Dahlqvist, 2,959,010.
- Kocmanek, Karl L., to United States of America, Army. Remote frequency selection system. 2,934,745, 4-26-60, Cl. 340-147.
- Kocmich, Donald O. Capacitance operated electronic control. 2,953,018, 10-25-60, Cl. 317-149.
- Kocour, Emil J., to Sloan Valve Co. Flush valve operator. 2,959,980, 11-15-60, Cl. 74-501.
- Kocsi, Louis. Soap tray. 2,922,248, 1-26-60, Cl. 45-28.
- Kocsuta, Michael. Threadless pipe coupling having a split ring locking means. 2,950,132, 8-23-60, Cl. 285-307.
- Kodama, Yoshio, to Nihon Spindle Seizo Kabushiki Kaisha. Oil cushion brake ring insert for spinning and like machines. 2,946,179, 7-26-60, Cl. 57-134.
- Kodaras, Michael J., to Elof Hansson, Inc. Sound-proof door. 2,922,202, 1-26-60, Cl. 20-16.
- Kodis, Robert D., to Minneapolis-Honeywell Regulator Co. Electrical apparatus. 2,957,163, 10-18-60, Cl. 340-172.5.
- Kodis, Robert D., S. Ruhman, and S. S. Guterman, to Raytheon Co. Magnetic control systems. 2,935,735, 5-3-60, Cl. 340-174.
- Kodra, Esper, and E. J. Doperalski, to Joy Mfg. Co. Piston assembly. 2,925,306, 2-16-60, Cl. 309-29.
- Koe, Anna: *See*—  
Koe, Emil, 2,922,628.
- Koe, Emil, 2,958,943.
- Koe, Emil, deceased, by distribution under Illinois law  $\frac{1}{2}$  to E. Koe, Jr., and  $\frac{1}{2}$  to A. Koe, heirs. Mixing device. 2,922,628, 1-26-60, Cl. 259-128.
- Koe, Emil; by distribution under Illinois Law  $\frac{1}{2}$  to E. Koe, Jr., and  $\frac{1}{2}$  to A. Koe, heirs of said E. Koe, deceased. Slicing knife. 2,958,948, 11-8-60, Cl. 30-115.
- Koe, Emil, Jr.: *See*—  
Koe, Emil, 2,922,628.
- Koe, Emil, 2,958,943.
- Koebel, Thomas P., to Zegers, Inc. Sash seat for double hung windows. 2,940,139, 6-14-60, Cl. 20-52.
- Koehler, Walter P. Signal device for tape recorders. 2,948,258, 8-9-60, Cl. 116-67.
- Koeckes, Jacques: *See*—  
Cunningham, Harry L., and Koeckes, 2,920,678.
- Koehl, Harman, to C. E. M. Co. Fabric covered articles. 2,928,154, 3-15-60, Cl. 24-184.
- Koehler, Albert T., H. Palmleaf, and M. E. Ross, to A. J. Gerrard & Co. Band splicer. 2,933,958, 4-26-60, Cl. 81-9.1.
- Koehler, Andreas M., and F. C. Hutchison, to Flighter Fabrics, Inc. Apparatus for testing hollow articles by hydraulic pressure applied internally thereof. 2,957,336, 10-25-60, Cl. 73-12.
- Koehler, Fred, to Hamilton Watch Co. Indexing spring. 2,924,932, 2-16-60, Cl. 58-28.
- Koehler, Fred, to Hamilton Watch Co. Electric time piece contact mechanism. 2,956,142, 10-11-60, Cl. 260-160.
- Koehler, Gerhard: *See*—  
Halfter, Georg, and Koehler, 2,950,178.
- Koehler, Karl E. Collapsible pyramid structures and blank therefor. 2,935,238, 5-3-60, Cl. 220-22.
- Koehler Mfg. Co.: *See*—  
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- Lozeau, Homer A., 2,947,851.
- Lozeau, Homer A., 2,947,852.
- Lozeau, Homer A., 2,947,854.
- Lozeau, Homer A., and Mignone, 2,947,853.
- Koehler, Otto A. Fishing rod and reel assembly. 2,943,413, 7-5-60, Cl. 43-21.
- Koehler, Robert L., to Koiled Kords, Inc. Multiple frequency signalling method and system. 2,926,344, 2-23-60, Cl. 340-253.
- Koehler, Robert L., to R. D. Collins. Subset identification gate circuit. 2,929,880, 3-22-60, Cl. 179-17.
- Koehn, Franklin M. Combination container cap and tablet dispenser. 2,923,436, 2-2-60, Cl. 221-265.
- Koehne, Karl H., to Shand and Jurs Co. Liquid level gauging apparatus. 2,952,155, 9-13-60, Cl. 73-321.
- Koehring Co.: *See*—  
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- Martinson, Edwin O., 2,926,796.
- Martinson, Edwin O., 2,945,683.
- Poulter, John W., and Johnson, 2,965,253.
- Purcell, Howard M., 2,929,398.
- Wills, Marion C., 2,955,844.
- Koehring, Roland P.: *See*—  
Luther, William A., Jr., and Koehring, 2,945,292.
- Koehring, Roland P., to General Motors Corp. Gas turbine structure. 2,930,521, 3-29-60, Cl. 230-133.
- Koelewijn, Arie: *See*—  
Elings, Garnt A., Koelewijn, Verweij, and Klasens, 2,924,737.
- Koelle, Alfred R. Peak reading vacuum tube voltmeter circuit. 2,956,228, 10-11-60, Cl. 324-102.
- Koelsch, Emery F., to The Vendo Co. Support structure for a missile or the like. 2,933,183, 4-19-60, Cl. 206-46.
- Koelsch, Lester M., to FWD Corp. Transfer case and center differential lock. 2,962,916, 12-6-60, Cl. 74-710.5.
- Koenecke, Donald F.: *See*—  
Mikeska, Louis A., and Koenecke, 2,939,863.
- Koenecke, Donald F., and O. C. Slotterbeck, to Esso Research and Engineering Co. Metal article with a corrosion and marine borer resistant coating. 2,930,710, 3-29-60, Cl. 117-26.
- Koenecke, Donald F., and O. C. Slotterbeck, to Esso Research and Engineering Co. Method for controlling the oxidation of polymer oils. 2,950,333, 8-23-60, Cl. 260-669.
- Koener, Ralph F. Golf tee. 2,948,536, 8-9-60, Cl. 273-201.
- Koenig, Edward L., to The Singer Mfg. Co. Thread guides for sewing machines. 2,919,667, 1-5-60, Cl. 112-218.
- Koenig, Edward W.: *See*—  
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- Koenig, Emil H. Side and rear dumping body for trucks. 2,953,408, 9-20-60, Cl. 296-28.
- Koenig, Gunter, G. von Rosenberg, and W. Sapper, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Bright-drying polish emulsions. 2,925,349, 2-16-60, Cl. 106-10.
- Koenig, Joost: *See*—  
Larson, Robert H., Carlson, and Koenig, 2,925,009.
- Larson, Robert H., Carlson, and Koenig, 2,960,005.



- Koenig, Leslie A.: *See*—  
Cortelli, John A., and Koenig. 2,963,634.  
Gravenstreter, Paul R., and Koenig. 2,949,249.
- Koenig, Peter J., to Sintercast Corp. of America. Method for producing tool steels containing titanium carbide. 2,944,893, 7-12-60, Cl. 75—204.
- Koenig, Robert H., to Tapeswitch Corp. of America. Electric switching mat. 2,938,977, 5-31-60, Cl. 200—86.
- Koenig, Walter, Jr., to Bell Telephone Laboratories, Inc. Inverted speech privacy using irregular inverting wave form. 2,953,643, 9-20-60, Cl. 179—15.
- Koenigsberg, Max, to The Englander Co., Inc. Innerspring foam mattress. Re. 2,914, 12-20-60, Cl. 155—179.
- Koenigsberg, Max, to The Englander Co., Inc. Mattress structure. 2,927,330, 3-8-60, Cl. 5—351.
- Koenigsberg, Max, to The Englander Co., Inc. Mattress structure. 2,940,089, 6-14-60, Cl. 5—351.
- Koenigsdorfer, Hans: *See*—  
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- Koeppel, Beverly W., to Seismograph Service Corp. Radio location system. 2,929,060, 3-15-60, Cl. 343—105.
- Koeppel, Charles H.: *See*—  
March, Joseph F., and Koeppel. 2,954,605.
- Koepplin, Albert. Fishing line controllers. 2,920,414, 1-12-60, Cl. 43—43.13.
- Koepsell, Harold J.: *See*—  
Johnson, Le Roy E., Koepsell, and Churchill. 2,957,810.
- Koerner, Charles A., O. B. Alsaker, and M. R. Rathbun, to James R. Kearney Corp. Switch. 2,963,560, 12-6-60, Cl. 200—48.
- Koerner, Harry E., and W. H. Smith, to Westinghouse Electric Corp. Spotfilm device. 2,924,717, 2-9-60, Cl. 250—66.
- Koerner, Jürgen: *See*—  
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- Koerner, Walter J.: *See*—  
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- Koerper, Bettie. Cover jacket for books with bead carrying compartment and purse. 2,926,932, 3-1-60, Cl. 281—34.
- Koester, Norman C.: *See*—  
Miller, Arthur E., and Koester. 2,931,355.
- Kofahl, David C., to Richfield Oil Corp. Method and apparatus for pumping oil wells in an underwater location. 2,935,024, 5-3-60, Cl. 103—46.
- Koff, Herman H., to Bell Telephone Laboratories, Inc. Panel latch. 2,950,141, 8-23-60, Cl. 292—256.73.
- Koffel, John K., to Thompson Ramo Wooldridge Inc. Method and apparatus for detection and prevention of overspeed and surge conditions in a compressor. 2,929,547, 3-22-60, Cl. 230—115.
- Koffler, Sol. Luggage. 2,937,728, 5-24-60, Cl. 190—51.
- Kofoid, Melvin J., to Boeing Airplane Co. Radome electric wall thickness measurement and correction. 2,952,296, 9-13-60, Cl. 154—1.
- Kofoid, Melvin J., to Boeing Airplane Co. Microwave apparatus housing and method of constructing the same. 2,962,717, 11-29-60, Cl. 343—872.
- Kogan, Lawrence: *See*—  
Maturi, Vincent F., Kogan, and Marotta. 2,933,397.
- Kogel, Wilhelm G., to Aktiebolaget Electrolux. Absorption refrigeration. 2,942,431, 6-28-60, Cl. 62—107.
- Kogel, Wilhelm G., to Aktiebolaget Electrolux. Method of and apparatus for defrosting cooling units of refrigeration systems. 2,956,415, 10-18-60, Cl. 62—81.
- Kogel, Wilhelm G., to Aktiebolaget Electrolux. Absorption refrigeration defrosting arrangement. 2,960,841, 11-22-60, Cl. 62—101.
- Kogel, Wilhelm G., to Aktiebolaget Electrolux. Absorption refrigeration. 2,960,842, 11-22-60, Cl. 62—107.
- Kogel, Wilhelm G., to Aktiebolaget Electrolux. Absorption refrigeration apparatus. 2,960,846, 11-22-60, Cl. 62—236.
- Kogstrom, Axel W., to O & S Bearing & Mfg. Co. Ball joint seal. 2,921,809, 1-19-60, Cl. 287—90.
- Kohl, Arthur L., and F. E. Miller, to The Fluor Corp., Ltd. Organic carbonate process for carbon dioxide. 2,926,751, 3-1-60, Cl. 183—115.
- Kohl, Arthur L., and F. E. Miller, to The Fluor Corp., Ltd. Process for carbon dioxide absorption. 2,926,753, 3-1-60, Cl. 183—115.
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- Kohl, Jerome, to Tracerlab, Inc. Level control apparatus. 2,960,607, 11-15-60, Cl. 250—43.5.
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Steinert, Gerhard. 2,939,434.
- Kohler, Alfred: *See*—  
Bock, Willy, and Kohler. 2,933,048.
- Kohler, Egon: *See*—  
Brandt, Hermann, Hofges, and Kohler. 2,935,398.
- Kohler, Erik: *See*—  
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- Kohler, Fred, to Magnetic Heating Corp. High frequency electrical heating apparatus. 2,960,593, 11-15-60, Cl. 219—59.
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- Kohler, Jacob W. L.: *See*—  
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- Kohler, Jacob W. L., to North American Philips Co., Inc. Method of fractionating gas mixtures by means of a gas fractionating system comprising a rectifying column. 2,919,554, 1-5-60, Cl. 62—11.
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- Kohler, Theodore N.: *See*—  
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- Kohlhaas, Frank A., to Crown Zellerbach Corp. Positioning and retaining member. 2,936,880, 5-17-60, Cl. 206—46.
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- Kohlins, William D., to Blaw-Knox Co. Seal for pressure vessel doors. 2,929,531, 3-22-60, Cl. 220—46.
- Kohlins, William D., J. G. Moore, and D. B. Montgomery, to Blaw-Knox Co. Horizontal spray dryer. 2,953,199, 9-20-60, Cl. 159—4.
- Kohlmeyer, George W., to Case Mfg. Corp. Water closet. 2,923,012, 2-2-60, Cl. 4—12.
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- Kohman, Girard T., S. E. Miller, C. F. P. Rose, and J. A. Young, Jr., to Bell Telephone Laboratories, Inc. Electromagnetic wave guide structure. 2,966,643, 12-27-60, Cl. 333—95.
- Kohn, David H.: *See*—  
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- Kohn, Leo S., and W. L. Marshall, to General Electric Co. Fabrication of electrical windings. 2,922,734, 1-26-60, Cl. 154—80.
- Kohn, Leo S., and A. H. Horner, to General Electric Co. Ethoxylated resins. 2,962,410, 11-29-60, Cl. 154—140.
- Kohn, Samuel T., and R. D. Loucks, II, to Sorensen and Co., Inc. Voltage regulator. 2,932,786, 4-12-60, Cl. 323—77.
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- Kohrn, Robert C.: *See*—  
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- Kohrn, Robert C., D. G. Slovin, and F. L. Bliven, to United States Rubber Co. Elastomeric thread. 2,953,839, 9-27-60, Cl. 28—82.
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Koehler, Robert L. 2,926,344.
- Kokalas, Edward, to The Bendix Corp. Clamping and sealing device. 2,963,536, 12-6-60, Cl. 174—77.
- Kokesh, Frank P., to Schlumberger Well Surveying Corp. Apparatus for investigating earth formations. 2,959,241, 11-8-60, Cl. 181—5.
- Kokorudz, Michael, to Wyandotte Chemicals Corp.  $N,N'$ - $\alpha$ -tetrachloromalonamides. 2,957,915, 10-25-60, Cl. 260—561.
- Kokorzycki, Zenon: *See*—  
Mentley, Max B., Kokorzycki, and Daniel. 2,944,373.
- Koktan, Zdeněk, to Vyzkumny a zkusební letecký ústav. Atomizer for internal combustion engines. 2,922,631, 1-26-60, Cl. 261—84.
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- Kokusai Denshin Denwa Co., Ltd.: *See*—  
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- Kokusai Denshin Denwa Kabushiki Kaisha: *See*—  
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- Miya, Kenichi, Sasaki, and Matsushita. 2,955,285.
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- Kolander, William G. Method of forming a frozen confection. 2,927,544, 3-8-60, Cl. 107—54.
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- Kolb, Alan C. Device for producing high temperatures. 2,940,011, 6-7-60, Cl. 315—111.
- Kolb, Albert W., Jr., to General Motors Corp. Pickup instrument for measuring device. 2,958,835, 11-1-60, Cl. 336—174.
- Kolb, Axel W., to United States of America, Air Force. Pressure transducer. 2,957,350, 10-25-60, Cl. 73—398.
- Kolb, Georg, to M. Grundig. Push-button tuner for high-frequency circuits. 2,937,534, 5-24-60, Cl. 74—10.27.



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- Kolb, Otto K.: See—  
Harkness, Thomas S., and Kolb. 2,932,581.
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Etchells, Eugene B., Kolbe, and Barr. 2,936,857.
- Kolbe, Adelbert E., to General Motors Corp. Internal combustion engine. 2,930,366, 3-29-60, Cl. 123-90.
- Kolbe, Adelbert E., to General Motors Corp. Oil pump casing and mounting for internal combustion engines. 2,939,547, 6-7-60, Cl. 184-6.
- Kolbe, Adelbert E., to General Motors Corp. Distributor drive and thrust bearing therefor. 2,951,391, 9-6-60, Cl. 74-425.
- Kolbe, Adelbert E., to General Motors Corp. Engine coolant distribution. 2,953,126, 9-20-60, Cl. 123-41.28.
- Kolbe, Adelbert E., to General Motors Corp. Internal combustion engine. 2,957,460, 10-25-60, Cl. 123-55.
- Kolbe, Adelbert E., to General Motors Corp. Internal combustion engine. 2,963,012, 12-6-60, Cl. 123-90.
- Kolbe, Adelbert E., and J. M. Roberts, to General Motors Corp. Heat valve. 2,930,367, 3-29-60, Cl. 123-122.
- Kolbe, Frank F., to The United Electric Coal Companies. Roll feeder for excavating wheel. 2,926,438, 3-1-60, Cl. 37-190.
- Kolbe, Joachim. Banking indicator for motor vehicles. 2,945,470, 7-19-60, Cl. 116-28.
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- Kolczynski, James R.: See—  
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- Kolda, Frank V.: See—  
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- Kolding, Aaron R., and G. N. Packard, to Bell Telephone Laboratories, Inc. Speech interpolation system. 2,957,946, 10-25-60, Cl. 179-15.
- Koleda, Martin, and F. Mrazek, to Závody Rudých Letnic 1930, Narodní Podnik. Exhaust hoods for electric arc furnaces. 2,929,858, 3-22-60, Cl. 13-9.
- Koledin, Emil: See—  
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- Kolene Corp.: See—  
Shoemaker, Robert H., Faler, and Nolan. 2,936,278.  
Webster, Hugh G., and Devane. 2,936,270.
- Kolesnik, Michael, and C. E. Small, to Radio Corp. of America. Multi-beam convergence apparatus. 2,928,981, 3-15-60, Cl. 315-13.
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Wasserbach, Theodore B., and Kolfenbach. 2,929,200.
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- Kolfenbach, John J., and J. O. Smith, Jr., to Esso Research and Engineering Co. Motor fuel solvent additive for increasing engine cleanliness. 2,962,365, 11-29-60, Cl. 44-74.
- Koldath, Jürgen A. Method of refining ferrosilicon material. 2,923,617, 2-2-60, Cl. 75-97.
- Kolin, George: See—  
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- Kolka, Alfred J.: See—  
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- Kolka, Alfred J., and H. D. Orloff, to Ethyl Corp. Preparation of meta dichloro- and dibromo-benzenes. 2,920,110, 1-5-60, Cl. 260-650.
- Kolkman, Dirk, to North American Philips Co., Inc. Low-pressure mercury vapour discharge tube. 2,939,985, 6-7-60, Cl. 313-185.
- Koll, Roman, to Dr. Ing. Rudolf Hell. Apparatus for automatically adjusting the operation of a facsimile transmitter. 2,953,639, 9-20-60, Cl. 178-7.2.
- Kollander, Melvin M. Centrifugal separator for exhaust gases. 2,942,687, 6-28-60, Cl. 183-2.
- Kollander, Melvin M. Tandem axle running gear for trailers. 2,954,239, 9-27-60, Cl. 280-426.
- Kollenberger, Walter M. Devices for damping the rolling movement of ships. 2,942,570, 6-28-60, Cl. 114-126.
- Koller, Charles R., to E. I. du Pont de Nemours and Co. Elastic amide/urethane/ether copolymers and process for making the same. 2,929,801, 3-22-60, Cl. 260-77.5.
- Koller, Charles R., to E. I. du Pont de Nemours and Co. Process of coating polyethylene terephthalate substrate with a polyurethane and resultant article. 2,955,961, 10-11-60, Cl. 117-138.8.
- Koller, Edward J., and E. C. Parks, to Wonder Products Co. Hobby horse frame. 2,937,022, 5-17-60, Cl. 272-52.
- Koller, Lewis R., to General Electric Co. Phosphor evaporation method and apparatus. 2,948,635, 8-9-60, Cl. 117-33.5.
- Koller, Lewis R., to General Electric Co. Method of rendering titanium dioxide films electrically conductive. 2,957,787, 10-25-60, Cl. 117-211.
- Kolliker, Hans P., A. Staub, and P. Hindermann, to J. R. Geigy, A.G. Anthraquinone azo dyestuffs. 2,920,072, 1-5-60, Cl. 260-207.
- Kolling, Helmut: See—  
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- Kolling, Helmut, N. Geiser, and W. von Hoffmann, to Ruhrchemie Aktiengesellschaft. Process for continuously processing reaction products of the polymerization of ethylene. 2,943,083, 6-28-60, Cl. 260-94.9.
- Kollinger, Henry F., to Kuhlman Electric Co. High voltage bushing. 2,934,593, 4-26-60, Cl. 174-145.
- Kollman, Robert C.: See—  
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- Kollmann, Karl J. Sewer cleaner. 2,940,099, 6-14-60, Cl. 15-104.3.
- Kollmann, Werner: See—  
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- Kollmorgen, Ernst O., to Redfield Gun Sight Co. Telescope sight. 2,948,188, 8-9-60, Cl. 88-32.
- Kollmorgen, Ernst O., and J. L. Rawlings, to Redfield Gun Sight Co. Telescope rifle sight with pivoted reticle and erector lens tube. 2,955,512, 10-11-60, Cl. 88-32.
- Kolloff, Harold G.: See—  
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- Kollonitsch, Janos, R. J. Tull, and L. M. Weinstock, to Merck & Co., Inc. Preparation of 16 $\alpha$ -lower alkyl steroids. 2,944,070, 7-5-60, Cl. 260-397.45.
- Kollsman Instrument Corp.: See—  
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- Kollsman, Paul. Apparatus for modifying the chemical composition of substances by ion transfer. 2,943,989, 7-5-60, Cl. 204-301.
- Kolm, Harvard B., Jr., to Minneapolis-Honeywell Regulator Co. Hydraulic control apparatus. 2,926,696, 3-1-60, Cl. 137-623.
- Kolman Mfg. Co.: See—  
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- Kolodin, Samuel S. Automobile jack. 2,920,871, 1-12-60, Cl. 254-122.
- Kolodin, Samuel S. Pipe hanger. 2,923,509, 2-2-60, Cl. 248-62.
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- Kolodny, Edwin R.: See—  
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- Kolodny, Samuel: See—  
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- Kolodziejski, Theodore J. Toy automobile and track. 2,920,420, 1-12-60, Cl. 46-243.
- Kolpek, Robert A.: See—  
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- Kolpek, Robert A., to General Telephone Laboratories, Inc. Automatic telegraph switching system. 2,934,596, 4-26-60, Cl. 178-2.
- Kolpek, Robert A., to Automatic Electric Laboratories, Inc. Telegraph switching center arrangement. 2,963,541, 12-6-60, Cl. 178-2.
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- Koltun, Leo H. Lockable hinge for a child's car bed. 2,949,628, 8-23-60, Cl. 16-145.
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- Komarek, Karl R.: See—  
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- Kominic, Walter E., and J. W. Funk, to The Goodyear Tire & Rubber Co. Method and apparatus for filling tires with liquid. 2,929,432, 3-22-60, Cl. 152-415.
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- Komm, Ernst. Malt of improved properties, fermented malt beverages, and process of making same. 2,947,667, 8-2-60, Cl. 195-70.



- Kommanditgesellschaft Dr. Ing. Rudolf Hell: *See*—  
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- Kommanditgesellschaft Franz Kuhlmann: *See*—  
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- Komorowski, Sidney: *See*—  
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- Komorowski, Walter A. Electrician's fishing tool. 2,923,528, 2-2-60, Cl. 254-134.3.
- Kompfner, Rudolf: *See*—  
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Cook, John S., Kompfner, and Yocom. 2,939,034.
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- Kompfner, Rudolf, to English Electric Valve Co. Ltd. Travelling-wave tube. 2,928,979, 3-15-60, Cl. 315-3.6.
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- Koncos, Robert: *See*—  
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- Kondo, Yasuhiro: *See*—  
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- Kondrat, Walter. Carton holder. 2,942,828, 6-28-60, Cl. 248-145.6.
- Kondziolka, Theodore. Toy gun rack. 2,939,587, 6-7-60, Cl. 211-64.
- Konefes, Joseph H., to The Frank G. Hough Co. Tractor loaders. 2,959,305, 11-8-60, Cl. 214-140.
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- Kongelbeck, Sverre, to United States of America, Navy. Folding fin or wing for missiles. 2,925,966, 2-23-60, Cl. 244-14.
- Kongo Kagaku Kabushiki Kaisha: *See*—  
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- Konig, Oskar, to SKF Kugellagerfabriken G.m.b.H. Textile drawing process and apparatus. 2,930,085, 3-29-60, Cl. 19-131.
- König, Rezső, and Z. Földi, to Chinoin Gyogyszer-Es Vegyeszeti Termekék Gyara Rt. Process for the preparation of new aniline-disulphonic acid chloride derivatives. 2,957,909, 10-25-60, Cl. 260-543.
- Konigsbacher, Kurt S.: *See*—  
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- Koning, Hendrik B., and W. K. Vermet, to Westinghouse Electric Corp. Propulsion system. 2,941,600, 6-21-60, Cl. 170-135.4.
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Stedehouder, Pieter L., and Viven. 2,952,695.
- Koninklijke Machinefabriek Gebr. Stork & Co. N.V.: *See*—  
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Busquet, Jan C. 2,947,466.
- Koninklijke Nederlandsche Hoogovens en Staal-Fabrieken N.V.: *See*—  
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- Koninklijke Verkeade Fabrieken N.V.: *See*—  
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- Konkle, George M., and T. D. Talcott. Fluorinated organopolysiloxane rubber reinforced with polytetrafluoroethylene. 2,927,908, 3-8-60, Cl. 260-41.
- Konkle, George M., and T. D. Talcott, to Dow Corning Corp. Polytetrafluoroethylene-silicone compositions. 2,934,515, 4-28-60, Cl. 260-45.5.
- Konneker, Wilfred R., to Nuclear Corp. of America. Fixed-channel spectrometer for radioactivity. 2,943,199, 6-28-60, Cl. 250-71.
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- Konrad, Alexander. Dual flavor cigar or cigarette. 2,947,310, 8-2-60, Cl. 131-9.
- Konrad, William L., to Westinghouse Air Brake Co. Aircraft hydraulic pressure simulating system. 2,927,382, 3-8-60, Cl. 35-12.
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- Konsbruck, Robert H., to General Motors Corp. Wheel slip detection and control system. 2,939,063, 5-31-60, Cl. 318-52.
- Konstandt, Francisco G. Clothes drier. 2,919,497, 1-5-60, Cl. 34-151.
- Konstant, Anthony N. Storage rack. 2,963,169, 12-6-60, Cl. 211-134.
- Kontak Mfg. Co. Ltd.: *See*—  
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- Kontis, Sotos J. Retractable cutter blades assembly for lawn mowers. 2,939,264, 6-7-60, Cl. 56-295.
- Konz, Wilhelm: *See*—  
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- Koo, John, and W. R. Boehme, to Ethicon, Inc. Certain beta-pyridyl, dialkoxy acrylophenones. 2,945,854, 7-19-60, Cl. 260-240.
- Koochembere, Chris T.: *See*—  
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- Kool, Earl R.: *See*—  
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- Kooijman, Pieter L., F. A. Doorman, and C. Kortland, to Shell Oil Co. Process for producing a detergent mixture. 2,933,451, 4-19-60, Cl. 252-161.
- Kooker, Paul I., to General Electric Co. Room air conditioner condensate disposal. 2,927,442, 3-8-60, Cl. 62-280.
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- Kooistra, Lambert F., to The Babcock & Wilcox Co. Metallic arc welding with stabilized inert gas shielding. 2,932,721, 4-12-60, Cl. 219-74.
- Kooistra, Willem, to N.V. Koninklijke Nederlandsche Zoutindustrie. Reduction of aqueous solutions of chlorine dioxide by means of alkali or alkaline earth amalgam. 2,926,996, 3-1-60, Cl. 23-85.
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- Koolhof, Regnerus A., to North American Philips Co., Inc. System for the radiographic transmission of telegrams. 2,928,897, 3-15-60, Cl. 178-69.
- Koolnis, Stanley R., to Duo-Temp Mfg. Corp. Therapeutic shower. 2,949,109, 8-16-60, Cl. 128-66.
- Koolnis, Stanley R., to Duo-Temp Mfg. Corp. Therapeutic shower. 2,949,240, 8-16-60, Cl. 239-200.
- Koome, Jacob, G. J. F. Stijntjes, and W. K. Meerbott, to Shell Oil Co. Destructive hydrogenation of heavy cycle oils. 2,939,836, 6-7-60, Cl. 208-112.
- Koome, Jacob, and G. J. F. Stijntjes, to Shell Oil Co. Catalytic hydrogenation of sulfur-bearing hydrocarbon oils. 2,947,685, 8-2-60, Cl. 208-216.
- Koon, William D.: *See*—  
Crump, William M., and Klockmann. 2,923,516.
- Koones, Harold F., to Chemway Corp. Package. 2,950,813, 8-30-60, Cl. 206-63.2.
- Koons, Clarence J., and G. D. Archdeacon, to United States of America, Air Force. Cable sling coupling. 2,925,299, 2-16-60, Cl. 294-78.
- Koons, George C.: *See*—  
Forgy, John G., and Koons. 2,937,544.
- Koons, Harry M. Valve assembly. 2,952,439, 9-13-60, Cl. 251-357.
- Koons, Irvin L.: *See*—  
Mogulescu, Jack H., and Koons. 2,934,214.  
Mogulescu, Jack H., and Koons. 2,934,215.
- Koons, William A.: *See*—  
Greene, Raymond H., and Koons. 2,933,123.
- Koontz, Carl J. Saddle rack. 2,953,252, 9-20-60, Cl. 211-13.
- Koontz, Victor F., to Dravo Corp. Sinter breaking apparatus. 2,965,321, 12-20-60, Cl. 241-294.
- Kooperativa Forbundet: *See*—  
Dzaack, Heinz A. 2,932,500.  
Dzaack, Heinz A. 2,961,647.  
Jensen, Eryvind E. 2,953,986.
- Kooperativa Forbundet, Ekonomisk Forening: *See*—  
Dzaack, Heinz A. 2,950,462.
- Koopmans, Martinus J.: *See*—  
Ublenbroek, Jan H., and Koopmans. 2,959,518.
- Kop, Carl F., to General Motors Corp. Overdrive unit and control therefor. 2,946,240, 7-26-60, Cl. 74-752.
- Kopeck, Stanley J. Transmission. 2,964,977, 12-20-60, Cl. 24-781.
- Kopf, Anna R.: *See*—  
Kopf, Joseph L. 2,952,452.
- Kopf, Joseph L., deceased (A. R. Kopf, executrix), to Jabez Burns & Sons, Inc. Roasting apparatus. 2,952,452, 9-13-60, Cl. 263-32.
- Kopf, Rowland J.: *See*—  
Henning, Robert W., and Kopf. 2,957,175.  
Henning, Robert W., Kopf, and Marsh. 2,957,176.  
Henning, Robert W., Pfaff, and Kopf. 2,954,717.
- Kopf, Rowland J., to Olin Mathieson Chemical Corp. Fluid operated tool. 2,964,752, 12-20-60, Cl. 1-106.
- Kopf, Rowland J., and C. J. De Caro, to Olin Mathieson Chemical Corp. Fastener arresting device for power actuated tool. 2,925,602, 2-23-60, Cl. 1-106.
- Kopf, Rowland J., R. W. Henning, and R. Marsh, to Olin Mathieson Chemical Corp. Safety control means for explosively actuated tools. 2,925,604, 2-23-60, Cl. 1-106.
- Kopf, Rowland J., R. W. Henning, and R. Marsh, to Olin Mathieson Chemical Corp. Explosively actuated tools. 2,945,236, 7-19-60, Cl. 1-106.
- Kopf, Rowland J., R. W. Henning, and R. Marsh, to Olin Mathieson Chemical Corp. Explosively actuated tools. 2,946,061, 7-26-60, Cl. 1-106.
- Kopletz, Frank. Device for feeding fish. 2,961,994, 11-29-60, Cl. 119-51.



- Kopley, James P., to Printing Arts Research Laboratories, Inc. Ultraviolet absorbing watercolor paint compositions. 2,944,912, 7-12-60, Cl. 106-193.
- Koplin, Hans O., to General Motors Corp. Vehicle seat. 2,926,951, 3-1-60, Cl. 296-66.
- Koplin, Hans O., to General Motors Corp. Seating arrangement for vehicle bodies. 2,956,837, 10-18-60, Cl. 296-66.
- Koplin, Hans O., J. O. C. Pietsch, H. W. Roach, and T. Stewart, to General Motors Corp. Folding seat structure for a vehicle body. 2,926,948, 3-1-60, Cl. 296-66.
- Koplin, Harry, to Zephyr Laundry Machinery Co. Clothes washing machine. 2,928,269, 3-15-60, Cl. 68-27.
- Koplin, Harry, and A. R. Slate, Sr., to Zephyr Laundry Machinery Co. Oil well pump drive unit. 2,934,899, 5-3-60, Cl. 60-52.
- Kopp, Philip E., Hollow wall tile and structures made therefrom. 2,954,646, 10-4-60, Cl. 50-262.
- Kopp, Sigmund, and A. S. Denton, to Alco Products, Inc. Steam generators. 2,922,404, 1-26-60, Cl. 122-34.
- Kopp, Wenzel P.: See—
- Conley, Weld E., and Kopp. 2,924,273.
- Conley, Weld E., Kopp, Olson, and Behn. 2,924,271.
- Kopp, Wilhelm, and H. Ploss, to Adox-Kamarawerk G.m.b.H. Cameras. 2,924,158, 2-9-60, Cl. 95-31.
- Kopp, Wilhelm, H. Ploss, and H. Hell, to Adox Kamerawerk G.m.b.H. Cameras. 2,948,204, 8-9-60, Cl. 95-31.
- Kopp, Wilhelm, and H. Hell, to Adox Kamerawerk G.m.b.H. Cameras. 2,960,017, 11-15-60, Cl. 95-31.
- Kopparfors Aktiebolag: See—
- Holgersson, Sigbjörn P. H. E., and Groth. 2,932,602.
- Wiman, Karl O. 2,937,484.
- Köppe, Herbert: See—
- Zelle, Karl Köppe, and Konz. 2,951,828.
- Koppell, Harold H., to Bailey Meter Co. Anti-hunt electrical measuring system. 2,930,956, 3-29-60, Cl. 318-28.
- Koppelman, Edward, to 3-D Weaving Co. Machine for manufacturing rugs. 2,954,749, 10-4-60, Cl. 112-79.
- Koppers Co., Inc.: See—
- Dobratz, Elmer H. 2,921,876.
- Donath, Ernest E. 2,925,335.
- Drenning, John W., Williams, and Snader. 2,922,085.
- Easton, Rufus. 2,948,030.
- Easton, Rufus, and Haussner. 2,920,359.
- Goldstein, Irving S. 2,931,741.
- Goldstein, Irving S. 2,933,413.
- Hale, William T. 2,962,332.
- Haussner, Theodor H. W., and Meyer. 2,948,418.
- Helm, Edward J. 2,921,837.
- Helm, Edward J. 2,922,751.
- Helm, Edward J., and Schulte. 2,946,655.
- Helm, Edward J., and Schulte. 2,961,065.
- Houston, John C. 2,945,258.
- Houston, John C., and Tress. 2,941,964.
- Ingram, Alvin R. 2,941,965.
- Jeltsch, Arnold E. 2,931,823.
- Jenkins, Starling B. 2,945,523.
- Knapp, Arnold and Zellerhoff. 2,919,980.
- Kuchler, Theodore C., and Taschenberg. 2,956,824.
- Lagarlas, John S. 2,962,120.
- Lemmerman, Richard D. 2,956,637.
- Mullins, Frederick C. 2,945,630.
- Niebergall, Heins, and Langenfeld. 2,959,621.
- Nilsson, Sven A. 2,944,480.
- Nitchie, Charles D. 2,961,951.
- Rice, Owen R. 2,964,304.
- Sattler, Emil. 2,939,891.
- Schmalenbach, Adolf, and Sattler. 2,925,450.
- Schweinford, Fred M. 2,923,255.
- Shackelford, James M., and Schwartzman. 2,963,516.
- Shackelford, James M., and Schwartzman. 2,963,524.
- Snader, Earle S. 2,962,541.
- Stirling, Harold T. 2,920,344.
- Sturrock, Murray G., Cline, and Robinson. 2,942,030.
- Sturrock, Murray G., Cline, Robinson, and Zergher. 2,964,529.
- Suhrie, Eugene C. 2,921,930.
- Thomas, John B., Williams, and Drenning. 2,961,577.
- Totzek, Friedrich. 2,920,945.
- Tucker, Linwood G., Jr., and Kantor. 2,946,112.
- Van Ackeren, Joseph. 2,966,394.
- Wasserman, Charles. 2,925,142.
- Koppring, Nicholas. Apparatus for forming and applying hog ring connectors. 2,924,826, 2-16-60, Cl. 1-177.
- Koppi, Ernest. Joint construction and jarring tool. 2,963,101, 12-6-60, Cl. 175-294.
- Kopprasch, William A., and C. Nye. Mail box. 2,945,621, 7-19-60, Cl. 232-24.
- Koranda, Clarence J., and W. E. Fritz, to Enterprise Railway Equipment Co. Combination discharge outlet for hopper cars. 2,950,143, 8-23-60, Cl. 302-52.
- Koranye, Theodore D.: See—
- Johnson, Reynold B., Moneagle, Koranye, Jurgens, and Prater. 2,951,699.
- Korb, George E.: See—
- Gelb, Amiel, and Korb. 2,953,844.
- Korb, George E., to Bell Telephone Laboratories, Inc. Directional couplers. 2,930,995, 3-29-60, Cl. 333-10.
- Korber, Eugene. Tank loading and unloading device. 2,941,677, 6-21-60, Cl. 214-17.
- Korber, Kurt, to Kurt Korber & Co. K.G. Method of manufacturing hollow tipped filter tips for cigarettes. 2,920,631, 1-12-60, Cl. 131-94.
- Korber, Kurt, & Co., K.G.: See—
- Döpke, Werner. 2,949,918.
- Korber, Kurt. 2,920,631.
- Peters, Otto. 2,940,795.
- Pollmann, Max. 2,930,507.
- Pollmann, Max. 2,942,757.
- Pollmann, Max., and Lakos. 2,924,356.
- Ritscher, Arthur. 2,930,294.
- Rudszinat, Willy. 2,927,678.
- Korchynsky, Michael, and W. Crafts, to Union Carbide Corp. Austenitic alloy steel. 2,955,034, 10-4-60, Cl. 75-128.
- Kordak, John A., R. J. Munch, and L. Rapoport, to American Cyanamid Co. Lactonitrile. 2,937,196, 5-17-60, Cl. 260-465.6.
- Kordes, Heinrich, to Klockner-Georgsmarienwerke Aktien-gesellschaft. Disc wheels. 2,954,259, 9-27-60, Cl. 295-11.
- Kordes, Karl: See—
- Marsal, Paul A., Kordes, and Urry. 2,960,558.
- Kordes, Karl, to Union Carbide Corp. Air-depolarized deferred action cell. 2,935,547, 5-3-60, Cl. 136-86.
- Kordes, Karl, to Union Carbide Corp. Air-depolarized cell. 2,938,064, 5-24-60, Cl. 136-86.
- Kordes, Karl, to Union Carbide Corp. Cement bonded cathodes. 2,962,540, 11-29-60, Cl. 136-123.
- Kordish, Paul J. Storage rack for bowling pins. 2,966,270, 12-27-60, Cl. 211-13.
- Kordite Corp.: See—
- Williamson, John M., and Bogart. 2,925,175.
- Koren, Helman W., to Sonotone Corp. Magnetic record transducing heads. 2,920,149, 1-5-60, Cl. 179-100.2.
- Koren, Heribert, F. Hoelkeskamp, P. Schubert, and R. Linder, to J. P. Bemberg, Aktiengesellschaft. Improved production of regenerated cellulose film by the cuprammonium process. 2,962,765, 12-6-60, Cl. 18-57.
- Koren Research & Engineering Co.: See—
- Reykjalin, Charles. 2,949,175.
- Korger, Gerhard: See—
- Haack, Erich, Hagedorn, Ruschig, and Korger. 2,964,560.
- Ruschig, Heinrich, Korger, and Neemann. 2,923,737.
- Korman, Jerome, to The Upjohn Co. Pyrimidine derivatives. 2,944,057, 7-5-60, Cl. 260-256.5.
- Korman, Jerome, to The Upjohn Co. 6-lower alkyl carbox-amidobenzothiazole-2-sulfonamide. 2,957,002, 10-18-60, Cl. 260-306.6.
- Korman, Samuel: See—
- Sheer, Charles, and Korman. 2,960,726.
- Korn, Bernard B., to Hughes Aircraft Co. Ring assembly quick disconnect nose. 2,932,252, 4-12-60, Cl. 102-49.
- Korn, Bernard B., to Hughes Aircraft Co. Nose section-quick disconnect. 2,945,704, 7-19-60, Cl. 285-18.
- Korn, Hugo, Jr., and R. P. Crow, to Motorola, Inc. Neutralized transistor amplifier. 2,940,051, 6-7-60, Cl. 330-27.
- Korn, Irving, J. S. Kaye, V. C. Pierce, W. Walworth, and J. Huscher, to Kaye-Tex Mfg. Corp. Thermoplastic laminate for use in lining storage tanks. 2,956,915, 10-18-60, Cl. 154-43.
- Korn, Karl E.: See—
- Huber, Henry J., and Korn. 2,934,100.
- Korn, Paul P., to Arco Mfg. Corp. Gas filtering apparatus. 2,964,127, 12-13-60, Cl. 183-45.
- Korn, Waldemar H. Dust guard and well cap. 2,951,718, 9-6-60, Cl. 286-6.
- Korneff, Theodore: See—
- Nadig, Francis H., Bohn and Korneff. 2,961,918.
- Kornhaus, Floyd I. Device for sand-blasting bores. 2,951,319, 9-6-60, Cl. 51-8.
- Korol, Matthew S.: See—
- Bourassa, Robert H., and Korol. 2,921,752.
- Korpi, Edwin O., and R. P. Davis, to The Procter & Gamble Co. Concentrated liquid detergent. 2,941,950, 6-21-60, Cl. 252-153.
- Korr, Abraham L.: See—
- Richman, Jacob S., and Korr. 2,930,312.
- Korte, Alfred C., to ACF Industries, Inc. Fuel pump lever stabilizer. 2,919,654, 1-5-60, Cl. 103-215.
- Korte, Alfred C., to ACF Industries, Inc. Compact fuel filter. 2,932,398, 4-12-60, Cl. 210-223.
- Kortick, Leonard R. Multicolor silhouette drawing paper. 2,926,102, 2-23-60, Cl. 117-45.
- Kortick, Leonard R. Launching device and rocket propelled missile therefor. 2,939,449, 6-7-60, Cl. 124-28.
- Kortland, Cornells: See—
- Koolman, Pieter L., Doorman, and Kortland. 2,933,451.
- Kortum, Herbert, and K. Papello, to VEB Carl Zeiss Jena. Measuring devices. 2,946,129, 7-26-60, Cl. 33-172.
- Kortum, Robert E., to Atlas Tool & Mfg. Co. Lawn mower handle. 2,966,365, 12-27-60, Cl. 280-47.37.
- Kosach, John J. Single wheel skate. 2,931,012, 3-29-60, Cl. 340-81.
- Kosar, Jaromir, to Keuffel & Esser Co. Photosensitive material. 2,963,366, 12-6-60, Cl. 96-83.
- Kosatka, Thomas O., to Victor Mfg. & Gasket Co. Face type sealing device. 2,930,644, 3-29-60, Cl. 288-3.
- Kosbab, Kenneth A.: See—
- Hart, John G., and Kosbab. 2,957,193.
- Kosch Co.: See—
- Kosch, Max A. 2,942,976.
- Kosch, Max A., to Kosch Co. Method of pelleting roughage crops. 2,942,976, 6-28-60, Cl. 99-8.



- Koschmann, Robert B.: *See*—  
Short, Frederick R., and Koschmann. 2,962,809.
- Koschmieder, Adolf, to American Enka Corp. Impulse generator. 2,953,651, 9-20-60, Cl. 200-23.
- Kosinsky, Edward J.: *See*—  
Goins, Robert R., and Kosinsky. 2,952,038.
- Koskela, Elmer V. Adjustable support for film strip and slide projector. 2,939,659, 6-7-60, Cl. 248-11.
- Koskela, Robert B., to American Forging and Socket Co. Parking brake. 2,940,334, 6-14-60, Cl. 74-539.
- Koski, William A., and P. R. Maguire; said Maguire assor. to said Koski. Arm stiffening device. 2,943,859, 7-5-60, Cl. 273-189.
- Koslow, George E.: *See*—  
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- Koslow, George E. Electronic amplifiers. 2,958,015, 10-25-60, Cl. 317-130.
- Kosma, Andrew R. Projector for animated advertising displays. 2,959,094, 11-8-60, Cl. 88-24.
- Kosmin, Milton, to Monsanto Chemical Co. Episulfide compounds. 2,965,651, 12-20-60, Cl. 260-327.
- Kosow, Irving L.: *See*—  
Agolliati, Frank, Kosow, and Siegel. 2,953,154.
- Kosowsky, David I., to Hermes Electronics Co. Intermediate band width crystal filter. 2,929,031, 3-15-60, Cl. 333-72.
- Kosowsky, David I., to Hycon Eastern, Inc. Selective low distortion crystal filter. 2,959,752, 11-8-60, Cl. 333-72.
- Kosowsky, Leo K., to Columbia Broadcasting System, Inc. Electroplating process and apparatus. 2,962,427, 11-29-60, Cl. 204-34.
- Koss, Norman A.: *See*—  
Hodges, Merwyn E., and Koss. 2,922,109.
- Koss, Norman A., to General Electric Co. Electric circuit. 2,920,242, 1-5-60, Cl. 317-36.
- Kossow, Michael W., and M. M. Voegeli, to Swift & Co. Method of manufacturing a dietetic cured food product and composition therefor. 2,966,416, 12-27-60, Cl. 99-222.
- Kosswig, Ernest H. Sterilizing holder for syringe parts. 2,929,117, 3-22-60, Cl. 21-86.
- Kost, Alwin, and G. P. Quillic, to Kost Multiple X, Inc. Eccentrically adjustable vehicle front wheel mounting devices. 2,923,555, 2-2-60, Cl. 280-96.1.
- Kost Multiple X, Inc.: *See*—  
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- Kostelec, Joze, and H. F. Nitka, to General Aniline & Film Corp. Photoconductive layer for recording element and method of producing same. 2,940,848, 6-14-60, Cl. 96-1.
- Kosteletzky, Walter. Parachute and method of making same. 2,952,429, 9-13-60, Cl. 244-145.
- Kosten, Leendert, A. J. van der Toorn, and R. M. M. Oberman, to de Staat der Nederlanden, ten Deze Verteenwoordigd Door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie. Information bearer for recording figures in a styled form. 2,963,220, 12-6-60, Cl. 235-61.12.
- Kostenko, Michael, and G. W. Soderman, to Western Electric Co., Inc. Wire control for wire feeding machine. 2,953,290, 9-20-60, Cl. 226-151.
- Koster, Sebron: *See*—  
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- Kostic, Andy H., to Libbey-Owens-Ford Glass Co. Glass bending mold. 2,943,420, 7-5-60, Cl. 49-67.
- Kostka, Charles. Pin-and-slat, angle-drive wrench. 2,938,415, 5-31-60, Cl. 81-57.
- Kostka, Charles. Socket wrench. 2,947,209, 8-2-60, Cl. 81-58.3.
- Kostner, Walter: *See*—  
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- Kostriza, John A.: *See*—  
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- Kostyren, George, 1/2 to L. B. Guller. Method of converting crank case oil to usable oil. 2,922,758, 1-26-60, Cl. 208-183.
- Kothen, Charles W., to Union Carbide Corp. Siliconized inert base materials. 2,925,357, 2-16-60, Cl. 117-121.
- Kotlar, Edward A., 1/2 to J. Reed Alexander. Downspout diverter. 2,966,171, 12-27-60, Cl. 137-561.
- Kotler, Max: *See*—  
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- Kotlin, James J., O. Tuxen, and R. B. Wallis, to General Motors Corp. Fuel control mechanism for a dual fuel engine. 2,929,366, 3-22-60, Cl. 123-27.
- Kotsch, William E., to General Electric Co. Electric lamp and method of manufacture. 2,924,736, 2-9-60, Cl. 313-279.
- Kotte, Willy: *See*—  
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- Kottemann, James B.: *See*—  
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- Kotter, James I.: *See*—  
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- Kotter, James I., and M. Mayer, Jr., to United States of America, Agriculture. Fiber cleaner. 2,934,793, 5-3-60, Cl. 19-58.
- Kotter, James I., and M. Mayer, Jr., to United States of America, Agriculture. Fiber cleaner. 2,951,265, 9-6-60, Cl. 19-87.
- Kottler, August: *See*—  
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- Kouba, Delore L., J. T. Paul, Jr., and F. S. Stow, Jr., to Hercules Powder Co. Apparatus for stage-wise nitration of toluene. 2,951,746, 9-6-60, Cl. 23-266.
- Kouba, Delore L., J. T. Paul, Jr., and F. S. Stow, Jr., to Hercules Powder Co. Process for the preparation of trinitrotoluene. 2,951,877, 9-6-60, Cl. 260-645.
- Koulicovitch, Miron, to Societe Genevoise d'Instruments de Physique. Photo-electric microscope. 2,960,612, 11-15-60, Cl. 250-230.
- Kouvel, James S., and C. D. Graham, Jr., to General Electric Co. Magnets having one easy direction of magnetization. 2,961,360, 11-22-60, Cl. 148-103.
- Kovac, Michael, to Melin Tool Co., Inc. Indexing attachment for milling machines and the like. 2,923,206, 2-2-60, Cl. 90-11.62.
- Kovach, John E., to The Bergen Machine & Tool Co., Inc. Aggregate feed and stripper apparatus for concrete block machines. 2,963,762, 12-13-60, Cl. 25-41.
- Kovach, Julius W., to American Radiator & Standard Sanitary Corp. Detachable mounting for solenoid coil. 2,946,551, 7-26-60, Cl. 251-30.
- Kovach, Julius W., S. T. Noall, Jr., and T. J. Cialek, to American Radiator & Standard Sanitary Corp. Noiseless mixing valve. 2,951,641, 9-6-60, Cl. 236-12.
- Kovach, Stephen M., and R. A. Sanford, to Sinclair Refining Co. Production of 4-methylindan and 5-methylindan. 2,927,949, 3-8-60, Cl. 260-668.
- Kovacs, Julius P.: *See*—  
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- Kovacs, Theodor. Fountain pen with overflow chamber situated in the front part of the fountain pen body. 2,935,969, 5-10-60, Cl. 120-50.
- Koval, Robert M.: *See*—  
Bury, Nellie V., Serrao, and Koval. 2,946,493.
- Kovalick, Frank. Trap for catch basins. 2,947,321, 8-2-60, Cl. 137-516.25.
- Kovaleski, Joseph J., to The Coulter & McKenzie Machine Co. Flyer type wire coiling machine. 2,929,575, 3-22-60, Cl. 242-82.
- Kovaleski, Joseph J., and T. B. Lewis, Jr., to The Coulter & McKenzie Machine Co., Inc. Package and container forming part thereof. 2,943,732, 7-5-60, Cl. 215-59.
- Kovalsky, Jean I., to International Telephone and Telegraph Corp. Cooling system for electronic apparatus. 2,933,903, 4-26-60, Cl. 62-222.
- Kovo-Finish, narodni podnik: *See*—  
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- Kowalczyk, Robert J. Bow sight. 2,959,860, 11-15-60, Cl. 33-46.
- Kowalczyk, Walter, to Gadget-Of-The-Month Club, Inc. Fishing aid. 2,948,981, 8-16-60, Cl. 43-16.
- Kowalesky, Raymond J.: *See*—  
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- Kowalewski, John J., to Electrolux Corp. Turbine driven floor tool. 2,930,069, 3-29-60, Cl. 15-375.
- Kowalik, John J., to International Harvester Co. Rotary rake with oscillating striper. 2,924,061, 2-9-60, Cl. 56-377.
- Kowalik, John J., to International Harvester Co. Utility forage harvester. 2,947,129, 8-2-60, Cl. 56-1.
- Kowalski, Frank J., and M. Scavone, to Bethlehem Steel Co. Adjustable side shell staging. 2,966,228, 12-27-60, Cl. 182-150.
- Kowalski, Slawomir, to Marotta Valve Corp. Solenoid-operated poppet-type shut-off valve. 2,925,984, 2-23-60, Cl. 251-26.
- Kowalski, Slawomir, and D. A. Worden, to Marotta Valve Corp. Three-way poppet-valve construction for plug-type valve. 2,930,404, 3-29-60, Cl. 137-625.25.
- Kowalski, Walter: *See*—  
Fjellstedt, Thorsten A., Jones, Kowalski, and Seaquist. 2,948,794.
- Kowalsky, John, H. Saltzman, and P. R. Cloud, to General Precision, Inc. Overwater antenna. 2,953,784, 9-20-60, Cl. 343-770.
- Kowalshyn, Stephen, T. A. Daly, L. S. Jones, W. O. Osbon, and C. G. Beatty, to United States of America, Navy. Torpedo depth control system. 2,938,486, 5-31-60, Cl. 114-25.
- Kowalshyn, Stephen, Jr.: *See*—  
Daly, Thomas A., and Kowalshyn. 2,948,248.
- Johnson, Thomas D., Jones, and Kowalshyn. 2,955,558.
- Kowalshyn, Stephen, Jr., O. Eikel, Jr., and R. G. Warren, to United States of America, Navy. Device for limiting climb and dive angles in a torpedo. 2,946,868, 7-26-60, Cl. 200-61.48.
- Kowarsky, Isadore, to Universal Match Corp. Method of hardening shellac and gum arabic. 2,929,732, 3-22-60, Cl. 106-208.
- Kowatsch, Albin, and H. Larwin. Motor operated eraser for electric typewriters. 2,921,662, 1-19-60, Cl. 197-181.
- Kowatschitsch, Josef, and A. Lehmann, to Elin Aktiengesellschaft für elektrische Industrie. Transformer. 2,960,672, 11-15-60, Cl. 336-58.
- Koxvold, Leif F. Apparatus for producing hollow articles by dewatering fiber pulp. 2,922,476, 1-26-60, Cl. 162-392.
- Kozacka, Frederick J.: *See*—  
Jacobs, Philip C., and Kozacka. 2,920,241.
- Jacobs, Philip C., Jr., and Kozacka. 2,964,604.
- Kozacka, Frederick J., to The Chase-Shawmut Co. Current-limiting low-voltage fuses. 2,939,934, 6-7-60, Cl. 200-131.
- Kozacka, Frederick J., to The Chase-Shawmut Co. Fuse structures. 2,939,935, 6-7-60, Cl. 200-131.



- Kozacka, Frederick J., to The Chase-Shawmut Co. Coordination of current-limiting fuses and circuit interrupters for the protection of semi-conductor rectifiers. 2,961,593, 11-22-60, Cl. 321-14.
- Kozak, Edward, to National Malleable and Steel Castings Co. Coupler operating mechanism. 2,949,195, 8-16-60, Cl. 213-168.
- Kozak, John P.: See—  
Jankauskas, George P. 2,953,413.  
St. Clair, William B. 2,956,848.  
Schulte, Elwood V., and Stirling. 2,956,639.  
Tuche, Hans H., Pfutz, and Lagarias. 2,956,640.
- Kozak, John W., to F. L. Wells. Coil assembling machine. 2,930,413, 3-29-60, Cl. 140-92.7.
- Kozdas, Anton B. Surgical dressings. 2,933,083, 4-19-60, Cl. 128-89.
- Kozel, James A., V. E. Rimsha, and R. H. Powell, to The Dole Valve Co. Pressure switch. 2,939,927, 6-7-60, Cl. 200-83.
- Kozelka, Stephen. Vending machine. 2,960,374, 11-15-60, Cl. 312-218.
- Kozinski, Joseph, to H. G. Fisher & Co. Electrical apparatus. 2,935,548, 5-3-60, Cl. 174-17.
- Kozlekedi Meromuszerek Gyara: See—  
Tagany, Gyorgy, and Vidal. 2,957,160.
- Kozlik, Milan S., 1/2, to Jacob J. Cohn. Non-refillable bottle cap. 2,954,889, 10-4-60, Cl. 215-21.
- Kozloff, Lloyd M., 70% to Hightower-Morse & Co., 10% to B. Wolnak, and 5% to J. P. Antonow. Mothproofing of keratinaceous materials. 2,945,735, 7-19-60, Cl. 8-17.
- Kozloff, Lloyd M., 70% to Hightower-Morse & Co., 10% to B. Wolnak, and 5% to J. P. Antonow. Mothproofing of keratinaceous materials. 2,945,736, 7-19-60, Cl. 8-17.
- Kraay, Lawrence E., to Inland Steel Co. Temperature control during metal casting. 2,928,150, 3-15-60, Cl. 22-214.
- Krabbe, Ulrik H., and H. M. Sorensen, to Allis-Chalmers Mfg. Co. Magnetic amplifier. 2,932,787, 4-12-60, Cl. 325-89.
- Krach, Anthony E., to The Cuyahoga Spring Co. Spring clip for securing sheets of varying thicknesses. 2,958,914, 11-8-60, Cl. 24-73.
- Kracht, Carl M. Fishhook. 2,938,296, 5-31-60, Cl. 43-43.16.
- Kracht, Ernst: See—  
Lohr, Friedrich, Freytag, and Kracht. 2,930,794.
- Krack, Elmer J., to Gulf Research & Development Co. Apparatus for grinding a magnetic signal transducing head. 2,953,986, 11-8-60, Cl. 51-98.
- Kracker, Herbert, H. Albert, and W. Staab, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Azo-dyestuffs insoluble in water. 2,937,166, 5-17-60, Cl. 260-153.
- Kracker, Herbert, R. Bamberger, R. Mohr, and J. Ribka, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Azo-dyestuffs insoluble in water. 2,950,274, 8-23-60, Cl. 260-148.
- Kracker, Herbert, and H. Albert, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Azo-dyestuffs insoluble in water. 2,950,275, 8-23-60, Cl. 260-188.
- Kracker, Herbert, and H. Albert, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Solid, stable diazonium compounds. 2,961,436, 11-22-60, Cl. 260-141.
- Kradoska, Edward C. Locking ring rolling machine. 2,940,501, 6-14-60, Cl. 153-54.
- Kraeling, John B., to Drafto Corp. Crane wheels. 2,946,632, 7-26-60, Cl. 308-190.
- Kraemer, William C.: See—  
Eck, John C., and Kraemer. 2,964,517.
- Kraepelin, Robert C. Pilot actuated disk clutch. 2,933,171, 4-19-60, Cl. 192-35.
- Krafft, Frederic B., and F. K. Roberts, to Anaconda Wire and Cable Co. Packaging wire. 2,959,279, 11-8-60, Cl. 206-52.
- Krafft, Frederic B., F. K. Roberts, and L. Lorenz, to Anaconda Wire and Cable Co. Packaging of wire. 2,966,258, 12-27-60, Cl. 206-32.
- Krafft, Frederic G., to The Thompson Grinder Co. Grinding machines. 2,926,653, 3-1-60, Cl. 125-11.
- Krafft, Frederick G., and W. Ernst, to The Thompson Grinder Co. Pump control. 2,921,439, 1-19-60, Cl. 60-52.
- Krafft, Robert E.: See—  
Saylor, Matthias W., Harter, and Krafft. 2,964,840.
- Krafft, William R.: See—  
Bolgiano, Ralph, Jr., Hurley, and Krafft. 2,946,044.
- Kraft, Alfred: See—  
Kampf, Erhard, and Kraft. 2,939,469.
- Kraft, August L. Metering and dispensing systems. 2,946,488, 7-26-60, Cl. 222-134.
- Kraft, August L. Vacuum casting equipment. 2,957,502, 10-25-60, Cl. 141-61.
- Kraft, George H.: See—  
Coffey, Frank O., Hayhurst, and Kraft. 2,955,045.  
Gorman, William A., Christie, and Kraft. 2,937,093.  
Podlesak, Harry G., Kraft, and Miller. 2,919,990.  
Podlesak, Harry G., Kraft, and Miller. 2,951,324.  
Podlesak, Harry G., Kraft, and Miller. 2,951,325.
- Kraft, George H., H. W. Grossen, and K. Bell, to National Dairy Products Corp. Packaging. 2,949,372, 8-16-60, Cl. 99-178.
- Kraft, Herman T., to The General Tire & Rubber Co. Apparatus for molding a seamless annular tread band. 2,963,743, 12-13-60, Cl. 18-42.
- Kraft, Melvin G.: See—  
Grover, Philip D., and Kraft. 2,950,373.
- Kraft, Richard A., to Motorola, Inc. Television receiver. 2,932,766, 4-12-60, Cl. 315-27.
- Kraft, Richard A., to Motorola, Inc. Television receiver. 2,938,951, 5-31-60, Cl. 178-7.5.
- Kraft, Richard A., to Motorola, Inc. Television receiver. 2,948,776, 8-9-60, Cl. 178-7.5.
- Kraft, Rupert. Screen printing machine comprising endless templates. 2,947,246, 8-2-60, Cl. 101-122.
- Kraft, Walter, to SKF Kugellagerfabriken Gesellschaft mit beschränkter Haftung. Double-apron drafting mechanism. 2,955,330, 10-11-60, Cl. 19-131.
- Kraft, William M., to Heyden Newport Chemical Corp. Catalyst for the preparation of improved alkyd resins. 2,945,830, 7-19-60, Cl. 260-22.
- Kraftson, Harry A.: See—  
Fowle, George D., Jr., and Kraftson. 2,930,237.
- Kragh-Hansen, Svend: See—  
Vajda, Peter, Rooney, Kragh-Hansen, and Kay. 2,951,289.
- Krahn, Donald J. Animal leg restrainer. 2,955,571, 10-11-60, Cl. 119-128.
- Krahulec, Fred. Phonograph record player. 2,939,715, 6-7-60, Cl. 274-15.
- Kraich, William B., and C. M. Dean, to Monsanto Chemical Co. Separation of selenium compounds from sulfur trioxide. 2,958,572, 11-1-60, Cl. 23-2.
- Krajcovic, Edward J. Paper cup cover. 2,957,614, 10-25-60, Cl. 229-7.
- Krajewski, Edward P., to General Motors Corp. Pop-up arm rest. 2,955,648, 10-11-60, Cl. 155-198.
- Krakora, James J., Jr.: See—  
Parinet, Bernard S., and Krakora. 2,947,812.
- Kral, Fred G., to Guardian Electric Mfg. Co. Presettable automatic timing device. 2,921,151, 1-12-60, Cl. 200-38.
- Kral, Jarmla M. Z.: See—  
Kral, Karel B. 2,925,850.
- Kral, Karel B., deceased, by J. M. Z. Kral, executor. Apparatus for splicing cinematograph film. 2,925,850, 2-23-60, Cl. 154-42.1.
- Krall, Harry J.: See—  
Bartlett, Lawrence C., and Krall. 2,932,855.
- Kralovec, Robert D., and P. N. Richardson, to E. I. du Pont de Nemours and Co. Antioxidant composition for polyoxymethylenes. 2,966,476, 12-27-60, Cl. 260-45.95.
- Kralowetz, Bruno. Machine for hot-forming bar stock. 2,945,934, 7-19-60, Cl. 219-7.5.
- Krait, Teunis, and J. van Dijk, to North American Philips Co., Inc. Method of producing quaternary ammonium compounds. 2,933,530, 4-19-60, Cl. 260-567.6.
- Kramcsak, Michael, Jr., and R. E. Sheahan, to The Bassick Co. Caster having a compensator clip. 2,963,732, 12-13-60, Cl. 16-21.
- Kramen, Frank H.: See—  
Pipes, George R., and Kramen. 2,944,698.
- Kramen, Frank H., and D. L. Previte, to Eaton Mfg. Co. Pulley. 2,919,592, 1-5-60, Cl. 74-230.8.
- Kramer, Clarence F., to Ford Motor Co. Automobile seat construction. 2,955,644, 10-11-60, Cl. 155-5.
- Kramer, Charlotte R.: See—  
Rosenthal, Samuel, and Rupp. 2,956,714.
- Kramer, Daniel E.: See—  
Malkoff, Hyman, Frie, and Kramer. 2,963,882.  
Mical, William, and Kramer. 2,934,911.
- Kramer, Daniel E., to Mercer Engineering Co. Heat exchange system of the evaporative type with means for maintaining liquid supply line pressure. 2,949,750, 8-23-60, Cl. 62-196.
- Kramer, David N., R. D. Morin, and R. H. Poirier, to United States of America, Army. Detection of G agents. 2,926,072, 2-23-60, Cl. 23-232.
- Kramer, George M., to Esso Research and Engineering Co. Paraffin alkylation with surface active agents. 2,965,693, 12-20-60, Cl. 260-683.53.
- Kramer, George M., and G. R. Gilbert, to Esso Research and Engineering Co. Paraffin alkylation reactions promoted with fluoroalcohol. 2,963,526, 12-6-60, Cl. 260-683.53.
- Kramer, Gideon, and R. B. Dickey, to Pacific Car and Foundry Co. Bulkhead-type door construction. 2,926,040, 2-23-60, Cl. 296-44.
- Kramer & Grebe Kg. Maschinen-U. Modellfabrik: See—  
Grebe, Ludwig. 2,934,115.
- Kramer, Herman, to Westinghouse Electric Corp. Terminal-bushing with means for controlling magnetic heating. 2,933,551, 4-19-60, Cl. 174-152.
- Kramer, James H., and W. R. Moshier, to Kramer Machine and Engineering Products Co. Closure for pressure vessels. 2,954,141, 9-27-60, Cl. 220-39.
- Kramer, Kenneth A.: See—  
Carlzen, Carl F., Kramer, and Lehner. 2,928,165.
- Kramer, Lawrence I., and O. A. Morley, to McCall Corp. Book binding machine. 2,962,733, 12-6-60, Cl. 11-4.
- Kramer, Leo: See—  
Skogg, Donald K., and Kramer. 2,953,903.
- Kramer, Lewis. Elastic slipper. 2,926,433, 3-1-60, Cl. 36-9.
- Kramer Machine and Engineering Products Co.: See—  
Kramer, James H., and Moshier. 2,954,141.



- Kramer, Noah H., and H. W. Mathers, to International Business Machines Corp. Switching apparatus. 2,926,339, 2-23-60, Cl. 340-174.
- Kramer, Paul, to Curtiss-Wright Corp. Apparatus for measuring wall thickness or density by radiation detection. 2,943,202, 6-28-60, Cl. 250-83.6.
- Kramer, Ralph E.: *See*—  
Blumquist, Frank L., and Kramer. 2,924,191.
- Kramer, Richard W., to International Harvester Co. Disk harrow. 2,931,447, 4-5-60, Cl. 172-572.
- Kramer, Richard W., to International Harvester Co. Implement control means. 2,939,539, 6-7-60, Cl. 172-396.
- Kramer, Richard W., to International Harvester Co. Disk harrow and control means. 2,943,691, 7-5-60, Cl. 172-572.
- Kramer, Stanley I., to Fairchild Engine and Airplane Corp. System for testing electric signal transfer devices. 2,942,182, 6-21-60, Cl. 324-57.
- Kramer, Theodore F., to General Motors Corp. Packaging device. 2,934,251, 4-26-60, Cl. 229-14.
- Kramer, Trenton Co.: *See*—  
Malkoff, Hyman. 2,924,438.  
Malkoff, Hyman, Frie, and Kramer. 2,963,882.  
Malkoff, Hyman, and Nussbaum. 2,963,877.  
Mical, William, and Kramer. 2,934,911.
- Kramer, Walter. Overdraw bow handle. 2,960,084, 11-15-60, Cl. 124-24.
- Kramer, William: *See*—  
Kirby, Judson T. 2,951,553.
- Kramish, Arnold. Nuclear radiometer for neutron flux measurement. 2,951,942, 9-6-60, Cl. 250-83.1.
- Krammer, Robert: *See*—  
Bishop, Leonard J., Krammer, and Karlstrom. 2,934,195.  
Klamp, Paul, and Krammer. 2,965,043.
- Krammes, Don C., to The Hoover Co. Suction cleaning appliance. 2,955,674, 10-11-60, Cl. 183-93.
- Kramskoy, Charles M., to Electric & Musical Industries Ltd. Remote guidance radio link. 2,924,652, 2-9-60, Cl. 178-5.8.
- Krane, Bronnie F.: *See*—  
Davis, Floyd E., and Krane. 2,933,306.
- Kranen, Dirk C.: *See*—  
Alma, Gerrit H. P., Keeman, Kloppling, and Kranen. 2,956,194.
- Kranen-Fiedler, Ursula, and R. Neu, to Dr. Willmar Schwabe, G.m.b.H. Process of preparing phenyl benzo- $\gamma$ -pyrone compounds substituted by hydroxyl groups, and product. 2,951,073, 8-30-60, Cl. 260-210.
- Krantz, Hubert F., II: *See*—  
Wilder, Harold F., and Krantz. 2,963,550.
- Krantz, Hubert K., to Bell Telephone Laboratories Inc. Centring fixture. 2,940,764, 6-14-60, Cl. 279-1.
- Krantz, John C., Jr., and R. M. Burgison, to The Chattanooga Medicine Co. Nitrate esters of amino alcohols and salts thereof. 2,957,021, 10-18-60, Cl. 260-467.
- Kranz, Frederick H., to Allied Chemical Corp. N-bis(p-di-alkylaminophenyl)methyl sulfonamides. 2,948,753, 8-9-60, Cl. 260-556.
- Kranz, Harry. Safety device for swimming pool pumps. 2,955,173, 10-4-60, Cl. 200-84.
- Krapf, Fred W., Jr. Safety device. 2,938,687, 5-31-60, Cl. 244-129.
- Krapf, John A., to G. Tuttolomondo. Pressure centered control valve. 2,928,380, 3-15-60, Cl. 121-46.5.
- Krasnitz, Jacob. Artistic cover for sewing machines. 2,946,302, 7-26-60, Cl. 112-258.
- Krasnov, George S. and N. I. Adjustable ready made slip cover. 2,921,625, 1-19-60, Cl. 155-182.
- Krasnov, Norman I.: *See*—  
Krasnov, George S. and N. I. 2,921,625.
- Krasovec, Rudolph A.: *See*—  
Bothwell, Thomas A., and Krasovec. 2,959,661.
- Krastel, Adolph H.: *See*—  
Carlsen, Leonard O., Krastel, and Male. 2,947,223.
- Kraszner, Dora: *See*—  
Coleman, Denis, Kraszner, and McKay. 2,954,364.
- Kratky, Joseph C.: *See*—  
Hanner, Allen W., and Kratky. 2,956,853.
- Kratz, Edouard M.: *See*—  
Hardt, Leo L., and Kratz. 2,936,263.
- Kratz, John A.: *See*—  
Rath, Howard G., Miller, and Kratz. 2,925,170.
- Kraus, Allan D., to Sperry Rand Corp. Fluid circulation cooling systems. 2,948,518, 8-9-60, Cl. 257-313.
- Kraus, Edmund J.: *See*—  
Kraus, Robert A. and E. J. 2,936,014.
- Kraus, Eugene S., Jr. Lineman's knife. 2,924,879, 2-16-60, Cl. 30-151.
- Kraus, Eugene S., Jr., J. I. MacPherson, and A. T. Flower. Secondary rack guides. 2,949,271, 8-16-60, Cl. 248-65.
- Kraus, Fred: *See*—  
Agarwal, Jagdish C. Kraus, and Roszkowski. 2,929,703.
- Kraus, Gerard, to Phillips Petroleum Co. Silica reinforced rubber. 2,964,457, 12-13-60, Cl. 204-154.
- Kraus, Gerard, to Phillips Petroleum Co. Vinylpyridine polymer adhesive composition containing boric oxide and a hetero-nitrogen compound as a stabilizer. 2,944,992, 7-12-60, Cl. 260-32.6.
- Kraus, Hans W. Load transportation means. 2,942,676, 6-28-60, Cl. 180-8.
- Kraus, Karl J.,  $\frac{1}{4}$  to J. K. Lyon. Shock absorber and stabilizing system for a vehicle. 2,926,023, 2-23-60, Cl. 280-124.
- Kraus, Ludwig, and W. A. Brüder, to Daimler-Benz Aktiengesellschaft. Aerodynamic braking mechanism for motor vehicles. 2,932,370, 4-12-60, Cl. 192-4.
- Kraus, Ludwig, to Daimler-Benz Aktiengesellschaft. Torsion rod. 2,942,871, 6-28-60, Cl. 267-57.
- Kraus, Robert A. and E. J. Resilient insert constricted to smaller diameter upon insertion in base member thereupon expanded to greater diameter to afford a friction lock. 2,936,014, 5-10-60, Cl. 151-41.74.
- Krause, August L., and G. N. Levesque, to Brown & Sharpe Mfg. Co. Fine feed distortion arrangement for grinding machines. 2,926,467, 3-1-60, Cl. 51-165.
- Krause, Benjamin, to Heil Equipment Co. of New York Inc. Folding boom race track sprinkler. 2,965,304, 12-20-60, Cl. 239-166.
- Krause, Gerhard P.: *See*—  
Albers, Heinrich B., Krause, Morrison, and Gerard. 2,960,221.
- Krause, Gunter: *See*—  
Porter, Gilbert E. 2,940,261.
- Krause, Herbert, to Chicago Forging and Mfg. Co. Safety latch mechanism. 2,924,473, 2-9-60, Cl. 292-11.
- Krause, Herbert, to Chicago Forging and Mfg. Co. Auxiliary brake and release. 2,935,895, 5-10-60, Cl. 74-531.
- Krause, Herbert, to Chicago Forging and Mfg. Co. Emergency brake control. 2,955,484, 10-11-60, Cl. 74-539.
- Krause, Herbert, and C. A. Sigel, to Chicago Forging and Mfg. Co. Dual latch. 2,926,942, 3-1-60, Cl. 292-11.
- Krause, Herbert and C. A. Sigel, to Chicago Forging and Mfg. Co. Hood latch. 2,955,859, 10-11-60, Cl. 292-6.
- Krause, Horst-Jürgen: *See*—  
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Dohr, Manfred, Krause, and Wulff. 2,956,068.
- Krause, Irving A., to International Telephone and Telegraph Corp. Single sideband communication system. 2,938,114, 5-24-60, Cl. 250-20.
- Krause, Jack H., to Houdry Process Corp. Cracking in the presence of a volatile acid. 2,951,805, 9-6-60, Cl. 208-115.
- Krause, Leonard: *See*—  
Bell, Angus S., Krause, and Hammerschmidt. 2,959,793.
- Krause, Leonard M., to Massey-Ferguson Inc. Hitch mechanism. 2,957,531, 10-25-60, Cl. 172-317.
- Krause, Lloyd O., to General Electric Co. Opposed spiral antenna. 2,953,786, 9-20-60, Cl. 343-89.
- Krause, Martin: *See*—  
Dittrich, Wolfgang, and Krause. 2,957,149.
- Krause, Mitchell F.: *See*—  
Stevens, Paul M., and Krause. 2,955,460.
- Krause, Walter, W. Fischer, R. Wirtz, and H. Schilken, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process and device for carrying out chemical reactions at high temperatures. 2,941,021, 6-14-60, Cl. 260-679.
- Krause, William F., to Western Electric Co., Inc. Apparatus for bending parts into C-shape. 2,935,111, 5-3-60, Cl. 153-21.
- Krauss, Carl F., to E. W. Bliss Co. Workholding press. 2,960,952, 11-22-60, Cl. 113-99.
- Krauss, Hans G., and M. J. Simon, to Boeing Airplane Co. Combined stabilization and control system. 2,952,244, 9-13-60, Cl. 121-41.
- Krausse, Dan M., and G. A. Randall, to Cosden Petroleum Corp. Process for the production of styrene-grade ethyl benzene. 2,959,626, 11-8-60, Cl. 260-674.
- Kraut, Theodore, to General Foods Corp. Process for producing a concentrated coffee extract. 2,931,727, 4-5-60, Cl. 99-71.
- Krautter, Willy F.: *See*—  
Kamm, Wunibald I. E., Stalger, and Krautter. 2,944,579.
- Krautwald, Herbert: *See*—  
Fischer, Josef, Aldin, Lind, Ruhland, Krautwald, and Helmrich. 2,941,130.
- Krautwurst, Homer V.: *See*—  
Dening, Donald G., and Krautwurst. 2,939,940.
- Kravats, Monroe K., to Radial Bearing Corp. Method of making antifriction bearing. 2,958,927, 11-8-60, Cl. 29-149.5.
- Kravig, Robert S., and A. E. Johnson, to Minnesota Mining and Mfg. Co. Decorative bows and method and machine for fabricating the same. 2,933,223, 4-19-60, Cl. 223-46.
- Kravitch, Charles W. Outtrigger clip. 2,925,682, 2-23-60, Cl. 43-43.1.
- Kravits, Elsie: *See*—  
Kruger, John C. 2,938,263.
- Kravitt, Irwin H. Brush depth regulators for paint cans. 2,939,162, 6-7-60, Cl. 15-121.2.
- Kravitz, Allan. Portable ballet bar. 2,932,510, 4-12-60, Cl. 272-62.
- Krawczyk, Joseph S. Carpenters' aprons. 2,922,165, 1-26-60, Cl. 2-51.
- Krawitz, Max, to Sylvania Electric Products Inc. Device for use in processing discrete screen patterns for cathode ray tubes. 2,936,682, 5-17-60, Cl. 95-1.
- Krawzak, Eugene: *See*—  
Braumiller, Jack, Jr., Cowan, and Krawzak. 2,955,473.
- Kraybill, Henry R.: *See*—  
Dugan, Le Roy, Jr., and Kraybill. 2,926,092.
- Krazinski, Leo C.: *See*—  
Hachemeister, Charles A., and Krazinski. 2,938,152.
- Krebs, John R.: *See*—  
Bulkeley, William L., and Krebs. 2,953,963.



- Krebs, Karl L., to United States Steel Corp. Lift conveyor for upsetting machine. 2,954,130, 9-27-60, Cl. 214-1.
- Kreck, Joseph A., and G. A. Locke, to Bell Telephone Laboratories, Inc. Teletypewriter switching system. 2,951,893, 9-6-60, Cl. 178-4.
- Kreeger, Donald E. Pork-rind jacket lure. 2,944,362, 7-12-60, Cl. 43-42.06.
- Krehbiel, John H., to Molex Products Co. Electrical connector arrangements. 2,938,190, 5-24-60, Cl. 339-176.
- Krehbiel, Robert D., to Cessna Aircraft Co. Pressure fluid control system and valve. 2,954,011, 9-27-60, Cl. 121-46.5.
- Krehbiel, Robert D., to Cessna Aircraft Co. Control valve for multiple valve banks. 2,954,051, 9-27-60, Cl. 137-622.
- Krehbiel, Robert D., to Cessna Aircraft Co. Pressure fluid control system and valve. 2,954,052, 9-27-60, Cl. 137-622.
- Kreibbaum, Otto. Wood chip board. 2,960,423, 11-15-60, Cl. 154-45.9.
- Kreidel, Hans, Jr.: *See*—
- Kreidel, Hans, and H. Kreidel, Jr. 2,952,289.
- Kreidel, Hans, and H. Kreidel, Jr., to Inventex Aktiengesellschaft. Locknut having integral locking membrane therewith. 2,952,289, 9-13-60, Cl. 151-21.
- Kreider, David B., and F. M. Delgadillo, to Shur-Lok Corp. Bolt and stud spacer for lightweight sandwich panels. 2,957,196, 10-25-60, Cl. 16-2.
- Kreider, Enos H. Automatic actuator for mail box signal. 2,927,727, 3-8-60, Cl. 232-35.
- Kreider, Henry E. Manure spreader and beater. 2,930,625, 3-29-60, Cl. 275-6.
- Kreider, Peter A. Tool for cutting and welding plastic material. 2,924,694, 2-9-60, Cl. 219-21.
- Kreidler, Alfred. Die guide and work-straightening device. 2,950,811, 8-30-60, Cl. 205-3.
- Kreidler, Alfred. Method of making articles with an embedded core. 2,962,813, 12-6-60, Cl. 29-528.
- Kreienbuhl, Franz, and R. Ineichen, to Machine Tool Works Oerlikon, Administration Co. Hydraulic drive mechanism for the thread guide rails of flat coulier knitting machines. 2,939,304, 6-7-60, Cl. 66-126.
- Kreikenbaum, Paul H.: *See*—
- Johnson, Ray C., and Kreikenbaum. 2,928,672.
- Krein, John H., to ACF Industries, Inc. Metering rod biasing support. 2,936,789, 5-17-60, Cl. 138-46.
- Kreinbender, Donald E., to Hughes Aircraft Co. Surface wave antenna. 2,929,065, 3-15-60, Cl. 343-785.
- Kreinick, Horace C.: *See*—
- Rovner, Samuel, Morgan, and Kreinick. 2,928,257.
- Kreinick, Horace C. Quick acting tool holder. 2,920,894, 1-12-60, Cl. 279-2.
- Kreis, Philipp. Cut-off valve. 2,933,283, 4-19-60, Cl. 251-77.
- Kreisler, Robert I., and W. A. Hakala, to General Dynamics Corp. Heat sensing apparatus. 2,921,972, 1-19-60, Cl. 136-4.
- Kreiss, Adolf G. H. Mechanical toy bank. 2,966,003, 12-27-60, Cl. 46-4.
- Krekeler, Claude B., to The Cincinnati Mine Machinery Co. Drive means for continuous mining machine. 2,926,896, 3-1-60, Cl. 262-29.
- Krekeler, Claude B., to The Cincinnati Mine Machinery Co. Mining machine chain and pintle. 2,956,442, 10-18-60, Cl. 74-254.
- Krekeler, Claude B., to The Cincinnati Mine Machinery Co. Bit and resilient holding means therefor. 2,965,365, 12-20-60, Cl. 262-33.
- Krekeler, Claude B., A. O. Bruestle, and J. R. Cartledge, to The Cincinnati Mine Machinery Co. Cutting bits and bit holders. 2,950,096, 8-23-60, Cl. 262-33.
- Kremer, Irvin R., and W. E. Deltor, to Phillips-Van Heusen Corp. Shirt conveyor. 2,948,442, 8-9-60, Cl. 223-57.
- Kfeminsky, Frantisek, to Meopta Prerov, narodni podnik. Slide changing device. 2,929,296, 3-22-60, Cl. 88-28.
- Kremkow, Walter H., to Kelsey-Hayes Co. Adjustable tread wheel. 2,942,915, 6-28-60, Cl. 301-9.
- Krempel, Frank M., and R. A. Anderson, to Stewart-Warner Corp. Container for electronic equipment. 2,950,093, 8-23-60, Cl. 257-256.
- Krems, Irving J., and F. W. Gray, to Colgate-Palmolive Co. Process of bleaching detergent salts. 2,962,526, 11-29-60, Cl. 260-505.
- Kremski, Adolph, and A. E. Warner, Jr. Fishing apparatus. 2,932,111, 4-12-60, Cl. 43-19.
- Krenning, William F., to Curtis Mfg. Co. Safety mechanism for lifting devices. 2,935,049, 5-3-60, Cl. 121-40.
- Kreske, Gerald H.: *See*—
- Ammerman, George E., and Kreske. 2,924,696.
- Krespan, Carl G., to E. I. du Pont de Nemours and Co. Fluorocarbon metalloids compounds of tetrafluoroethylene and sulfur, selenium or phosphorus and their preparation. 2,931,803, 4-5-60, Cl. 260-239.
- Krespan, Carl G., to E. I. du Pont de Nemours and Co. Polymerization of tetrafluoroethylene with selected metal fluorides. 2,938,889, 5-31-60, Cl. 260-87.5.
- Kress, Ralph H., to Le Tourneau-Westinghouse Co. Power steering means. 2,954,671, 10-4-60, Cl. 60-52.
- Kressley, Leonard J.: *See*—
- Kummer, Joseph T., Kressley, Grossman, and North. 2,932,739.
- Kressman, Theodore R. E., to The Permutit Co. Ltd. Process for the removal of dissolved solids from liquids. 2,923,674, 2-2-60, Cl. 204-180.
- Kreta, John. Ore concentrating apparatus. 2,921,680, 1-19-60, Cl. 209-437.
- Kretsch, Hans W.: *See*—
- Beck, Rudolf, Kretsch, and Stewart. 2,924,388.
- Kretzmer, Ernest R., to Bell Telephone Laboratories, Inc. Multilevel quantizer. 2,924,711, 2-9-60, Cl. 250-27.
- Kretzmer, Ernest R., to Bell Telephone Laboratories, Inc. Television system having reduced transmission bandwidth. 2,946,851, 7-26-60, Cl. 178-435.
- Kretzmer, Ernest R., to Bell Telephone Laboratories, Inc. Reduced bandwidth transmission system. 2,949,505, 8-16-60, Cl. 179-15.6.
- Kretzschmar, Hermann, to Vereinigte Aluminium-Werke Aktiengesellschaft. Process of making alumina. 2,951,743, 9-6-60, Cl. 23-143.
- Kreuchen, Karl H., to Electric & Musical Industries Ltd. Method of forming hermetic seals by cold pressure welding metal parts. 2,957,236, 10-25-60, Cl. 29-470.1.
- Kreuder, Norman L., to Burroughs Corp. Extended delay circuit. 2,938,168, 5-24-60, Cl. 328-55.
- Kreuthmeier, John. Creels. 2,936,882, 5-17-60, Cl. 206-51.
- Kreutner, Joseph W., to Buensol-Stacey, Inc. Air conditioning apparatus. 2,936,123, 5-10-60, Cl. 236-13.
- Kreuz, Donald F.: *See*—
- Darbee, Leonard R., and Kreuz. 2,966,397.
- Kreuzer, Josef, to "Elin" Aktiengesellschaft fur elektrische Industrie. Transformer bank. 2,929,016, 3-15-60, Cl. 323-44.
- Kreuzer, Josef, A. Höller, and W. Kollmann, to Elin Aktiengesellschaft fur elektrische Industrie. Regulating transformer. 2,922,132, 1-19-60, Cl. 336-70.
- Krewer, William A.: *See*—
- Ayers, George W., and Krewer. 2,946,744.
- Ayers, George W., Krewer, Martinek, and Hutchings. 2,954,396.
- Ayers, George W., and Krewer. 2,956,014.
- Ayers, George W., and Krewer. 2,960,548.
- Ayers, George W., and Krewer. 2,963,424.
- Martinek, Thomas W., Hutchings, Ayers, and Krewer. 2,954,397.
- Krewer, William A., and N. L. Remes, to The Pure Oil Co. Extraction process. 2,956,088, 10-11-60, Cl. 260-674.
- Krey, Harold L., to Livingston & Co. Foldable cabinet. 2,934,389, 4-26-60, Cl. 312-262.
- Krey, Wilhelm, and K. Raichle, to Farbenfabriken Bayer Aktiengesellschaft. Process for the manufacture of monohydroxy polyethers. 2,924,621, 2-9-60, Cl. 260-611.
- Kriebbaum, Karl, to Licentia Patent-Verwaltungs-G.m.b.H. Driving means for circuit breakers. 2,965,072, 12-20-60, Cl. 121-38.
- Krieder, Ronald F. Device for scribing circles. 2,961,768, 11-29-60, Cl. 33-27.
- Kriege, Ernst, and W. Steinbruggen, to Firma Peter Stoltenberg Chemische Fabrik. Production of 4-(pyridine carboxylic acid amido)-2,3-dimethyl-1-phenyl-5-pyrazolones. 2,951,845, 9-6-60, Cl. 260-295.
- Kriegel, Bernard: *See*—
- Banner, Arthur. 2,927,672.
- Banner, Arthur. 2,963,134.
- Banner, Arthur. 2,964,152.
- Krieger, Harold M. Blocking transistor oscillators and amplifiers. 2,930,989, 3-29-60, Cl. 331-112.
- Krieger, Jack. Adjustable camera dolly. 2,932,478, 4-12-60, Cl. 248-125.
- Kriemelmeyer, Harry, Jr., to Emerson Radio & Phonograph Corp. Mail handling apparatus. 2,941,653, 6-21-60, Cl. 198-31.
- Krijger, Pieter: *See*—
- Engel, Willem F., and Krijger. 2,926,135.
- Krikorian, Albert P. Reclining chair. 2,964,096, 12-13-60, Cl. 155-106.
- Krimm, Arthur: *See*—
- Lotz, Rudolf, Wick, and Krimm. 2,930,812.
- Krimmel, Carl P., to G. D. Searle & Co. Derivatives of 1-(2-aminoethyl)-5-alkoxy-4-pyridones. 2,965,641, 12-20-60, Cl. 260-247.5.
- Kripke, Joseph B., to General Motors Corp. Speed selector device. 2,957,360, 10-25-60, Cl. 74-352.
- Krischal, Hans G.: *See*—
- Hoare, Michael F., Fowler, and Krischal. 2,956,954.
- Krise, Otis. Milk case straightener. 2,931,416, 4-5-60, Cl. 153-32.
- Krisel, Harold: *See*—
- Rosenzweig, Martin, and Krisel. 2,959,413.
- Kristan, Philip. Shoe insole. 2,928,193, 3-15-60, Cl. 36-71.
- Kristek, Emanuel, and E. Reichel, to Zavody presneho strojirenstvi Gottwaldov, narodni podnik. Elevator for lifting persons or loads. 2,927,661, 3-8-60, Cl. 187-17.
- Kristensen, Paul A., to United States of America, Navy. Testing and sorting device for miniature cores. 2,922,518, 1-26-60, Cl. 209-72.
- Kristiansen, Svend H., to Hi-Press Air Conditioning of America, Inc. Air inlet device for ventilating plants. 2,955,522, 10-11-60, Cl. 98-40.



- Kristoffersen, Arve. Nursing appliance. 2,927,708, 3-8-60, Cl. 215-11.
- Kritscher, Andrew F.: *See*—  
Kirchner, George J., and Kritscher. 2,947,165.
- Kritscher, Andrew F., to United States Steel Corp. Pipe up-setting. 2,932,889, 4-19-60, Cl. 29-542.
- Kritz, Jack. Densitometer. 2,926,522, 3-1-60, Cl. 73-32.
- Kritz, Jack. Flowmeter. 2,949,772, 8-23-60, Cl. 73-194.
- Kritz, Jack. Transducers for acoustic flowmeter. 2,931,223, 4-5-60, Cl. 73-194.
- Kritzer, Karl: *See*—  
Seitz, Georg, and Kritzer. 2,947,751.
- Kritzer, Richard W. Air circulating system for cooling, dehumidifying and heating inhabitable enclosures. 2,962,266, 11-29-60, Cl. 257-297.
- Kritzer, Richard W. Method of fabricating finned heat transfer tubing. 2,948,054, 8-9-60, Cl. 29-157.3.
- Krivaneck, Louis: *See*—  
Carr, Victor H., Klee, and Krivanek. 2,942,138.
- Krivulka, Albert S., to South Chester Corp. Chassis and rack apparatus. 2,944,864, 7-12-60, Cl. 312-320.
- Kriz, Ferdinand J., to Connecticut Tool and Engineering Co. Filing machine. 2,922,217, 1-26-60, Cl. 29-76.
- Kriz, Aldrich. Game. 2,926,917, 3-1-60, Cl. 273-134.
- Kroboth, Hans J., to Abilities, Inc. Apparatus for applying markers to wire. 2,922,540, 1-26-60, Cl. 216-20.
- Kroeger, William J., A. D. Kafadar, and R. L. Olson, to United States of America, Army. Differential thrust bomb. 2,926,525, 3-1-60, Cl. 73-167.
- Kroeger, William J., and S. D. Rolle. One power stroke thruster with locking cartridge case. 2,935,911, 5-10-60, Cl. 89-1.
- Kroehler Mfg. Co.: *See*—  
Jelinek, Erwin. 2,953,194.
- Sievert, Theodore J. 2,919,728.
- Kroeper, Hugo, and R. Platz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Cracking of oligomers of isobutene in the presence of silica-magnesia catalysts. 2,945,906, 7-19-60, Cl. 260-683.
- Kroeper, Hugo, F. Wirth, R. Platz, and H. Floerchinger, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Apparatus and process for carrying out reactions which proceed endothermically in fluidized layers. 2,951,883, 9-6-60, Cl. 260-668.
- Kroeper, Hugo, and R. Platz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Cracking of 1,1-diarylethanes. 2,954,413, 9-27-60, Cl. 260-669.
- Kroger Co.: *See*—  
Reiman, Walter C. 2,932,573.
- Kröger, Ferdinand A., and J. Bloem, to North American Philips Co., Inc. Lead sulphide semi-conductive bodies and method of making same. 2,956,912, 10-18-60, Cl. 148-1.5.
- Kroger, Martin G., to Motorola, Inc. Television receiver. 2,927,958, 3-8-60, Cl. 178-5.4.
- Kroger, Martin G., to Motorola, Inc. Automatic shift of color balance. 2,954,426, 9-27-60, Cl. 178-5.4.
- Kroger, Rudolf W. Hydro-motor. 2,929,937, 3-22-60, Cl. 290-52.
- Kroger, Wolf: *See*—  
Brethauer, Hermann, Madge, and Kroger. 2,926,562.
- Krohm, Fred A., to The Anderson Co. Windshield wiper blade assembly. 2,922,181, 1-26-60, Cl. 51-245.
- Krohm, Fred A., to The Anderson Co. Windshield wiper blade assembly. 2,925,615, 2-23-60, Cl. 15-245.
- Krohm, Fred A., to The Anderson Co. Connector for windshield wiper arm and blade units. 2,925,616, 2-23-60, Cl. 15-250.
- Krohm, Fred A., to Productive Invention, Inc. Windshield wiper blade assembly. 2,948,011, 8-9-60, Cl. 15-250.42.
- Krohm, Fred A., to The Anderson Co. Windshield wiper and washer apparatus. 2,961,687, 11-29-60, Cl. 15-250.02.
- Krohm, Fred A., to The Anderson Co. Means for attaching a wiper arm to a shaft. 2,964,775, 12-20-60, Cl. 15-250.34.
- Krohm, Fred A., to The Anderson Co. Windshield wiper blade assembly. 2,965,915, 12-27-60, Cl. 15-250.32.
- Krohn, Bud E.: *See*—  
Tryon, David H. 2,947,468.
- Krohn, Gilbert S., R. G. Neuhaus, and C. F. Ahlgrimm, to R. R. Donnelley & Sons Co. Plate holder for cylinder presses. 2,950,678, 8-30-60, Cl. 101-378.
- Krohn, Gilbert S., R. G. Neuhaus, and C. F. Ahlgrimm, to R. R. Donnelley & Sons Co. Plate holder for cylinder presses. 2,950,679, 8-30-60, Cl. 101-378.
- Krohn, Henry W., Jr.: *See*—  
Boyer, Ralph K., and Krohn. 2,943,969.
- Krohn-Holm, Danckert. Arrangement in or relating to support wheels for cable-way carriers. 2,939,405, 6-7-60, Cl. 105-148.
- Krohn-Holm, Danckert. Guide roller device. 2,948,513, 8-9-60, Cl. 254-190.
- Krohn, Mary E.: *See*—  
Tryon, David H. 2,947,468.
- Kroko, Leonard J., to Westinghouse Electric Corp. Silicon carbide rectifier. 2,937,324, 5-17-60, Cl. 317-234.
- Kroko, Leonard J., and H. C. Chang, to Westinghouse Electric Corp. Fused junctions in silicon carbide. 2,937,323, 5-17-60, Cl. 317-234.
- Krokos, Raymond M.: *See*—  
Chapman, Harvey W., Dunlap, and Krokos. 2,932,530.
- Krol, Stanley J., to The Kaman Aircraft Corp. Restart prevention apparatus for combustion engine. 2,936,747, 5-17-60, Cl. 123-136.
- Kroll, Cornelius and N. M., to Speed Park, Inc. Transferring apparatus. 2,945,602, 7-19-60, Cl. 214-16.1.
- Kroll, Cornelius and N. M., to Speed Park, Inc. Transferring apparatus. 2,945,604, 7-19-60, Cl. 214-16.1.
- Kroll, Harry: *See*—  
Knell, Martin, and Kroll. 2,921,847.
- Spivack, John D., and Kroll. 2,928,876.
- Spivack, John D., and Kroll. 2,952,635.
- Kroll, Norman M.: *See*—  
Kroll, Cornelius and N. M. 2,945,602.
- Kroll, Cornelius and N. M. 2,945,604.
- Kroll, Oscar E. Beet harvesting machine. 2,940,529, 6-14-60, Cl. 171-53.
- Kroll, Werner O. H., to Klockner-Humboldt-Deutz Aktiengesellschaft. Apparatus for separating dust from gas, particularly hot gas. 2,925,144, 2-16-60, Cl. 183-52.
- Krollmann, Hubert: *See*—  
Schytli, Franz, and Krollmann. 2,947,383.
- Krolzick, Gordon J.: *See*—  
Schnell, Paul, Cobb, Brenner, and Krolzick. 2,931,200.
- Krom, Myron E., to Bell Telephone Laboratories, Inc. Line concentrator signaling system. 2,921,139, 1-12-60, Cl. 179-18.
- Kromberg, Paul J. Posthole digger attachment for tractor. 2,939,682, 6-7-60, Cl. 255-22.
- Kromschroder, G., Aktiengesellschaft: *See*—  
Drabik, Josef. 2,936,782.
- Drabik, Josef, and Schwarz. 2,940,468.
- Kron, Carl M., to Phillips Petroleum Co. Method for controlling carbon black furnaces. 2,953,436, 9-20-60, Cl. 23-209.6.
- Kron, Harold O., and W. J. Denkowski, to Philadelphia Gear Corp. Valve operators. 2,933,937, 4-26-60, Cl. 74-424.8.
- Kron, Martin: *See*—  
Thompson, William M., Jr., Kron, and Smith. 2,944,457.
- Kron, Oskar. Contact copying device. 2,919,636, 1-5-60, Cl. 95-76.
- Kronacher, Hermann: *See*—  
Becker-Boost, Erich H., and Kronacher. 2,946,402.
- Kaess, Franz, Kronacher, Hoeger, and Dichtl. 2,940,824.
- Kronacher, Hermann, and W. Dichtl, to Diederichs Kalkstickstoff-Werke A.G. Manufacture of hydrocyanic acid. 2,920,940, 1-12-60, Cl. 23-151.
- Kronbein, Ruth: *See*—  
Bellmann, Eugen. 2,938,699.
- Krone, Ben W., and L. L. Smith. Collapsible back rest. 2,939,518, 6-7-60, Cl. 155-153.
- Kronenberger, Bruce, to American Needle & Novelty Co. Cap construction. 2,962,723, 12-6-60, Cl. 2-190.
- Kronenbitter, Raymond E.: *See*—  
Emslie, Norman M., and Kronenbitter. 2,934,394.
- Kroner, Albert M.: *See*—  
Holowaty, Michael O., and Kroner. 2,949,637.
- Kronhaus, Semen. Marine scaffold. 2,919,763, 1-5-60, Cl. 182-112.
- Kronig, Walter, and G. Scharfe, to Farbenfabriken Bayer Aktiengesellschaft. Process for removing higher acetylenes from hydrocarbon mixtures. 2,930,823, 3-29-60, Cl. 260-681.5.
- Kronmiller, Bill A.: *See*—  
Ferguson, Eli K., Jr., and Kronmiller. 2,950,702.
- Kronogard, Sven-Olof: *See*—  
Quistgaard, Erik V., Karlsson, and Kronogard. 2,936,653.
- Kronprinz Aktiengesellschaft: *See*—  
Volmer, Bodo. 2,953,018.
- Kronson, Harry, Jr., to General Electric Co. Magnetic lid holder for can openers. 2,953,850, 9-27-60, Cl. 30-6.4.
- Kronstein, Max: *See*—  
Kapfer, William H., and Kronstein. 2,935,423.
- Kropa, Edward L., to American Cyanamid Co. Animalization of cellulose. 2,947,594, 8-2-60, Cl. 8-117.
- Kropf, Heinz: *See*—  
Hock, Heinrich, and Kropf. 2,954,405.
- Kropp, Paul M., Jr.: *See*—  
Schmall, Wilbur A., Demott, and Kropp. 2,920,550.
- Kropp, William E. Railroad track lining. 2,966,122, 12-27-60, Cl. 104-8.
- Kropscott, Earle L.: *See*—  
Graham, Donald L., Kennedy, and Kropscott. 2,959,508.
- Krost, Bruce B.: *See*—  
Brillinger, George A. 2,960,591.
- Kroupa, Venceslav, to Tesla, narodni podnik. Circuit arrangement for reducing current consumption in decade scalars or counters. 2,929,929, 3-22-60, Cl. 250-27.
- Kroupinz Aktiengesellschaft: *See*—  
Benson, Watkin E. and G. E. 2,933,124.
- Krouse, Glen N., to The Budd Co. Specimen grip. 2,920,895, 1-12-60, Cl. 279-4.
- Krouse, Glen N., and B. L. Sutton, to The Budd Co. Strain gage extensometer. 2,921,282, 1-12-60, Cl. 338-6.
- Kroyer, Karl K. K. Process and apparatus for the production of starch syrup. 2,954,304, 9-27-60, Cl. 127-23.
- Krsek, George, to Merck & Co., Inc. 2-bromo-dihydro alhydrocortisone. 2,942,011, 6-21-60, Cl. 260-397.45.
- Krsek, George, R. R. Metcalf, and S. H. Pines, to Merck & Co., Inc. Water-insoluble molybdenum salts of neomycin and process of using same in the purification of neomycin. 2,944,939, 7-12-60, Cl. 167-65.
- Krsek, George R., to Merck & Co., Inc. Steroidal 17(20)-enol acetates and processes for preparing the same. 2,921,946, 1-19-60, Cl. 260-397.45.



- Kruckenber, Winfried, to Farbenfabriken Bayer Aktiengesellschaft. Process for dyeing polyethylene terephthalates. 2,955,901, 10-11-60, Cl. 8-41.
- Kruckenber, Winfried, and K. Weis, to Farbenfabriken Bayer Aktiengesellschaft. Disazo compounds containing a quaternary ammonium group. 2,945,849, 7-19-60, Cl. 260-185.
- Kruder, George A., to American Machine & Foundry Co. Mixing machine. 2,926,619, 3-1-60, Cl. 107-30.
- Krueger, Alfred P., to Derby Sealers, Inc. Tape dispenser having cam operated cutter. 2,955,500, 10-11-60, Cl. 83-205.
- Krueger, Bruno O., B. B. Butler, and J. M. Hine, to The Borden Co. Concentrated formaldehyde solution. 2,946,403, 7-26-60, Cl. 183-115.
- Krueger, Glenn N.: See—
- Crafts, Curtis S., Chase, and Krueger. 2,954,598.
- Krueger, Glenn N., to Miehle-Goss-Dexter, Inc. Plate finishing machine. 2,923,049, 2-2-60, Cl. 29-21.
- Krueger, Glenn N., to Miehle-Goss-Dexter, Inc. Plate supporting and clamping apparatus. 2,928,161, 3-15-60, Cl. 29-21.
- Krueger, Nicholas, Sr., and S. Kolodny, to East Rutherford Springs, Inc. Transparent container. 2,955,705, 10-11-60, Cl. 206-43.
- Krueger, Roland F.: See—
- Maly, George P., and Krueger. 2,945,541.
- Krueger, Rudolph E. Temperature control system. 2,919,859, 1-5-60, Cl. 236-1.
- Krueger, William F., to Sperry-Sun Well Surveying Co. Horizontal surveying apparatus. 2,940,178, 6-14-60, Cl. 33-205.5.
- Krug, Albert E., to Becton Dickinson and Co. Holder-clamp. 2,928,391, 3-15-60, Cl. 128-214.
- Krug, Newton J., to The Mosler Safe Co. Bag for use with night depositories. 2,942,450, 6-28-60, Cl. 70-68.
- Krug, Robert H.: See—
- Tierney, Raymond B., Krug, and Chesluk. 2,930,758.
- Tierney, Raymond B., Meyers, and Krug. 2,965,574.
- Kruger, Irving D.: See—
- Ford, John R., Kruger, and Perkel. 2,947,989.
- Kruger, John C., deceased; S. Kruger, E. Westphal, and E. Kravits, executrices. Ingot mould and method of making same. 2,938,263, 5-31-60, Cl. 29-544.
- Kruger, Susan: See—
- Kruiger, John C. 2,938,263.
- Krugman, Leonard M., to Radio Corp. of America. Frequency converter having means to prevent self-quenching. 2,939,000, 5-31-60, Cl. 250-20.
- Kruijer, Geert G., to Shell Oil Co. Process for supplying heat to a bed of finely divided refractory material. 2,944,807, 7-12-60, Cl. 263-52.
- Krullik, Stefan J. Electric rotating circuit breaker. 2,931,870, 4-5-60, Cl. 200-80.
- Krull, Ernst, to Agfa Aktiengesellschaft. Slide projector with mechanical feed. 2,922,334, 1-26-60, Cl. 88-28.
- Krull, Ernst, to Filmsto-Projektion Johannes Jost. Frame structures for receiving transparencies. 2,959,882, 11-15-60, Cl. 40-152.
- Krum, Lester W., to United States Steel Corp. Metal casting apparatus. 2,962,780, 12-6-60, Cl. 22-134.
- Krumbholz, Stanley G., and G. M. McRoberts III, to Aerojet-General Corp. Bi-medium rocket-torpedo missile. 2,937,824, 5-24-60, Cl. 244-14.
- Kruml, Vincenc, A. Brabenec, and V. Sulc, to CKD Ceska Lipa Narodni podnik. Electric installation in circumferential seam welding apparatus. 2,927,917, 3-22-60, Cl. 219-125.
- Kruper, Andrew P.: See—
- Bright, Richard L., and Kruper. 2,922,051.
- Krupick, Walter J., and G. F. Ciacco, to General Precision, Inc. Damping control mechanism for fluid damped gyros. 2,955,472, 10-11-60, Cl. 74-5.5.
- Krupka, George: See—
- Whitehill, Alvin R., Ablondi, Mowat, and Krupka. 2,936,265.
- Krupp, Anton M., R. D. Divoky, and G. G. Elrick, to General Electric Co. Recessed double contact strip base. 2,922,137, 1-19-60, Cl. 339-145.
- Krupp, Carroll P.: See—
- Armstrong, Howard H., and Krupp. 2,923,992.
- Krupp, Carroll P., to The B. F. Goodrich Co. Inflatable protective suit for high altitude flight. 2,954,562, 10-4-60, Cl. 2-2.1.
- Krupp, Carroll P., to The B. F. Goodrich Co. Omni-environment inflatable suit for high altitude flight. 2,966,155, 12-27-60, Cl. 128-144.
- Krupp, Helmar M., to Hartmann & Braun Aktiengesellschaft. Method for compensating the influence of the carrier-gas in magnetic gas-analysers. 2,951,359, 9-6-60, Cl. 73-1.
- Krupp, Robert F., and J. K. Wagner, to Gerber Products Co. Chain tightener. 2,920,751, 1-12-60, Cl. 198-208.
- Krupp, Robert F., and J. K. Wagner, to Gerber Products Co. Carrier for glass jar handling machine. 2,943,727, 7-5-60, Cl. 198-188.
- Krus, Alva C., to Olin Mathieson Chemical Corp. Blast noise suppressor for an explosive operated kiln device. 2,925,755, 2-23-60, Cl. 89-14.
- Kruse, Carl M. Floor drain cover. 2,928,419, 3-15-60, Cl. 137-593.
- Kruse, Carl W., and C. W. Osborn, to Phillips Petroleum Co. New substituted amino acid compounds and their preparation. 2,921,953, 1-19-60, Cl. 260-455.
- Kruse, George C. Portable knock-down display assembly. 2,937,062, 5-17-60, Cl. 311-35.
- Kruse, Harold E. Universal semaphore attachment for motor vehicles. 2,923,271, 2-2-60, Cl. 116-52.
- Kruse, Norman F., to Central Soya Co., Inc. High fat content oilseed meal. 2,928,738, 3-15-60, Cl. 99-2.
- Kruse, Norman F., to Central Soya Co., Inc. Preparation of a molasses feed. 2,947,632, 8-2-60, Cl. 99-6.
- Kruse, Norman F., and W. W. Cravens, to Central Soya Co., Inc. Poultry treatment for skin pigmentation. 2,924,525, 2-9-60, Cl. 99-4.
- Kruse, Norman F., to Central Soya Co., Inc. Fibrous flaked product. 2,952,540, 9-13-60, Cl. 99-2.
- Kruse, Paul W., to International Telephone and Telegraph Corp. Radiation amplifier. 2,928,006, 3-8-60, Cl. 250-213.
- Kruse, Theodore J., Jr., to Esso Research and Engineering Co. Conversion of hydrocarbons in a fluidized reaction zone. 2,958,653, 11-1-60, Cl. 208-164.
- Krussmann, Adolf, to Schoppe & Faeser, G.m.b.H. Inductive transmitter. 2,928,060, 3-8-60, Cl. 336-132.
- Kruzan, Albert W., R. D. Shaw, and E. Valites, to Borg-Warner Corp. Static dry mechanism for a clothes dryer. 2,933,933, 4-26-60, Cl. 74-206.
- Krynitzky, Alexander: See—
- Hoffmann, Otto, and Krynitzky. 2,949,051.
- Krynitzky, Alexander, to Lake Erie Machinery Corp. Length gage for structural steel beams and the like. 2,956,666, 10-18-60, Cl. 198-40.
- Krynitzky, Alexander, to Lake Erie Machinery Corp. Leveler for sheet metal strips. 2,963,071, 12-6-60, Cl. 153-107.
- Krystosek, Joseph W. Film splicer and method. 2,963,073, 12-6-60, Cl. 154-42.3.
- Krystyniak, Walter J.: See—
- Cavagnaro, William A., Judd, Krystyniak, and Truesdell. 2,958,016.
- Kryter, Karl D. Seat and seating arrangement. 2,947,349, 8-2-60, Cl. 155-130.
- Kryzer, Benjamin H., to Union Tank Car Co. Float valve mechanism. 2,935,081, 5-3-60, Cl. 137-391.
- Kryzer, Benjamin H., and T. W. Techler, to Union Tank Car Co. Control for water softeners. 2,935,198, 5-3-60, Cl. 210-138.
- Kryzer, Benjamin H., and T. W. Techler, to Union Tank Car Co. Control for water softeners. 2,955,799, 10-4-60, Cl. 137-599.1.
- Krzesiewski, Walter: See—
- Momborg, James W., Gall, and Krzesiewski. 2,930,446.
- Krzesinski, Boleslaw: See—
- Dickie, William A., Krzesinski, and Finlayson. 2,923,034.
- Krzikalla, Hans: See—
- Kuehne, Walther, Pohlmann, and Krzikalla. 2,954,363.
- Krzikalla, Hans, F. Meyer, and F. van Taack-Trakranen, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for producing oxygen-containing condensation resins from aromatic hydrocarbons and product produced thereby. 2,954,360, 9-27-60, Cl. 260-43.
- Krzikalla, Hans, and Frederic van Taack Trakranen, deceased (by Felicitas van Taack Trakranen, sole heir-at-law), to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Naphthalene-formaldehyde condensation products. 2,958,676, 11-1-60, Cl. 260-67.
- Kuba, Samuel: See—
- Heckman, Edward A., Kuba, and Shafer. 2,951,144.
- Kuba, Samuel, and R. C. Shafer, to Western Electric Co., Inc. Article assembling apparatus. 2,942,093, 6-21-60, Cl. 219-79.
- Kuba, Samuel, and A. N. Wiegner, Jr., to Western Electric Co., Inc. Modified grid winding lathe. 2,959,367, 11-8-60, Cl. 242-9.
- Kuba, Samuel, and R. C. Shafer, to Western Electric Co., Inc. Single drive for multiple units. 2,963,922, 12-13-60, Cl. 74-722.
- Kubach, Georg: See—
- Ilge, Wilhelm, Hermann, Haussmann, Mauch, Rittner, and Kubach. 2,952,726.
- Kubatzky, Otto, to Wincor Ventilator Co. Ventilating window for wall structures. 2,925,769, 2-23-60, Cl. 98-37.
- Kube, Adolph M. L., to Phillips Petroleum Co. Method for recovery of absorption oil. 2,949,423, 8-16-60, Cl. 208-341.
- Kubera, Gerhard, to Alfred Teves Maschinen-und Armaturen-fabrik KG. Method of manufacturing hollow poppet valves for internal combustion engines. 2,948,052, 8-9-60, Cl. 29-156.7.
- Kuble, William L., to Aluminum Research Corp. Method of forming cold extrusion lubricants having a zinc phosphate undercoating. 2,921,865, 1-19-60, Cl. 117-89.
- Kuble, William L., to Aluminum Research Corp. Cold forming lubricant and method of applying same. 2,921,874, 1-19-60, Cl. 148-6.14.
- Kuble, William L., to Aluminum Research Corp. Cold forming lubricant and method of applying same. 2,963,391, 12-6-60, Cl. 148-6.14.
- Kubik, Paul P., to The Yale & Towne Mfg. Co. Knob for a tubular lock. 2,936,191, 5-10-60, Cl. 292-347.
- Kubik, Paul P., to The Yale & Towne Mfg. Co. Bolt retractor. 2,953,405, 9-20-60, Cl. 292-169.



- Kubilunas, Ignas B. Dispensing closures. 2,936,934, 5-17-60, Cl. 222-484.
- Kubin, Miroslav, to Regula-Vyvoj, narodni podnik. Device for the change of the character of interdependence between the inlet and outlet magnitude. 2,957,486, 10-25-60, Cl. 127-85.
- Kubisz, Edmund L., to American Machine and Foundry Co. Folding chair. 2,957,516, 10-25-60, Cl. 155-139.
- Kubitza, Helmut: *See*—  
Reger, Martin, and Kubitz. 2,938,137.
- Kubler, Donald G.: *See*—  
Hoaglin, Raymond I., and Kubler. 2,957,889.  
Montagna, Amelio E., Kubler, and Brezinski. 2,939,880.  
Montagna, Amelio E., Kubler, and Brezinski. 2,953,577.
- Kübler, Friedrich, to SKF Kugellagerfabriken Gesellschaft mit beschränkter Haftung. Textile drawing mechanism. 2,941,263, 6-21-60, Cl. 19-135.
- Kubsh, Leroy M., to Gardner Machine Co. Abrasive disk and method of making it. 2,926,469, 3-1-60, Cl. 51-209.
- Kucera, Joseph B. Spring stabilizer attachment. 2,931,642, 4-5-60, Cl. 267-16.
- Kucera, Joseph B. Weighing apparatus. 2,961,231, 11-22-60, Cl. 265-71.
- Kucera, Joseph B., and E. M. McElhinney, Jr., to Rudolph L. Lowell. Material beating and spreading apparatus. 2,958,530, 11-1-60, Cl. 275-6.
- Kucera, Thomas J., to Charles Bruning Co., Inc. Electro-photographic recording member and process of producing same. 2,959,481, 11-8-60, Cl. 96-1.
- Kuchenbecker, Morris W., to American Can Co. Receptacle. 2,942,769, 6-28-60, Cl. 229-31.
- Kuchenbecker, Morris W., to American Can Co. Container divider. 2,958,452, 11-1-60, Cl. 229-15.
- Kucher, Carl J. Combined toothpick and gum massager. 2,925,087, 2-16-60, Cl. 132-93.
- Kuchinsky, Saul: *See*—  
Bethke, John R., Driscoll, and Kuchinsky. 2,940,047.
- Kuchinsky, Saul, to Burroughs Corp. Signal gating and beam switching circuit. 2,962,624, 11-29-60, Cl. 315-21.
- Kuchinsky, Saul, and T. D. Peterson, to Burroughs Corp. Method of making gaseous glow tubes. 2,946,642, 7-26-60, Cl. 316-26.
- Kuchler, Theodore C., and E. J. Taschenberg, to Koppers Co., Inc. Vented shaft seal. 2,956,824, 10-18-60, Cl. 286-8.
- Kuck, John H., to United States of America, Navy. Battery transient testing by frequency modulation. 2,924,789, 2-9-60, Cl. 332-16.
- Kuck, John H., and J. H. Sreb, to United States of America, Navy. Projectile choke. 2,947,255, 8-2-60, Cl. 102-70.2.
- Kuckiewicz, Stanislaw. Fish lure with shielded snapping hook. 2,956,364, 10-18-60, Cl. 43-42.04.
- Kucklinsky, Walter A.: *See*—  
Doblin, Arnold S., and Kucklinsky. 2,930,467.
- Kucklinsky, Walter H., and D. T. Rudesyle, to Montgomery Specialty Co., Inc. Clamping device. 2,945,463, 7-19-60, Cl. 113-101.
- Kuckro, Gerard W., to General Electric Co. Basic lead  $\rho$ -nitrosophenolate. 2,922,804, 1-26-60, Cl. 260-435.
- Kudaroski, Frank J.: *See*—  
Antrim, William D., Jr., and Kudaroski. 2,951,570.
- Kuddie, Robert. Vacuum bottle holder and rack. 2,926,828, 3-1-60, Cl. 224-42.46.
- Kudlaty, Walter J.: *See*—  
Flick, Francis S., and Kudlaty. 2,923,276.
- Kudlik, Alex. Trip into space toy. 2,941,333, 6-21-60, Cl. 46-228.
- Kudlick, Joseph: *See*—  
Stelljes, Charles R., Bridgeford, and Kudlick. 2,964,851.
- Kudritzki, Felix: *See*—  
Behrmann, Herwart, and Kudritzki. 2,930,668.
- Kuebler, Louis E., to Western Electric Co., Inc. Pneumatic flatness gage. 2,963,900, 12-13-60, Cl. 73-37.
- Kuebler, Robert A., to General Electric Co. Contact pin for fluorescent lamps. 2,961,633, 11-22-60, Cl. 339-275.
- Kuechler, William L., to E. I. du Pont de Nemours and Co. Recovery of tetrahydrofuran. 2,950,232, 8-23-60, Cl. 202-70.
- Kuecken, John A., to General Electric Co. Signal processing arrangement having septum divided horn. 2,961,659, 11-22-60, Cl. 343-778.
- Kuecken, John A., and A. K. Fowler, to United States of America, Navy. Movable support means for center conductor of slab line. 2,961,623, 11-22-60, Cl. 333-97.
- Kuehl, Emmett L. Mop head assembly. 2,921,327, 1-19-60, Cl. 15-147.
- Kuehl, Guenter, to George Gorton Machine Co. Anti-backlash nut. 2,919,596, 1-5-60, Cl. 74-441.
- Kuehl, Werner, to Telefunken G.m.b.H. Selective call signal system. 2,948,889, 8-9-60, Cl. 340-347.
- Kuehlewind, William E., Jr., to Olin Mathieson Chemical Corp. Preparation of para-fluorophenol. 2,934,569, 4-26-60, Cl. 260-623.
- Kuehn, Gordon K. Kite string winder. 2,926,864, 3-1-60, Cl. 242-96.
- Kuehn, Howard O., to Rodale Mfg. Co., Inc. Electrical connector plug. 2,905,870, 12-20-60, Cl. 339-62.
- Kuehne, Christoph, to Askania-Werke A.G. Scale interpolating device. 2,930,895, 3-29-60, Cl. 250-209.
- Kuehne, Walther, H. Pohlemann, and H. Krzikalla, to Deutsche Advance Produktion G.m.b.H. Stabilized masses of polyvinyl compounds containing halogen. 2,954,363, 9-27-60, Cl. 260-45.75.
- Kuehlein, Herman J. Window construction. 2,929,446, 3-22-60, Cl. 160-91.
- Kuenstler, Robert E., Jr., and D. W. Tressler. Amusement apparatus. 2,942,882, 6-28-60, Cl. 273-1.
- Kueser, John J., to Knapp-Monarch Co. Warming blanket control. 2,921,173, 1-12-60, Cl. 219-20.
- Kueser, John J., to Knapp-Monarch Co. Automatic corn popping appliance. 2,923,803, 2-2-60, Cl. 219-44.
- Kueser, John J., to Knapp-Monarch Co. Automatic-opening cooking appliance. 2,936,697, 5-17-60, Cl. 99-331.
- Kuestler, Ernst, and K. Rokitansky, to Vereinigte Mautner Markhof'sche Presshefe Fabriken. Process of producing yeast of increased dry solid content and reduced plasticity. 2,947,668, 8-2-60, Cl. 195-98.
- Kufel, Stanley: *See*—  
Schneider, Walter E., and Kufel. 2,921,508.
- Kufel, Stanley, Jr., and G. M. Smith, to Bostitch, Inc. Fastener applying machine. 2,920,324, 1-12-60, Cl. 1-3.
- Kugelfischer Georg Schafer & Co.: *See*—  
Brand, Karl. 2,925,093.  
Safferling, Anton. 2,952,806.  
Staeger, Werner. 2,929,369.  
Staeger, Werner. 2,929,370.
- Kugler, Edwin R. Drum handling apparatus. 2,948,428, 8-9-60, Cl. 214-653.
- Kugler, Edwin R. Spring suspension hooks. 2,957,667, 10-25-60, Cl. 248-119.
- Kugler, Albert H., to California Packing Corp. Pear slicing machine. 2,944,577, 7-12-60, Cl. 146-169.
- Kugler, Carl J.: *See*—  
Riester, Hubert A., Jr., and Kugler. 2,930,362.
- Kugler Fonderic et Robinetterie S.A.: *See*—  
Wyss, Max. 2,959,390.
- Kugler, Lewis A., to General Electric Co. Cross transfer conveyor system. 2,965,213, 12-20-60, Cl. 198-21.
- Kuhar, Ludwig J., to The Singer Mfg. Co. Presser feet for sewing machines. 2,932,269, 4-12-60, Cl. 112-235.
- Kuhar, Ludwig J., to The Singer Mfg. Co. Thread carrier for sewing machine loop taker. 2,949,874, 8-23-60, Cl. 112-231.
- Kuhar, William A.: *See*—  
Carlson, Elmer T., and Kuhar. 2,963,537.
- Kühas, Engelbert: *See*—  
Arnold, Herbert, Kühas, and Brock. 2,957,006.  
Arnold, Herbert, Kühas, and Pöhle. 2,932,668.
- Kuharski, John, to Continental Industries, Inc. Exothermic welding method. 2,957,214, 10-25-60, Cl. 22-203.
- Kuhl, Heinrich: *See*—  
Eckert, Bruno, and Kuhl. 2,938,662.  
Eckert, Bruno, and Kuhl. 2,940,257.  
Eckert, Bruno J., and Kuhl. 2,932,156.
- Kuhl, Henry Y., and P. R. Egg washer and egg holding tray. 2,950,726, 8-30-60, Cl. 134-194.
- Kühl, Johan B., to Dansk Røntgen-Teknik A/S. Device for suspending at least one body in cords, bands, or similar flexible carrying members. 2,946,549, 7-26-60, Cl. 248-328.
- Kuhl, Paul R.: *See*—  
Kuhl, Henry Y., and P. R. 2,950,726.
- Kuhl, Richard H. Weedless fish lures. 2,921,400, 1-19-60, Cl. 43-42.43.
- Kuhl, Walter K., to Wilhelm Franz K.G. Acoustic reverberation arrangements. 2,923,369, 2-2-60, Cl. 181-31.
- Kuhlman, Alvin H. Agricultural chisel. 2,925,132, 2-16-60, Cl. 172-699.
- Kuhlman, Arthur L. Block type containers. 2,960,248, 11-15-60, Cl. 215-10.
- Kuhlman, Carl W., Jr.: *See*—  
Leaders, William M., Rhodes, Kuhlman, and Hemkens. 2,953,430.
- Kuhlman Electric Co.: *See*—  
Dulude, Donald O. 2,921,996.  
Kollinger, Henry F. 2,934,593.  
Smelko, Joseph A. 2,927,809.
- Kuhlman, Ora F.: *See*—  
Moore, David W., and Kuhlman. 2,926,325.
- Kuhlman, Ora F., to Servomechanisms, Inc. Apparatus for vaporizing coating materials. 2,960,457, 11-15-60, Cl. 204-298.
- Kuhlmann, Franz, Sr.: *See*—  
Owen, Wilhelm. 2,925,756.
- Kuhlmann, Heinz, to Kek Seat Corp. Vehicle seat. 2,954,078, 9-27-60, Cl. 155-191.
- Kuhlo, Gunther: *See*—  
Nauschutz, Peter, Wessel, Kuhio, Dreyer, and Bolkow. 2,946,285.
- Kuhn, Alfred, to Siemens & Halske Aktiengesellschaft. Spacing dispatch carriers in pneumatic tube system. 2,937,822, 5-24-60, Cl. 243-29.
- Kuhn, Charles H. Hoop toy. 2,928,206, 3-15-60, Cl. 46-51.
- Kuhn, Donald H.: *See*—  
Hoefler, William G., and Kuhn. 2,934,757.
- Kuhn, Emil. Device for carrying articles on display. 2,948,500, 8-9-60, Cl. 248-122.
- Kuhn, Ernst, to Knorr-Bremse G.m.b.H. Internal combustion percussive tools. 2,950,705, 8-30-60, Cl. 123-7.



- Kuhn, Hans H., and E. K. Wilip, to W. R. Grace & Co. Separation of vinyl esters of fatty acids from the corresponding fatty acids. 2,957,015, 10-18-60, Cl. 260-410.9.
- Kuhn, Heinrich: See—  
Scherer, Otto, Hahn, and Kuhn. 2,927,948.  
Scherer, Otto, and Kuhn. 2,959,624.  
Scherer, Otto, Kuhn, and Forche. 2,946,828.
- Kuhn, Jacob. Apparatus for reading and measuring film images. 2,942,347, 6-28-60, Cl. 33-78.
- Kuhn, Jacques R., to M. Keller. Pressure cookers. 2,948,431, 8-9-60, Cl. 220-40.
- Kuhn, James O., to Bromo-Mint Co., Inc. Construction toy. 2,949,692, 8-23-60, Cl. 46-28.
- Kuhn, Joseph A., Jr., and C. R. Upton, to Crouse-Hinds Co. Servosystem for self-calibrating precision metering apparatus. 2,924,761, 2-9-60, Cl. 318-31.
- Kuhn, Paul, to Pathe Equipment Co., Inc. Sewing machines affording selective shirring of strips being sewn together along each other. 2,935,953, 5-10-60, Cl. 112-132.
- Kuhn, Richard, to C.I.C.O.M.I. Compagnie Internationale pour le Commerce et l'Industrie. Mold for and a method of producing large bodies of foamed polystyrene. 2,948,926, 8-16-60, Cl. 18-39.
- Kuhn, Richard, and W. Kirschenlohr, to American Home Products Corp. Preparation of sugar derivatives. 2,922,783, 1-26-60, Cl. 260-211.
- Kuhne, Bryan F.: See—  
Boyden, Oldenburg, Kuhne, and Linn. 2,927,729.
- Kuhnert, Alfred R., and J. Rothe, to VEB Kamera- und Kinowerke Dresden. Rotating fire shutter. 2,941,445, 6-21-60, Cl. 88-19.4.
- Kuhnrich, Max, G. Lassig, and W. Schulze, to Veb Spinn- und Zwierrreimaschinenbau Karl-Marx-Stadt. Thread feeding stop device for yarn-forming machine. 2,924,931, 2-16-60, Cl. 57-85.
- Kuhr, Friedrich, to Siemens-Schuckertwerke Aktiengesellschaft. Compensated hall voltage generator. 2,945,993, 7-19-60, Cl. 317-234.
- Kuhr, Friedrich, to Siemens-Schuckertwerke Aktiengesellschaft. Measuring apparatus comprising a magnetic field-responsive resistor as a condition-responsive element. 2,946,955, 7-26-60, Cl. 324-101.
- Kuhr, Friedrich, and E. Braunsreuther, to Siemens-Schuckertwerke Aktiengesellschaft. Apparatus for measuring the ratio of two variables, particularly two speeds of revolution. 2,956,209, 10-11-60, Cl. 317-8.
- Kuism, Gust M. Trolling device. 2,965,998, 12-27-60, Cl. 43-43.13.
- Kujala, Onni, to Courtland Furniture Co., Inc. Collapsible stroller. 2,951,708, 9-6-60, Cl. 280-41.
- Kukich, George: See—  
Kinney, Selwyn P., Garrigan, Clarke, Fuhs, and Kukich. 2,956,683.
- Kukin, Ira, to Gulf Research & Development Co. Stable fuel oil compositions. 2,943,924, 7-5-60, Cl. 44-66.
- Kukowski, John L., J. P. Kovacs, and A. J. Pierfederici, to Purolator Products, Inc. Filter unit. 2,936,891, 5-17-60, Cl. 210-131.
- Kulcsar, Frank: See—  
Brajer, Edwin J., and Kulcsar. 2,960,411.
- Kulda, Richard J.: See—  
McRuer, Duane T. Kulda, and Vogel. 2,958,483.
- Kulick, Edward L. Mooring device. 2,938,492, 5-31-60, Cl. 114-230.
- Kulick, Frederick, J. W. McGrath, and A. H. Spence, to Western Electric Co., Inc. Automatic test set. 2,924,333, 2-9-60, Cl. 209-75.
- Kulieke, Frederick C.: See—  
Kayler, Frank H., and Kulieke. 2,933,199.
- Kulleke, Frederick C., to American Steel Foundries. Controlled slack coupler. 2,920,771, 1-12-60, Cl. 213-154.
- Kuljian Corp., The: See—  
Kuljian, Harry A. 2,922,296.  
Kuljian, Harry A., and Fadden. 2,941,786.
- Kuljian, Harry A., to The Kuljian Corp. Thread processing apparatus. 2,922,296, 1-26-60, Cl. 68-205.
- Kuljian, Harry A. Valveless liquid flow control apparatus. 2,922,438, 1-26-60, Cl. 137-571.
- Kuljian, Harry A., and W. J. Fadden, Jr., to The Kuljian Corp. Boiler feed water heating apparatus. 2,941,786, 6-21-60, Cl. 257-32.
- Kulka, Eugene R. Terminal block assembly with insulating strip. 2,923,913, 2-2-60, Cl. 339-198.
- Kulka, Thomas S. Tape retaining means for tape wound on a reel. 2,962,160, 11-29-60, Cl. 206-53.
- Kull, Lee, and W. A. Black, deceased, by M. B. Black, executrix, to General Time Corp. Isochronous governor for motors and the like. 2,954,852, 10-4-60, Cl. 188-187.
- Kull, Walter: See—  
Himmelheber, Max, Steiner, and Kull. 2,923,030.
- Kuller, Nils-Erik G.: See—  
Hjelm, Karl E. W., and Kuller. 2,931,301.
- Kullgren, Gilbert W., and D. W. Stephenson, to Blaw-Knox Co. Extrusion screw adjusting mechanism. 2,944,286, 7-12-60, Cl. 18-12.
- Kulow, Richard A. Visual signal means for fishing pole holders. 2,923,082, 2-2-60, Cl. 43-17.
- Kulp, Harry W. Baiting device. 2,948,979, 8-16-60, Cl. 43-4.
- Kulusic, Steve M. Attachment for milling or slotting metal parts. 2,949,065, 8-16-60, Cl. 90-15.
- Kum, Stanley L.: See—  
Williams, John L., and Kum. 2,964,291.
- Kumm, Emerson L.: See—  
Glaser, Jerry, Kumm, Roschak, and Stoner. 2,956,502.
- Kumm, William H.: See—  
Heazel, Vincent M., Jr., and Kumm. 2,958,930.
- Kummer, Joseph T., L. J. Kressley, H. H. Grossman, and P. P. North, to The Dow Chemical Co. Continuous automatic multiple sample analyzer. 2,932,739, 4-12-60, Cl. 250-43.5.
- Kummerman, Henri, to International MacGregor Organization (I.M.G.O.). Device for actuating hatch-covers and the like. 2,965,063, 12-20-60, Cl. 114-202.
- Kummerow, Fred A., and T. Sakuragi. Long-chain fatty acid esters of vitamin B<sub>6</sub>. 2,955,115, 10-4-60, Cl. 260-295.
- Kumnick, Miles C., and J. F. Lontz, to E. I. du Pont de Nemours and Co. Method of forming continuous structures of polytetrafluoroethylene. 2,941,911, 6-21-60, Cl. 154-226.
- Kumnick, Miles C., and F. K. Watson, to E. I. du Pont de Nemours and Co. Modified hydrolyzed ethylene vinyl ester interpolymers. 2,941,973, 6-21-60, Cl. 260-30.6.
- Kump, Ernest J. Building module. 2,961,940, 11-29-60, Cl. 98-33.
- Kumperf, Beverly D., to Litton Industries of California. Low frequency magnetron. 2,953,715, 9-20-60, Cl. 315-39.75.
- Kuna, Martin: See—  
Buonocore, Michael G., and Kuna. 2,955,984.
- Kuna, Martin, to Bristol-Myers Co. Dentifrice compositions. 2,935,985, 10-11-60, Cl. 167-93.
- Kunc, John F., Jr.: See—  
Smith, John O., Jr., and Kunc. 2,929,828.  
Smith, John O., Jr., and Kunc. 2,930,680.
- Kunde, Donald M., and K. R. Williams. Temple hinge for eyeglasses. 2,933,016, 4-19-60, Cl. 88-53.
- Kundiger, Donald G., and G. F. Morris, to The Dow Chemical Co. Mercaptals of 3,3-dichloro-2-methylacrolein. 2,922,821, 1-26-60, Cl. 260-609.
- Kundiger, Donald G., and G. F. Morris, to The Dow Chemical Co. 3,3,3-trichloro-2-alkyl-2-nitropropanols and method for preparation thereof. 2,931,839, 4-5-60, Cl. 260-633.
- Kundiger, Donald G., G. F. Morris, and C. R. Dick, to The Dow Chemical Co. 3,3-dichloro-2-methylacroleins. 2,942,031, 6-21-60, Cl. 260-601.
- Kundiger, Donald G., and C. R. Dick, to The Dow Chemical Co. N - (3 - chloro - methylallyl) - benzenesulfonamides. 2,964,538, 12-13-60, Cl. 260-397.7.
- Kundrat, Walther: See—  
Schmidt-Burbach, Adam, and Kundrat. 2,936,237.
- Kundrat, William J.: See—  
Haberland, Frederick C., and Kundrat. 2,953,164.
- Kundrotas, Alexander P., to International Telephone and Telegraph Corp. Fastswitching transistor telegraph repeater. 2,937,236, 5-17-60, Cl. 178-70.
- Kunevicius, Alex A. Bowling ball finger grip. 2,950,111, 8-23-60, Cl. 273-63.
- Kung, Carl: See—  
Schneckenburger, Emil, and Kung. 2,947,075.
- Kung, Frederick E., to Columbia-Southern Chemical Corp. Production of benzene hexachloride. 2,926,197, 2-23-60, Cl. 260-648.
- Kung, Frederick E., and H. C. Stevens, to Columbia-Southern Chemical Corp. Production of benzene hexachloride. 2,926,198, 2-23-60, Cl. 260-648.
- Kuniholm, Hugo M., to Travers Welding Co., Inc. Removable door gate. 2,928,146, 3-15-60, Cl. 20-71.
- Kuniholm, Martin L.: See—  
Klar, John, and Kuniholm. 2,924,913.
- Kunik, I. Jordan: See—  
Obolensky, Guy. 2,930,540.
- Kunik, Jordan: See—  
O'Leary, Theodor A. 2,936,011.
- Kunkel, Albert A.: See—  
Kunkel, Aloysius T. 2,932,861.
- Kunkel, Aloysius T., deceased; A. A. Kunkel, administrator. Pivoted hinge-type window. 2,932,861, 4-19-60, Cl. 20-49.
- Kunowski, Hans, to Kali-Chemie A.G. Hydrolysis of organo-fluorosilanes. 2,929,830, 3-22-60, Cl. 260-448.2.
- Kunreuther, Frederick: See—  
Marshall, John A., Kunreuther, Reno, and Rehbein. 2,956,003.
- Kunsch, John G. Foil dispenser and perforator. 2,925,207, 2-16-60, Cl. 225-7.
- Kunststoffwerk Lahr G.m.b.H.: See—  
Herrmann, Frank. 2,964,176.
- Kunstzijdespinnerij Nyma N. V.: See—  
Dicker, Hermanus M. 2,958,451.
- Kuntz, Irving, to Esso Research and Engineering Co. Catalyzed halogenation of rubbery copolymers. 2,948,709, 8-9-60, Cl. 260-85.3.
- Kuntz, Louis E.: See—  
Remke, Marvin A., and Kuntz. 2,940,593.
- Kuntz, Louis E., to Phillips Petroleum Co. Liquid measuring system. 2,964,944, 12-20-60, Cl. 73-219.
- Kuntz, Louis E., and M. A. Remke, to Phillips Petroleum Co. Liquid level control. 2,949,126, 8-16-60, Cl. 137-207.
- Küntzel, Adolf, and K. Rosenbusch, to Farbenfabriken Bayer Aktiengesellschaft. Process of tanning hides with a condensation product of an acid salt of a phenyl amine, an acid salt of a lower alkyl amine and paraformaldehyde. 2,955,012, 10-4-60, Cl. 8-94.24.



- Kuntzel, Hellmuth. Combined carriage and type lever drive. 2,937,736, 5-24-60, Cl. 197-22.
- Kuntzleman, Harry C., to International Business Machines Corp. Magnetic storage and switching structure. 2,944,249, 7-5-60, Cl. 340-174.
- Kuntzleman, Harry C., and J. G. Simek, to International Business Machines Corp. Pulse integrator quantizer with single reset. 2,951,949, 9-6-60, Cl. 307-88.
- Kunz, Charles J., to Eastman Kodak Co. Roll film processing apparatus. 2,940,584, 6-14-60, Cl. 198-41.
- Kunz, Charles O.: *See*—  
Heuer, Charles A., and Kunz. 2,941,280.
- Kunz, Harold R., to United Aircraft Corp. Rocket nozzle construction with cooling means. 2,962,221, 11-29-60, Cl. 239-132.
- Kunz, Jacob T., to Schulmerich Electronics, Inc. Pickups for electrical musical instrument. 2,938,420, 5-31-60, Cl. 84-1.15.
- Kunz, Karl, and J. Hafner, to Farbwerke Hoechst AG. Vormals Meister Lucius and Bruning. Process for the continuous manufacture of crimped threads or fibers of polymeric  $\epsilon$ -caprolactam. 2,922,196, 1-26-60, Cl. 19-66.
- Kunz, Nelson W.: *See*—  
Turley, Joseph D., and Kunz. 2,927,564.
- Kunz, Walden H., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,959,060, 11-8-60, Cl. 74-5.6.
- Kunz, Walter. Sheet metal shaping machine. 2,964,089, 12-13-60, Cl. 153-54.
- Kunzer, Werner, and F. Leutert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Chemical reactor tower. 2,950,180, 8-23-60, Cl. 23-283.
- Kunzler, Alex., to Brunswick Corp. Centering device. 2,960,806, 11-22-60, Cl. 51-237.
- Kunzmann Chain Co.: *See*—  
Kunzmann, Walter R. and S. K. 2,920,442.
- Kunzmann, Ludwig, to Rodi & Wienerberger Aktiengesellschaft. Elastic link straps. 2,928,232, 3-15-60, Cl. 59-79.
- Kunzmann, Ludwig, to Rodi & Wienerberger, Aktiengesellschaft. Detachable elastic linkage. 2,952,119, 9-13-60, Cl. 59-79.
- Kunzmann, Siegfried K.: *See*—  
Kunzmann, Walter R. and S. K. 2,920,442.
- Kunzmann, Walter R. and S. K., to Kunzmann Chain Co. Ornamental chain with links having an upset joint having a stone receiving recess. 2,920,442, 1-12-60, Cl. 59-80.
- Kupa, Peter C., and C. M. Finigan, to Polymer Corp. Ltd. Purification of butadiene using an ammoniacal solution of copper ions. 2,944,095, 7-5-60, Cl. 260-681.5.
- Kupchik, George J.: *See*—  
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- Kupelwieser, Ernst: *See*—  
Lieb, Hans, Kupelwieser, and Holasek. 2,961,374.
- Kupjack, Eugene J.: *See*—  
Hippis, Herbert E., and Kupjack. 2,949,152.
- Kupperian, James E., Jr.: *See*—  
Chubb, Talbot A., and Kupperian. 2,936,388.
- Friedman, Herbert, Chubb, and Kupperian. 2,964,632.
- Kurack, William A., to Standard-Vacuum Oil Co. Aircraft refueling system. 2,948,306, 8-9-60, Cl. 141-231.
- Kurashiki Rayon Co., Ltd.: *See*—  
Ogugi, Tetsuro, Tanabe, and Ohno. 2,960,384.
- Kürbi & Niggeloh: *See*—  
Heiling, Paul. 2,948,501.
- Kurek, Edwin J., to New Castle Products, Inc. Air screen door. 2,955,521, 10-11-60, Cl. 98-36.
- Kurimura, Shizuo: *See*—  
Tanaka, Isokazu, and Kurimura. 2,948,856.
- Tanaka, Isokazu, Kurimura, and Yamazaki. 2,944,219.
- Kurita, Ken-Ichiro. Filter press. 2,949,845, 8-23-60, Cl. 100-198.
- Kurjan, Homer L., to C. H. Dexter & Sons, Inc. Air filter paper and method of making same. 2,928,765, 3-15-60, Cl. 162-129.
- Kurmeier, Hans H. Deodorizing of gases. 2,962,344, 11-29-60, Cl. 23-2.
- Kurnitz, Michael. Portable display. 2,940,606, 6-14-60, Cl. 211-183.
- Kuroiwa, Kimio, and K. Sone, to Toyo Rayon Co., Ltd. Continuous method for winding up yarns. 2,946,526, 7-26-60, Cl. 242-18.
- Kurose, Keamon. Dirigible headlights. 2,962,581, 11-29-60, Cl. 240-8.25.
- Kurschner, Lloyd F. Guide stick and support for paint brushes. 2,947,018, 8-2-60, Cl. 15-246.
- Kurshan, Jerome, to Radio Corp. of America. Semi-conductor rectifiers. 2,940,024, 6-7-60, Cl. 317-236.
- Kurt, Ewald H., to Ingersoll-Rand Co. Hole cleaning device. 2,937,619, 5-24-60, Cl. 121-10.
- Kurth, Franz B.: *See*—  
Kurtz, Franz J., Honerkamp, Phillips, and Kurth. 2,960,602.
- Kurth, Franz J., F. Honerkamp, L. R. Phillips, and F. B. Kurth, to Anemostat Corp. of America. Combined air outlet and illuminating device. 2,960,602, 11-15-60, Cl. 240-9.
- Kurti, Alexander: *See*—  
Smith, Alden F., and Kurti. 2,951,395.
- Kurti, Alexander, to United Aircraft Corp. Bypass engine with flexible duct structure. 2,943,449, 7-5-60, Cl. 60-39.32.
- Kurtz, Edward F., Jr.: *See*—  
Kaye, Joseph, Kurtz, and Harper. 2,927,398.
- Kurtz, Henry J., and A. Miles, to General Electric Co. Annealing furnace. 2,948,797, 8-9-60, Cl. 219-10.79.
- Kurtz, Louis A., to Hughes Aircraft Co. Phase shifter. 2,951,221, 8-30-60, Cl. 333-31.
- Kurtz, Mark, to United States of America, Navy. Buoy. 2,944,267, 7-12-60, Cl. 9-8.
- Kurtz, Robert G., to Philco Corp. Cleaning and treatment of gases. 2,933,151, 4-19-60, Cl. 183-7.
- Kurtzon, Morris, Inc.: *See*—  
Koch, David. 2,947,554.
- Kurtzweil, Terrence J.: *See*—  
Tomlinson, Joseph R., and Kurtzweil. 2,952,754.
- Kurz, Anton W., to Escher Wyss G.m.b.H. Suction roll for drying pulp webs, more especially in the paper and cellulose industry. 2,929,450, 3-22-60, Cl. 162-370.
- Kurz, Fred, to Sangamo Electric Co. Single phase watt-hour meter. 2,954,525, 9-27-60, Cl. 324-137.
- Kurz, Karl D.: *See*—  
Bensinger, Wolf-Dieter, and Kurz. 2,956,444.
- Kurz, Philip F., to Haloid Xerox Inc. Method of preparing a lithographic printing plate. 2,952,536, 9-13-60, Cl. 96-1.
- Kurzrock, William W. Adjustable utility bag. 2,927,617, 3-8-60, Cl. 150-1.7.
- Kusaka, Tsunaharu: *See*—  
Tatsuoka, Sueo, Kusaka, Miyake, Inoue, Shiraishi, Iwasaki, and Imanishi. 2,950,277.
- Kusama, Hidetoshi, and S. Tsuji, to Ebara Mfg. Co., Ltd. Method and apparatus for preventing surging in fans, blowers, and turbo-compressors. 2,955,743, 10-11-60, Cl. 230-19.
- Kusan Inc.: *See*—  
Dunbar, George W. 2,943,619.
- Kusel Dairy Equipment Co.: *See*—  
Thomson, Meredith C. 2,937,856.
- Kushigemachi, Tunekichi, and Y. Watanabe, to Katsuragawa Denki Kabushiki-Kaisha. Automatic voltage regulator. 2,940,034, 6-7-60, Cl. 323-11.
- Kushler, Robert H., F. W. Grant, W. J. Streetman, H. W. Smith, W. K. McPherson, Jr., M. D. Karlstadt, Jr., and F. L. Wilson, to Chrysler Corp. Motor vehicle stub frame body. 2,954,998, 10-4-60, Cl. 296-28.
- Kushner, David S., to United States of America, Navy. Time-direction sensing circuit. 2,922,107, 1-19-60, Cl. 324-68.
- Kusiv, Daniel B., to Buchanan Electrical Products Corp. Electrical wire splicing device. 2,965,700, 12-20-60, Cl. 174-87.
- Kusko, Alexander, to Basic Products Corp. Regulators. 2,962,608, 11-29-60, Cl. 307-106.
- Kuss, Ernst, deceased (by K. Kuss, nee Schmidt, heir), D. Remagen, E. Rosin, and H. Schackmann. Separation of solids from liquids by sedimentation. 2,963,157, 12-6-60, Cl. 210-83.
- Kuss, Kaethe: *See*—  
Kuss, Ernst, Remagen, Rosin, and Schackmann. 2,963,157.
- Kuss, R. L., & Co., Inc.: *See*—  
Kuss, Ralph L. 2,946,494.
- Kuss, Ralph L., to R. L. Kuss & Co., Inc. Container. 2,946,494, 7-26-60, Cl. 229-14.
- Kusserow, Gerhard W., and M. D. Draper, to Riker Laboratories, Inc. N-amido-glycylamides. 2,956,081, 10-11-60, Cl. 260-558.
- Kussmaul, Edwin E., and C. E. Burt, to Kelek Co. Pressure switches. 2,960,590, 11-15-60, Cl. 200-170.
- Kussy, Werner F.: *See*—  
Dessert, Edward P., Kussy, and Rys. 2,920,161.
- Stanback, Harris I., and Kussy. 2,938,942.
- Kussy, Werner F., to Square D Co. Electrical connector. 2,953,771, 9-20-60, Cl. 339-272.
- Kustenmacher, Heinrich: *See*—  
Bester, Werner, and Kustenmacher. 2,966,547.
- Kuster, V. E.: *See*—  
Story, James K. 2,931,573.
- Kusters, Eduard. Fluid treatment apparatus. 2,963,893, 12-13-60, Cl. 68-175.
- Küsters, Willy: *See*—  
Schoeps, Karl, and Küsters. 2,958,739.
- Kustusch, Paul, to C. L. and W. F. Holmes, and W. L. Jaycox, and A. M. Courtwright. Dial depth gauge. 2,921,375, 1-19-60, Cl. 33-172.
- Kutch, Edward F.: *See*—  
Sorg, Earl H., and Kutch. 2,933,470.
- Kutik, Louis F. Actuating handle for dispensing cans. 2,960,260, 11-15-60, Cl. 222-473.
- Kutli, Clyde R. Reeling adjustment means for hose reels and the like. 2,964,258, 12-13-60, Cl. 242-106.
- Kutner, Abraham, to Hercules Powder Co. Copolymer of sodium ethylenesulfonate and N-vinylpyrrolidone. 2,961,431, 11-22-60, Cl. 260-79.3.
- Kuts, Mathew, to The B. F. Goodrich Co. Method and apparatus for assembling rubber threads into ribbons. 2,954,815, 10-4-60, Cl. 154-1.7.
- Kutscher, Austin H., to Olin Mathieson Chemical Corp. Dental preparation. 2,937,099, 5-17-60, Cl. 106-35.
- Kuttner, Hugo. Marine propulsion means. 2,936,729, 5-17-60, Cl. 115-28.
- Kutler, Robert J., to Minneapolis-Honeywell Regulator Co. Automatic steering mechanisms. 2,929,583, 3-22-60, Cl. 244-77.



- Kuvin, Samuel H. Service cart. 2,962,728, 12-6-60, Cl. 4-167.
- Kuyk, Aart K., to General Motors Corp. Identification and retaining member for cables and the like. 2,929,161, 3-22-60, Cl. 40-2.
- Kuzmiz, Andrew A., to Bendix Aviation Corp. Compressor pressure limiter for gas turbine engines. 2,941,358, 6-21-60, Cl. 60-39.28.
- Kvavie, Robert C., to Omak Industries, Inc. Safety mechanism. 2,923,940, 2-9-60, Cl. 1-106.
- Kwap, Theodore W.: See—  
Benjamin, Sidney K., and Kwap. 2,946,018.
- Kwap, Theodore W., and E. R. Keeler, to General Precision, Inc. Time delay circuit. 2,939,969, 6-7-60, Cl. 307-88.5.
- Kwartiroff, Alexis A., and E. A. Patkevitch, to Omega Louis Brandt & Frere S.A. Time-piece. 2,962,643, 11-29-60, Cl. 318-132.
- Kwasniewski, George A., and R. S. Karinen, to General Mills, Inc. Attaching electrical components. 2,964,749, 12-20-60, Cl. 1-2.
- Kwast, Victor B., to Daystrom, Inc. Electrical tachometer. 2,958,038, 10-25-60, Cl. 324-70.
- Kwierant, Ernest E.: See—  
Jacobsen, Kenneth L., Johnson, Covell, Kwierant, and John. 2,930,345.
- Kwik Kaffe Coffee Processors of America, Inc.: See—  
Greenbaum, Frederick R. 2,963,368.
- Kwik-Kold of America, Inc.: See—  
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- Kwolek, Stanley J.: See—  
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- Kyburz, Arnold: See—  
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- Kyburz & Cie: See—  
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Monnier, Raymond, and Kyburz. 2,936,574.
- Kyhl, Robert L., to General Electric Co. High frequency couplers. 2,934,719, 4-26-60, Cl. 333-10.
- Kyker, Glendon D.: See—  
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- Kylander, Robert L., to Continental Oil Co. Alkyl aryl hydrocarbon process. 2,941,015, 6-14-60, Cl. 260-671.
- Kyle, Colin, to Hawley Products Co. Method and apparatus for making hollow accreted fibrous bodies. Re. 24,860, 8-9-60, Cl. 162-219.
- Kyle, James C., G. Robinson, and L. W. Eggers, Jr., to Consolidated Electrodynamics Corp. Pulse insertion device. 2,920,212, 1-5-60, Cl. 307-81.
- Kyle, Robert T., and A. Nilsen, to The Gas Machinery Co. Catalytic reforming of hydrocarbons. 2,921,845, 1-19-60, Cl. 48-214.
- Kyler, Robert J., to United States of America, Air Force. Switching circuit for differentiator. 2,946,901, 7-26-60, Cl. 307-88.5.
- Kyles, William H. Melon holder. 2,953,180, 9-20-60, Cl. 146-216.
- Kymin Osakeyhtio-Kymmene Aktiebolag: See—  
Ornhjelm, Runar M. R. 2,959,468.
- Kyowa Hakkō Kogyō Kabushiki Kaisha: See—  
Sakaguchi, Kinichiro, Abe, and Beppu. 2,949,404.
- Kyper, James G. Artificial fish lure. 2,958,152, 11-1-60, Cl. 43-42.47.
- Kyriazi, Jean A. Apparatus for fine crushing. 2,931,582, 4-5-60, Cl. 241-56.
- Kyrides, Lucas P., to Wyandotte Chemicals Corp. m- and p-xylylene-di-(dialkanolamines). 2,959,618, 11-8-60, Cl. 260-570.9.
- L.A.D. Industries, Inc.: See—  
David, Eric, and Aiello. 2,944,643.
- L.B.C. Watch Case and Jewelry Co.: See—  
Berchan, Paul. 2,963,852.
- LCN Closers, Inc.: See—  
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- L.E.E. Inc.: See—  
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- L.J.R. Corp.: See—  
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- L & L Mfg. Co.: See—  
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- L-M Equipment Co.: See—  
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- L. O. F. Glass Fibers Co.: See—  
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Labino, Dominick. 2,946,694.  
Mottet, Theodore J. 2,920,202.
- Laager, Creston F., to United States of America, Army. Single trigger sequential firing mechanism. 2,947,220, 8-2-60, Cl. 89-1.
- Laagewaard, Paul L. Light metal piston with plated head. 2,947,582, 8-2-60, Cl. 309-9.
- Laakso, Thomas M., and J. L. R. Williams, to Eastman Kodak Co. Linear polyesters containing an alkylene diamine group and manufacture thereof. 2,925,405, 2-16-60, Cl. 260-75.
- Laakso, Thomas M., and W. F. Fowler, Jr., to Eastman Kodak Co. Production of high wet strength paper. 2,928,736, 3-15-60, Cl. 96-85.
- La Bar, Phil T. Corner form clamp. 2,951,520, 9-6-60, Cl. 144-291.
- La Barge, Pierre L., Jr., to Labarge Pipe and Steel Co. Lift. 2,922,533, 1-26-60, Cl. 214-1.
- Labarge Pipe and Steel Co.: See—  
La Barge, Pierre L., Jr. 2,922,533.
- La Barre, Lawrence J., and W. I. Girdner, to Hewlett-Packard Co. Lapping machine. 2,945,331, 7-19-60, Cl. 51-131.
- La Bate, Micheal D., to Ritetherm, Inc. Combined electric arc and hydrocarbon fuel heated metal melting furnace and method of melting therewith. 2,927,142, 3-1-60, Cl. 13-2.
- Labbe, Armand L. Apparatus for shaking filter bags. 2,964,129, 12-13-60, Cl. 183-54.
- Labbe, Robert F., to Central Scientific Co. Blender. 2,951,684, 9-6-60, Cl. 257-108.
- Labbee, Joseph A., Jr., deceased; K. G. Labbee, administratrix. Screw-taper drill with a depth gauge. 2,943,658, 7-5-60, Cl. 145-125.
- Labbee, Katherine G.: See—  
Labbee, Joseph A., Jr. 2,943,658.
- Labelon Tape Co., Inc.: See—  
Vander Weel, Walter H. 2,927,039.
- Labelle, Dominique. Plow guide. 2,956,630, 10-18-60, Cl. 172-321.
- Labin, Emile, and S. Frankel, to International Telephone and Telegraph Corp. Frequency controlling system. 2,958,767, 11-1-60, Cl. 250-13.
- Labine, Roland A., to Package Machinery Co. Machine for wrapping an assembly of cylindrical articles. 2,930,173, 3-29-60, Cl. 53-230.
- Labine, Roland A., to Package Machinery Co. Web feeding device. 2,934,338, 4-26-60, Cl. 271-22.
- Labino, Dominick, to L. O. F. Glass Fibers Co. Colored glass fibers. 2,932,587, 4-12-60, Cl. 117-104.
- Labino, Dominick, to L. O. F. Glass Fibers Co. Glass composition. 2,946,694, 7-26-60, Cl. 106-47.
- Laboissiere, Pierre. Multiple accumulator accounting machine. 2,930,529, 3-29-60, Cl. 235-160.
- Laboissiere, Pierre. Electro-magnetic counter. 2,948,471, 8-9-60, Cl. 235-92.
- La Bombard, Leon E., to The International Paper Box Machine Co. Folder belt apparatus. 2,931,277, 4-5-60, Cl. 93-52.
- La Bombard, Leon E., to The International Paper Box Machine Co. Method and apparatus for creasing blanks. 2,949,066, 8-16-60, Cl. 93-58.3.
- La Bonia, Vincent, and J. W. Platt, to Platt & Labonia Co. Combined shelf and hanger means and improved support therefor. 2,940,600, 6-14-60, Cl. 211-90.
- Labonte, Henri: See—  
Garand, Albert, and Labonte. 2,925,169.
- Laboratoires Delagrangre Societe d'Applications Pharmacodynamiques: See—  
Mizier, Maurice. 2,942,000.
- Laboratoires d'Electronique et de Physique Appliquees L.E.P. See—  
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Dauguet, Alexandre. 2,960,001.
- Laboratoires Vifor S.A.: See—  
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- Laboratory for Electronics, Inc.: See—  
Bannister, Lawrence H., Dinowitz, and Powers. 2,927,159.
- Cole, Addison D., James, Nonnemaker, and Sternberg. 2,921,305.
- Darou, William T., Jr., Gorman, and Metcalf. 2,961,494.
- Gardiner, Charles W. 2,961,644.
- Glauberger, Marvin H. 2,932,006.
- Glauberger, Marvin H., and Kerner. 2,947,971.
- Gordon, Bernard M., Wang, and Nicola. 2,920,312.
- Hieken, Charles. 2,936,444.
- Kelner, Robert C., Fuller, Rubinstein, and Lerner. 2,958,076.
- Kelner, Robert C., and Rubinstein. 2,933,719.
- Levin, John B., Repella, and Rosen. 2,964,745.
- Meyer, Maurice A. 2,920,289.
- Meyer, Maurice A. 2,941,166.
- Meyer, Maurice A. 2,946,016.
- Meyer, Maurice A. 2,962,675.
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- Laboratory Equipment Corp.: See—  
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Bennet, Eugene L., Rohn, and Schmitt. 2,962,360.  
Rohn, William C. 2,930,602.  
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- Laborde, Alden J., and T. S. Graham, to Ocean Drilling & Exploration Co. Submersible barge. 2,921,442, 1-19-60, Cl. 61-46.5.
- Labory, Raymond F.: See—  
Wendrow, Bernard, and Labory. 2,928,436.
- La Bov, Albert: See—  
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- Lab-Quip Engineering Corp.: See—  
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- La Branche, Harvey W., to Washington Steel Products, Inc. Apparatus for packaging articles in a printed plastic sheet. 2,958,172, 11-1-60, Cl. 53-141.
- Labrie, Joseph C. Latch and lock for sliding door. 2,923,145, 2-2-60, Cl. 70-97.
- Labrozzi, Anthony F.: *See—*  
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- La Brut, Robert H. Collapsible portable stand up table. 2,932,343, 4-12-60, Cl. 155-22.
- La Buff, Hugh P., and J. B. Shinal, to Sylvania Electric Products Inc. Image reproduction device screen. 2,932,570, 4-12-60, Cl. 96-35.
- La Burthe, Edouard. Medical beds. 2,961,665, 11-29-60, Cl. 5-90.
- Labusky, Joan M.: *See—*  
Labusky, John R. and J. M. 2,956,616.
- Labusky, John R. and J. M. Baby walker. 2,956,616, 10-18-60, Cl. 155-22.
- Lacey, Richard N., to The Distillers Co. Ltd. Production of a supported catalyst. 2,930,766, 3-29-60, Cl. 252-473.
- Lach, Walter: *See—*  
Johnson, Joel R., Lach, and Stephen. 2,944,332.
- Lachaise, Paul. Finder for photographic cameras. 2,933,029, 4-19-60, Cl. 95-44.
- Lachance, Armand A. Wheel hub construction. 2,937,060, 5-17-60, Cl. 308-187.
- Lachance, Armond A., and S. Ciborowski, said Ciborowski assor. to said Lachance. Infant's folding seat for grocery carts. 2,952,470, 9-13-60, Cl. 280-33.99.
- Lachance, Armond A., and S. Ciborowski: said Ciborowski assor. to said Lachance. Handles for grocery carts and identification means therefor. 2,962,827, 12-6-60, Cl. 40-308.
- Lachmann, Horst: *See—*  
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- Lackey, Robert S.: *See—*  
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- Lackoff, Samuel K., to Van Norman Industries, Inc. Improvements in or relating to switching devices for signal transceivers. 2,962,584, 11-29-60, Cl. 250-13.
- Lacoe, Ralph D., Jr. Magazine slide projector with slide review means. 2,922,335, 1-26-60, Cl. 88-28.
- Lacoe, Ralph D., Jr. Slide pre-heater for projectors. 2,933,979, 4-26-60, Cl. 88-28.
- La Combe, Edward M., and B. Stewart, to Union Carbide Corp. Alkylsulfonylesters. 2,956,079, 10-11-60, Cl. 260-488.
- Lacoste, Jean R. Shirts with attached collars. 2,927,326, 3-8-60, Cl. 2-116.
- La Coste, Lucien J. B., to La Coste & Romberg. Leveling device for indicating units. 2,930,138, 3-29-60, Cl. 33-220.
- La Coste, Lucien J. B., to La Coste & Romberg. Force measuring apparatus. 2,964,948, 12-20-60, Cl. 73-382.
- Lacoste, Roger G.: *See—*  
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- Lacoste, Roger G., J. W. Wisner, and H. D. Kluge, to Texaco Inc. Process for preparing salts of hydrocarbon phosphorus sulfide reaction products. 2,935,505, 5-3-60, Cl. 260-139.
- La Coste & Romberg: *See—*  
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- Lacroix, Arthur J., Jr.: *See—*  
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- La Crosse Cooler Co.: *See—*  
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- Lacy, Franklin R., III. Pin fastener. 2,944,312, 7-12-60, Cl. 24-161.
- Lacy, George C., Jr. Liquid fertilizer applicator. 2,960,999, 11-22-60, Cl. 137-564.5.
- Lacy, George H.: *See—*  
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- Lacy, Ida L., and T. A. Tennyson. Traveling scaffold. 2,930,441, 3-29-60, Cl. 182-14.
- Lacy, James W.: *See—*  
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- Lacy, James W., to Texas Instruments Inc. Semi-conductor package. 2,962,161, 11-29-60, Cl. 206-56.
- Lacy, Peter D., to Hewlett-Packard Co. High speed binary counter. 2,944,224, 7-5-60, Cl. 331-82.
- Lacy, Peter D., and D. E. Wheeler, to Hewlett-Packard Co. High frequency attenuator circuit. 2,928,058, 3-8-60, Cl. 333-811.
- Lacy, Sherman: *See—*  
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- Ladd, Byrle J., and J. C. Philipp, to The Dow Chemical Co. Method of controlling solids in fluids from wells. 2,941,594, 6-21-60, Cl. 166-12.
- Ladd, Conrad M., and W. J. Miller, to United States of American, Atomic Energy Commission. Fuel elements for nuclear reactors. 2,938,848, 5-31-60, Cl. 204-193.2.
- Ladd, Edward L., to United Aircraft Products, Inc. Damage resistant plate type heat exchanger. 2,952,445, 9-13-60, Cl. 257-245.
- Ladd, Lawrence R., to G. F. Albrecht, deceased, d.b.a. Albrecht Mfg. Co.; S. B. Albrecht, executrix. Composite spinning and twisting ring. 2,926,484, 3-1-60, Cl. 57-120.
- Ladd, Lawrence R. Spinning ring. 2,940,245, 6-14-60, Cl. 57-120.
- Ladd, John. Hearing aid. 2,959,645, 11-8-60, Cl. 179-107.
- Laden, Max H., to Swift & Co. Non-tear case sealing adhesive. 2,943,071, 6-28-60, Cl. 260-27.
- Ladenheim, Eli: *See—*  
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- Lader, Leon J., to Hughes Aircraft Co. Ferrite microwave mixer. 2,936,369, 5-10-60, Cl. 250-20.
- Ladeuze, Maurice J. B., and P. Toni. Process for the treatment of tracing papers to make them readily erasable upon. 2,947,640, 8-2-60, Cl. 106-2.
- Ladewski, Casimer S. Ladder attachment. 2,934,163, 4-26-60, Cl. 182-214.
- Ladine, Duane A.: *See—*  
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- Ladisch, Rolf K., to United States of America, Army. Process of dyeing protein fibers by means of insect quinones. 2,936,210, 5-10-60, Cl. 8-54.
- Ladish Co.: *See—*  
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- La Dona, Clyde. Emergency braking systems. 2,945,727, 7-19-60, Cl. 303-63.
- Lador, Inc.: *See—*  
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- Ladrick, Ray C., to Western Electric Co., Inc. Device for inserting and pulling electrical plugs. 2,936,438, 5-10-60, Cl. 339-110.
- Ladusaw, William T., to General Electric Co. Room air conditioner. 2,920,459, 1-12-60, Cl. 62-281.
- Ladymon, Frances L. Safety drip pan for printing presses. 2,934,003, 4-26-60, Cl. 101-1.
- Laemmel, Charles H., to The Sheffield Corp. Thread rolling device. 2,933,955, 4-26-60, Cl. 80-6.
- Laemmle, David C., and M. Hawryluk, to Beby Bedding Corp. Seat bed. 2,937,382, 5-24-60, Cl. 5-16.
- La Favorite Rubber Mfg. Co.: *See—*  
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- Laferte, Albert A., to Draper Corp. Picker stick check. 2,954,057, 9-27-60, Cl. 139-161.
- Lafferty, Hugh C.: *See—*  
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- Lafferty, Hugh C., and O. Tuxen, to General Motors Corp. Engine fuel control means. 2,927,562, 3-8-60, Cl. 123-27.
- Lafferty, James M., to General Electric Co. Gaseous discharge device. 2,944,179, 7-5-60, Cl. 313-214.
- Lafferty, James M., to General Electric Co. Formation of electric discharge devices. 2,957,741, 10-25-60, Cl. 316-19.
- Lafferty, John J.: *See—*  
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- Lafferty, Raymond E., to The Daven Co. Inductive coupling of toroidal coils. 2,953,756, 9-20-60, Cl. 333-77.
- Lafferty, Richard G. D. System for correlating and evaluating data. 2,931,109, 4-5-60, Cl. 35-24.
- Laffey, John J.: *See—*  
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Hakala, Thomas H., and Laffey. 2,964,493.
- Laffler, Robert C., and C. Rombough, said Laffler assor. to said Rombough. Cartridges for fertilizers, fungicides and/or insecticides. 2,931,140, 4-5-60, Cl. 47-48.5.
- Lafitte, Théodore. Positively actuated starting device for engine. 2,947,179, 8-2-60, Cl. 74-6.
- Lafitte, Théodore. Positively operated starting device for starting motors. 2,960,879, 11-22-60, Cl. 74-6.
- La Flame, Frank E.: *See—*  
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Jackson, George W., La Flame, and Pribonic. 2,937,715.
- Laflamme, Achille A., and A. Poff. Barring. 2,931,195, 4-5-60, Cl. 63-12.
- La Flamme, Paul M.: *See—*  
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- La Fleur, Kermit S., to Deering Milliken Research Corp. Method of fulling and scouring wool. 2,925,639, 2-23-60, Cl. 26-19.
- La Fonte Electrique S.A.: *See—*  
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- La Forest, Louis Z., to McGraw-Edison Co. Length and correction marker in dictating machine. 2,940,761, 6-14-60, Cl. 274-1.
- La France, Donald S., H. de V. Finch, and G. W. Hearne, to Shell Oil Co. Recovery of epoxypropionaldehyde. 2,935,452, 5-3-60, Cl. 202-46.
- Lafreniere, Leo: *See—*  
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- La Furge, James P. Clothes drying rack. 2,951,591, 9-6-60, Cl. 211-105.3.
- Lagally, Paul: *See—*  
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- Lagally, Paul. Preparation and stabilization of water soluble reactive titanium derivatives. 2,950,174, 8-23-60, Cl. 23-202.
- Lagarias, John S.: *See—*  
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- Lagarias, John S., to Koppers Co., Inc. Cleaning of cloth filter media. 2,962,120, 11-29-60, Cl. 183-61.
- Lager, Earl W.: *See—*  
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- Lagerstrom, Richard P., and D. A. Dunn, to United States of America, Navy. Ring-strapped multifilar helix. 2,961,572, 11-22-60, Cl. 315-3.6.



- Lajos, Thomas L. Fish signal device. 2,947,105, 8-2-60, Cl. 43-17.
- La Gloria Oil and Gas Co.: *See*—  
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- Lagoma, Trinidad. Mask. 2,923,291, 2-2-60, Cl. 128-76.
- Lagradere Banquard, Alberto, to Metales y Plateria Ribera, S.A. Process for manufacturing piston rings. 2,919,486, 1-5-60, Cl. 29-156.6.
- La Halse, Anthony R., to United States of America, Air Force. Signal-pulse-noise to noise ratio meter. 2,959,872, 11-8-60, Cl. 250-20.
- La Haye, Frank, and D. D. Ordahl, to United States of America, Navy. Gas generator assembly. 2,921,521, 1-19-60, Cl. 102-39.
- Lahde, Reinhard N., to Curtiss-Wright Corp. Angular rate gyroscope. 2,951,376, 9-6-60, Cl. 74-5.6.
- Lahde, Reinhard N., to Curtiss-Wright Corp. Integrating rate gyroscope. 2,951,377, 9-6-60, Cl. 74-5.6.
- Lahee, Henry. Pipe coupling having stress compensating means. 2,927,806, 3-8-60, Cl. 285-115.
- Laher, Frank J. Overload spring. 2,942,869, 6-28-60, Cl. 267-45.
- Lahr, Paul H., and H. Lamprey, to Union Carbide Corp. Process for using shock waves to produce acetylene. 2,958,716, 11-1-60, Cl. 260-679.
- Lahti, Arvo A., G. E. Inshaw, and F. S. McCormick, to Consolidated Electrodynamics Corp. Tape transport system. 2,921,753, 1-19-60, Cl. 242-55.12.
- La Hue, Philip M., to Minneapolis-Honeywell Regulator Co. Gyroscopic apparatus. 2,928,282, 3-15-60, Cl. 74-5.37.
- Laible, Oswald K.: *See*—  
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- Laikam, Walter: *See*—  
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- Laine, Leslie H.: *See*—  
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 Carson, Frank J., and Laine. 2,920,423.
- Laing, Charles. Animal nail clippers. 2,955,354, 10-11-60, Cl. 30-29.
- Laing, Gordon F., to Baso Inc. Fuel control and ignition system. 2,958,377, 11-1-60, Cl. 158-128.
- Lair, Julien J. B., to International Telephone and Telegraph Corp. Pulse modulation systems. 2,920,288, 1-5-60, Cl. 332-9.
- Lair, Julien J. B., to International Telephone and Telegraph Corp. Pulse modulation detector circuit. 2,939,003, 5-31-60, Cl. 250-27.
- Laird, Hubert C.: *See*—  
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- Laird, Joseph P., to Equipment Mfg., Inc. Beam rack. 2,954,197, 9-27-60, Cl. 248-119.
- Laird, William M., and M. R. J. Wyllie, to Gulf Research & Development Co. Method and apparatus for logging drilling fluid. 2,930,967, 3-29-60, Cl. 324-1.
- L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude: *See*—  
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- Laist, Frederick, to The Anaconda Co. Production of alumina. 2,947,604, 8-2-60, Cl. 23-143.
- Laist, Frederick, to The Anaconda Co. Production of alumina. 2,947,605, 8-2-60, Cl. 23-143.
- Lait, Raymond: *See*—  
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- Lait, Raymond, G. F. Lewis, and K. M. Hack, to Laporte Chemicals Ltd. Process for the reactivation of a supported palladium hydrogenation catalyst. 2,925,391, 2-16-60, Cl. 252-414.
- Lakatos, Louis L., to United States of America, Navy. Apparatus for monitoring signal levels in a diversity receiving system. 2,927,202, 3-1-60, Cl. 250-20.
- Lakatos, Louis L., to Radio Corp. of America. Receiving system for suppressed carrier waves with phase-locked synchronous detector. 2,930,891, 3-29-60, Cl. 250-20.
- Lakatosh, William: *See*—  
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- Lake, Connie. Rotary skid and stand assembly. 2,951,593, 9-6-60, Cl. 211-144.
- Lake Erie Machinery Corp.: *See*—  
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- Lake, Irving Y.: *See*—  
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- Lake, Murray S. Storage battery. 2,923,758, 2-2-60, Cl. 136-143.
- Lake, Ronald E., and H. Menown, to English Electric Valve Co. Ltd. Thyratrons. 2,953,716, 9-20-60, Cl. 315-59.
- Lake, William C.: *See*—  
 Adcock, Willis A., and Lake. 2,935,380.
- Lake, William H., to General Electric Co. Glow switch. 2,930,872, 3-29-60, Cl. 200-113.5.
- Lake, William H., and J. Kastner, to General Electric Co. Glow switch. 2,930,873, 3-29-60, Cl. 200-113.5.
- Lakeside Engineering Corp.: *See*—  
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- Lakeside Laboratories, Inc.: *See*—  
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- Lakewood Mfg. Co.: *See*—  
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- Lakin, Charles T. Collision-course director. 2,958,135, 11-1-60, Cl. 33-46.5.
- Lakin, James W., to American & Effrd Mills, Inc. Sewing machine apparatus to prevent backlash of bobbin thread. 2,965,057, 12-20-60, Cl. 112-231.
- Lakin, Paul C. Convertible bench and table. 2,959,209, 11-8-60, Cl. 155-43.
- Lakin, Willis M., to Marlin Toy Products, Inc. Toy with collapsible feature. 2,936,546, 5-17-60, Cl. 46-118.
- Lakins, Franklin D., to Lipe-Rollway Corp. Stock bar guide feed tube. 2,933,173, 4-19-60, Cl. 193-38.
- Lakins, Franklin D., and G. B. Lanphere, to Lipe-Rollway Corp. Automatic bar working machine. 2,920,376, 1-12-60, Cl. 29-93.
- Lakos, Georg G.: *See*—  
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- Lakso Co. Inc.: *See*—  
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- Lakso, Eino E., to The Lakso Co. Inc. Elevating conveyor. 2,964,164, 12-13-60, Cl. 198-164.
- Lala, Marcel: *See*—  
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- Labiberte, Albert J.: *See*—  
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- L'Allemand, Charles C.: *See*—  
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- Lalli, Vincent R.: *See*—  
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- Lally Column Co.: *See*—  
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- Lally, Philip M., to Sperry Rand Corp. Frequency shifting apparatus. 2,933,639, 4-19-60, Cl. 315-3.6.
- Lally, Vincent E., to Tele-Dynamics Inc. Weather chart facsimile system. 2,922,840, 1-26-60, Cl. 178-6.6.
- Lally, Vincent E., and C. F. Campen, Jr., to United States of America, Air Force. Method and means for electronic transmission and reproduction of data in graphic form. 2,923,770, 2-2-60, Cl. 178-19.
- Lalmond, Harold W.: *See*—  
 Nalette, Thomas A., and Lalmond. 2,946,877.
- Lalonde, Euclide. Tent attachment for automobiles. 2,926,677, 3-1-60, Cl. 135-4.
- Lam, Shek Y., to F. Bresee, Jr.; F. C. Bresee, administratrix. Defoaming compositions and method and products containing the same. 2,956,971, 10-18-60, Cl. 260-23.
- Lamade, Ralph M., Jr., J. B. Whitehouse, C. A. Di Maggio, G. H. Hall, and G. A. Wood, Jr., to Arthur D. Little, Inc. Automatic handling equipment. 2,954,906, 10-4-60, Cl. 223-1.
- Laman, William H., to International Business Machines Corp. Movement detection device. 2,934,753, 4-26-60, Cl. 340-259.
- Lamar, Charles C.: *See*—  
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- Lamar, Charles C., to Harper-Wyman Co. Thermostatic control apparatus for a double burner. 2,950,865, 8-30-60, Cl. 236-32.
- La Marche, Marcel. Disposable waste container for automobiles. 2,936,105, 5-10-60, Cl. 229-53.
- La Marche, Roby W. Cell or battery testing device. 2,921,254, 1-12-60, Cl. 324-29.5.
- La Marre, Roger R., to Aeroquip Corp. Adjustable boss fitting. 2,926,935, 3-1-60, Cl. 285-184.
- La Martine, Francis N., to Chance Vought Aircraft, Inc. Method and apparatus for deep beading thin gauge metal. 2,940,502, 6-14-60, Cl. 153-73.
- Lamaudiere, Paul F. J. Switches. 2,939,926, 6-7-60, Cl. 200-67.
- Lamb, Alan W. Toy parachute. 2,937,474, 5-24-60, Cl. 46-86.
- Lamb, Carl W. Multiple band gamma matched antenna. 2,949,607, 8-16-60, Cl. 343-722.
- Lamb, F. Jos., Co.: *See*—  
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 Kay, John G. 2,921,413.  
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- Lamb, Francis X., to Daystrom, Inc. Instrument cover securing means. 2,957,599, 10-25-60, Cl. 220-4.
- Lamb, George E.: *See*—  
 Turnbull, Roger F., and Lamb. 2,927,413.



- Lamb, George E., to Lamb-Grays Harbor Co., Inc. Bale height control means for baling presses. 2,928,335, 3-15-60, Cl. 100—256.
- Lamb, Glentworth, to American Cyanamid Co. Fungitoxic-bacteriotoxic guanidine compositions. 2,921,881, 1-19-60, Cl. 167—22.
- Lamb, Glentworth, and J. W. Clapp, to American Cyanamid Co. Method of protecting organic material against fungi comprising applying a 1,2-naphthoquinone 1-oxime. 2,935,440, 5-3-60, Cl. 167—32.
- Lamb, Glentworth, and J. W. Clapp, to American Cyanamid Co. Method of protecting material against fungi comprising applying a 1,2-naphthoquinone 2-oxime. 2,935,441, 5-3-60, Cl. 167—32.
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- Lamb, Glentworth, and J. W. Clapp, to American Cyanamid Co. Method of protecting material against fungi comprising applying a heavy metal complex of a 1,2-naphthoquinone 1-oxime. 2,935,443, 5-3-60, Cl. 167—32.
- Lamb-Grays Harbor Co., Inc.: *See—*
- Lamb, George E. 2,928,335.
- Turnbull, Roger F., and Lamb. 2,927,413.
- Lamb, Kenneth, to Coast Metals, Inc. Torch with internal powder feed. 2,957,630, 10-25-60, Cl. 239—85.
- Lamb, Owen L., to International Business Machines Corp. Peak sensing circuit. 2,961,642, 11-22-60, Cl. 340—172.5.
- Lamb, Raymond J.: *See—*
- Fessler, Frank. 2,958,570.
- Lamb, William A. S.: *See—*
- Chambers, Edmund S., Garren, Kippenhan, Lamb, and Riddell. 2,920,236.
- Lambda Electronics Corp.: *See—*
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- Lambeck, Raymond P., to United Aircraft Corp. Overspeed pitch lock. 2,928,477, 3-15-60, Cl. 170—160.21.
- Lambeck, Raymond P., and A. V. Pond, to United Aircraft Corp. Propeller control mechanism. 2,927,648, 3-8-60, Cl. 170—160.2.
- Lamberson, Jack L., Jr.: *See—*
- Anderson, Roy E., Cole, Kenneday, and Lamberson. 2,963,092.
- Lambert, Alfred G., Jr., to The Martin Co. Apparatus for moving aircraft over the ground. 2,966,222, 12-27-60, Cl. 180—6.7.
- Lambert, Arthur: *See—*
- France, Harold, Lambert, and Meyrick. 2,950,307.
- Haggis, Geoffrey A., and Lambert. 2,930,769.
- Lambert Brake Corp.: *See—*
- Griswold, Frederick D. 2,922,495.
- Hahn, Emil H., and Tsai. 2,928,504.
- Kershner, Osborn A. 2,938,608.
- Kershner, Osborn A., and Tsai. 2,938,607.
- Messer, Paul J. 2,959,108.
- Myers, Claude R. 2,921,651.
- Parrett, Dent. 2,937,721.
- Zindler, Roger R. 2,965,421.
- Lambert, Cecil A., to Essex Wire Corp. Electric switch. 2,941,057, 6-14-60, Cl. 200—104.
- Lambert, Emile P. Prefabricated electric line elements, comprising conductors embedded in an insulating material. 2,941,026, 6-14-60, Cl. 174—71.
- Lambert, Frank A. Collapsible support device for vehicles. 2,932,544, 4-12-60, Cl. 311—21.
- Lambert, Gerard: *See—*
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- Lambert, Harold L., to Rotax Ltd. Compressed air or other gas control valves. 2,950,732, 8-30-60, Cl. 137—219.
- Lambert, Harry E., to Central Fibre Products Co. Article handling apparatus. 2,927,512, 3-8-60, Cl. 93—93.
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- Lambert, Harry L., to Royal McBee Corp. Tab-stop setting device for business machines. 2,946,422, 7-26-60, Cl. 197—179.
- Lambert, Harry L., P. F. Page, and A. G. Snyder, to Royal McBee Corp. Decoding device. 2,932,375, 4-12-60, Cl. 197—20.
- Lambert, James E., and I. O. Lewis, to Imperial Chemical Industries Ltd. Blasting methods and materials. 2,955,534, 10-11-60, Cl. 102—23.
- Lambert, Joseph C. Cutter attachment for corn picker. 2,952,109, 9-13-60, Cl. 56—18.
- Lambert, Joseph M., J. P. Copes, and G. J. Wright, to General Aniline & Film Corp. Precipitation inhibiting. 2,964,467, 12-13-60, Cl. 210—58.
- Lambert, Merlan M., M. A. Segura, and E. A. Hunter, to Esso Research and Engineering Co. Preparation and recovery of modified rubbery copolymers. 2,953,549, 9-20-60, Cl. 260—85.3.
- Lambert, Pol: *See—*
- Carpentier, Raymond, and Lambert. 2,950,327.
- Lambert, Raoul A., to Westinghouse Electric Corp. Food mixer apparatus. 2,943,846, 7-5-60, Cl. 259—108.
- Lambert, Ray. Shot-noise transducers. 2,932,801, 4-12-60, Cl. 330—149.
- Lambert, Robert D.: *See—*
- Zieg, Clifford V., and Lambert. 2,940,399.
- Lambert, Robert D., to Changewood Corp. Trim saw apparatus. 2,931,401, 4-5-60, Cl. 143—48.
- Lambert, Robert D., to Symington-Wayne Corp. Device for remotely winding a reel. 2,963,227, 12-6-60, Cl. 239—197.
- Lambert, Robert R., to Air Factors, Inc. Modular grid construction. 2,940,376, 6-14-60, Cl. 98—40.
- Lamberti, Vincent, and M. D. Konort, to Lever Brothers Co. Detergent composition containing 2-alkyl-4,4-bis(hydroxymethyl)oxazolines. 2,932,617, 1-12-60, Cl. 252—137.
- Lamberty, Bernard J., to Sylvania Electric Products Inc. Apparatus for measuring impedance. 2,964,702, 12-13-60, Cl. 324—58.
- Lamblase, Frederick F., one-half to F. Gregor. Apparatus for producing thin wafer-like candies. 2,965,048, 12-20-60, Cl. 107—27.
- Lambrech, Joseph A., to Union Carbide Corp. Method of combating weeds using N-substituted carbamates of 2,4,5-trichloro, 6-nitro phenol. 2,933,383, 4-19-60, Cl. 71—2.6.
- Lambrech, Joseph A., W. H. Hensley, R. E. Kent, and J. E. Lynch, to Chas. Pfizer & Co., Inc. Sulfur containing reaction products. 2,932,644, 4-12-60, Cl. 260—268.
- Lamellen- und Kupplungsbau August Haussermann: *See—*
- Haussermann, Kurt. 2,952,453.
- Lamer, Gerald P.: *See—*
- Pueschner, Philip R., and Lamer. 2,936,086.
- Laminators Inc.: *See—*
- Hannon, Donald F. 2,932,913.
- Lamke, Frans G. H. Alleviating contrivances for silos, drying shafts and the like. 2,936,084, 5-10-60, Cl. 214—17.
- Lamkin, John C., to Standard Oil Co. Stationary liquid phase for gas chromatography. 2,930,443, 3-29-60, Cl. 183—2.
- Lamkin, Richard C., C. R. Steltjes, and J. F. Etherington, to The Murray Corp. of America. Centrifugal pumps. 2,934,023, 4-26-60, Cl. 103—103.
- Lamkin, Willis L. Calendar calculator. 2,932,914, 4-19-60, Cl. 40—113.
- Lamm, Morris: *See—*
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- Lamm, Uno, to Ailman Svenska Elektriska Aktiebolaget. Arrangement in anode tubes for high voltage ionic valves. 2,926,278, 2-23-60, Cl. 313—249.
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- Lampard, Edward H. A., and B. Shaw, to British Celanese Ltd. Process for the manufacture of self-supporting tubes of thermoplastic material. 2,922,194, 1-26-60, Cl. 18—57.
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- Lampe, Robert C., to Electrolux Corp. Suction nozzle. 2,949,624, 8-23-60, Cl. 15—356.
- Lampert, Murray A., to Radio Corp. of America. Means for utilizing solid-state materials and devices for the electronic control of guided electromagnetic wave energy. 2,928,056, 3-8-60, Cl. 332—54.
- Lamphere, Jean K.: *See—*
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- Kammerer, Archer W., Jr. 2,945,677.
- Lamphier, Walter C., to Sprague Electric Co. Capacitor end seal. 2,941,024, 6-14-60, Cl. 174—52.
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- Lamphier, Walter C., W. B. Robinson, and A. J. Christopher, Jr., to Sprague Electric Co. Process for improving the electrical characteristics of polyethylene terephthalate film. 2,923,977, 2-9-60, Cl. 18—48.
- Lamping, Roland D. Toilet flushing apparatus. 2,957,181, 10-25-60, Cl. 4—26.
- Lampman, Stephen C.: *See—*
- Hayes, John R., and Lampman. 2,925,998.
- Lamport, Ivan R.: *See—*
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- Lampredi, Aurelio, to Fiat Societa per Azioni. Combustion chamber for internal combustion engines. 2,954,023, 9-27-60, Cl. 123—91.
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- Lancashire Dynamo & Crypto Ltd.: *See—*
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- Lancaster, Earl B., and R. A. Anderson, to United States of America, Agriculture. Differential ammeter for alternating current motors. 2,929,010, 3-15-60, Cl. 318—490.
- Lancaster, Keith. Control device for liquid dispensing and withdrawing apparatus. 2,937,671, 5-24-60, Cl. 141—119.
- Lancaster, Noye. Combination table and ironing board. 2,947,099, 8-2-60, Cl. 38—105.



- Lancaster, Robert A., to Western Electric Co., Inc. Inter-mittent article feed apparatus. 2,920,792, 1-12-60, Cl. 221-238.
- Lancaster, Robert A., to Western Electric Co., Inc. Article packing device. 2,959,903, 11-15-60, Cl. 57-246.
- Lancaster, William W., to Philco Corp. Transistor circuit. 2,945,188, 7-12-60, Cl. 330-24.
- Lancer, Robert W. Metal sill installation devices. 2,929,237, 3-22-60, Cl. 72-98.
- Lanciani, Daniel A., to Microwave Associates, Inc. Crystal rectifier tube. 2,945,122, 7-12-60, Cl. 250-31.
- Lanciano, Claude O., Jr., to United States of America, Army. Telescopic hose unit and coupling therefor. 2,922,667, 1-26-60, Cl. 285-260.
- Lancier, Peter. Flow contactor for pressurized electric cables, pipelines and the like. 2,951,131, 8-30-60, Cl. 200-81.9.
- Lanco, Philip D. Means for producing color positives in true natural colors. 2,949,812, 8-23-60, Cl. 88-24.
- Lancon, Roger. Spectacles with removable lenses. 2,949,818, 8-23-60, Cl. 88-47.
- Lancot, Donald H., to Don-Lan Electronics Co. Model satellite system. 2,924,033, 2-9-60, Cl. 40-106.22.
- Lancot, Donald H., to Don-Lan Electronics Co., Inc. High frequency switching unit. 2,924,677, 2-9-60, Cl. 200-24.
- Lancot, Donald H., to Electronic Specialty Co. Miniature co-axial switch. 2,926,318, 2-23-60, Cl. 333-97.
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- Land, Edwin H., to Polaroid Corp. Photographic processes utilizing screen members. 2,944,894, 7-12-60, Cl. 96-3.
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- Land, Edwin H., and D. S. Grey, to Polaroid Corp. Cinematographic method and apparatus. 2,950,644, 8-30-60, Cl. 88-16.
- Land, Edwin H., E. R. Blout, and H. C. Haas, to Polaroid Corp. Process of washing and protecting photographic silver images, and photographic products thereof. 2,956,877, 10-18-60, Cl. 96-29.
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- Welcome, Warren W. 2,928,040.
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- Landau, Alfred, and C. L. Flach, to Mitchell Camera Corp. Latching relay. 2,962,908, 12-6-60, Cl. 74-99.
- Landau, Milton. Water insoluble colorants. 2,964,562, 12-13-60, Cl. 260-578.
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- Landau, Raphael, to Societe Alsacienne de Papiers Helio-graphiques. Photosensitive materials. 2,953,471, 9-20-60, Cl. 117-34.
- Landberg, Eugene G. Method for retaining immediate dentures. 2,943,021, 6-28-60, Cl. 167-60.
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- Landen, Bernard. Truck hoist. 2,930,499, 3-29-60, Cl. 214-75.
- Landen, William J., to Eyelet Specialty Division, The International Silver Co. Cosmetic container. 2,964,172, 12-13-60, Cl. 206-56.
- Lander, James G., to Diamond Alkali Co. Adhesive silicate composition. 2,965,507, 12-20-60, Cl. 106-80.
- Lander, Richard J., R. H. Sims, and R. C. Woofter, to General Motors Corp. Fuse panel assembly. 2,955,178, 10-4-60, Cl. 200-133.
- Landerl, Harold P., to E. I. du Pont de Nemours and Co. Process for dyeing polyester fiber. 2,934,397, 4-26-60, Cl. 8-55.
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- Landes, Wesley K. Ski for aircraft and the like. 2,950,883, 8-30-60, Cl. 244-108.
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- Landgraf, Fred, to Ryan Aeronautical Co. Directional control for aircraft. 2,921,435, 1-19-60, Cl. 60-35.54.
- Landgraf, Jacob T., and R. W. Nelson, to H. D. Hudson Mfg. Co. Brooder assembly. 2,923,274, 2-2-60, Cl. 119-32.
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- Landman, Max, J. Newman, and H. Landman. Auxiliary bumper-type impact absorber. 2,959,251, 11-8-60, Cl. 188-5.
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- Landouar, Guy, to Societe Anonyme dite: Anciens Etablissements Desmarquoy. Coating solution, process for preparing the solution and process of coating an elastic cellular material. 2,963,388, 12-6-60, Cl. 117-138.8.
- Landron, Rafael, Jr., to Corning Glass Works. Low expansion ceramic body and a method of making it. 2,919,995, 1-5-60, Cl. 106-63.
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- Landry, J. Lionel, and F. G. Sandholdt, to Norton Co. Electrostatic device. 2,920,987, 1-12-60, Cl. 134-1.
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- Landsberg, Samuel J., to North American Philips Co., Inc. Stabilized direct and alternating voltage amplifier circuit arrangement. 2,935,693, 5-3-60, Cl. 330-9.
- Landsiedel, Frank W., and H. Wolf, to United States of America, Atomic Energy Commission. Crane positioning apparatus. 2,942,736, 6-28-60, Cl. 212-21.
- Landsman, Robert M., to The Perkin-Elmer Corp. System of producing curve from pulse data. 2,962,217, 11-29-60, Cl. 235-197.
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- Lane, Bernard F. A., and G. R. Strickland, to D. Napier & Son Ltd. Catalytic element and method of manufacturing such elements. 2,944,946, 7-12-60, Cl. 204-24.
- Lane, Clayton A., F. W. J. Strohman, and K. J. Ellis, to Siemens Edison Swan Ltd. Thermionic valve grids. 2,960,621, 11-15-60, Cl. 313-350.
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- Lane, Earl W., to Rohm & Haas Co. Chlorination of dialkylbenzenes. 2,926,202, 2-23-60, Cl. 260-651.
- Lane, Earl W., to Rohm & Haas Co. Preparation of halogenated phenoxyalkyl substituted amines. 2,952,678, 9-13-60, Cl. 260-247.7.
- Lane, Ernest. Staff mounting for golf course. 2,929,628, 3-22-60, Cl. 273-34.
- Lane, Frank L., to United States of America, Navy. Aerodynamic seal. 2,943,825, 7-5-60, Cl. 244-90.
- Lane, Frank W., to E. I. du Pont de Nemours and Co. Preparation of organic titanium compounds. 2,966,505, 12-27-60, Cl. 260-429.5.
- Lane, George W., and J. G. Sawicki, to Liqua-Pak, Inc. Apparatus for forming a round tube from flat sheet material. 2,934,130, 4-26-60, Cl. 154-1.8.
- Lane, George W., and J. G. Sawicki, to Liqua-Pak, Inc. Apparatus for forming, filling, sealing and severing containers. 2,966,021, 12-27-60, Cl. 53-182.
- Lane, Harold, to United Shoe Machinery Corp. Gaging means for toplift attaching. 2,928,096, 3-15-60, Cl. 1-137.
- Lane, Henry M. Dental forceps. 2,944,341, 7-12-60, Cl. 32-62.
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- Lang, Albert. Open rolling shelf for filing. 2,926,979, 3-1-60, Cl. 312-301.
- Lang, Albert P., to Armour Research Foundation of Illinois Institute of Technology. Recording apparatus. 2,925,281, 2-16-60, Cl. 274-17.
- Lang, Andre, and E. Zantop, to Aktiengesellschaft Brown, Boveri & Cie. Vacuum-tight electrode lead-in assembly for mercury vapor rectifiers. 2,933,635, 4-19-60, Cl. 313-331.
- Lang, Anton, to Delmag-Maschinenfabrik Reinhold Dornfeld. Pile hammer. 2,931,346, 4-5-60, Cl. 123-7.
- Lang, Anton, to Delmag-Maschinenfabrik Reinhold Dornfeld. Pile and plank pulling device with Diesel ram, or the like. 2,951,345, 9-6-60, Cl. 61-76.
- Lang, Charles. Wall panel cooking unit. 2,931,873, 4-5-60, Cl. 200-136.5.
- Lang, Delmer T., to D. T. Lang. Temperature sensing by pressurized liquid mixtures. 2,944,423, 7-12-60, Cl. 73-368.
- Lang, Edgar R., and R. L. Kelso, to Rohm & Haas Co. Acrylic modified bonding agent. 2,962,471, 11-29-60, Cl. 260-45.4.
- Lang, Elliot R.: See—  
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- Lang, Elliot R., to Minneapolis-Honeywell Regulator Co. Mechanically rebalanced servomotor system. 2,925,544, 2-16-60, Cl. 318-28.
- Lang, Gerhard: See—  
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- Lang, Gus W. Device for trowelling coatings upon moving tiles. 2,946,110, 7-26-60, Cl. 25-1.
- Lang, Gus W. Machines for forming and coating roofing tiles. 2,965,949, 12-27-60, Cl. 25-43.
- Lang, Heinrich, to Borsig Aktiengesellschaft. Absorption-type heat transfer process and apparatus. 2,929,222, 3-22-60, Cl. 62-104.
- Lang, Heinrich. Refrigerator. 2,930,204, 3-29-60, Cl. 62-148.
- Lang, Helmut: See—  
Anderson, Konrad, and Lang. 2,929,559.
- Kannengiesser, Ludwig, and Lang. 2,928,220.
- Lang, Helmut, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Method and apparatus for sealing thermoplastic containers. 2,936,816, 5-17-60, Cl. 154-42.
- Lang, John L., to The Dow Chemical Co. Process for copolymerizing acrylic compounds with acid sensitive monomer. 2,927,911, 3-8-60, Cl. 260-80.3.
- Lang, John L., to The Dow Chemical Co. Water-soluble polymerization products and processes for producing the same. 2,937,163, 5-17-60, Cl. 260-79.3.
- Lang, Joseph C., to Bocil Corp. Pneumatic fastener driving and like tool. 2,932,030, 4-12-60, Cl. 1-44.4.
- Lang, Joseph C. Expansion device. 2,950,602, 8-30-60, Cl. 61-45.
- Lang, Joseph C., to Bocil Corp. Method of driving staples. 2,964,751, 12-20-60, Cl. 1-74.
- Lang, Karl A.: See—  
Edstrand, Elmer W., and Lang. 2,939,899.
- Lang, Louis, to The National Sugar Refining Co. Liquid dispersions of acetals of a sugar. 2,927,054, 3-1-60, Cl. 167-42.
- Lang, Paul A., to United States of America, Air Force. Radar training apparatus for observers. 2,932,093, 4-12-60, Cl. 35-10.4.
- Lang, Robert A. B., to Orenda Engines Ltd. Fuel supply and flame stabilizing apparatus for afterburners for jet engines. 2,934,894, 5-3-60, Cl. 60-35.6.
- Lang, Roy L., to Callaway Mills Co. Method for application of liquid treatment to cord or the like during twisting. 2,940,248, 6-14-60, Cl. 57-162.
- Lang, William A.: See—  
Cook, Raymond D., and Lang. 2,925,236.
- Langan, Jeremiah E., to Leeson Corp. Delay timer. 2,958,773, 11-1-60, Cl. 250-27.
- Langdon, Benjamin D. Door bell signal device. 2,965,892, 12-20-60, Cl. 340-393.
- Langdon, Jesse D. Nail-staple combination. 2,919,621, 1-5-60, Cl. 85-29.
- Langdon, Jesse D. Auxiliary nozzle. 2,948,297, 8-9-60, Cl. 137-525.1.
- Langdon, John G., to Northrop Corp. Remote control circuit. 2,923,919, 2-2-60, Cl. 340-172.
- Langdon, Kenneth T. P.: See—  
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- Langdon, William K.: See—  
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- Langdon, William M.: See—  
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- Crowley, Clyde A., Langdon, and Conolly. 2,921,111.
- Lange, Ferdinand, to Firma Werner Bahlens. Container device. 2,946,495, 7-26-60, Cl. 229-16.
- Lange, Gunther: See—  
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- Lange, Gunther, to BMW Triebwerksbau Gesellschaft mit beschränkter Haftung. Regenerative heat exchanger with moveable matrix. 2,932,492, 4-12-60, Cl. 257-269.
- Lange, Harold T., to Sporlan Valve Co. Valve assembly for a refrigeration system. 2,922,292, 1-26-60, Cl. 62-203.
- Lange, Harold T., to Sporlan Valve Co. Refrigerant control for systems with variable head pressure. 2,960,845, 11-22-60, Cl. 62-205.
- Lange, Helmut. Heel lift for women's dress shoes. 2,932,098, 4-12-60, Cl. 36-34.
- Lange, Hermann: See—  
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- Lange Instrument Co.: See—  
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- Lange, Joachim, G. Thellig, and H. Zorn, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process of improving lubricating oils. 2,939,831, 6-7-60, Cl. 208-28.



- Lange, Joseph L.: *See*—  
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- Lange, Karl H., to Balda-Kamerawerk Rudolf Gruter K.G. Release fastener. 2,927,357, 3-8-60, Cl. 24-230.
- Lange, Karl O.: *See*—  
Carter, Willis M., Clore, and Lange. 2,929,589.
- Lange, Karl O., and W. K. Massie, to Lange Instrument Co. Fracture nail. 2,937,642, 5-24-60, Cl. 128-92.
- Lange, Max H., to The Soundscribe Corp. Safety cover latch for dictating machine. 2,924,474, 2-9-60, Cl. 292-128.
- Lange, Paul H., to The Bullard Co. Spindle-moving mechanism. 2,920,507, 1-12-60, Cl. 77-3.
- Lange, Stanley W. Tone arm with straight line motion. 2,937,877, 5-24-60, Cl. 274-23.
- Lange, Theodore G.: *See*—  
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- Lange, William F., and A. W. Anderson, to Peabody Engineering Corp. Multiple fuel burner. 2,965,163, 12-20-60, Cl. 158-11.
- Lange, William J., and D. Alpert, to Westinghouse Electric Corp. Demountable metal vacuum joint. 2,922,666, 1-26-60, Cl. 285-119.
- Langen & Co.: *See*—  
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- Langen, Eugen, to Braunschweigische Maschinenbauanstalt Aktiengesellschaft. Apparatus for the production of cellulose. 2,920,697, 1-12-60, Cl. 162-237.
- Langen, Mathias, to The Loewy Engineering Co. Ltd. Roll changing device. 2,938,706, 5-31-60, Cl. 254-106.
- Langen, Ole H.: *See*—  
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- Langen, Ole H., to The Unipress Co., Inc. Rotary pressing machine safety means. 2,933,839, 4-26-60, Cl. 38-22.
- Langen, Ole H., to The Unipress Co., Inc. Rotary pressing machine and control. 2,939,228, 6-7-60, Cl. 38-5.
- Langen, Victor, to A. Ehrenreich & Cie. Ball joint particularly for steering elements of motor vehicles. 2,957,714, 10-25-60, Cl. 287-90.
- Langen, Viktor, to Langen & Co. Gas-hydraulic spring suspension for vehicles. 2,937,034, 5-17-60, Cl. 280-124.
- Langen, Viktor, and J. Latzen; said Langen and A. Latzen, sole heir of J. Latzen, deceased, assors. to A. Ehrenreich & Cie. Ball and socket joints. 2,937,895, 5-24-60, Cl. 287-87.
- Langenberg, Frederick C.: *See*—  
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- Langendorf United Bakeries, Inc.: *See*—  
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- Langenfeld, Bruno: *See*—  
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- Kirshenbaum, Isidor, Langer, and Arundale. 2,965,564.
- Langer, Arthur W., Jr., to Esso Research and Engineering Co. Hydrogen donor diluent cracking process. 2,953,518, 9-20-60, Cl. 208-56.
- Langer, Helmut A., and W. S. Talback, to The Machlett Laboratories, Inc. Electron tube structures. 2,939,986, 6-7-60, Cl. 313-247.
- Langer, Joseph: *See*—  
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- Gerstel, Harry M., and Langer. 2,965,348.
- Langer, Nicholas: *See*—  
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- Langer, Theodore W., and B. F. Mago, to Union Carbide Corp. Di-ester fluids with improved water tolerance. 2,944,973, 7-12-60, Cl. 252-47.5.
- Langer, Walter: *See*—  
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- Langerak, Wiggert. Control device for cultivators. 2,929,457, 3-22-60, Cl. 172-430.
- Langert, Matthew J. Rope hitching device for scaffolding apparatus. 2,934,301, 4-26-60, Cl. 248-328.
- Langert, Matthew J. Rope hitching device for scaffolding apparatus. 2,934,302, 4-26-60, Cl. 248-328.
- Langewis, Cornelis: *See*—  
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- Langford, Denis I. Stapling devices. 2,940,079, 6-14-60, Cl. 1-3.
- Langford, George A.: *See*—  
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- Edwards, George Z., and Langford. 2,926,406.
- Edwards, George Z., and Langford. 2,963,709.
- Langford, Hobert C., and S. M. Van Pelt, to Daystrom, Inc. Pneumatic system with feedback arrangement. 2,953,148, 9-20-60, Cl. 137-84.
- Langford, Robert B.: *See*—  
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- Kharasch, Norman, and Langford. 2,929,824.
- Langford, Robert C., to Daystrom, Inc. High voltage resistor. 2,962,685, 11-29-60, Cl. 338-260.
- Langford, Ronald S. Containers for the package of eggs and other fragile articles. 2,965,275, 12-20-60, Cl. 229-14.
- Langhans, Otto W., to Engelhard Industries, Inc. Sandwich structure. 2,960,197, 11-15-60, Cl. 189-34.
- Langlais, Vernon L., and H. P. Broussard, to Morton Chemical Co. Process for producing anhydrous hydrogen chloride. 2,950,953, 8-30-60, Cl. 23-154.
- Langlois, Henry J.: *See*—  
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- Langmaack, Wilhelm, to North American Philips Co., Inc. Frame grid for electric discharge tubes. 2,930,923, 3-29-60, Cl. 313-261.
- Langseth, Axel O., to Minnesota Mining and Mfg. Co. Artificially colored roofing granules. 2,943,002, 6-28-60, Cl. 117-100.
- Langston, Merritt E.: *See*—  
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- Langston, Samuel M., Co.: *See*—  
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- Moser, Henry W., and McGirr. 2,950,658.
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- Nichie, Charles D., and Eskilson. 2,922,364.
- Langston, Thomas E.: *See*—  
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- Langstroth, Cecil C., to Dominion Engineering Works Ltd. Convertible crawler shovels and like machines. 2,942,559, 6-28-60, Cl. 105-215.
- Langstroth, Hall. Pressure sensing device. 2,950,421, 8-23-60, Cl. 317-99.
- Langton, John B., to Technograph Printed Electronics Inc. Method of interconnecting pathway patterns of printed circuit products by chemical deposition. 2,947,064, 8-2-60, Cl. 29-155.5.
- Langton, William G., to United States of America, Air Force. Method and means for vertical attitude determination. 2,949,536, 8-16-60, Cl. 250-201.
- Langton, William J.: *See*—  
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- Langtry, Bertrand D.: *See*—  
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- Langvand, Ivar L.: *See*—  
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- Lanham, Donald J.: *See*—  
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- Lanham, William M., to Union Carbide Corp. Heterocyclic phosphorus-containing monofluorides and process for making same. 2,922,813, 1-26-60, Cl. 260-461.
- Lanier, Reginald S., H. B. Merrell, and J. F. Miller, to Washington Machine & Tool Works, Inc. Servomotor gear head coupling. 2,926,938, 3-1-60, Cl. 285-325.
- Lanier, Sterling S., Jr. Conveying apparatus. 2,955,699, 10-11-60, Cl. 198-109.
- Lankin, Arthur: *See*—  
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- Lanman, Robert W.: *See*—  
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- Lannen, Joseph P., to Micro-Poise Engineering and Sales Co. Balance testing machine. 2,935,876, 5-10-60, Cl. 73-482.
- Lannert, James W., to Whirlpool Corp. Impelling means for food waste disposer. 2,950,868, 8-30-60, Cl. 241-46.
- Lanning, Harold E., to Bell Telephone Laboratories, Inc. Direct reading noise figure measuring instrument. 2,935,684, 5-3-60, Cl. 324-158.
- Lanning, Walter C., to Sperry Rand Corp. Binary adder. 2,920,824, 1-12-60, Cl. 235-176.
- Lanning, Walter C., to Sperry Rand Corp. Binary subtracter. 2,920,825, 1-12-60, Cl. 235-176.
- Lanning, Walter C., to Sperry Rand Corp. Binary adder-subtractor with command carry control. 2,933,252, 4-19-60, Cl. 235-176.
- Lanning, Walter C., to Sperry Rand Corp. Automatic delay compensation. 2,961,535, 11-22-60, Cl. 250-27.
- Lanning, William C., to Phillips Petroleum Co. Hydrocracking of a gas oil with a catalyst consisting of oxides of vanadium and molybdenum and metallic cobalt deposited on gamma alumina. 2,953,515, 9-20-60, Cl. 208-112.
- Lanning, William C., to Phillips Petroleum Co. Process for polymerization of 1-olefins in presence of solid heat carrier. 2,963,470, 12-6-60, Cl. 260-88.2.
- Lannon, John D. Drawing aid. 2,941,302, 6-21-60, Cl. 33-174.
- Lanore, Raymond, to Usines Decouffé S.A. Tobacco-manipulating machines. 2,938,521, 5-31-60, Cl. 131-21.
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- Lansberry, Julius R. Fingerprinting method and related product. 2,961,790, 11-29-60, Cl. 41-17.
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- Lansky Die Cutting Corp.: *See*—  
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- Langston Monotype Machine Co.: *See*—  
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- Langstrom, Carl T., and P. H. Putnam, to United States Steel Corp. Apparatus for handling bundles. 2,933,202, 4-19-60, Cl. 214-1.
- Lantos, Peter R., to E. I. du Pont de Nemours and Co. Preparation of filaments from polytetrafluoroethylene emulsions. 2,951,047, 8-30-60, Cl. 260-17.
- Lantz, Carl E., to O. A. Feldon. Fixture mounting means. 2,921,320, 1-19-60, Cl. 4-187.
- Lantz, Kenneth D., and P. M. Clark, to United States of America, Atomic Energy Commission. Two-way freeze valve. 2,919,710, 1-5-60, Cl. 137-74.
- Lantz, Oscar D. Correction fluid and method for correcting blueprints. 2,931,724, 4-5-60, Cl. 96-49.



- Lányi, Béla: *See*—  
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- Lanz, George T., to Ralston Purina Co. Method of manufacturing stable pelleted foods. 2,945,764, 7-19-60, Cl. 99-2.
- Lanzet, Monroe, to Airkem, Inc. Air treating gel and method of preparing the same. 2,927,055, 3-1-60, Cl. 167-42.
- Laos, Ivar, and R. Pappo, to G. D. Searle & Co. 18-dimethylamino steroids. 2,933,511, 4-19-60, Cl. 260-397.3.
- La Patka, Lawrence T., and W. P. Schmidt, to Burroughs Corp. Magnetic core assembly. 2,965,864, 12-20-60, Cl. 336-92.
- Lape, Jean E., and J. J. Monahan, to Western Electric Co., Inc. Article feeding apparatus. 2,935,224, 5-3-60, Cl. 221-21.
- Lapetina, Charles J., and V. H. Salinas. Flower pot and material for making the same. 2,949,699, 8-23-60, Cl. 47-37.
- Lapeyre, Fernand S.: *See*—  
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- Lapeyre, Fernand S. and J. M., to The Peelers Co. Shrimp vein remover. 2,928,117, 3-15-60, Cl. 17-2.
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- Lapeyre, Fernand S. and J. M. 2,928,117.
- Lapeyre, James M. Toothpaste dispensers. 2,937,790, 5-24-60, Cl. 222-94.
- Lapidus, Solomon, and W. P. Peyser, to Bogart Mfg. Corp. Wave guide switch. 2,942,208, 6-21-60, Cl. 333-7.
- La Pier, Rae T., and D. R. Frame, to Colgate-Palmolive Co. Filling machine. 2,928,438, 3-15-60, Cl. 141-150.
- La Pine, Roy W. Conduit hanger. 2,921,761, 1-19-60, Cl. 248-48.1.
- La Pland, Audrey M. Dispenser type hair brush. 2,952,026, 9-13-60, Cl. 15-131.
- Laplant, Douglas O.: *See*—  
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- La Pointe, Gabriel M. Toggle-joint wrench with cam release means. 2,920,518, 1-12-60, Cl. 81-370.
- Lapointe, Lloyd J.: *See*—  
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- La Pointe, Lloyd J. Plural register calculator. 2,951,636, 9-6-60, Cl. 235-60.31.
- Lapointe, Lloyd J., A. D'Onofrio, and L. Cetran, to Royal McBee Corp. Rotary printing device. 2,945,576, 7-19-60, Cl. 197-12.
- Lapointe Machine Tool Co., The: *See*—  
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- Laport, Joseph E. S. Snow vehicle. 2,925,873, 2-23-60, Cl. 180-5.
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- Le Feuvre, Charles W., and Morgan. 2,940,833.
- La Porte, Gerald E., and L. L. Horn. Resilient mounting for hermetic refrigeration compressors. 2,935,279, 5-3-60, Cl. 248-22.
- Lapp, Grover W. Porcelain condenser bushing. 2,953,629, 9-20-60, Cl. 174-143.
- Lappe, Robert J. Artificial nail covering and method of applying same. 2,941,535, 6-21-60, Cl. 132-73.
- Lappin, Gerald R., and W. V. McConnell, to Eastman Kodak Co. Poly- $\alpha$ -olefin compositions containing N-methyl-4'-hydroxybenzanilide. 2,964,494, 12-13-60, Cl. 260-45.9.
- Lappin, Lester S., to Radio Corp. of America. Remote control system. 2,922,142, 1-19-60, Cl. 340-150.
- Lappin, Milton L.: *See*—  
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- Lappin, Richard J.: *See*—  
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- Lappin, Richard J., and R. G. Mohr, to The Brunswick-Balke-Collender Co. Adjustable top desk. 2,922,685, 1-26-60, Cl. 311-39.
- Lappin, Robert I. Apparatus for operating on floors. 2,930,056, 3-29-60, Cl. 15-49.
- Lappin, Robert I. Dolly for scrubbing brush. 2,961,686, 11-29-60, Cl. 15-246.
- Lapple, Johannes, to Siemens-Schuckertwerke Aktiengesellschaft. Spark gap device. 2,924,734, 2-9-60, Cl. 813-201.
- La Precision Industrielle (Société Anonyme): *See*—  
Gamet, Louis J.-M. 2,930,402.
- Holmes, William R., Le Feuvre, Lait, and Wood. 2,930,803.
- Le Feuvre, Charles W. 2,927,002.
- Laprise, Adrien. Sampling machine. 2,937,529, 5-24-60, Cl. 73-423.
- Lapsley, Rhea P., and R. G. Feller, to The Okonite Co. High-frequency, air-dielectric cable. 2,939,903, 6-7-60, Cl. 174-28.
- Lapuyade, Robert H., to Société des Accumulateurs Fixes et de Traction (Société Anonyme). Voltage control device for storage cells or the like. 2,957,117, 10-18-60, Cl. 320-35.
- Larach, Simon, to Radio Corp. of America. Polychromatic electroluminescent means. 2,925,532, 2-16-60, Cl. 315-169.
- Larach, Simon, and R. E. Shrader, to Radio Corp. of America. Electroluminescent devices. 2,921,218, 1-12-60, Cl. 313-108.
- La Raus, Julius. Combined cable reel and carrying case. 2,954,942, 10-4-60, Cl. 242-129.
- Larché, Kurt: *See*—  
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- Larché, Kurt, and W. Tillack, to Patent-Truehand-Gesellschaft für elektrische Glühlampen m.b.H. Starting and operating device for electric discharge lamp. 2,940,009, 6-7-60, Cl. 315-101.
- Lardner, George E., to Halkey-Roberts Corp. Inflation valve. 2,942,614, 6-28-60, Cl. 137-223.
- La Resistia Corset Co., The: *See*—  
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- Larew, John J., to General Electric Co. Pinhole detecting unit. 2,947,876, 8-2-60, Cl. 250-219.
- Larew, John J., W. S. Burt, and B. R. Shepard, to General Electric Co. Electric power control system. 2,962,598, 11-29-60, Cl. 290-4.
- Large, William E.: *See*—  
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- Van Ness, Hubert W., and Large. 2,953,878.
- Large, William E., to Westinghouse Electric Corp. Electric discharge apparatus. 2,942,151, 6-21-60, Cl. 315-203.
- Large, William E., and D. R. Scholtes, to Westinghouse Electric Corp. Electric discharge apparatus. 2,937,338, 5-17-60, Cl. 328-75.
- Largelius, Lars G. V. Supporting clamp. 2,946,548, 7-26-60, Cl. 248-316.
- Larges, Ernest R., and E. C. Bettoni, to Holley Carburetor Co. Engine governor control valve. 2,935,076, 5-3-60, Cl. 137-56.
- Larigaldie, Andre: *See*—  
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- Larini, Giovanni: *See*—  
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- Larios, Daniel, 50% to W. E. Ford. Foldable frame. 2,950,556, 8-30-60, Cl. 40-154.
- Larisch, Richard W., to Bell Telephone Laboratories, Inc. Electrical control circuits. 2,957,088, 10-18-60, Cl. 307-88.
- Larive, Henri, and E. M. Geiger, to Eastman Kodak Co. Method of making carbocyanine and merocarbocyanine spectral sensitizing dyes. 2,921,067, 1-12-60, Cl. 260-240.65.
- Larkin, John P.: *See*—  
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- Larkin, Kenneth T.: *See*—  
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- Larkin, Robert E., to Cutler-Hammer, Inc. Electric switch. 2,936,347, 5-10-60, Cl. 200-6.
- Larkin, Robert G., M. W. Dininger, and C. J. McDowall, to General Motors Corp. Torque responsive propeller control. 2,959,228, 11-8-60, Cl. 170-135.72.
- Larkin, Stephen A., and G. W. Phillips, to General Motors Corp. Lubricating device. 2,929,467, 3-22-60, Cl. 184-6.
- Larky, Norbert D., and C. B. Oakley, to Radio Corp. of America. Color television automatic chrome control circuit. 2,948,775, 8-9-60, Cl. 178-5.4.
- Larky, Norbert D., and C. L. Cuccia, to Radio Corp. of America. Color television receiver demodulator and color balance circuits. 2,952,736, 9-13-60, Cl. 178-5.4.
- La Rocca, Edward W., and J. Pearson, to United States of America, Navy. High pressure, explosive-activated press. 2,948,923, 8-16-60, Cl. 18-16.5.
- La Rocca, Louis. Hook and eye. 2,941,271, 6-21-60, Cl. 24-227.
- La Rocque, Joseph E., and C. E. Impey, to Vapor Heating Corp. Automatic blowdown for steam separator. 2,937,845, 5-24-60, Cl. 251-14.
- La Roque, Ernest E. Self propelled sprayer. 2,963,226, 12-6-60, Cl. 239-157.
- Laros, R. K., Co.: *See*—  
Burke, George K. 2,928,392.
- La Rou, Lawrence V., to Wall Colmonoy Corp. Metallic composition. 2,946,678, 7-26-60, Cl. 75-134.
- Larrabee, Clifford E.: *See*—  
Conover, Lloyd H., English, and Larrabee. 2,921,073.
- Larrabee, Clifford E., to Chas. Pfizer & Co., Inc. Antispasmodic. 2,935,515, 5-3-60, Cl. 260-326.5.
- Larrecq, Anthony J.: *See*—  
Watson, Ralph M., and Larrecq. 2,934,316.
- Larrieu, Leslie J., to Morris P. Kirk & Son, Inc. Zinc base alloy casting. 2,940,846, 6-14-60, Cl. 75-178.
- Larrison, John E.: *See*—  
Holaday, Charles E., Cooke, Marble, and Larrison. 2,934,700.
- Larsen, Arthur L.: *See*—  
Beale, Alvin F., Jr., and Larsen. 2,961,355.
- Larsen, Bernard M., to United States Steel Corp. Method for making steel. 2,936,230, 5-10-60, Cl. 75-52.
- Larsen, Dahl. Right hand conversion steering control for automobiles. 2,963,919, 12-13-60, Cl. 74-494.
- Larsen, Eric R., to The Dow Chemical Co. Synthesis of 2-chloro-1,1,1,2-tetrafluoroethane. 2,920,112, 1-5-60, Cl. 260-653.
- Larsen, Eric R., and R. P. Ruh, to The Dow Chemical Co. Chlorofluoromethylfluoroform. 2,951,102, 8-30-60, Cl. 260-653.
- Larsen, Forest L.: *See*—  
Mau, Earl G. 2,932,463.



- Larsen, Frank, and C. A. Gagne, to Petroleum Dispense Master Ltd. Storage island motor fueler. 2,959,826, 11-15-60, Cl. 20—8.
- Larsen, Franklin F. Structural elements. 2,934,179, 4-26-60, Cl. 189—34.
- Larsen, Henry M., to Western Electric Co., Inc. Apparatus for untangling wires secured to an article. 2,960,120, 11-15-60, Cl. 140—149.
- Larsen, Leonard O., to Western Electric Co., Inc. Screw holding attachment for screw driver. 2,942,637, 6-28-60, Cl. 145—52.
- Larsen, Lloyd B.: See—  
Irish, Laurence K. 2,930,140.  
Irish, Lawrence K. 2,959,407.
- Larsen, Oscar F.: See—  
Dale, Paul A., and Larsen. 2,924,171.  
Friebberg, Nelson R., and Larsen. 2,923,394.
- Larsen, Paul J., to United States of America, Navy. Oscillator and amplifier unit. 2,921,523, 1-19-60, Cl. 102—70.2.
- Larsen, Paul V., to Electric Steel Foundry Co. Excavating tooth and base support therefor. 2,919,506, 1-5-60, Cl. 37—142.
- Larsen, Paul V., to Esco Corp. Dragline bucket. 2,957,255, 10-25-60, Cl. 37—135.
- Larsen, Paul V., and E. L. Larson, to Electric Steel Foundry Co. All-cast dipper. 2,926,800, 3-1-60, Cl. 214—145.
- Larsen, Peder M. Trailer interior lighting. 2,932,727, 4-12-60, Cl. 240—71.
- Larsen, Robert B.: See—  
Curtis, Daniel L., and Larsen. 2,931,691.
- Larsh, Everett P. Centrifugal actuator and switch. 2,922,000, 1-19-60, Cl. 200—80.
- Larsh, Everett P. Geared power transmission and method of increasing the load carrying capacity of gears. 2,932,992, 4-19-60, Cl. 74—804.
- Larsh, Everett P. Balancing apparatus. 2,937,613, 5-24-60, Cl. 118—8.
- Larsh, Everett P. Apparatus for casting windings in electric motor rotors. 2,953,826, 9-27-60, Cl. 22—116.
- Larsh, Everett P., and T. R. Black, Sr.; said Black Sr. assor. to said Larsh. Method and apparatus for molding. 2,938,250, 5-31-60, Cl. 22—68.
- Larsh, Everett P., and T. R. Black, Sr.; said Black Sr., assor. to said Larsh. Winding machine. 2,954,177, 9-27-60, Cl. 242—1.1.
- Larson, Alfred A., to Systems Associates, Inc. Photographic shutter. 2,953,983, 9-27-60, Cl. 95—63.
- Larson, Allison B. Portable ramp. 2,924,427, 2-9-60, Cl. 254—88.
- Larson, Carl A.: See—  
Ingmanson, John H., and Larson. 2,939,904.
- Larson, Carl U.: See—  
Kanter, Jerome J., Sachs, and Larson. 2,962,727.
- Larson, Carl U., T. P. Newman, J. V. Novak, and P. Gaglio, to Crane Co. Level adjusting device for articles or the like. 2,937,718, 5-24-60, Cl. 187—24.
- Larson, Carl W. Toy parachute. 2,930,555, 3-29-60, Cl. 244—155.
- Larson, Charles O. Sawhorse bracket assembly. 2,941,618, 6-21-60, Cl. 182—186.
- Larson, Charles O. Quick acting clamp. 2,949,140, 8-16-60, Cl. 144—305.
- Larson, Charles O. Clothes hanger. 2,954,954, 10-4-60, Cl. 248—215.
- Larson, Charles O. Door shelf. 2,959,297, 11-8-60, Cl. 211—90.
- Larson, Charles O. Versatile bracket. 2,964,123, 12-13-60, Cl. 182—181.
- Larson, Clayton E., to White Metal Rolling & Stamping Corp. Ladder levelers. 2,936,849, 5-17-60, Cl. 182—204.
- Larson, Clayton E., to White Metal Rolling & Stamping Corp. Extension ladders. 2,957,543, 10-25-60, Cl. 182—211.
- Larson, Dean W. Shelter. 2,931,373, 4-5-60, Cl. 135—1.
- Larson, Edward S., and R. A. Thienemann, to United States of America, Navy. Extra space mechanism for printing devices. 2,936,058, 5-10-60, Cl. 197—84.
- Larson, Elmer L.: See—  
Larsen, Paul V., and Larson. 2,926,800.
- Larson, Elvin: See—  
Anderson, Frank O. 2,939,674.
- Larson, Ernest T., Jr.: See—  
Mueller, Fritz, W. H., and Larson. 2,950,972.
- Larson, Francis F.: See—  
Callery, John P., and Larson. 2,921,612.
- Larson, George G., to Paper Mate Mfg. Co. Retraction mechanisms and assembly thereof. 2,933,067, 4-19-60, Cl. 120—42.03.
- Larson, Gilbert A., to Sylvania Electric Products Inc. Glass locator. 2,923,096, 2-2-60, Cl. 49—1.
- Larson, Harold A., to Phillips Petroleum Co. Process of making oiled carbon black pellets. 2,942,299, 6-28-60, Cl. 18—47.5.
- Larson, Jack Q. Use of non-adhesive materials as stencil copy, and the method of retaining same to the screen, in screen process printing. 2,929,315, 3-22-60, Cl. 101—129.
- Larson, John C.: See—  
Graham, Russell A., and Larson. 2,959,834.
- Larson, John D. Digester for converting inorganic material into assimilable plant food. 2,948,593, 8-9-60, Cl. 23—259.1.
- Larson, Karl O. Cement mixer. 2,944,799, 7-12-60, Cl. 259—177.
- Larson, Karl O. Utility push cart. 2,950,925, 8-30-60, Cl. 280—47.19.
- Larson, Lawrence L., to The High Standard Mfg. Corp. Barrel weight and mount assembly for firearms. 2,921,396, 1-19-60, Cl. 42—1.
- Larson, Martin: See—  
Prewitt, Richard H., and Larson. 2,932,967.
- Larson, Melvin L., to Ethyl Corp. Antiknock compositions. 2,948,600, 8-9-60, Cl. 44—69.
- Larson, Orion G., and W. M. Strunk, to Carpet Craftsmen, Inc. Covering for the interior surfaces of buildings and method of applying same. 2,925,631, 2-23-60, Cl. 20—15.
- Larson, Robert H., C. W. Carlson, and J. Koenig, to Du Kane Corp. Sound slide film machine. 2,925,009, 2-16-60, Cl. 88—28.
- Larson, Robert H., C. W. Carlson, and J. Koenig, to Dukane Corp. Sound slide film machine. 2,960,005, 11-15-60, Cl. 88—28.
- Larson, Rodger G.: See—  
Gerard, William A., and Larson. 2,946,027.
- Larson, Roland, 49% to W. R. Dees. Soldering device. 2,931,881, 4-5-60, Cl. 219—28.
- Larson, Roland, 49% to W. R. Dees. Lawn sprinkler. 2,947,483, 8-2-60, Cl. 239—286.
- Larson, Rudolph G., to International Harvester Co. Stringer impact device for fork type lift trucks. 2,956,701, 10-18-60, Cl. 214—750.
- Larson Tool & Stamping Co.: See—  
Cederberg, Carl W. 2,942,801.
- Larson, Waldo C.: See—  
Anderson, Biard E., and Larson. 2,942,792.
- Larson, Walter F.: See—  
Skawden, Odd J., and Larson. 2,936,811.
- Larson, Walter M., to Control Corp. Digital type impulse-storage telemetering system. 2,942,244, 6-21-60, Cl. 340—182.
- Larson, Wayne F. Door opener. 2,928,690, 3-15-60, Cl. 292—336.3.
- Larson, Wyman L.: See—  
Westover, Dwight G., and Larson. 2,921,743.
- Larsonneur, Louis C., to Nalco Chemical Co. Process of inhibiting corrosion of ferrous metals in contact with aqueous solutions of acids. 2,947,703, 8-2-60, Cl. 252—149.
- Larsson, Gösta E., S. I. Persson, and S. A. Ahlström. Connectors. 2,921,514, 1-19-60, Cl. 98—38.
- Larsson, Nils E. B., and T. Löberg. Means for controlling the capacity of compressors. 2,936,106, 5-10-60, Cl. 230—30.
- Larsson, Oscar U.: See—  
Stahl, Nils E. J., and Larsson. 2,945,432.
- Larsson, Robert T., and N. L. Benedetti, to The Dole Valve Co. Assembly fixture for thermostatic valves. 2,921,366, 1-19-60, Cl. 29—200.
- La Rue, Albert D., to Raytheon Co. Resonant grid magnetrons. 2,922,075, 1-19-60, Cl. 315—39.63.
- La Rue, Albert D., to United States of America, Navy. Apparatus for glass to metal sealing. 2,933,855, 4-26-60, Cl. 49—1.
- La Rue, Albert D., to Raytheon Co. Energy coupling at high frequencies. 2,953,753, 9-20-60, Cl. 331—90.
- La Rue, Donald G., and H. H. Borup, to Everest & Jennings, Inc. Combined hand rim and wheel rim for wheel chairs. 2,938,738, 5-31-60, Cl. 280—249.
- La Rue, Harold E.: See—  
Reed, Edwin E., and La Rue. 2,943,636.
- La Rue, Mark E.: See—  
Massey, Marshall N., and La Rue. 2,929,112.
- Larue, Napoleon L.: See—  
Palmer, Walter M., and Larue. 2,955,320.
- Larwin, Hans: See—  
Kowatsch, Albin, and Larwin. 2,921,662.
- Larys, Bohumir A., E. P. Turner, and G. Abel, to The Singer Mfg. Co. Needle positioning devices for sewing machines. 2,942,564, 6-28-60, Cl. 112—219.
- La Salle, Conrad A.: See—  
Annin, Mark H., and La Salle. 2,945,551.
- La Salle Steel Co.: See—  
Nachtman, Elliot S. 2,924,543.  
Nachtman, Elliot S. 2,924,544.
- La Salle Tool, Inc.: See—  
De Buigne, Frank. 2,922,505.  
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Sattler, Robert I. 2,923,680.
- Lasater, John A.: See—  
Deakins, Thomas A., Lasater, and Northington. 2,922,205.  
Deakins, Thomas A., Lasater, and Northington. 2,942,312.  
Deakins, Thomas A., Lasater, and Northington. 2,956,316.  
Deakins, Thomas A., Lasater, and Northington. 2,956,319.
- Lasater, John A., and T. A. Deakins, to Helman Pneumatic Machine Co. Centrifugal casting apparatus and process. Re. 24,827, 5-17-60, Cl. 22—65.
- Lasco, Ralph H.: See—  
Miller, George A., and Lasco. 2,932,672.
- Lasdon Foundation, Inc.: See—  
Ellenbogen, Eric. 2,965,554.  
Huffman, Max N. 2,945,048.  
Huffman, Max N. 2,963,493.



- Lash, Eugene C.: *See*—  
Van Vactor, Alburus O., and Lash. 2,943,429.
- Lash, Joseph F., to General Motors Corp. Component transformation network. 2,919,581, 1-5-60, Cl. 73-462.
- Lash, Joseph F., to General Motors Corp. Automatic balancing installation. 2,947,173, 8-2-60, Cl. 73-464.
- Lash, Joseph F., to General Motors Corp. Balancing organization. 2,947,174, 8-2-60, Cl. 73-464.
- Lashley, Ivan O.: *See*—  
Foster, Florn G., Collie, and Lashley. 2,960,153.
- Lasier, David R., to LCN Closers, Inc. Door closing and checking device. 2,960,718, 11-22-60, Cl. 16-49.
- Laskin, Maurice: *See*—  
Armato, Albert, and Laskin. 2,927,712.
- Laskowitz, Isidor B. Jet-powered rotorless convertible aircraft. 2,959,374, 11-8-60, Cl. 244-12.
- Lasky, Norman J. Fishing line casting device. 2,965,995, 12-27-60, Cl. 43-19.
- La Soudure Electrique Autogene, S.A.: *See*—  
Colinet, Rene D. 2,929,255.
- Danhier, Francois G. 2,951,931.
- Verhaeghe, Jacques R. P., Thomas, Norcross, Light, and Colinet. 2,960,598.
- La Soudure Electrique Languepin: *See*—  
Maillet, Alfred M. A. 2,922,078.
- Maillet, Alfred M. A. 2,966,574.
- La Spirotechnique: *See*—  
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- Lassen-Nielsen, Morten, to Christiani & Nielsen. Apparatus for joining of submerged structures. 2,946,197, 7-26-60, Cl. 61-43.
- Lässig, Gerhard: *See*—  
Kühnrich, Max. Lässig, and Schülze. 2,924,931.
- Lassiter, Frederic H. Yarn length control means. 2,938,365, 5-31-60, Cl. 66-132.
- Lassiter, James W. Fishing lure. 2,945,318, 7-19-60, Cl. 43-42.47.
- Lassiter, Lemuel L. Sign. 2,952,057, 9-13-60, Cl. 24-221.
- Lassy, Carl O. Slide fixture with two-way motion. 2,946,247, 7-26-60, Cl. 77-64.
- Last, Anthony G. M., to Imperial Chemical Industries Ltd. Polyethylene compositions of improved clarity comprising polyethylene and a polyurethane and process of making same. 2,955,098, 10-4-60, Cl. 260-45.5.
- Last, Arthur W., and K. F. Marquardson, to Kennecott Copper Corp. Process for reclaiming oxine flotation reagent from products of flotation. 2,953,569, 9-20-60, Cl. 260-270.
- Last, George A., to United States of America, Atomic Energy Commission. Process for jacketing a core. 2,945,293, 7-19-60, Cl. 29-422.
- Latch, Theo A. Mechanical movement having unlocking and locking characteristics. 2,938,394, 5-31-60, Cl. 74-152.
- La Telemecanique Electrique: *See*—  
Filliette, Raymond L. 2,929,903.
- Latham, Allen E. Shutter carrier. 2,937,398, 5-24-60, Cl. 16-95.
- Latham, Allen E. Shutters. 2,959,220, 11-8-60, Cl. 160-199.
- Latham, Haverman P.: *See*—  
Barch, William E., Latham, and Marini. 2,930,698.
- Latham, Leonard: *See*—  
Birge, Homer, and Latham. 2,949,324.
- Lathrop, Harry D., to The Lathrop-Paulson Co. Conveyor track support. 2,962,152, 11-29-60, Cl. 198-189.
- Lathrop, Henry T. Cleaning device. 2,932,840, 4-19-60, Cl. 15-136.
- Lathrop-Paulson Co., The: *See*—  
Lathrop, Harry D. 2,962,152.
- Lathrop, Robert P., to Baldwin-Lima-Hamilton Corp. Offset yield strength indicator. 2,930,223, 8-29-60, Cl. 73-88.
- Lathrop, William M. Clothes hanger support. 2,941,672, 6-21-60, Cl. 211-87.
- Latimer-Needham, Cecil H.: *See*—  
Cobham, Alan J., Latimer-Needham, Smith and Macgregor. 2,953,332.
- Latimer, Robert E., to Union Carbide Corp. High argon recovery using proper shelf-top pinch principle. 2,934,908, 5-3-60, Cl. 62-22.
- Latimer, Robert E., to Union Carbide Corp. Process and apparatus for the separation of gas mixtures. 2,963,872, 12-13-60, Cl. 62-24.
- Latker, Stanley J. Garment construction. 2,932,035, 4-12-60, Cl. 2-106.
- La Telemecanique Electrique (Societe Anonyme): *See*—  
Filliette, Raymond L. 2,929,999.
- La Torre, Joseph, deceased, by K. S. La Torre, executrix. Power operated, bolt-holding wrench. 2,955,496, 10-11-60, Cl. 81-56.
- La Torre, Kathryn S.: *See*—  
La Torre, Joseph. 2,955,496.
- Latorre, Robert J.: *See*—  
Meyer, Earl W., Jr., Naborowski, and Latorre. 2,966,615.
- Latour, Andre, to Etablissements Merlin & Gerin. Spring tensioning device for the actuation of circuit breakers. 2,960,186, 11-15-60, Cl. 185-40.
- La Tour, Harry: *See*—  
Underwood, George W., and La Tour. 2,931,885.
- Latrobe Steel Co.: *See*—  
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- Lattmann, Max E., to Contraves A.G. Target tracking computing device. 2,919,850, 1-5-60, Cl. 235-61.5.
- Lattner, Erwin D., to The Cleveland Trencher Co. Tooth for excavators. 2,940,192, 6-14-60, Cl. 37-142.
- Lattuada, Bruno, to Intertrade Aktiengesellschaft. Ozonizing tube. 2,936,280, 5-10-60, Cl. 204-320.
- Latty, Samuel G. Educational number set. 2,934,834, 5-3-60, Cl. 35-9.
- Latus, Hans, to Allgauer Maschinenbau G.m.b.H. Ring spinning and twisting frames. 2,949,726, 8-23-60, Cl. 57-106.
- Latzen, Anneliese: *See*—  
Langen, Viktor, and Latzen. 2,937,895.
- Latzen, Josef: *See*—  
Langen, Viktor, and Latzen. 2,937,895.
- Latzen, Josef H., to A. Ehrenreich & Cie. Supporting joint for front wheel suspensions on motor vehicles. 2,928,687, 3-15-60, Cl. 287-90.
- Latzko, John A., to Aktiengesellschaft Brown, Boveri & Cie. Enclosed switchgear assemblies for outdoor erection. 2,943,717, 7-5-60, Cl. 189-1.
- Lau, Erwin M., to Black Products Co. Bag filling machine. 2,936,994, 5-17-60, Cl. 249-60.
- Laub, Ernest S. V. Compressible plunger for hypodermic syringe. 2,941,530, 6-21-60, Cl. 128-219.
- Laub, Ernest S. V. Hypodermic syringe. 2,959,170, 11-8-60, Cl. 128-218.
- Laub, John H. Thermal flow meter. 2,953,022, 9-20-60, Cl. 73-204.
- Laubach, Gerald D.: *See*—  
Agnello, Eugene J., and Laubach. 2,920,999.
- Agnello, Eugene J., and Laubach. 2,960,512.
- Bloom, Barry M., Agnello, Shull, and Laubach. 2,929,813.
- Figdor, Sanford K., and Laubach. 2,937,975.
- Pinson, Ellis R., Jr., and Laubach. 2,941,004.
- Laubach, Gerald D., to Chas. Pfizer & Co., Inc. Nitrogen heterocyclic compounds. 2,956,054, 10-11-60, Cl. 260-243.
- Laubach, Gerald D., to Chas. Pfizer & Co., Inc. Halogenated nitrogen heterocyclics. 2,956,055, 10-11-60, Cl. 260-243.
- Laube, Alfred J., R. L. Southard, and T. W. Cornwell, to Cooper Tire & Rubber Co. Apparatus for post-curing inflation of pneumatic tires. 2,948,921, 8-16-60, Cl. 18-4.
- Laube, Gerd, to International Standard Electric Corp. Space function release arrangement for printing telegraph system. 2,956,122, 10-11-60, Cl. 178-53.
- Laucher, Richard G. Automatic nail gun. 2,923,937, 2-9-60, Cl. 1-44.4.
- Laucher, Richard G., J. S. Winter, and E. A. Johnston, to The Marquardt Corp. Thrust reverser. 2,950,595, 8-30-60, Cl. 60-35.54.
- Lauck, Albert G., to Owens-Illinois Glass Co. Colored glass frit feeder. 2,926,458, 3-1-60, Cl. 49-54.
- Lauck, Albert G., to Owens-Illinois Glass Co. Gob guiding apparatus. 2,955,383, 10-11-60, Cl. 49-14.
- Lauck, John A., to Borg-Warner Corp. Pump. 2,938,469, 5-31-60, Cl. 103-120.
- Lauck, John A., to Borg-Warner Corp. Hydraulic transmission. 2,943,451, 7-5-60, Cl. 60-53.
- Lauck, Lawrence J., to United Aircraft Corp. Rear engine mount. 2,936,978, 5-17-60, Cl. 248-5.
- Laucks, Howard H., to Bendix Aviation Corp. Hydraulic valve sleeve. 2,938,503, 5-31-60, Cl. 121-46.5.
- Lauder, David N. Automatic sequence control for photo-composing machine. 2,956,493, 10-18-60, Cl. 95-76.
- Lauderback, William H., and W. S. Thompson, to Elkhart Brass Mfg. Co. Fire hose nozzle. 2,928,611, 3-15-60, Cl. 239-439.
- Laue, Erich, to MacDermid Inc. Bright copper plating process. 2,955,992, 10-11-60, Cl. 204-52.
- Lauer, Albert W., Jr., to Air Products Inc. Gauge guard. 2,946,223, 7-26-60, Cl. 73-431.
- Lauer, Anton: *See*—  
Brück, Lothar, and Lauer. 2,933,637.
- Lauer, Anton, to Telefunken Gesellschaft für Drahtlose Telegraphie G.m.b.H. Electron discharge tube. 2,937,309, 5-17-60, Cl. 315-3.5.
- Lauer, James L., to Sun Oil Co. Fuel and lubricant additives for reducing combustion chamber deposits. 2,962,439, 11-29-60, Cl. 252-25.
- Lauer, Leon N., and J. P. Ruet, to The Bendix Corp. Forward and reverse trailing shoe brake. 2,966,238, 12-27-60, Cl. 188-78.
- Lauer, Paul H. Combination door and panel. 2,927,354, 3-8-60, Cl. 20-35.
- Lauer, Rodney F., to Borg-Warner Corp. Air conditioning system. 2,919,558, 1-5-60, Cl. 62-160.
- Laufer, Frédéric, to J. Bobst and Son S.A. Presses for processing paper and cardboard. 2,935,932, 5-10-60, Cl. 100-299.
- Laufer, Frederic, to J. Bobst and Son S.A. Presses working sheet material conveyed by gripper bars. 2,959,080, 11-8-60, Cl. 83-206.
- Laufer, Robert J.: *See*—  
Jones, Donald C., and Laufer. 2,957,029.
- Laufer, Robert J., to Consolidation Coal Co. Purification of thiophenols by treatment with aluminum thiophenoxides. 2,954,403, 9-27-60, Cl. 260-609.
- Laufer, Robert J., to Consolidation Coal Co. Purification of thiophenols by treatment with aluminum and magnesium alkoxides. 2,954,404, 9-27-60, Cl. 260-609.
- Laughlin, Arvine E.: *See*—  
Dentzer, Carl J., Laughlin, and Stoeckel. 2,926,598.



- Laughlin, Clayton A., to Brown & Bigelow. Magnetic ball clock. 2,958,181, 11-1-60, Cl. 58-126.
- Laughlin, Kenneth C., R. J. Osborne, and J. G. Santangelo, to Celanese Corp. of America. Production of organic acid esters of cellulose. 2,966,485, 12-27-60, Cl. 260-227.
- Laughlin, Myron P. Lawn tool with chemical applicator. 2,951,314, 9-6-60, Cl. 47-1.
- Laughlin, William S.: See—
- Broske, William F., and Laughlin. 2,925,004.
- Laughter, Victor H.,  $\frac{1}{2}$  to H. W. Wolf. Conveyor release mechanism. 2,926,815, 3-1-60, Cl. 221-289.
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- Lauckhuff-Pratt Mfg. Corp.: See—
- Wood, William M. 2,951,322.
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- Lauler, Louis J., and M. T. Thorsson, to Fairbanks, Morse & Co. Weighing scale system. 2,931,639, 4-5-60, Cl. 265-70.
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- Spangler, Carl D., Jr., and Laurence. 2,951,347.
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- Laurent, Marcel F. 2,962,940.
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- Lauretti, Remo J., to Goodyear Aircraft Corp. Multiple wheel attachment element. 2,949,264, 8-16-60, Cl. 244-127.
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- Parmenter, Charles R., and Lastrup. 2,942,700.
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- Lautenbacher, Hans, to Enna-Werk Optische Anstalt Dr. Appelt K.G. Wide angle photographic objective. 2,959,100, 11-8-60, Cl. 88-57.
- Lautenbacher, Johann, to Enna-Werk Optische Anstalt Dr. Appelt K.G. Telephoto objective. 2,929,297, 3-22-60, Cl. 88-57.
- Lauterbach, Herbert G., to E. I. du Pont de Nemours and Co. Process for filtering with polytetrafluoroethylene fibers. 2,933,154, 4-19-60, Cl. 183-122.
- Lauterbach, Herbert G., to E. I. du Pont de Nemours and Co. Needled batt. 2,958,113, 11-1-60, Cl. 28-79.
- Lauterbach, Karges. Clay pigeon throwing mechanism. 2,934,056, 4-26-60, Cl. 124-9.
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- Lauterbach, William E., to The Dole Valve Co. Thermal timer. 2,962,049, 11-29-60, Cl. 137-624.13.
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- Lautin, Leon. Key chain. 2,964,937, 12-20-60, Cl. 70-456.
- Lautmann, Alfred J., to Iodent Chemical Co. Toothbrush. 2,921,326, 1-19-60, Cl. 15-145.
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- Lavallee, Joseph A., to Lavallee & Ide, Inc. Reamers. 2,940,342, 6-14-60, Cl. 77-72.
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Garfield, Lavern F., and Williams. 2,945,476.  
Green, David J. 2,929,057.  
Horton, William F., and Wegley. 2,945,650.  
Huff, Arthur J. 2,959,695.  
Kistler, Roland D. 2,942,124.  
Lear, William P. 2,924,885.  
Lear, William P. 2,942,233.  
Lear, William P., and Barish. Re. 24,880.  
Norton, Clyde J., and Dimon. 2,945,996.  
Ritzl, Emil. 2,945,349.  
Schoepfel, John F., Varner, and Herr. 2,932,809.  
Sweeney, Philip J., Shoemaker, and Monroe. 2,959,956.  
Uecker, Norman C. 2,941,305.  
Uecker, Norman C. 2,941,306.  
Van Namen, Charles, Jr. 2,935,666.  
Visser, Jacob. 2,934,292.  
Visser, Jacob. 2,952,426.  
Zoerner, James R., and Stewart. 2,959,691.
- Lear, Earl B., to Chicago Pneumatic Tool Co. Resilient retainer for drill steel. 2,935,327, 5-3-60, Cl. 279—19.5.
- Lear, Earl B., and J. J. Morocco, to Chicago Pneumatic Tool Co. Independently powered endless treads with knee action for drill supporting tractor. 2,940,532, 6-14-60, Cl. 180—6.48.
- Lear, William P. to Lear, Inc. Aircraft indicating instrument and system. 2,924,885, 2-16-60, Cl. 33—204.
- Lear, William P., to Lear, Inc. Flight indicating instrument and system for aircraft. 2,942,233, 6-21-60, Cl. 340—27.
- Lear, William P., and T. Barish, to Lear, Inc. Rate gyroscope with torsional suspension. Re. 24,880, 9-27-60, Cl. 74—5.0.
- Learn, Claude E., to Bendix-Westinghouse Automotive Air Brake Co. Fluid pressure switch. 2,939,928, 6-7-60, Cl. 200—83.
- Leary, Joseph A.: *See*—  
Bjorklund, Carl W., Benz, Maraman, Leary, and Walsh. 2,923,670.
- Leary, Joseph C. Automatic motive fluid cut-off. 2,940,331, 6-14-60, Cl. 74—472.
- Leary, Robert F., and L. W. Bowman, to Esso Research and Engineering Co. Alkyl resins from cycloclodienes. 2,964,482, 12-13-60, Cl. 260—22.
- Leary, Robert F., H. T. Oakley, and J. F. McKay, to Esso Research and Engineering Co. Steam cracking of light naphtha and preparation of resins. 2,964,504, 12-13-60, Cl. 260—82.
- Lease, Clarence E., and G. M. Halse. Apparatus for removing ballast from vehicle tires. 2,950,146, 8-23-60, Cl. 302—58.
- Leather Industries Research Institute: *See*—  
Shuttleworth, Stanley G. 2,919,453.
- Leatherland, Lawrence C., to Permchem Corp. Aqueous metastable dispersion of tetraivalent organo-tin compounds treating process. 2,957,785, 10-25-60, Cl. 117—138.5.
- Leatherman, Earl W., W. C. Johnson, Jr., and R. S. Ross, to United States of America, Air Force. Pressurizing systems for dual wall fabric radomes. 2,959,785, 11-8-60, Cl. 343—872.
- Leatherman, Gerald T., and P. E. Campbell, to Phillips Petroleum Co. Polymerization process for producing copolymers of ethylene and higher 1-olefins. 2,929,807, 3-22-60, Cl. 260—88.2.
- Leatherman, Martin, to United States of America, War. Fire resistant composition for fabrics. 2,926,097, 2-23-60, Cl. 106—17.
- Leathers, Chester F. Welding cable. 2,943,133, 6-28-60, Cl. 174—15.
- Leathers, Joel M. F., and W. P. Coker, to The Dow Chemical Co. Preparation of acrylic esters. 2,964,558, 12-13-60, Cl. 260—486.
- Leathers, Ward, F. J. Furman, and H. A. Panissidi, to International Business Machines Corp. Alternating pulse servo system. 2,948,193, 8-9-60, Cl. 89—41.
- Leathers, Ward, H. Panissidi, and P. Andreessen, to United States of America, Army. Alternating pulse servo system. 2,929,213, 3-22-60, Cl. 60—53.
- Leavitt, Herbert J.: *See*—  
Brown, Donald V., Brown, and Leavitt. 2,928,798.
- Leba, John J. Fish lure. 2,926,451, 3-1-60, Cl. 43—42.14.
- Lebacqz, Jean V., to United States of America, Navy. Apparatus for tuning klystron cavities. 2,930,928, 3-29-60, Cl. 315—5.43.
- Le Baron, Ira M., to International Minerals & Chemical Corp. Process for the beneficiation of sylvite ores. 2,927,010, 3-1-60, Cl. 23—297.
- Lebens, John C., to McGraw-Edison Co. Protectors for electric circuits. 2,958,750, 11-1-60, Cl. 200—133.
- Leber, Henry, and L. A. Perini, to Dairymen's League Co-Operative Assn., Inc. Method of preserving cottage cheese. 2,962,379, 11-29-60, Cl. 99—162.
- Lebert, Herbert A., to MacFarland, Aveyard & Co. Removal of tar and other deleterious substances from tobacco smoke. 2,954,772, 10-4-60, Cl. 131—10.
- Lebert, Herbert A., to MacFarland, Aveyard & Co. Cigarette filters and method of making same. 2,954,773, 10-4-60, Cl. 131—10.
- Lebert, Herbert A., to MacFarland, Aveyard & Co. Tobacco tar removal structure. 2,954,774, 10-4-60, Cl. 131—10.
- Lebert, Herbert A., to MacFarland, Aveyard & Co. Device for removal of tar and other deleterious substances from tobacco smoke. 2,954,777, 10-4-60, Cl. 131—184.
- Lebert, Herbert A., to MacFarland Aveyard & Co. Auxiliary filtration means for filter-type cigarettes. 2,954,778, 10-4-60, Cl. 131—187.
- Lebert, Herbert A., to MacFarland, Aveyard & Co. Device for removal of tar and other deleterious substances from tobacco smoke. 2,954,779, 10-4-60, Cl. 131—187.
- Lebert, Herbert A., to MacFarland, Aveyard & Co. Device for removal of tar and other deleterious substances from tobacco smoke. 2,954,780, 10-4-60, Cl. 131—187.
- Lebert, Herbert A., to MacFarland, Aveyard & Co. Device for removal of tar and other deleterious substances from tobacco smoke. 2,954,781, 10-4-60, Cl. 131—187.
- Lebert, Herbert A., to MacFarland, Aveyard & Co. Cigarette filter structure. 2,954,782, 10-4-60, Cl. 131—187.
- Lebert, Herbert A., to MacFarland, Aveyard & Co. Filter type tobacco smoking structure for removal of tar. 2,954,783, 10-4-60, Cl. 131—187.
- Lebert, Herbert A., to MacFarland, Aveyard & Co. Device for removal of tar and other deleterious substances from tobacco smoke. 2,954,784, 10-4-60, Cl. 131—189.
- Lebert, Herbert A., to MacFarland, Aveyard & Co. Device for removal of tar and other deleterious substances from tobacco smoke. 2,954,785, 10-4-60, Cl. 131—189.
- Lebert, Herbert A., to MacFarland, Aveyard & Co. Tobacco tar removal structure. 2,954,786, 10-4-60, Cl. 131—201.
- Lebert, Herbert A., to Mac Farland, Aveyard & Co. Filter for smokable articles. 2,954,787, 10-4-60, Cl. 131—208.
- Leblais, Daniel H., to International Business Machines Corp. Magnetic core impulse detection device. 2,966,663, 12-27-60, Cl. 340—174.



- Le Blan, Louis, to North American Philips Co., Inc. Receiving device for two television programs. 2,951,904, 9-6-60, Cl. 179-15.
- Le Blanc, Joseph A.: *See*—  
Picard, Robert G., and Le Blanc. 2,941,099.
- Le Blanc, Gerald A., to Otto Bernz Co., Inc. Hose nozzle with plastic tip and flip ring. 2,944,742, 7-12-60, Cl. 239-458.
- Le Blanc, Robert E.: *See*—  
Diggins, Bartholomew, and Le Blanc. 2,954,443.
- Leblac, Jacques M. R., to Librairie Hachette, Societe Anonyme. Toy automobile controllable from a distance. 2,921,408, 1-19-60, Cl. 46-244.
- Leblon, Emile: *See*—  
Gonze, Max, and Leblon. 2,941,865.
- Le Blond, R. K., Machine Tool Co., The: *See*—  
Carlstedt, Ragnar L. 2,938,410.  
Carlstedt, Ragnar L. 2,953,951.  
Killian, Cletus H. 2,947,928.  
McCurdy, Harry C. 2,949,893.
- Lebocey, Bernard J. E., to D. I. Glossbrenner. Step-by-step motor drive for circular knitting machine. 2,938,155, 5-24-60, Cl. 318-443.
- Lebourg, Maurice P., to Schlumberger Well Surveying Corp. Centralizing means for borehole apparatus. 2,931,440, 4-5-60, Cl. 166-241.
- Lebourg, Maurice P., to Schlumberger Well Surveying Corp. Well logging apparatus. 2,963,583, 12-6-60, Cl. 250-83.3.
- Leboutet, Hubert, to Compagnie Generale de Telegraphie Sans Fil. Detecting and measuring devices for millimeter waves. 2,922,955, 1-26-60, Cl. 331-76.
- Le Bouillier, Arthur, and M. C. Stevens, to A. C. Cossor Ltd. Transfer machines. 2,959,267, 11-8-60, Cl. 198-19.
- Lebowitz, Samuel.: *See*—  
Walter, Bruce E. 2,933,741.
- Le Brasse, Gordon J.: *See*—  
Probst, Robert L., Le Brasse, and Karp. 2,946,681.
- Le Bron, Richard C. Removable automobile side window. 2,922,473, 1-26-60, Cl. 160-181.
- Le Brun, George K.: *See*—  
Lucas, James L. 2,936,854.
- Lebrun, Robert. Electromagnetic hockey game. 2,964,320, 12-13-60, Cl. 273-85.
- Le Brusque, Rene, to Societe Anonyme H. Ernault-Batignolles. Mechanisms for controlling copying devices in machine-tools. 2,938,418, 5-31-60, Cl. 82-14.
- Le Brusque, Rene, to Societe Anonyme H. Ernault-Batignolles. Swinging templet-holder for machine-tool equipped with a copying device. 2,966,084, 12-27-60, Cl. 82-14.
- Le Bus, Franklin L., Sr., to The Wash Overshot and Spear Engineers, Inc. Hydraulic drill collar retrieving mechanism. 2,921,630, 1-19-60, Cl. 166-103.
- Le Bus, Franklin L., Sr., to Le Bus Royalty Co. Telescoping core drill. 2,929,612, 3-22-60, Cl. 255-72.
- Le Bus, Franklin L., Sr., to Le Bus Royalty Co. Combined coring and reaming apparatus. 2,944,795, 7-12-60, Cl. 255-72.
- Le Bus, Franklin L., Sr. Automatic slip joint. 2,961,219, 11-22-60, Cl. 255-28.
- Le Bus, Franklin L., Sr., to Le Bus Royalty Co. Magnetic drill joint. 2,965,406, 12-20-60, Cl. 294-65.5.
- Le Bus, Franklin L., Sr., and C. Ware, to Wash Overshot and Spear Engineers, Inc. Fishing tool apparatus. 2,965,177, 12-20-60, Cl. 166-240.
- Le Bus, Franklin L., Sr., and C. Ware, to Wash Overshot and Spear Engineers, Inc. Fishing tool apparatus for well bores. 2,965,183, 12-20-60, Cl. 175-321.
- Le Bus, Jake H., to PGAC Development Co. Perforating device and method of perforating wells. 2,927,534, 3-8-60, Cl. 102-20.
- Le Bus, Jake H., to PGAC Development Co. Sample taking apparatus. 2,944,791, 7-12-60, Cl. 255-1.4.
- Le Bus Royalty Co.: *See*—  
Le Bus, Franklin L., Sr. 2,929,612.  
Le Bus, Franklin L., Sr. 2,944,795.  
Le Bus, Franklin L., Sr. 2,965,406.
- Lech, Gerd: *See*—  
Winter, Horst, and Lech. 2,932,505.
- Lechene, Leo L. Rotary gutter broom. 2,923,958, 2-9-60, Cl. 15-198.
- Lechner, Albert J., and G. W. Louthan, to Lockheed Aircraft Corp. Fluid drain valve. 2,936,773, 5-17-60, Cl. 137-204.
- Lechthaler, Louis H., S. J. Feinberg, and H. L. Whited, to General Electric Co. Compressor rotor. 2,931,625, 4-5-60, Cl. 253-77.
- Lecky, Albert S.: *See*—  
Weller, Edward F., and Lecky. 2,919,576.
- Leclabart, Jean. Massage appliance. 2,959,167, 11-8-60, Cl. 128-59.
- Le Clair, Camille C. S., to Parker-Hannifin Corp. Hose reel and control mechanism therefor. 2,954,190, 9-27-60, Cl. 244-135.
- Leclerc, Armand J. Toy projectile. 2,925,276, 2-16-60, Cl. 273-106.
- Leclerc, Armand J. Holster for a gun. 2,958,448, 11-1-60, Cl. 224-1.
- Leclercq, René, and R. Paquet, to Union Chimique Belge S.A. Resin drying catalysts. 2,926,148, 2-23-60, Cl. 260-18.
- Leclercq, René, and R. Paquet, to Union Chimique Belge S.A. Resinous products from furfuryl alcohol and diisocyanates. 2,926,157, 2-23-60, Cl. 260-77.5.
- Leclercq, René, and R. Paquet, to Union Chimique Belge S.A. Preparation of resins from diisocyanates. 2,947,714, 8-2-60, Cl. 260-24.
- Lecluyse, Edouard, and A. Quinche, to American Can Co. Machine for closing tubes of plastic material through fusion. 2,928,218, 3-15-60, Cl. 53-41.
- Le Cluyse, Leonard P. Concrete form panel. 2,963,763, 12-13-60, Cl. 25-131.
- Le Compte, Frank M., to Tingley Rubber Corp. Rubber footwear with expansion flap. 2,933,831, 4-26-60, Cl. 36-4.
- Lecompte, Paul, to Societe Anonyme dite: Etablissements Lefranc. Printing inks containing urea hydrogen peroxide. 2,939,795, 6-7-60, Cl. 106-28.
- Lectro Mfg., Inc.: *See*—  
Shaw, Charles L. 2,954,650.
- Lectromatic Devices, Inc.: *See*—  
Selden, Herman L. 2,938,086.
- Ledel, Alvin L., and T. Barish, to Thompson Ramo Wooldrige Inc. Variable centrifugal pump. 2,950,686, 8-30-60, Cl. 103-97.
- Lederer, Ernest A.: *See*—  
Selby, Elmer E., Jr., Plummer, and Lederer. 2,921,863.
- Lederer, Ernest A., to Westinghouse Electric Corp. Electron discharge device. 2,933,634, 4-19-60, Cl. 313-331.
- Ledex, Inc.: *See*—  
Leland, Gerald H., and Biser. 2,959,969.
- Ledgerwood, Robert W., to Rol-Away Truck Mfg. Co., Inc. Extensible platform truck. 2,923,373, 2-2-60, Cl. 182-102.
- Ledgerwood, Robert W., to Rol-Away Truck Mfg. Co., Inc. Cart. 2,935,331, 5-3-60, Cl. 280-79.3.
- Ledig, Kurt W.: *See*—  
Hitchings, George H.; Falco, and Ledig. 2,945,859.  
Hitchings, George H., and Ledig. 2,937,284.
- Leditschke, Heinrich, H. Rolly, and H. Schmidt-Ruppin, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Certain isonitroic acid-N-oxide polyhalogen diphenyl alkyl amides. 2,945,040, 7-12-60, Cl. 260-295.
- Le Duc, John M. Razor blade sharpener. 2,921,418, 1-19-60, Cl. 51-214.
- Le Duc, Joseph A. M.: *See*—  
Goens, Duane N., Le Duc, and Silsby. 2,965,445.
- Leduc, Lucien. Fuel tank contents level indicator. 2,942,468, 6-28-60, Cl. 73-321.
- Leduc, René. Fluid pressure servo-motor. 2,928,378, 3-15-60, Cl. 121-41.
- Leduc, René. Air intake arrangement for supersonic aircraft. 2,931,167, 4-5-60, Cl. 60-35.6.
- Ledwith, Walter A., to United Aircraft Corp. Stator units. 2,937,000, 5-17-60, Cl. 253-78.
- Ledwith, Walter A., and J. C. Carr, to United Aircraft Corp. Compressor inspection port. 2,965,286, 12-20-60, Cl. 230-133.
- Lee, Aaron. Method of and machine for manufacturing ice cubes and crushed ice. 2,921,443, 1-19-60, Cl. 62-69.
- Lee, Aaron. Ice cube making addition to domestic refrigerators. 2,943,456, 7-5-60, Cl. 62-138.
- Lee, Arthur L., to Consolidation Coal Co. Driven steerable wheels for mine haulage vehicles. 2,924,288, 2-9-60, Cl. 180-43.
- Lee, Arthur L., to Consolidation Coal Co. Four wheel driven mine haulage vehicle with plural propulsion unit compartments. 2,925,136, 2-16-60, Cl. 180-49.
- Lee, Arthur L., to Consolidation Coal Co. Drive means for a mine haulage vehicle. 2,927,654, 3-8-60, Cl. 180-49.
- Lee, Arthur L., to Consolidation Coal Co. Mine haulage vehicle. 2,953,212, 9-20-60, Cl. 180-44.
- Lee, Arthur L., to Consolidation Coal Co. Mine drilling machine. 2,958,514, 11-1-60, Cl. 255-47.
- Lee, Arthur L., and A. B. Coval, to Consolidation Coal Co. Flight conveyor. 2,954,864, 10-4-60, Cl. 198-175.
- Lee, Bock W., to Bell Telephone Laboratories, Inc. Transistor circuit. 2,958,789, 11-1-60, Cl. 307-88.5.
- Lee, Clarence E.: *See*—  
Snyder, John M., Rowth, and Lee. 2,945,765.
- Lee Co., The: *See*—  
Lee, Leighton, II. 2,952,156.
- Lee Engineering Co.: *See*—  
Lee, Royal. 2,941,414.
- Lee Foundation for Nutritional Research: *See*—  
Lee, Royal. 2,941,397.
- Lee, Francis F.: *See*—  
McDonough, James O., Susskind, Grossimon, and Lee. 2,963,137.
- Lee, Frederick W. Magnetic variometer. 2,964,700, 12-13-60, Cl. 324-43.
- Lee, George A., to Autopack Ltd. Apparatus for feeding and presenting bags for packaging or filling. 2,926,476, 3-1-60, Cl. 53-386.
- Lee, Harry. Protective covering for pipes and fittings therefor. 2,958,546, 11-1-60, Cl. 285-21.
- Lee, Hon C., to Westinghouse Electric Corp. Television apparatus. 2,965,710, 12-20-60, Cl. 178-6.8.
- Lee, Hsiang K. Adjustable anchoring device. 2,954,647, 10-4-60, Cl. 50-474.
- Lee, Hsue F.: *See*—  
Simer, Jerome, and Lee. 2,930,326.



- Lee, James A., to The Plessey Co. Ltd. Gramophone tone-arm positioning mechanism. 2,930,623, 3-29-60, Cl. 274-15.
- Lee, James A., to The Plessey Co. Ltd. Plural-speed gramophones. 2,953,382, 9-20-60, Cl. 274-9.
- Lee, James A., and P. Stanwell, to The Plessey Co. Ltd. Shaft bearings. 2,938,755, 5-31-60, Cl. 308-72.
- Lee, John: See—
- Berger, Leo, and Lee. 2,923,704.
- Gardner, Thomas S., Lee, and Wenis. 2,957,882.
- Gardner, Thomas S., Lee, and Wenis. 2,965,646.
- Gardner, Thomas S., Lee, Wenis, and Wenner. 2,923,714.
- Lee, John G., to United Aircraft Corp. Secondary flow reducer. 2,920,864, 1-12-60, Cl. 253-39.
- Lee, John M., to The Dow Chemical Co. Treatment of particulate iron ore. 2,931,717, 4-5-60, Cl. 75-3.
- Lee, Joseph E.,  $\frac{1}{2}$  to T. T. Peck, Jr. Traction weight shield. 2,949,110, 8-16-60, Cl. 128-75.
- Lee, Leighton, II, to The Lee Co. Pressure differential gauge. 2,952,156, 9-13-60, Cl. 73-419.
- Lee, Kenneth L., Jr., and A. L. Mell. Door frame. 2,925,894, 2-23-60, Cl. 189-46.
- Lee, Leighton, II, to Chandler-Evans Corp. Speed control apparatus for rotatable mechanism. 2,932,165, 4-12-60, Cl. 60-39.28.
- Lee, Mark W. Garbage feeding device. 2,938,674, 5-31-60, Cl. 241-32.
- Lee, Norman, to The Keelavite Co. Ltd. Hydraulic control valve apparatus for controlling the supply of working fluid to a hydraulic circulating system. 2,956,551, 10-18-60, Cl. 121-157.
- Lee, Paul R., to Westinghouse Electric Corp. Electric oven control. 2,935,591, 5-3-60, Cl. 219-20.
- Lee, Ray H.: See—
- Lawrence, Ernest O., and Lee. 2,943,230.
- Lee, Richard J. Safety brake apparatus. 2,965,201, 12-20-60, Cl. 188-151.
- Lee, Richard K. O.: See—
- Burkhart, George N., Jr., Lee, and Pitt. 2,957,133.
- Lee, Robert A.: See—
- Collins, Garry G., Jr., and Lee. 2,941,108.
- Lee, Robert A., Jr., to Bready Tractor & Implement Co. Drive coupling for tractor propelled tool. 2,926,736, 3-1-60, Cl. 180-53.
- Lee, Robert E., to A. G. Allison. Wheel chairs with hand propulsion means. 2,946,602, 7-26-60, Cl. 280-250.
- Lee, Robert E., and J. H. McIvor, to United States of America, Army. Mine fuze. 2,941,472, 6-21-60, Cl. 102-70.
- Lee, Robert J.: See—
- Binning, Robert C., and Lee. 2,923,751.
- Binning, Robert C., and Lee. 2,953,502.
- May, Paul D., and Lee. 2,960,538.
- Lee, Robert J., to The American Oil Co. Separation of hydrocarbons by permeation membrane. 2,947,687, 8-2-60, Cl. 210-23.
- Lee, Robert J., and R. C. Binning, to The American Oil Co. Prevention of membrane rupture in a separatory process for oil soluble organic compounds using a non-porous plastic permeation membrane. 2,923,749, 2-2-60, Cl. 260-674.
- Lee, Robert J., and J. F. Jennings, to The American Oil Co. Dual film combinations for membrane permeation. 2,960,462, 11-15-60, Cl. 208-308.
- Lee, Roger K.: See—
- Camm, John C., Lee, and Silver. 2,926,293.
- Lee, Roger K., Jr., and T. R. Parsons, to Electronics Corp. of America. Flaps for supersonic aircraft escape systems. 2,941,764, 6-21-60, Cl. 244-140.
- Lee, Royal, to Lee Foundation for Nutritional Research. Miles-per-gallon measuring apparatus. 2,941,397, 6-21-60, Cl. 73-114.
- Lee, Royal, to Lee Engineering Co. Friction clutch mechanism. 2,941,414, 6-21-60, Cl. 74-378.
- Lee, Royal F., to Vickers-Armstrongs (Aircraft) Ltd. Collapsible stairway installations for aircraft and other vehicles. 2,933,149, 4-19-60, Cl. 182-78.
- Lee Rubber & Tire Corp.: See—
- McCormick, Clarence E. 2,931,069.
- Lee, Shih-Ying: See—
- Li, Yao T., and Lee. 2,931,229.
- Lee, Thomas H., and E. G. Stedry, to General Motors Corp. Electrical contact spring. 2,924,801, 2-9-60, Cl. 339-14.
- Lee, Walter, and W. B. Fogle, to The Black and Decker Mfg. Co. Electric vacuum cleaner. 2,962,118, 11-29-60, Cl. 183-37.
- Lee, Warren G.: See—
- Gutzelt, Gregoire, Talmey, and Lee. 2,935,425.
- Lee, Warren G., to General American Transportation Corp. Printed electric circuits. 2,940,018, 6-7-60, Cl. 317-101.
- Lee, Warren G., and E. Browar, to General American Transportation Corp. Process of chemical nickel plating of amphoteric elements and their alloys. 2,928,757, 3-15-60, Cl. 117-50.
- Lee, Wilbur J., and J. M. Egly, to United States of America, Army. Latched helmet suspension mount. 2,923,942, 2-9-60, Cl. 2-3.
- Lee, Willard P., and V. S. Dingman. Sign display device. 2,942,367, 6-28-60, Cl. 40-129.
- Lee, William H. Induction motor speed control. 2,924,764, 2-9-60, Cl. 318-237.
- Lee, William H. Control circuit for induction motors. 2,924,765, 2-9-60, Cl. 318-237.
- Lee, Willin C. Solar thermostat control unit. 2,928,606, 3-15-60, Cl. 239-67.
- Lee, Willis E. Decarbonizer for automotive engines. 2,922,407, 1-26-60, Cl. 123-25.
- Lee, Willis L., to General Dynamics Corp. Broad band transistor amplifier. 2,942,199, 6-21-60, Cl. 330-17.
- Lee, Willis L., to General Dynamics Corp. Frequency multiplier. 2,946,963, 7-26-60, Cl. 331-38.
- Lee, Wing J. Collar block with creasing device. 2,954,149, 9-27-60, Cl. 223-52.1.
- Leebrick, John R.: See—
- Frank, Charles E., and Leebrick. 2,956,086.
- Leece-Neville Co., The: See—
- Gilchrist, Albert D. 2,939,021.
- Leech, Harry R., to Imperial Chemical Industries Ltd. Process for the electrolytic separation of titanium from titanium scrap. 2,944,949, 7-12-60, Cl. 204-69.
- Leech, John: See—
- Robinson, Arthur A., and Leech. 2,925,218.
- Leech, Lawrence E.: See—
- Fullerton, John R., Leech, and Heyser. 2,922,025.
- Leeder Mfg. Co. Inc.: See—
- Carter, Phillip M., and Nardoza. 2,924,280.
- Leeds, Gerard G. Electric sign with movable interchangeable gas discharge tube letters. 2,924,034, 2-9-60, Cl. 40-130.
- Leeds, Harry, to S. C. Johnson & Son, Inc. Hand stamp. 2,919,645, 1-5-60, Cl. 101-368.
- Leeds, Morton W., and R. J. Tedeschi, to Air Reduction Co., Inc. Germicidal compositions containing aromatic acetylenic diols. 2,921,882, 1-19-60, Cl. 167-30.
- Leeds, Laurence M., to General Electric Co. Deflection circuit. 2,935,644, 5-3-60, Cl. 315-27.
- Leeds and Micallef: See—
- Leeds, Walter W., Loew, and Micallef. 2,948,008.
- Leeds, Morton W.: See—
- Burch, Robert J., and Leeds. 2,945,895.
- Leeds and Northrup Co.: See—
- Clark, William R., McAdam, and Moreland. 2,957,115.
- Cohn, Nathan. 2,923,832.
- Connor, John A. 2,930,965.
- Fowle, George D., Jr., and Kraftson. 2,930,237.
- Proctor, William E., Jr. 2,927,887.
- Williams, Albert J., Jr. 2,934,709.
- Leeds, Walter A., and N. J. Sweete. Composition for printing screens. 2,924,520, 2-9-60, Cl. 96-35.
- Leeds, Walter W., T. Loew, and L. A. Micallef, to Leeds and Micallef. Dispensing containers. 2,948,008, 8-9-60, Cl. 15-139.
- Leeds, Winthrop M., to Westinghouse Electric Corp. Circuit interrupter. 2,942,085, 6-21-60, Cl. 200-145.
- Leeds, Winthrop M., to Westinghouse Electric Corp. Pumped-gas circuit interrupter. 2,957,063, 10-18-60, Cl. 200-148.
- Leedy, Herbert R. Pinch clamp. 2,930,570, 3-29-60, Cl. 251-10.
- Leedy, Nelson J., and R. G. Russell, to Owens-Corning Fiberglass Corp. Stream feeder and method of making same. 2,933,590, 4-19-60, Cl. 219-107.
- Leehey, Patrick. Hydrofoil craft. 2,926,623, 3-1-60, Cl. 114-66.5.
- Leek, Francis W. J. Paper making and the like machines. 2,943,677, 7-5-60, Cl. 162-319.
- Leek, Wayne E.: See—
- Crittendon, Lexie R., Hallston, Haskell, Kelly, and Leek. 2,941,450.
- Leek, William G., Jr. Metering device. 2,954,045, 9-27-60, Cl. 137-251.
- Leeper, Harold M.: See—
- D'Amico, John J., Leeper, and Tung. 2,922,780.
- Hill, Rutherford B., and Leeper. 2,955,100.
- Leeper, Harold M., and D. B. Merrifield, to Monsanto Chemical Co. Synergistic stabilizer compositions for rubber comprising an N-nitroso aromatic amine and an aliphatic monoamine. 2,930,777, 3-29-60, Cl. 260-45.9.
- Lees, Alfred: See—
- Couture, Emile W., and Lees. 2,923,102.
- Lees, David S., and G. O. Morgan, to Imperial Chemical Industries Ltd. Method or process of testing applicable to the control of manufactures in which temperature is important. 2,922,304, 1-26-60, Cl. 73-339.
- Lees, Gerald M. Ice making machines. 2,919,557, 1-5-60, Cl. 62-71.
- Lees, Gerald M. Ice harvesting means for flaked ice machines. 2,919,561, 1-5-60, Cl. 62-354.
- Lees, James, and Sons Co.: See—
- Asher, Carlton R. 2,946,454.
- Ballard, Hyde W. 2,941,551.
- Batty, Harry A., and Higgins. 2,936,795.
- Batty, Harry A., and Pullen. 2,944,382.
- Berry, Charles C. 2,961,010.
- Crawford, Howard G., and Schluter. 2,962,162.
- Higgins, Fred. 2,946,176.
- Janney, Thomas T. 2,936,004.
- Janney, Thomas T., and McCann. 2,950,741.
- Nowicki, Henry F., and Smiley. 2,924,251.
- McFaddin, Ray D. 2,949,086.
- Mooney, Philip F., and Smith. 2,928,099.
- Rhodes, Travis M. 2,961,983.
- Worth, Maurice W. 2,946,350.
- Worth, Maurice W. 2,946,355.
- Lees, Richard, Ltd.: See—
- Oakden, Richard R. 2,938,255.
- Lees, Richard W.: See—
- Moore, John A., and Lees. 2,927,741.



- Lees, Sidney. Gimbal system. 2,960,878, 11-22-60, Cl. 74—5.34.
- Leese, Albert H., to Curtiss-Wright Corp., Utica Division. Hydraulic spacer. 2,954,016, 8-27-60, Cl. 123—90.
- Leeson, James L., Jr., to Warner Electric Brake & Clutch Co. Electrical control of torque transmitting mechanism. 2,946,418, 7-26-60, Cl. 192—12.
- Leeson, Plato J., and W. F. Weatherford, to Woodward Governor Co. Pressure sensor. 2,965,137, 12-20-60, Cl. 137—785.
- Leesona Corp.: *See*—
- Goodhue, William V., and Higgins. 2,930,543.
- Goodhue, William V., Reynolds, and White. 2,926,014.
- Keith, John V. 2,932,150.
- Keith, John V. 2,950,067.
- Langan, Jeremiah E. 2,958,773.
- Lieb, Harry C. 2,930,909.
- Lieb, Harry C., and De Rosa. 2,930,830.
- Stoddard, Nicholas J., and Seem. 2,949,253.
- Wallack, Stanley. 2,954,516.
- Leesona Holt Ltd.: *See*—
- Norton, John. 2,942,904.
- Leet, William A.: *See*—
- Persson, Sten I., and Leet. 2,944,804.
- Leeuwrik, Frederik H., to Koninklijke Verkeade Fabrieken N.V. Oven for baking, heating or keeping bakers' wares at a constant temperature. 2,930,333, 3-29-60, Cl. 107—56.
- Leeuwrik, Frederik H., to Koninklijke Verkeade Fabrieken N.V. Tunnel baking oven. 2,949,869, 8-23-60, Cl. 107—57.
- Lefauve, Henri: *See*—
- Fayeton, Jean L. 2,964,143.
- Le Fave, Gene M.: *See*—
- Kassay, John L., Le Fave, Stewart, and Baranoff. 2,938,186.
- Lefebvre, Eugene: *See*—
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- Le Febvre, Arthur H., and J. R. Wiseman, to Bendix Aviation Corp. Hydraulic control pump. 2,945,449, 7-19-60, Cl. 103—162.
- Lefebvre, Frank J.: *See*—
- Volckening, Lloyd I., O'Meara, and Lefebvre. 2,921,731.
- Lefebvre, Fredrick L. Heater tube mounting. 2,927,299, 3-1-60, Cl. 339—278.
- Leferson, Joseph, to The Machlett Laboratories, Inc. Getter for electron tubes. 2,951,170, 8-30-60, Cl. 313—178.
- Le Feuvre, Charles W.: *See*—
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- Le Feuvre, Charles W., to La Porte Chemicals Ltd. Process for the manufacture of hydrogen peroxide. 2,927,002, 3-1-60, Cl. 23—207.
- Le Feuvre, Charles W., and C. A. Morgan, to Laporte Chemicals Ltd. Catalytic hydrogenation of substituted anthraquinones in the production of hydrogen peroxide. 2,940,833, 6-14-60, Cl. 23—207.
- Lefever, Robert A.: *See*—
- Clark, Grady W., and Lefever. 2,965,456.
- Lefevre, Lloyd E., to The Dow Chemical Co. Process for preparing thermoplastic tapes of varied cross-sections. 2,960,725, 11-22-60, Cl. 18—48.
- Left, Martin J., to Sperry Rand Corp., Ford Instrument Co. Division. Differential action synchro transducer. 2,944,159, 7-5-60, Cl. 250—233.
- Leffler, Amos J.: *See*—
- Bratt, Lars C., Leffler, and Louis. 2,920,942.
- Teach, Eugene G., and Leffler. 2,964,379.
- Leffler, Amos J., to Stauffer Chemical Co. Removal of phosphene from boron trihalides. 2,931,710, 4-5-60, Cl. 23—205.
- Leffler, Charles L., Jr., to Mine Safety Appliances Co. Canister lifter for breathing apparatus. 2,956,562, 10-18-60, Cl. 128—191.
- Lefier, Frank M., and T. R. Baker, to Baljak Corp. Hinge cover folding boxes. 2,944,724, 7-12-60, Cl. 229—36.
- Le Fiell, Sidney. Overhead switch unit employing spring toggle. 2,944,491, 7-12-60, Cl. 104—103.
- Lefkowitz, Issai, to Gulton Industries, Inc. Electrical component of ceramic combined with resistor applied to the surface thereof. 2,940,035, 6-7-60, Cl. 323—74.
- Lefrancois, Philip A.: *See*—
- Burton, William P., Lefrancois, and Riblett. 2,961,414.
- Lefren, Edward K.: *See*—
- Horne, Charles F., Lefren, Ramer, and Roth. 2,965,033.
- Lefton, Helen: *See*—
- Doyle, Charles C. 2,961,952.
- Leftwich, Mason F.: *See*—
- Strock, Howard E. 2,925,570.
- Le Gate, Osborne W. Automatic controls for well drills. 2,944,789, 7-12-60, Cl. 254—173.
- Legeay, Andre C., and J. E. Chauvineau, to F. Alexander. Electronic ignition system. 2,940,014, 6-7-60, Cl. 315—209.
- Legendre, Andre, and P. Cornuault, to The Pechinery Compagnie de Produits Chimiques et Electrometallurgiques, and Commissariat a l'Energie Atomique. Process and apparatus for producing pure graphite. 2,941,866, 6-21-60, Cl. 23—209.3.
- Leger, George E.: *See*—
- Shoebridge, Harold P., and Leger. 2,956,148.
- Legg, Norman: *See*—
- Heslop, Robert N., Legg, Mawson, Stephen, and Wardleworth. 2,935,506.
- Legge, Frederick H., to Aerol Co., Inc. Combined wheel suspension and leveling jack assembly. 2,952,473, 9-13-60, Cl. 280—96.2.
- Legge, Frederick H., to Aerol Co., Inc. Foot operated wheel brake. 2,962,126, 11-29-60, Cl. 188—74.
- Legge, Frederick H., and M. E. Ross, to Aerol Co., Inc. Parking brake. 2,961,073, 11-22-60, Cl. 188—78.
- Legge, George D., to General Motors Corp. Dome and reading lamp assembly. 2,944,145, 7-5-60, Cl. 240—7.35.
- Legge, George D., to General Motors Corp. Combination dome and reading lamp assembly. 2,957,073, 10-18-60, Cl. 240—7.35.
- Legge, Walter G., to Walter G. Legge Co., Inc. Body grounding devices. 2,933,651, 4-19-60, Cl. 317—2.
- Legge, Walter G., Co., Inc.: *See*—
- Legge, Walter G. 2,933,651.
- Leggett, Archie L. Jet propelled aircraft. 2,947,496, 8-2-60, Cl. 244—12.
- Leggett & Platt, Inc.: *See*—
- Kirchner, Carl O. 2,937,688.
- Leggin, Basil W.: *See*—
- Gustafson, Wayne, and Leggin. 2,929,254.
- Leghorn, Kenneth M., and J. B. Meister, to American Can Co. Process and apparatus for the manufacture of hollow articles. 2,928,120, 3-15-60, Cl. 18—5.
- Lego, John H., to International Business Machines Corp. Method for assembly of printing apparatus. 2,935,018, 5-3-60, Cl. 101—109.
- Le Goff, George V.: *See*—
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- Le Goff, Loman H. Bowling bags. 2,922,453, 1-26-60, Cl. 150—52.
- Legrand, Jacques: *See*—
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- Le Grand, Jesse S., and R. H. Myers, to International Telephone and Telegraph Corp. Sampling and correcting system. 2,952,016, 9-6-60, Cl. 343—102.
- Legrand, Roger, to Holding Electrosonic S.A. Ultra-sonic apparatus for the detection of defects in railway rails. 2,951,365, 9-6-60, Cl. 73—67.8.
- Le Grand, Theodorius: *See*—
- Van Vessem, Jan C., and Le Grand. 2,948,050.
- Legros, Jean-Pierre: *See*—
- Lucien, Rene, and Legros. 2,922,311.
- Legue, Norris R.: *See*—
- Gallant, Melvin M., and Legue. 2,946,759.
- Lehberger, Arthur N. Telephone dial illuminator. 2,937,263, 5-17-60, Cl. 240—2.17.
- Lehberger, Arthur N. Rotary reaction engine. 2,937,492, 5-24-60, Cl. 60—35.6.
- Lehde, Henry C. Combined magnetic clutch and brake mechanism. 2,948,371, 8-9-60, Cl. 192—12.
- Lehigh Inc.: *See*—
- Linker, Edward A. 2,924,035.
- Lehikoinen, Urho A.: *See*—
- Odenweller, Joseph D., and Lehikoinen. 2,942,040.
- Le Hir, Alain: *See*—
- Janot, Maurice-Marie, Goutarel, and Le Hir. 2,959,592.
- Lehman, Don F., to Industrial Nucleonics Corp. Shutter system. 2,932,744, 4-12-60, Cl. 250—105.
- Lehman, Don F., to Industrial Nucleonics Corp. Self-aligning truck assembly. 2,933,326, 4-19-60, Cl. 280—47.13.
- Lehman, Eugene J., to McGraw-Edison Co. Fixed bird proof gap. 2,956,197, 10-11-60, Cl. 313—325.
- Lehman, Francis H. Hands-free telephone support. 2,952,739, 9-13-60, Cl. 179—1.
- Lehman, Freeman R., L. H. Silvernail, and E. K. Stilbert, to The Dow Chemical Co. Sizing of paper with acrylamide polymers. 2,945,775, 7-19-60, Cl. 117—155.
- Lehman, Harry W.: *See*—
- Broadhead, Samuel L., Jr., and Lehman. 2,929,251.
- Lehman, Harry W., to Collins Radio Co. Coupling mechanism. 2,965,400, 12-20-60, Cl. 287—130.
- Lehman, Herbert A., to Barber-Greene Co. Torque arm conveyor drive. 2,953,241, 9-20-60, Cl. 198—203.
- Lehman, John F., to J. F. Lehman, Jr., L. Bryant, M. Lehman, I. Barnes, M. Brindley, L. McSwain, L. B. Lehman, and said J. F. Lehman. Pneumatic doffer and cleaner for card machine. 2,935,766, 5-10-60, Cl. 19—106.
- Lehman, John F., Jr.: *See*—
- Lehman, John F. 2,935,766.
- Lehman, Lucy B.: *See*—
- Lehman, John F. 2,935,766.
- Lehman, Maud: *See*—
- Lehman, John F. 2,935,766.
- Lehman, Samuel K., and V. B. Silber. Pilot operated valve assembly. 2,935,086, 5-3-60, Cl. 137—599.1.
- Lehmann, Alfred: *See*—
- Kowatschitsch, Josef, and Lehmann. 2,960,672.
- Lehmann, Erich, H. Kleiner, and H. Manderla, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of oxidation dyes or prints, and compositions. 2,926,060, 2-23-60, Cl. 8—31.
- Lehmann, Guenther W. Fishing vessels. 2,960,955, 11-22-60, Cl. 114—5.
- Lehmann, Heinz, to VEB Traktorenwerk Schonebeck. Adjustable mudguard. 2,947,375, 8-2-60, Cl. 180—75.
- Lehmann, Herbert G.: *See*—
- Fenn, Lawrence E., and Lehmann. 2,921,183.



- Lehmann, Karl F., and S. G. Lindstrom, to American Can Co. Method of and apparatus for heating tie rods. 2,923,805, 2-2-60, Cl. 219-50.
- Lehmann, Rene L., B. J. Petusseau, and C. P. Pinazzi, to Nobel Bozel (Societe Anonyme). Preparation of rubber-protein-glyoxal composition and vulcanizable material obtained therefrom. 2,931,845, 4-5-60, Cl. 260-747.
- Lehmann, Willi, to Westinghouse Electric Corp. Area-type light source. 2,924,732, 2-9-60, Cl. 313-108.
- Lehmann, Willi, to Westinghouse Electric Corp. Method of preparing three-color electroluminescent phosphor. 2,937,150, 5-17-60, Cl. 252-301.6.
- Lehmberg, Alfred B., Jr., to Schlumberger Well Surveying Corp. Borehole investigation apparatus. 2,964,698, 12-13-60, Cl. 324-10.
- Lehmick, David J., to E. I. du Pont de Nemours and Co. Process of melt spinning. 2,945,739, 7-19-60, Cl. 18-54.
- Lehmkuhl, Hans-Herbert: *See—*
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- Lehn, John U., to Animal Trap Co. of America. Animal traps. 2,947,107, 8-2-60, Cl. 43-92.
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- Lehner, William L.: *See—*
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- Lehner, William L., to Sylvania Electric Products Inc. Electrical device mounting. 2,966,618, 12-27-60, Cl. 317-101.
- Lehner, William L., and C. F. Carlzen, to Sylvania Electric Products Inc. Socket package. 2,949,184, 8-16-60, Cl. 206-65.
- Lehner, William L., and M. L. Lincoln. Archery carrying case. 2,964,166, 12-13-60, Cl. 206-1.
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- Smyth, Donald M., and Lehovec. 2,953,620.
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- Lehovec, Kurt, to Sprague Electric Co. Batteryless radiation indicator. 2,942,110, 6-21-60, Cl. 250-83.3.
- Lehovec, Kurt, to Sprague Electric Co. Semi-conductor resistors. 2,953,759, 9-20-60, Cl. 338-8.
- Lehovec, Kurt, and D. M. Smyth, to Sprague Electric Co. Solid electrolyte battery cell. 2,954,417, 9-27-60, Cl. 136-13.
- Lehr, Carlton G., to United States of America, Air Force. Magnetron tuning. 2,934,675, 4-26-60, Cl. 315-39.61.
- Lehr, Philip N., to Dictograph Products Co., Inc. Electrical security cable. 2,922,835, 1-26-60, Cl. 174-105.
- Lehr, Philip N., and G. Carlson, to Dictograph Products Co., Inc. Miniature plug receptacle. 2,964,725, 12-13-60, Cl. 339-59.
- Lehre, Otto, to Sterling Plastics Co. Moistener. 2,924,837, 2-16-60, Cl. 15-136.
- Lehrer, Erwin: *See—*
- Altstaedt, Werner, Lehrer, and Schierwater. 2,966,533.
- Lehrer, Stanley: *See—*
- Kircher, Haetman J., and Lehrer. 2,928,236.
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- Lehrian, William R.: *See—*
- Eld, Aksel C., and Lehrian. 2,959,404.
- Goldthwait, Richard G., and Lehrian. 2,944,958.
- Lehrian, William R., to Gulf Research & Development Co. Chemical process. 2,953,523, 9-20-60, Cl. 208-242.
- Lehrman, David: *See—*
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- Portner, Albert S. 2,964,199.
- Lehtonen, Eino W., to Sperry Rand Corp. Push-pull magnetic amplifiers. 2,938,157, 5-24-60, Cl. 323-89.
- Lehtonen, Eino W., to Sperry Rand Corp. Single-ended magnetic amplifiers. 2,938,158, 5-24-60, Cl. 323-89.
- Lehv, Maurice L. Cigarette snuffer. 2,965,107, 12-20-60, Cl. 131-256.
- Leibach, Heinrich, to BMW Triebwerksbau Gesellschaft mit beschränkter Haftung. Gas turbine. 2,924,937, 2-16-60, Cl. 60-39.36.
- Leibing, William E. Fuel control mechanism. 2,939,444, 6-7-60, Cl. 123-97.
- Leibing, William E., and G. H. Powell. Deceleration controlled fuel shut-off means. 2,933,168, 4-19-60, Cl. 192-84.
- Leich Electric Co.: *See—*
- Boswau, Hans P. 2,921,986.
- Evers, Harry G. 2,921,983.
- Leich, Karl, and E. Menge, to Brunsviga Maschinenwerke A.G. Calculating machines. 2,954,924, 10-4-60, Cl. 235-63.
- Leichenich, Hans J., and W. Abendroth, to Nieher Maschinenfabrik. Bottle packing machine. 2,952,955, 9-20-60, Cl. 53-61.
- Leifer, Lorenz A., to Gisholt Machine Co. Two-jaw indexing chuck. 2,948,542, 8-9-60, Cl. 279-5.
- Leifer, Lorenz A., to Gisholt Machine Co. Automatic ram-type turret lathe. 2,952,168, 9-13-60, Cl. 74-818.
- Leifer, Meyer: *See—*
- Harris, Hunter C., Jr., Leifer, and Cawood. 2,941,202.
- Leigh, John S.: *See—*
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- Leighton, Henry B. Bilingual communicator. 2,950,544, 8-30-60, Cl. 35-35.
- Leighton, Leroy G., to General Electric Co. Incandescent lamp with blackening collector screen. 2,933,632, 4-19-60, Cl. 313-222.
- Leijon, Gunnar: *See—*
- Thelander, John, Leijon, Westergren, and Akesson. 2,931,325.
- Leijon, Tage: *See—*
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- Leilich, Hans-Otto G., to Stifterverband für die deutsche Wissenschaft e.V. Magnetic heads for recording and reproducing signals. 2,939,920, 6-7-60, Cl. 179-100.2.
- Leimbacher, Erwin, to Heberlein Patent Corp. Porous fabrics and methods for producing the same. 2,963,381, 12-6-60, Cl. 117-7.
- Leimenstoll, Fritz, to Kienzle Uhrenfabriken A.G. Drive arrangement for self-winding time-piece. 2,953,041, 9-20-60, Cl. 74-812.
- Leimer, Albert, and L. Schmid, to R. Hopkins. Door opening device. 2,924,449, 2-9-60, Cl. 268-65.
- Leimer, Albert, and K. Aumüller. Automatic operating device for doors, gates and like swingable elements. 2,947,534, 8-2-60, Cl. 268-65.
- Leimer, Albert, and L. Zerle. Control system for the contactless scanning of textile webs and like sheet material. 2,962,596, 11-29-60, Cl. 250-219.
- Leimer, Albert, and L. Zerle. Method and apparatus for inspecting the structure of fabrics. 2,966,593, 12-27-60, Cl. 250-219.
- Leimer, John J.: *See—*
- Greanias, Evon C., Hamburg, and Leimer. 2,959,769.
- Lein, Joseph: *See—*
- Cheney, Lee C., and Lein. 2,956,930.
- Leinbach, Walter J.: *See—*
- Leinbach, Walter J., Pugh, and Leinbach. 2,962,301.
- Leinbach, Walter J., deceased; R. Pugh, to Universal Stabilizer, Inc. Tractor-semi-trailer combination. 2,962,301, 11-29-60, Cl. 280-432.
- Leiner, Howard H., and C. P. West, to Union Carbide Corp. Adhesive compositions. 2,958,605, 11-1-60, Cl. 106-125.
- Leineweber, William F., Jr., and J. C. Whitehurst, to James Hunter Inc. Bale opening method and apparatus. 2,938,239, 5-31-60, Cl. 19-80.
- Leinhose, Wolfgang: *See—*
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- Leinkram, Charles Z., to Tung-Sol Electric Inc. Method of forming a seal for tubular glass enclosures. 2,955,386, 10-11-60, Cl. 49-81.
- Leins, Oscar J., to Minnesota Mining and Mfg. Co. Thermostatic control device. 2,936,125, 5-10-60, Cl. 236-68.
- Leinweber, Franz. Fruit stemmer. 2,966,185, 12-27-60, Cl. 146-55.
- Leipen, Franz, to W. A. Cleary Corp. Tinting paste vehicles and use of same. 2,963,380, 12-6-60, Cl. 106-311.
- Leipert, Edward. Marine propulsion steering stabilizing structure. 2,920,599, 1-12-60, Cl. 115-35.
- Leipert, Edward. Vibration absorbing assembly for marine engines. 2,936,591, 5-17-60, Cl. 60-97.
- Leipert, Edward. Tiltable and steerable marine propeller unit. 2,946,306, 7-26-60, Cl. 115-35.
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- Leipertz, Robert J.: *See—*
- Fritzen, Thomas L., Leipertz, and McLean. 2,955,886.
- Leira, Alberto R., and V. H. Sanin Cabo. Tooth-brushes and the like. 2,935,755, 5-10-60, Cl. 15-167.
- Leis, Anthony F.: *See—*
- Pokorny, Louis, and Leis. 2,946,546.
- Leis, Arthur F.: *See—*
- Mayne, Robert A., and Leis. 2,950,933.
- Leis, Donald G., and E. C. Stout, to Union Carbide Corp. Stabilization of polyoxyalkylene compounds. 2,942,033, 6-21-60, Cl. 260-611.5.
- Leischer, Wesley R. Boom angle indicator for excavating machines. 2,941,496, 6-21-60, Cl. 116-124.
- Leisey, Frank A., to Standard Oil Co. Automatic apparatus for mercaptan titration. 2,928,774, 3-15-60, Cl. 204-1.
- Leisey, Frank A., to Standard Oil Co. Amperometric-coulometric titration systems. 2,928,775, 3-15-60, Cl. 204-1.
- Leisey, Frank A., to Standard Oil Co. Automatic titrator. 2,928,782, 3-15-60, Cl. 204-195.
- Leishman, LeRoy J.: *See—*
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- Yerkovich, Simon. 2,939,957.
- Leishman, LeRoy J. Track followers for X-ray spot film devices. 2,927,211, 3-1-60, Cl. 250-66.
- Leissner, William R., to Dynex, Inc. Hydraulic pump. 2,945,444, 7-19-60, Cl. 103-2.
- Leist, George G.: *See—*
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- Leist, Karl. Tube arrangement. 2,931,887, 4-5-60, Cl. 219-107.
- Leist, Leland E. Hacksaw. 2,920,668, 1-12-60, Cl. 145-31.
- Leistensnider, George P., to Johns-Manville Corp. Method for making O-ring gaskets. 2,945,263, 7-19-60, Cl. 18-55.
- Leistner, William E., and O. H. Knoepke, to Argus Chemical Corp. Polyvinyl chloride resin compositions comprising a polyvinyl chloride resin, a polyvinyl chloride resin plasticizer, and an alkyl phenol ester. 2,920,055, 1-5-60, Cl. 260-31.2.
- Leistritz, Hans C. Pressure converters for noise-generating gases. 2,926,745, 3-1-60, Cl. 181-56.
- Leistritz, Hans K. Induction silencers for internal combustion engine carburetors. 2,955,671, 10-11-60, Cl. 181-48.



- Leitch, John D., to Square D Co. Electromagnet. 2,921,242, 1-12-60, Cl. 317-158.
- Leitchner, Edward. Adjustable gauges for a saw table. 2,954,082, 9-27-60, Cl. 143-169.
- Leitchner, Edward. Treadle-operated under-table traveling saw. 2,956,597, 10-18-60, Cl. 143-47.
- Leiter, Howard A., to Westinghouse Electric Corp. Image converter. 2,929,868, 3-22-60, Cl. 178-6.8.
- Leithausser, Gene L., to General Motors Corp. Method of removing organic surface coatings. 2,937,111, 5-17-60, Cl. 134-38.
- Leitner, Alfred, to Maschinenfabrik Augsburg-Nurnberg, A.G. High temperature turbine. 2,937,848, 5-24-60, Cl. 253-69.
- Leitner, George J., to Heyden Newport Chemical Corp. Solubilized metal salts of N-nitroso N-arylhydroxylamines. 2,951,008, 8-30-60, Cl. 167-30.
- Leitner, Murray I., and J. Traksel, to Lockheed Aircraft Corp. Engine exhaust apparatus. 2,958,188, 11-1-60, Cl. 60-35.6.
- Leitz, Ernst, G.m.b.H.: See—
- Bartz, Gunter E., and Bill. 2,928,943.
- Broschke, Heinrich. 2,925,760.
- Feindler, Ernst. 2,949,817.
- Hock, Fromund. 2,939,361.
- Horn, Willi. 2,950,649.
- Klein, Walter. 2,950,650.
- Klemann, Heinrich, and Klein. 2,964,996.
- Letiz, Ludwig. 2,953,981.
- Leitz, Ludwig. 2,955,507.
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- Leitz, Ludwig, and Mulch. 2,953,966.
- Luz, Christian. 2,955,511.
- Rinker, Wilhelm. 2,960,775.
- Stodiek, Wolfgang. 2,962,929.
- Leitz, Ernst, Canada Ltd., Optical Works; See—
- Staubach, Heinrich. 2,942,346.
- Leitz, Ludwig, to Ernst Leitz, G.m.b.H. Camera having built-in telemeter. 2,953,981, 9-27-60, Cl. 95-44.
- Leitz, Ludwig, to Ernst Leitz, G.m.b.H. Focussing plate for optical instruments. 2,955,507, 10-11-60, Cl. 88-1.
- Leitz, Ludwig, to E. Leitz, G.m.b.H. Range finder. 2,960,907, 11-22-60, Cl. 88-2.7.
- Leitz, Ludwig, and H. Mulch, to Ernst Leitz, G.m.b.H. Slide changer for picture projection apparatus. 2,953,966, 9-27-60, Cl. 88-28.
- Leitz, Theodor W.: See—
- Engel, Willy, Breuninger, and Leitz. 2,919,751.
- Leitzel, Ammon M., to Diamond National Corp. Apparatus for molding pulp articles having apertures formed thereon. 2,923,352, 2-2-60, Cl. 162-383.
- Leja, Casimir E. Resilient supports. Re. 24,911, 12-20-60, Cl. 155-5.17.
- Lejeune, Emile J. A. Machine for producing paper-pulp and like substances. 2,919,863, 1-5-60, Cl. 241-68.
- Lejk, Joseph R., to The Trane Co. Refrigeration machine. 2,942,436, 6-28-60, Cl. 62-297.
- Lekas, John P.: See—
- Ashby, Robert M., Lekas, Veenhuyzen, and Pollack. 2,928,084.
- Lekmann, J. M., Co., Inc.: See—
- Freytag, Donald R. 2,929,091.
- Leland, Frank G., to General Motors Corp. Blade fastenings. 2,953,348, 9-20-60, Cl. 253-77.
- Leland, Frank G., to General Motors Corp. Snap ring locking device. 2,960,359, 11-15-60, Cl. 287-53.
- Leland, Gerald H., and R. W. Biser, to Leduc, Inc. Rotary stepping motor. 2,959,969, 11-15-60, Cl. 74-88.
- Leland, Marshall B., to The Babcock & Wilcox Co. Heat exchange system. 2,926,143, 2-23-60, Cl. 252-417.
- Leland Stanford Jr. University, The Board of Trustees of the: See—
- Ginzton, Edward L. 2,920,228.
- Leland, Wallace T., to United States of America, Atomic Energy Commission. Ion source. 2,920,200, 1-5-60, Cl. 250-41.9.
- Lelanite Corp.: See—
- Perry, Arthur G., and Gilfix. 2,922,559.
- Lellaert, Raymond M., to Wheelabrator Corp. Blast finishing machine. 2,924,911, 2-16-60, Cl. 51-9.
- Lem, Robert F. A., to Curtiss-Wright Corp. Aircraft training apparatus for simulating the turbine system of turbo-propeller aircraft. 2,940,181, 6-14-60, Cl. 35-12.
- Lemaigre-Voreaux, Pierre, to Societe Anonyme pour les Applications de l'Electricite et des gaz Rares-Etablissements Claude-Paz & Silva. Cold and hollow electrode. 2,943,226, 6-28-60, Cl. 313-352.
- Leman, Hugh S., to International Standard Electric Corp. Telephone subscriber's instruments. 2,950,351, 8-23-60, Cl. 179-81.
- Le Mat, Lee E., and R. T. Sullivan. Leak testing system. 2,936,611, 5-17-60, Cl. 73-49.2.
- Le May, Charlotte Z., to Texas Instruments Inc. Method of making ohmic connections to semiconductor devices. 2,937,439, 5-24-60, Cl. 29-492.
- Le May, Christopher A. G.: See—
- Dudman, Sidney C., Le May, Spencer, and Stephenson. 2,928,604.
- Le May, Christopher A. G., and G. H. Stephenson, to Electric & Musical Industries Ltd. Automatic control systems, especially for automatic machine tools. 2,949,600, 8-16-60, Cl. 340-166.
- Le May, Dan B.: See—
- Crawford, James V., Fischer, and Le May. 2,935,084.
- Le May, Edwin P. Outrigger and stern line holding and releasing devices. 2,958,973, 11-8-60, Cl. 43-43.12.
- Le May, Edwin P. Fishing line releases for attachment to fishing boats. 2,959,884, 11-15-60, Cl. 43-43.12.
- Lemelson, Jerome H. Plastic toys. 2,939,707, 6-7-60, Cl. 273-105.
- Lemelson, Jerome H. Reflective display device. 2,951,419, 9-6-60, Cl. 88-82.
- Lemelson, Jerome H. Magnetic recording. 2,959,636, 11-8-60, Cl. 178-6.6.
- Lemelson, Jerome H. Toy gun containing ricochet noise mechanism. 2,962,837, 12-6-60, Cl. 46-175.
- Lemforder Metallwaren, G.m.b.H.: See—
- Jackel, Fritz. 2,921,449.
- Jackel, Fritz. 2,955,481.
- Lemin, Denis R.: See—
- Hadfield, Harry R., Batterbee, and Lemin. 2,950,165.
- Lemisza, Theodore: See—
- Cottle, Delmer L., Minckler, and Lemisza. 2,962,482.
- Eby, Lawrence T., Cottle, and Lemisza. 2,958,667.
- Kirshenbaum, Isidor, Lemisza, and Johnson. 2,921,949.
- Minckler, Leon S., Jr., Cottle, and Lemisza. 2,965,600.
- Serniuk, George E., Cottle, and Lemisza. 2,965,620.
- Serniuk, George E., Cottle, and Lemisza. 2,965,621.
- Lemisza, Theodore, S. B. Mirviss, and I. Kirshenbaum, to Esso Research and Engineering Co. Method of preparing high molecular weight linear hydrocarbon polymers. 2,948,713, 8-9-60, Cl. 260-94.9.
- Lemke, Charles B. Combination paint brush scraper and shaper. 2,919,828, 1-5-60, Cl. 220-90.
- Lemke, Frank C. Combination screw driver and wire applicator tool. 2,937,669, 5-24-60, Cl. 140-124.
- Lemke, Warren A., to International Paper Co. Adhesive comprising dried sulphite waste material, polyacrylamide, filler and alkaline material. 2,923,693, 2-2-60, Cl. 260-17.5.
- Lemm, Frederick L., and R. H. Jewens, to Information Systems, Inc. Alarm system. 2,947,980, 8-2-60, Cl. 340-213.
- Lemmens, Hendrikus J., M. J. Jansen, P. W. Haayman, W. F. Knippenberg, and P. C. van der Linden, to North American Phillips Co., Inc. Thermionic cathode. 2,925,514, 2-16-60, Cl. 313-346.1.
- Lemmerman, C. W., Inc.: See—
- Lemmerman, Carl W. 2,965,190.
- Lemmerman, Carl W., to C. W. Lemmerman, Inc. Jet engine muffler. 2,965,190, 12-20-60, Cl. 181-35.
- Lemmerman, Harold H. P.: See—
- Crocker, Weyman S., and Lemmerman. 2,932,751.
- Lemmerman, Harold H. P., to General Electric Co. Multiple collector ring assembly. 2,931,999, 4-5-60, Cl. 339-5.
- Lemmerman, Harold H. P., to General Electric Co. Position indicating device. 2,965,763, 12-20-60, Cl. 250-203.
- Lemmerman, Harold H. P., and W. S. Crocker, to General Electric Co. Thermocouple temperature monitor. 2,935,677, 5-3-60, Cl. 322-2.
- Lemmerman, Harold H. P., and W. S. Crocker, to General Electric Co. Voltage reference source. 2,945,173, 7-12-60, Cl. 322-2.
- Lemmerman, Richard D., to Koppers Co., Inc. Sound attenuating device. 2,956,637, 10-18-60, Cl. 181-35.
- Lemmers, Eugene, to General Electric Co. Low-pressure discharge lamp. 2,961,565, 11-22-60, Cl. 313-185.
- Lemmers, Eugene, to General Electric Co. Vapor pressure control in discharge lamps. 2,965,789, 12-20-60, Cl. 313-204.
- Lemmers, Eugene, and J. O. Aicher, to General Electric Co. Multiple groove discharge lamp. 2,950,410, 8-23-60, Cl. 313-109.
- Lemmerz, Paul, to Firma Lemmerz-Werke G.m.b.H. Apparatus for manufacturing wheel rims for road vehicles. 2,944,502, 7-12-60, Cl. 113-49.
- Lemmetty, Matti S. Adjustable hydraulic transmission having clutches for reversing and free movement. 2,938,397, 5-31-60, Cl. 74-330.
- Lemmler, Willard A.: See—
- Gowan, Willard E. 2,928,692.
- Lemmon, Walter S.: See—
- MacAdam, Mark L., Lemmon, and Stefanowicz. 2,935,565.
- Lemmond, Everett C. Product lift elevator. 2,933,186, 4-19-60, Cl. 209-248.
- Lemon, Cecil G., to Unipak Carton Ltd. Cartons. 2,924,370, 2-9-60, Cl. 229-28.
- Lemon, Charles R.: See—
- Bogese, Stephen B., Lemon, and Stoner. 2,945,081.
- Lemon, Lloyd C., to United States of America, Atomic Energy Commission. Method for joining aluminum to stainless steel. 2,937,438, 5-24-60, Cl. 29-488.
- Lemont, Harold E., Jr.: See—
- Wilford, Edward B., and Lemont. 2,961,051.
- Lemont, Harold E., Jr., to Boeing Airplane Co. Rotor blade flapping control mechanism. 2,946,391, 7-26-60, Cl. 170-160.55.
- Lemont, Harold E., Jr., to Boeing Airplane Co. Rotor blade folding mechanism. 2,950,767, 8-30-60, Cl. 170-160.12.
- Lempeo Products, Inc.: See—
- Strnad, James J. 2,961,806.
- Lempert, Joseph, to Westinghouse Electric Corp. Image amplifier. 2,929,935, 3-22-60, Cl. 250-213.



- Lempert, Joseph, to Westinghouse Electric Corp. Photomultiplier design having high response to X-rays. 2,953,703, 9-20-60, Cl. 313-94.
- Lems, Hendrik, to North American Philips Co., Inc. Device for decanting a liquid from hollow objects. 2,931,527, 4-5-60, Cl. 214-318.
- Lemson, Jack, to Texas Instruments Inc. Method and apparatus for locating the base section of a transistor bar. 2,951,204, 8-30-60, Cl. 324-158.
- Lemson, Jack, and W. C. Brower, to Texas Instruments Inc. Transistor testing. 2,953,748, 9-20-60, Cl. 324-158.
- Lemuelson, Jerome H. Illuminated highway marker. 2,949,531, 8-16-60, Cl. 240-81.
- Lender, Chester A.: *See*—  
Slick, Fred S. 2,945,430.
- Lenders, Wilhelmus L. L.: *See*—  
Van der Hoek, Willem, and Lenders. 2,930,014.
- Lenahan, Bernard E., to Westinghouse Electric Corp. Adjustable meter socket. 2,924,805, 2-9-60, Cl. 339-31.
- Lenahan, Bernard E., and V. S. Thomander, to Westinghouse Electric Corp. Electrical measuring instrument. 2,933,686, 4-19-60, Cl. 324-147.
- Lenel, Fritz V., to American Metal Climax, Inc. Process for making metal strip from metal powder. 2,937,942, 5-24-60, Cl. 75-214.
- Lenet, Sidney. Spring lift. 2,928,669, 3-15-60, Cl. 267-48.
- Lenet, Sidney. Auxiliary spring attachment. 2,951,696, 9-6-60, Cl. 267-45.
- Lengsfeld Brothers, Inc.: *See*—  
Anness, Russell W. 2,939,258.  
Fielding, Francis W. 2,928,541.
- Lenhard, Robert H.: *See*—  
Bernstein, Seymour, Garbarini, Lenhard, and Smith. 2,938,917.  
Bernstein, Seymour, and Lenhard. 2,951,084.  
Bernstein, Seymour, Lenhard, and Allen. 2,943,098.
- Lenhardt, Heinrich. Frame corner structures. 2,962,134, 11-29-60, Cl. 189-36.
- Lenhart, Henry. Slate trimmer. 2,950,710, 8-30-60, Cl. 125-23.
- Lenhart, Robert E., to The Beryllium Corp. Method and apparatus for making isotropic propertied beryllium sheet. 2,943,933, 7-5-60, Cl. 75-214.
- Lenk, Herbert H., to Avco Mfg. Corp. Squelch circuit with regeneration in noise amplifier. 2,930,890, 3-29-60, Cl. 250-20.
- Lenk, Walter, to Barmer Maschinenfabrik Aktiengesellschaft. Method and apparatus for winding a plurality of threads. 2,945,636, 7-19-60, Cl. 242-42.
- Lenk, Walter, and H. Lohest, to Barmer Maschinenfabrik Aktiengesellschaft. Twisting apparatus. 2,957,302, 10-25-60, Cl. 57-77.3.
- Lenk, Wilhelm, to Barmer Maschinenfabrik Aktiengesellschaft. Automatic stopping device for stopping thread twisting machines. 2,930,182, 3-29-60, Cl. 57-84.
- Lenkurt Electric Co., Inc.: *See*—  
Appert, Kurt E., and Erickson. 2,920,281.  
Boxall, Frank S. 2,960,660.  
Morrison, Jack R. 2,958,926.
- Lennan Lights, Inc.: *See*—  
Phillips, Eugene H. 2,934,954.
- Lennan, William M. Flashlight. 2,930,886, 3-29-60, Cl. 240-11.3.
- Lennartz, Walter. Plastic folders and like containers for flat articles. 2,946,363, 7-26-60, Cl. 150-1.
- Lennartz, Wilhelm: *See*—  
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- Lenney, Donat J. Method and means for sealing seams. 2,962,082, 11-29-60, Cl. 154-42.
- Lenney, Edwin J., to International Business Machines Corp. Spring clutch mechanism. 2,954,108, 9-27-60, Cl. 192-81.
- Lenning, Alvar. Electrically operated oscillatory compressors. 2,934,256, 4-26-60, Cl. 230-21.
- Lennon, Eric W., to Beckwith-Arden Inc. Process of making box toe stock. 2,959,510, 11-8-60, Cl. 154-102.
- Lennon, Kenneth A.: *See*—  
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- Lennon, Kenneth A. Means for demonstrating nuclear energy concepts. 2,920,401, 1-12-60, Cl. 35-18.
- Lennox Industries, Inc.: *See*—  
Bierwirth, Henry C., and Rutgers. 2,936,874.  
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Miller, Richard D. 2,958,755.
- Lennox-Napier, Richard: *See*—  
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- Lennox, Thomas H. Heating device. 2,959,756, 11-8-60, Cl. 338-243.
- Lennox, Thomas H., and A. J. Aloï, to General Electric Co. Electrical resistance heater. 2,942,223, 6-21-60, Cl. 338-246.
- Leno, John A., and A. M. Searle, to International Standard Electric Corp. Printed electrical circuits. 2,943,966, 7-5-60, Cl. 154-80.
- Lenslite Co., Inc.: *See*—  
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- Lent, Constantin P. Ribbon parachute and automatic release means therefor. 2,940,703, 6-14-60, Cl. 244-147.
- Lent, Robert R., to Statham Instruments, Inc. Strain gage load cell. 2,920,299, 1-5-60, Cl. 338-4.
- Lentz, Arthur. Vehicle spring-away garment hanger hook. 2,947,457, 8-2-60, Cl. 224-29.
- Lentz, Guy E.: *See*—  
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- Lentz, John J., to International Business Machines Corp. Superconductor circuits. 2,962,681, 11-29-60, Cl. 338-32.
- Lentz, John J., to International Business Machines Corp. Shielded superconductor circuits. 2,966,647, 12-27-60, Cl. 338-32.
- Lentz, John J., R. L. Bennett, and W. J. Eckert, to International Business Machines Corp. Electronic devices for locating and measuring indicia. 2,922,332, 1-26-60, Cl. 88-14.
- Lentz, John J., J. H. Palmer, and D. Robbins, to International Business Machines Corp. Electronic calculator. 2,947,478, 8-2-60, Cl. 235-160.
- Lentz, John J., and J. H. Palmer, to International Business Machines Corp. Electrical encoding and decoding switching apparatus. 2,958,859, 11-1-60, Cl. 340-347.
- Lenz, George W., Jr. Sink rim guard formed of sheet metal. 2,961,663, 11-29-60, Cl. 4-187.
- Leo, Albert J., to National Pectin Products Co. Process for rendering locust bean gum cold-water soluble. 2,949,428, 8-16-60, Cl. 252-363.5.
- Leo, Per Gunnar, to Hyresgasternas Sparkasse-och Byggnads-föreningars Riksförbund upa, and I. F. Lundquist. Sawing of stone blocks. 2,951,475, 9-6-60, Cl. 125-16.
- Leoffler, S. G.: *See*—  
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- Leon, Edgar D. Bowling ball grip. 2,931,652, 4-5-60, Cl. 273-63.
- Leon, Edgar D. Constant velocity universal joint. 2,949,022, 8-16-60, Cl. 64-21.
- Leon, Raul H.: *See*—  
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- Leonard, Clarence E. Fish lure. 2,965,997, 12-27-60, Cl. 43-42.48.
- Leonard, Eugene, to Curtiss-Wright Corp. Stepwise tape transport mechanism. 2,955,821, 10-11-60, Cl. 271-2.4.
- Leonard, George H., to G. K. Cal, d.b.a. Calko Die Casting Co. Jalousie operator. 2,924,989, 2-16-60, Cl. 74-528.
- Leonard, George H. Time delay fuze for a mine. 2,953,991, 9-27-60, Cl. 102-75.
- Leonard, George H. Pressure gradient detector. 2,966,667, 12-27-60, Cl. 340-236.
- Leonard, Henry J., and G. J. Watt, to General Motors Corp. Accessory drive engine. 2,939,440, 6-7-60, Cl. 123-41.72.
- Leonard, James D.: *See*—  
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- Leonard, Kenneth R.: *See*—  
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- Leonard, Louis H., Jr., to Carrier Corp. Purging arrangements for absorption refrigeration systems. 2,940,273, 6-14-60, Cl. 62-85.
- Leonard, Louis H., Jr., to Carrier Corp. Absorption refrigeration systems and methods of operating the same. 2,959,931, 11-15-60, Cl. 62-101.
- Leonard, Louis H., Jr., to Carrier Corp. Purging arrangement for absorption refrigeration systems. 2,959,935, 11-15-60, Cl. 62-195.
- Leonard, R. B., Inc.: *See*—  
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- Leonard, Ralph S.: *See*—  
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- Leonard, Reid H., and C. Bordenca, to Heyden Newport Chemical Corp. Plasticized vinyl levulinate composition and method of making the same. 2,962,478, 11-29-60, Cl. 260-63.
- Leonard, Ted: *See*—  
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- Leonard, Verna M. Indicator and teaching device for keyboard instruments. 2,938,421, 5-31-60, Cl. 84-480.
- Leonard, William F.: *See*—  
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- Leonard, William F., to Clark Equipment Co. Power shifting mechanism. 2,926,539, 3-1-60, Cl. 74-364.
- Leonard, William F., and L. E. Henyon, to Clark Equipment Co. Power shifting mechanism. 2,926,635, 3-1-60, Cl. 121-41.
- Leonchick, Walter. Instrument rack assembly. 2,959,715, 11-8-60, Cl. 317-99.
- Leone, Henry A.: *See*—  
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- Leone, Joseph G., to Glass Containers Corp. Easily cleaned cigarette snuffer slot. 2,951,487, 9-6-60, Cl. 131-235.
- Leone, Salvatore J., and W. H. Colgate, Jr., to The New Haven Board & Carton Co. Cartons with replaceable end closures. 2,963,214, 12-6-60, Cl. 229-44.
- Leong, Chew H. Photographic cameras. 2,951,429, 9-6-60, Cl. 95-11.
- Leonhard, Werner: *See*—  
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- Leopold, Bengt: *See*—  
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- Leopold, Bengt, D. B. Mutton, and W. R. Saxton, to Canadian International Paper Co. Catalysts of the ageing of alkali cellulose. 2,928,824, 3-15-60, Cl. 260-217.
- Leopold, Bengt, D. B. Mutton, and W. R. Saxton, to Canadian International Paper Co. Catalysts of the ageing of alkali cellulose. 2,928,825, 3-15-60, Cl. 260-233.
- Leopold, Bengt, D. B. Mutton, and W. R. Saxton, to Canadian International Paper Co. Catalysts of the ageing of alkali cellulose. 2,928,826, 3-15-60, Cl. 260-233.



- Leopold, Wilbur R., and E. L. Towle, to Worthington Corp. Flow control means for a pumping station. 2,950,683, 8-30-60, Cl. 103-11.
- Le Page, Robert A.: *See*—  
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Vecchi, Alberto, and Melone. 2,931,809.  
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- Lepley, Allen E., to Thompson Ramo Wooldridge, Inc. Throttle configuration varying apparatus and control means therefor. 2,935,295, 5-3-60, Cl. 253-52.
- Le Poole, Jan B., to N.V. Optische Industrie "De Oude Delft." Electron-optical device. 2,950,405, 8-23-60, Cl. 313-65.
- Leppla, Paul W., to Great Lakes Carbon Corp. Mineral filter aid composition. 2,956,016, 10-11-60, Cl. 210-500.
- Leppla, Ralph J.: *See*—  
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- Lehrs, Alfred, to Compagnie Generale de Telegraphie Sans Fil. Ion source. 2,935,634, 5-3-60, Cl. 313-63.
- Lehrs, Alfred, to Compagnie Generale de Telegraphie Sans Fil. Velocity modulation tubes. 2,938,139, 5-24-60, Cl. 315-526.
- Lehrs, Alfred, to Compagnie Generale de Telegraphie Sans Fil. Ion sources using a high-frequency field. 2,946,919, 7-26-60, Cl. 315-39.
- Lerch, Loren W.: *See*—  
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- Lerch, Loren W., to Columbus McKinnon Chain Corp. Electric hoist capacitor mount. 2,940,721, 6-14-60, Cl. 248-316.
- Lerch, Robert L., to Armstrong Cork Co. Plastic asbestos tile containing rosin-ester modified phenol-formaldehyde resin and a vinyl resin. 2,926,150, 2-23-60, Cl. 260-19.
- Lerg, William A.: *See*—  
Fehlberg, Chester H., and Lerg. 2,919,760.
- Lerman, Monroe A. Means for increasing leverage in motor vehicle brake pedals. 2,931,246, 4-5-60, Cl. 74-516.
- Lerner, George: *See*—  
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- Lerner, Harold E.: *See*—  
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- Lerner, Harry H. Diaper covers or panties. 2,921,583, 1-19-60, Cl. 128-287.
- Lerner, Hershey, to Inventions Management Corp. Pneumatic tacker. 2,938,212, 5-31-60, Cl. 1-44.4.
- Lerner, Julius, to Sun Oil Co. Change speed unit. 2,964,960, 12-20-60, Cl. 74-353.
- Lerner, Louis L.: *See*—  
Cohen, Erwin M., and Lerner. 2,956,929.
- Lerner, Louis L., to The Gillette Co. Dispenser. 2,939,615, 6-7-60, Cl. 222-207.
- Lerner, Louis L., and A. Safianoff, to The Gillette Co. Eye drop dispenser. 2,920,624, 1-12-60, Cl. 128-233.
- Lerner, Louis L., and A. Safianoff, to The Gillette Co. Applicator for applying liquid to hair. 2,922,425, 1-26-60, Cl. 132-9.
- Lerner, Louis L., and A. Safianoff, to The Gillette Co. Liquid dispensing applicator. 2,954,574, 10-4-60, Cl. 15-138.
- Lerner, Louis L., H. E. Oberstar, and A. Safianoff, to The Gillette Co. Applicator. 2,964,770, 12-20-60, Cl. 15-136.
- Lerner, Lovie E. Bathing suit. 2,940,453, 6-14-60, Cl. 128-454.
- Lerner, Philip. Method of producing a partial vacuum package. 2,942,390, 6-28-60, Cl. 53-22.
- Le Rouzo, Pierre: *See*—  
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- LeRoy, Gene, to Haryo Co. Sight glass assembly. 2,942,469, 6-28-60, Cl. 73-334.
- Leroy, Marcellin. Method of and device for exciting and regulating alternators. 2,963,636, 12-6-60, Cl. 322-20.
- Leroy, René, to Dixi S.A. Mechanically operated time fuse for artillery ammunition. 2,939,394, 6-7-60, Cl. 102-83.
- Les Industries Musicales et Electriques Pathe Marconi: *See*—  
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- Les Laboratoires Francais de Chimiotherapie: *See*—  
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Najer, Henry, and Giudicelli. 2,963,485.  
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- Les Laboratoires Gobey: *See*—  
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- Les Usines de Melle (Societe Anonyme): *See*—  
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- Le Saint, Kenneth A.: *See*—  
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- Lesavoy, I. Lawrence. Towel dispensing apparatus. 2,957,636, 10-25-60, Cl. 242-55.53.
- Lesch, Hans, to Otto Hängel Junior G.m.b.H. Wrapping machines. 2,938,320, 5-31-60, Cl. 53-234.
- Lesch, Karl: *See*—  
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- Lescher, George W. Aerial spinning toy. 2,921,404, 1-19-60, Cl. 46-74.
- Leschot, Auguste: *See*—  
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- Lescroel, Yves C.: *See*—  
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- Lescroel, Yves C. E.: *See*—  
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- Lesh, John M. Apparatus for preventing infants from sliding out of highchairs. 2,934,135, 4-26-60, Cl. 155-189.
- Leshin, Joseph, to Calumet Mfg. Co., Inc. Container dispenser. 2,935,191, 5-3-60, Cl. 206-56.
- Leshin, Richard, and J. G. Lichty, to The Goodyear Tire & Rubber Co. Lubricating oil additives comprising mixtures of polyvalent metal dithiocarbamates. 2,947,695, 8-2-60, Cl. 252-33.6.
- Leshner, Ervin: *See*—  
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- Lesinski, Jeanne M., to Westinghouse Electric Corp. Water-tight bearing housing construction for dynamoelectric machines. 2,949,333, 8-16-60, Cl. 308-187.1.
- Lesley, Ralph, to Republic Aviation Corp. Dual wheel landing gear assembly. 2,935,278, 5-3-60, Cl. 244-103.
- Leslie, Donald J. Electrostatic musical tone generator system. 2,921,494, 1-19-60, Cl. 84-1.04.
- Leslie, Donald J. Cross-wired organ system and rectifier therefor. 2,949,803, 8-23-60, Cl. 84-1.11.
- Leslie, Eugene H. Process and apparatus for beneficiating mineral aggregates. 2,932,393, 4-12-60, Cl. 209-119.
- Leslie, James D.: *See*—  
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- Leslie, James D., and R. G. Steffes, to General Motors Corp. Closure latch. 2,926,943, 3-1-60, Cl. 292-53.
- Leslie, James D., and G. Rehkugler, to General Motors Corp. Vacuum operated seat back lock. 2,927,655, 3-8-60, Cl. 180-82.
- Leslie, James D., and H. J. Wubbe, to General Motors Corp. Door handle assembly. 2,937,045, 5-17-60, Cl. 292-336.3.
- Leslie, James D., J. C. Louton, Jr., and C. S. Semar, to General Motors Corp. Vehicle seat adjuster. 2,939,513, 6-7-60, Cl. 155-14.
- Leslie, James D., and G. Rehkugler, to General Motors Corp. Automobile door latch. 2,955,865, 10-11-60, Cl. 292-280.
- Leslie, Robert S., to Kenfield Corp. Bag filling apparatus with provision for predetermining package size. 2,932,139, 4-12-60, Cl. 53-188.
- Leslie, Robert W., and G. P. Jennings, to Phillips Petroleum Co. Method for removing grit from carbon black. 2,963,152, 12-6-60, Cl. 209-12.
- Lesnewich, Alexander: *See*—  
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- Lesnewich, Alexander, to Air Reduction Co. Inc. Gas shielded arc welding. 2,929,912, 3-22-60, Cl. 219-74.
- Lesnewich, Alexander, and E. H. Cushman, to Air Reduction Co., Inc. Electric arc welding. 2,932,722, 4-12-60, Cl. 219-74.
- Lesniak, Frank G., to Masonite Corp. Apparatus for disintegration of fibrous material. 2,961,041, 11-22-60, Cl. 162-247.
- Lesnor Maehr Marine Co., Inc.: *See*—  
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- L'Esperance, Raymond G.: *See*—  
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- Less, Albert J. Collar attachment. 2,941,211, 6-21-60, Cl. 2-132.
- Less, Frank W., J. C. Searer, and E. C. Roeck, to Hooker Chemical Corp. Process for coating particles with a thermosetting phenolic resin. 2,965,514, 12-20-60, Cl. 117-100.
- Lessig, Edward T., and M. W. Wilson, to The B. F. Goodrich Co. Nylon cord package and method of preparing the same. 2,964,262, 12-13-60, Cl. 242-173.
- Lessig, Roland: *See*—  
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- Lessin, Maurice. Private conference desks. 2,944,861, 7-12-60, Cl. 312-196.
- Lester, Burton R.: *See*—  
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- Lester, Ray F., to Crouse-Hinds Co. Traffic signal disconnecting hanger. 2,925,458, 2-16-60, Cl. 174-61.
- Lester, Ray V.: *See*—  
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- Lester, William N., and L. D. Shaw, to General Electric Co. Operating mechanism for an electric switch. 2,956,138, 10-11-60, Cl. 200-148.



- Lesti, Arnold, and A. R. Baechtel, to United States of America, Commerce. Analogue-digital converter. 2,945,220, 7-12-60, Cl. 340-347.
- Le Suer, William M.: *See—*  
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- Le Suer, William M., to The Lubrizol Corp. Carbonated basic barium phenate compositions. 2,959,551, 11-8-60, Cl. 252-42.7.
- Le Suer, William M., and C. W. Stuebe, to The Lubrizol Corp. Preparation of halogen-containing stilbenes and bibenzyls. 2,960,542, 11-15-60, Cl. 260-64.9.
- L'Etat Français, Societe d'Electrochimie, d'Electrometallurgie et des Acleries Electriques d'Ugine, and l'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procédes George Claude: *See—*  
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- Letbetter, Willie R. Game board device. 2,941,807, 6-21-60, Cl. 273-118.
- Leto, John P. Weather strip sealing means for door and like openings. 2,933,783, 4-26-60, Cl. 20-68.
- L'Etoile, Auguste. Shoe creeper. 2,920,403, 1-12-60, Cl. 36-61.
- LeTourneau, Robert G. Mobile sea platform. 2,924,077, 2-9-60, Cl. 61-46.5.
- LeTourneau, Robert G. Log handling machine. 2,939,596, 6-7-60, Cl. 214-65.4.
- LeTourneau, Robert G. Land clearing machine. 2,959,201, 11-8-60, Cl. 144-34.
- LeTourneau-Westinghouse Co.: *See—*  
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- Letsch, Raymond O. Filament storing and tensioning device. 2,955,774, 10-11-60, Cl. 242-129.8.
- Letterhead and Check Corp. of America: *See—*  
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- Letzerich, Hellmut, deceased; A. Hoersen, administrator, to Hemphill Co. Circular knitting machines. 2,939,302, 6-7-60, Cl. 66-43.
- Leuchs, Dieter: *See—*  
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- Leuenberger, Hans: *See—*  
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- Leum, Leonard N.: *See—*  
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- Leung, Kam F. Water skis. 2,959,795, 11-15-60, Cl. 9-310.
- Leupi, Robert, to Messen-Jaschin, G.A. Apparatus for removal of electrostatic charges from the surfaces of materials of low conductivity by means of a stabilized electrical glow-discharge. 2,951,968, 9-6-60, Cl. 315-5.
- Leupi, Robert, and J. Schedling, to G. A. Messen-Jaschin. Apparatus for the electric charging by means of radioactive preparations of matter suspended in a gas stream. 2,934,648, 4-26-60, Cl. 250-44.
- Leupold, Ernst O., and H. Zorn, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing vinyl-phosphonic-acid-bis-( $\beta$ -chloroethyl)-ester. 2,959,609, 11-8-60, Cl. 260-461.
- Leupold, Herbert: *See—*  
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- Leuschke, Siegfried, and R. Noack, to VEB Kamera-und Kinowerke Dresden. Photographic objective lens shutter. 2,953,076, 9-20-60, Cl. 95-63.
- Leutert, Fritz: *See—*  
Kunzer, Werner, and Leutert. 2,950,180.
- Louthauer, Gustav. Multi-floor baking oven with movable supports for the goods to be baked. 2,932,263, 4-12-60, Cl. 107-56.
- Louthesser, Frederick W., to American Radiator & Standard Sanitary Corp. Mixing faucet. 2,939,484, 6-7-60, Cl. 137-63.5.
- Louthold, Edgar J., to Curtiss-Wright Corp. Simulated aircraft control loading apparatus. 2,937,458, 5-24-60, Cl. 35-12.
- Leutner, Frederick S.: *See—*  
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- Le Van, Ambrose E., to American Machine and Metals, Inc. Instrument connections. 2,940,704, 6-14-60, Cl. 244-150.
- Springs. 2,932,503, 4-12-60, Cl. 267-1.
- Levasheff, Vladimir V.: *See—*  
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- Levesque, Marcel, and P. Plot, to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Crey. Method of and apparatus for producing fibers from thermoplastic material. 2,964,786, 12-20-60, Cl. 18-2.5.
- Level, Bertrand P. E. Circuit-breaker, and especially a combined circuit-breaker isolating-switch device. 2,943,173, 6-28-60, Cl. 200-150.
- Levell, Derek A.: *See—*  
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- Levell, Derek A., to A. C. Cossor Ltd. Ground aerial arrangements for secondary radar. 2,931,029, 3-29-60, Cl. 343-6.5.
- Level-Line Ceilings Inc.: *See—*  
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- Leven, Samuel, to Joy Mfg. Co. Chuck mechanism for drill pipe. 2,939,197, 6-7-60, Cl. 24-26.3.
- Levendoski, Alfred E., to American Machine and Foundry Co. Bowling ball handling and return mechanism. 2,964,318, 12-13-60, Cl. 273-49.
- Levene, Martin L., to Radio Corp. of America. Electrical connecting device. 2,949,596, 8-16-60, Cl. 339-2.
- Levenson, Harold S.: *See—*  
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- Levenson, Milton, to United States of America, Atomic Energy Commission. Cave window. 2,957,210, 10-25-60, Cl. 20-40.
- Levenson, Sol J. Nut splitter. 2,956,340, 10-18-60, Cl. 30-27.2.
- Levenstein, Stanley, and L. Soloway. Seam inverting machine for overlock stitched seam. 2,957,437, 10-25-60, Cl. 112-20.3.
- Levensteins, Aleksandrs V., and W. B. Thompson, to General Motors Corp. Fluid power steering. 2,936,739, 5-17-60, Cl. 121-41.
- Lever Bros. Co.: *See—*  
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Steenhuis, Theodor L. A. M. 2,928,173.  
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Von Mikusch-Buchberg, Johannes D., and Mebes. 2,923,719.  
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- Levering, Dewey R., and L. G. Maury, to Hercules Powder Co. Preparation of nitrogen oxides. 2,935,480, 5-3-60, Cl. 252-186.
- Levertton, Walter F., to Raytheon Co. Crystal-growing apparatus and methods. 2,944,875, 7-12-60, Cl. 23-27.3.
- Levesque, Charles L.: *See—*  
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- Levesque, George N.: *See—*  
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- Levesque, Roger. Office implement. 2,938,740, 5-31-60, Cl. 281-16.
- Levesque, Roger. Paper clip dispenser. 2,939,619, 6-7-60, Cl. 225-98.
- Levetan, Robert V.: *See—*  
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- Levetus, Francis B., to The Keelavite Co. Ltd. Apparatus for the speed of regulation of hydraulic motors. 2,928,376, 3-15-60, Cl. 121-38.
- Levey, Maurice. Warning blinker signal for automobiles. 2,948,257, 8-9-60, Cl. 116-63.
- Levi, Hans L., to Murphy Door Bed Co., Inc. Adjustable chair. 2,932,344, 4-12-60, Cl. 155-88.
- Levi, Hans L., to Art & Industry, Inc. Visible phonograph record racks. 2,956,685, 10-18-60, Cl. 211-40.
- Levi, Irving, to Charles E. Frost & Co. Process for preparing  $\alpha$ -halogen- $\beta$ -hydroxy alcohols. 2,951,876, 9-6-60, Cl. 260-61.8.
- Levin, Eugene A., to Tally Register Corp. Incremental bi-directional drive mechanism. 2,948,161, 8-9-60, Cl. 74-37.9.
- Levin, Harry M. Edible composition convertible into a stiff mass by aeration. 2,924,530, 2-9-60, Cl. 99-144.
- Levin, Herbert L., to International Telephone and Telegraph Corp. Traveling wave electron discharge device. 2,928,019, 3-8-60, Cl. 315-3.5.
- Levin, Herbert L., to International Telephone and Telegraph Corp. Electron gun. 2,938,134, 5-24-60, Cl. 313-82.
- Levin, Herbert L., to International Telephone and Telegraph Corp. Electron gun support. 2,943,227, 6-28-60, Cl. 315-3.5.
- Levin, Herbert L., and T. J. Marchese, to United States of America, Navy. Liquid cooled attenuator and helix support. 2,942,149, 6-21-60, Cl. 315-39.3.
- Levin, Herman. Certain 3-benzol dihydropyridines. 2,922,785, 1-26-60, Cl. 260-24.0.
- Levin, Herman, to B J Service, Inc. Corrosion inhibitors in well treating compositions. 2,955,083, 10-4-60, Cl. 252-8.55.



- Levin, John B., N. Repella, and M. Rosen, to Laboratory for Electronics, Inc. Radar data processing. 2,964,745, 12-13-60, Cl. 343-11.
- Levin, John K., and W. G. Stewart, to Aerovox Corp. Code-teaching apparatus. 2,947,090, 8-2-60, Cl. 35-14.
- Levin, Menachem, to Ministry of Agriculture (The Institute for Fibres and Forest Products). Method of rendering wool unshrinkable and non-felting. 2,923,596, 2-2-60, Cl. 8-128.
- Levin, Meynard D., to General Electric Co. Incinerator. 2,932,712, 4-12-60, Cl. 219-19.
- Levin, Nathan, to Textile Machine Works. Method of knitting patterned fabric. 2,919,565, 1-5-60, Cl. 66-43.
- Levin, Nathan, to Textile Machine Works. Method of knitting patterned fabric. 2,924,956, 2-16-60, Cl. 66-43.
- Levin, Nathan, to Textile Machine Works. Method of knitting floatless patterned fabric. 2,933,906, 4-26-60, Cl. 66-43.
- Levin, Nathan, to Textile Machine Works. Method of knitting tubular patterned fabric. 2,935,863, 5-10-60, Cl. 66-43.
- Levin, Nathan. Method of four yarn overplaid knitting. 2,941,385, 6-21-60, Cl. 66-43.
- Levin, Nathan, to Textile Machine Works. Yarn feeding control means for circular knitting machines. 2,948,131, 8-9-60, Cl. 66-138.
- Levin, Nathan, to Textile Machine Works. Multi-pattern section inlaid fabric and method of making same. 2,959,946, 11-15-60, Cl. 66-43.
- Levin, Nathan D., to The Rauland Corp. Manufacture of electrical discharge devices. 2,923,585, 2-2-60, Cl. 316-4.
- Levin, Saul R. Magnifying attachment for a world globe. 2,941,313, 6-21-60, Cl. 35-46.
- Levin, Simon. Magnetostrictive storage apparatus. 2,942,928, 6-28-60, Cl. 346-74.
- Levin, Simon. Semiconductor magnetic reproducer. 2,959,771, 11-8-60, Cl. 340-174.1.
- Levine, Albert K.: See—  
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- Levine, Arnold M., to International Telephone and Telegraph Corp. Pattern control positioning a work piece and a tool turret for automatic operation. 2,958,247, 11-1-60, Cl. 83-71.
- Levine, Beth. Footwear. 2,945,310, 7-19-60, Cl. 36-11.5.
- Levine, Charles A.: See—  
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- Levine, Charles A., W. E. Skiens, and G. R. Moore; said Levine and Skiens assors. to United States of America, Atomic Energy Commission. Preparation of alkyl pyrophosphate extractants. 2,947,774, 8-2-60, Cl. 260-461.
- Levine, David I., to Spring Products Developing Co. Spring assembly and edge stiffener component therefor. 2,932,832, 4-19-60, Cl. 5-261.
- Levine, Elliot. Method and system for making separable bottom stops for slide fasteners. 2,949,211, 8-16-60, Cl. 221-169.
- Levine, Harold: See—  
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- Levine, Harold A.: See—  
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- Levine, Harvey, to General Electric Co. Electric cooking vessel. 2,938,990, 5-31-60, Cl. 219-44.
- Levine, Harvey, and O. F. Gerry, to General Electric Co. Watertight seal for cooking vessel heating element. 2,963,569, 12-6-60, Cl. 219-44.
- Levine, Irving A. Shoe holding and stretching device. 2,926,368, 3-1-60, Cl. 12-53.7.
- Levine, Max, and S. C. Temin, to Industrial Rayon Corp. Process for preparation of methylene-bisphenols. 2,925,444, 2-16-60, Cl. 260-619.
- Levine, Philip: See—  
Halpern, Benjamin D., Karo, and Levine. 2,957,914.
- Levine, Samuel W., and H. Sigler, to Fairchild Camera and Instrument Corp. Printing exposure machine for photo-sensitive materials. 2,919,635, 1-5-60, Cl. 95-73.
- Levine, Sol, and G. Rand, to Edo Corp. Selectively directive compressional wave transducers. 2,922,140, 1-19-60, Cl. 340-9.
- Levine, Solomon, and J. W. Keller, Jr., to United States of America, Army. Complementary symmetry transistor coincidence detector. 2,930,942, 3-29-60, Cl. 317-148.5.
- Levinsky, Charles T.: See—  
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Henning, Frederick W., Jr., and Levinsky. 2,951,341.
- Levinson, Emanuel, and J. C. Thom, to Sperry Rand Corp. Feedback servo systems. 2,928,035, 3-8-60, Cl. 318-448.
- Levinson, George. Sectional floating Marine platform. 2,952,234, 9-13-60, Cl. 114-43.5.
- Levinson, Louis E. Amusement devices. 2,943,854, 7-5-60, Cl. 272-33.
- Levinthal Electronic Products, Inc.: See—  
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- Levis, William W.: See—  
Jaul, Ernest, Langdon, and Levis. 2,928,877.
- Levison, Floyd S. Noise dampener. 2,960,110, 11-15-60, Cl. 137-561.
- Levison, Robert, to American Enka Corp. Method of treating polyamide tire cord with caprolactam oligomers. 2,922,727, 1-26-60, Cl. 117-138.8.
- Levit, Edward C.: See—  
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- Levit, Edward C., to Whirlpool Corp. Fluid cooling apparatus. 2,931,188, 4-5-60, Cl. 62-3.
- Levit, Edward C., and J. G. Ruspino, to Whirlpool Corp. Rotary spray tube for dishwashers. 2,956,572, 10-18-60, Cl. 134-176.
- Leviton Mfg. Co., Inc.: See—  
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- Levitt, Charlie M.: See—  
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- Levkoff, David,  $\frac{1}{4}$  to E. S. Levkoff,  $\frac{1}{4}$  to H. S. Levkoff, and  $\frac{1}{4}$  to E. L. Sennet. Cartons. 2,936,943, 5-17-60, Cl. 229-28.
- Levkoff, David,  $\frac{1}{4}$  to E. S. Levkoff,  $\frac{1}{4}$  to H. S. Levkoff, and  $\frac{1}{4}$  to E. L. Sennet. Cartons. 2,944,720, 7-12-60, Cl. 229-31.
- Levkoff, David,  $\frac{1}{4}$  to E. S. Levkoff,  $\frac{1}{4}$  to H. S. Levkoff, and  $\frac{1}{4}$  to E. L. Sennet. Cartons. 2,949,220, 8-16-60, Cl. 229-31.
- Levkoff, Evelyn S.: See—  
Levkoff, David. 2,936,943.  
Levkoff, David. 2,944,720.  
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- Levkoff, Henry S.: See—  
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- Levkoff, Henry S. Overwrapping of open-top cartons. 2,955,400, 10-11-60, Cl. 53-228.
- Levolor Loretzen, Inc.: See—  
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- Levy, Adrien, to Manufacture des Montres & Chronographes Pierre S.A. Alarm watch. 2,948,105, 8-9-60, Cl. 58-57.5.
- Levy, Donald J.: See—  
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- Levy, Edward M., to Reflector Hardware Corp. Display and merchandise supports. 2,926,877, 3-1-60, Cl. 248-223.
- Levy, Lionel F.: See—  
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- Levy, Maurice M., to Her Majesty The Queen in the Right of Canada as represented by the Postmaster General. Method of, and apparatus for, electronically interpreting a pattern code. 2,925,586, 2-16-60, Cl. 340-174.
- Levy, M. Frank, and G. A. Seubert, Jr., to Argus Chemical Corp. Chlorinated 2-methyl, 3-hydantoin-propane (2)-sulfonic acid. 2,945,045, 7-12-60, Cl. 260-309.5.
- Levy, Maurice M., to Her Majesty The Queen in the Right of Canada as represented by the Postmaster General. Conveyor system. 2,937,739, 5-24-60, Cl. 198-38.
- Levy, Morris: See—  
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- Levy, Paul W.: See—  
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- Levy, Samuel: See—  
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- Levy, Sidney E., and B. C. Sharp, to University Loudspeakers, Inc. Transducer. 2,957,054, 10-18-60, Cl. 179-115.5.
- Levy, Stanley S.: See—  
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- Lew, Abram, to Barmar Products Corp. Dental-floss holder. 2,962,033, 11-29-60, Cl. 132-92.
- Lew, Henry Y.: See—  
Stayner, Richard D., and Lew. 2,921,030.
- Lew, Henry Y., to California Research Corp. Sulfonate detergent compositions with improved foam characteristics. 2,956,025, 10-11-60, Cl. 252-161.
- Lew, Henry Y., to California Research Corp. Sulfonate detergent compositions. 2,956,026, 10-11-60, Cl. 252-161.
- Lew, Wah B., to United States of America, Navy. Rubber boot method of bearing preservation. 2,926,066, 2-23-60, Cl. 21-2.5.
- Lewa G.m.b.H.: See—  
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- Lewandowski, Chester J. Hay combine. 2,940,239, 6-14-60, Cl. 56-1.
- Lewenstein, Mozes J.: See—  
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- Lewerth, Elisabeth, geb. Franz, to Firma Mitteldeutsche Emailierwerke M. Fratscher & Co. Kitchen utensil. 2,950,840, 8-30-60, Cl. 220-95.
- Lewin, George. Multiple sound tracks. 2,950,971, 8-30-60, Cl. 96-79.
- Lewin, Gunnar E. W., to Aktiebolaget Atvidabergs Butiksinredning. Pivot bearing for horizontal and vertical pivoted windows. 2,948,916, 8-16-60, Cl. 16-140.
- Lewin, Leonard, to International Standard Electric Corp. H.F. electrical wave guide coupling arrangement. 2,952,820, 9-13-60, Cl. 333-10.
- Lewin Road Sweepers Ltd.: See—  
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- Lewine, Charles G. Elasticized shirred or corrugated fabric. 2,936,603, 5-17-60, Cl. 66-193.
- Lewinski, Horst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing acid esters of polyphosphoric acids and their salts. 2,963,508, 12-6-60, Cl. 260-461.
- Lewinter, Sidney W., to Radio Corp. of America. Linear wave generator. 2,965,770, 12-20-60, Cl. 307-83.5.
- Lewis, Albert A., deceased; G. Lewis, administratrix. Automatic liquid filling device. 2,962,845, 12-6-60, Cl. 53-37.
- Lewis, Archie E. Trailer for motor vehicles. 2,941,836, 6-21-60, Cl. 296-23.



- Lewis, Arthur. Pipe cleaning device. 2,922,218, 1-26-60, Cl. 29-78.
- Lewis, Arthur D.: See—
- Lindberg, Caryl A., and Lewis. 2,954,198.
- Lewis, Arthur E.: See—
- Witucki, Robert M., and Lewis. 2,936,505.
- Lewis, Arthur S., III, G. E. Yates, and H. E. Welch, to Kearsarge Engineering Corp. Forming mechanism. 2,939,492, 6-7-60, Cl. 140-71.
- Lewis, Benjamin F., and J. R. Power, to Bell Telephone Laboratories, Inc. Electrical information system. 2,949,507, 8-16-60, Cl. 179-84.
- Lewis, Bernard: See—
- Karlovič, Bela, Lewis, and Von Elbe. 2,925,620.
- Lewis, Carl M., to Minnesota Mining and Mfg. Co. Temperature compensated crystal device. 2,952,786, 9-13-60, Cl. 310-89.
- Lewis, Charles, to Celanese Corp. of America. Cartons. 2,936,941, 5-17-60, Cl. 229-23.
- Lewis, Charles E.: See—
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- Lewis, Charles W.: See—
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- Lewis, Charles W., to Westinghouse Electric Corp. Electrical apparatus and solid dielectric therefor. 2,920,256, 1-5-60, Cl. 317-258.
- Lewis, Dan, Jr., and J. S. Barton, to Crown Zellerbach Corp. Coated heat-sealable wrapper and process of making same. 2,927,865, 3-8-60, Cl. 117-14.
- Lewis, David H.: See—
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- Lewis, Delbert S., A. Norton, L. V. Schmidt, and R. J. White, to Boeing Airplane Co. Means for lateral control of high-speed airplanes. 2,957,656, 10-25-60, Cl. 244-90.
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- Lewis, Edward B., Sr., E. B. Lewis, Jr., and G. J. Lewis. Smog control box. 2,957,545, 10-25-60, Cl. 183-9.
- Lewis, Edward D. Diet tabulator. 2,965,292, 12-20-60, Cl. 235-79.
- Lewis, Edward F., to General Motors Corp. Hub and shaft arrangement. 2,945,712, 7-19-60, Cl. 287-53.
- Lewis, Edwin S., to Radio Corp. of America. Antenna. 2,965,898, 12-20-60, Cl. 343-100.
- Lewis, Eileen D., and E. M. Usab; said Usab assor. to said Lewis. Drip-dry clothing support. 2,941,671, 6-21-60, Cl. 211-86.
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- Knudsen, Knud J. 2,930,233.
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- Lewis Engineering and Mfg. Co., The: See—
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- Lewis, Ernest E.: See—
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- Lewis, Ernest E., to General Electric Co. Governor for constant speed drives. 2,931,375, 4-5-60, Cl. 137-58.
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- Lewis, Frank D., to General Radio Co. Apparatus for producing variable time delay. 2,943,277, 6-28-60, Cl. 333-31.
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- Whittlesey, Welsh C., Jones, and Lewis. 2,942,310.
- Lewis, Frank W., to Chicago Railway Equipment Co. Keyed head brake beam. 2,946,411, 7-26-60, Cl. 188-228.6.
- Lewis, G. B., Co.: See—
- Frater, George G. and M. A. 2,939,607.
- Lewis, George E. Planetary gear reduction unit. 2,949,048, 8-16-60, Cl. 74-802.
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- Lewis, George P. Pictorial toys. 2,931,657, 4-5-60, Cl. 273-155.
- Lewis, Gerald F.: See—
- Lait, Raymond, Lewis, and Hack. 2,925,391.
- Lewis, Gerald F., 1/2 to L. E. Holbrook. Medicine dropper drop measuring devices. 2,966,284, 12-27-60, Cl. 222-209.
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- Lewis, Harold P., and J. Schmier, to Rodale Mfg. Co., Inc. Electric switch. 2,923,920, 3-15-60, Cl. 200-156.
- Lewis, Harold P., and J. Schmier, to Rodale Mfg. Co., Inc. Electrical switching device. 2,965,737, 12-20-60, Cl. 200-156.
- Lewis, Harry T., Jr.: See—
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- Lewis, Howard B., deceased (Bank of America National Trust & Savings Assn., executor), to Mine Safety Appliances Co. Liquid oxygen converter. 2,943,454, 7-5-60, Cl. 62-51.
- Lewis, Howard W., to International Business Machines Corp. High-speed clutched drive system with speed regulation. 2,923,172, 2-2-60, Cl. 74-665.
- Lewis-Howe Co.: See—
- Mitra, Arun K., and Pitkin. 2,959,606.
- Lewis, Idwal O.: See—
- Lambert, James E., and Lewis. 2,955,534.
- Lewis, Idwal O., to Imperial Chemical Industries Ltd. Packages containing materials for use in blasting operations. 2,929,325, 3-22-60, Cl. 102-24.
- Lewis, James B., Jr., to Cardinal Control Co., Inc. Automatic protective device. 2,935,652, 5-3-60, Cl. 317-13.
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- Lewis, James E. Thread lubricant package and method. 2,924,876, 2-16-60, Cl. 29-458.
- Lewis, John B. Device for blending gaseous materials. 2,950,618, 8-30-60, Cl. 73-23.
- Lewis, John H., and W. L. Sheffield, to Lewis-Shepard Co. Materials handling trucks. 2,957,533, 10-25-60, Cl. 180-648.
- Lewis, John R., to Hercules Powder Co. Resin product. 2,960,494, 11-15-60, Cl. 260-51.
- Lewis, John T., and L. E. Weeks, to Monsanto Chemical Co. Dry-cleaning detergent composition. 2,941,952, 6-21-60, Cl. 252-161.
- Lewis, Karl R. Single and double action revolver firing mechanism. 2,927,390, 3-8-60, Cl. 42-65.
- Lewis, Linford H. Receptacle device. 2,924,377, 2-9-60, Cl. 232-43.2.
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- Lewis, Orval M. Tire bead loosening device. 2,920,688, 1-12-60, Cl. 157-117.
- Lewis, Orval M. Device for collapsing and removing a vehicle wheel tire. 2,933,128, 4-19-60, Cl. 157-128.
- Lewis, Orval M. Device for mounting a tire on a vehicle wheel. 2,934,137, 4-26-60, Cl. 157-124.
- Lewis, Richard L.: See—
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- Lewis, Richard N., to Olin Mathieson Chemical Corp. Dehydration of hydrazine. 2,963,407, 12-6-60, Cl. 202-42.
- Lewis, Robert B. Apparatus for avoiding entanglement of fishing equipment with marine plants. 2,926,452, 3-1-60, Cl. 43-43.1.
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- Lewis, Robert H., to Westinghouse Electric Corp. Electro-responsive device. 2,922,112, 1-19-60, Cl. 324-137.
- Lewis, Roy W. Can salvagers. 2,925,114, 2-16-60, Cl. 153-2.
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- Lewis, Thomas E., to United States Steel Corp. Pivoted anti-friction bearing. 2,924,492, 2-9-60, Cl. 308-226.
- Lewis, Thomas E., Jr., to The Coulter & McKenzie Machine Co., Inc. Wire coiling machine. 2,957,640, 10-25-60, Cl. 242-83.
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- Lewis, Thomas P., to Apollo Steel Co. Means for positioning structural members on a spacing table. 2,935,618, 5-3-60, Cl. 250-204.
- Lewis, Thomas R., Jr.: See—
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- Lewis, Willard D., to Bell Telephone Laboratories, Inc. Switching circuit. 2,936,337, 5-10-60, Cl. 179-15.
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- Lewis, Willard D., and A. C. Rose, to Bell Telephone Laboratories, Inc. Multiple error correction circuitry. 2,954,433, 9-27-60, Cl. 178-23.
- Lewis, William H., to Cutcrete Mfg. Corp. Concrete sawing machine. 2,934,327, 4-26-60, Cl. 262-20.
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- Lewis, William L. Airborne vehicle with variable area sustention means. 2,953,322, 9-20-60, Cl. 244-46.
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- Lewis, William R.: *See*—  
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- Leyman Corp.: *See*—  
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- Leyonmark, George F.: *See*—  
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- Leyton, Eric M., to Radio Corp. of America. Phase detecting and automatic phasing circuitry especially for color television apparatus. 2,930,842, 3-29-60, Cl. 178-5.4.
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- Lhota, Harold P., to Republic Steel Corp. Hinge construction. 2,938,227, 5-31-60, Cl. 16-135.
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- Liao, Tseng W., and A. F. Boice, to General Electric Co. Voltage responsive apparatus. 2,941,143, 6-14-60, Cl. 324-54.
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- Lich, Richard L., to General Steel Castings Corp. Railway vehicle side bearing structure. 2,956,516, 10-18-60, Cl. 105-200.
- Licht, Friedrich E., to Siemens & Halske Aktiengesellschaft Berlin and Munich. Line coupling arrangement for signaling system. 2,925,471, 2-16-60, Cl. 179-18.
- Lichtblau, Ellis I., to E. I. du Pont de Nemours and Co. Impregnation process. 2,950,217, 8-23-60, Cl. 117-144.
- Lichten, Robert L.: *See*—  
De Tore, John A., Lichten, and Robertson. 2,949,965.
- Lichtenfels, Ira W., to General Electric Co. High speed braking of rapid transit rail vehicles. 2,926,759, 3-4-60, Cl. 188-159.
- Lichtenstein, David L., E. Buncher, and E. P. Fedorka, to Miracle-Sage Corp. Therapeutic unit. 2,939,454, 6-7-60, Cl. 128-33.
- Lichtgarn, Fred, to Sunbeam Corp. Vacuum cleaner. 2,932,054, 4-12-60, Cl. 15-363.
- Lichtin, Aaron. Anti-seborrheic suspension of tellurium dioxide. 2,933,432, 4-19-60, Cl. 167-87.
- Lichtman, Samuel W. Multiplex pulse repetition rate remote control system. 2,934,760, 4-26-60, Cl. 343-228.
- Lichtstern, Herbert: *See*—  
Lichtstern, Sigmund and H. 2,963,024.
- Lichtstern, Sigmund and H. Smoking filters for cigars and pipes. 2,963,024, 12-6-60, Cl. 131-10.
- Lichty, Joy G.: *See*—  
Leshin, Richard, and Lichty. 2,947,695.
- Licitis, Gunars, and M. I. Glass: said Licitis assor. to said Glass. Toy. 2,949,697, 8-23-60, Cl. 46-243.



- Licklider, Joseph C., to General Electronic Laboratories, Inc. Information signal intelligibility measuring apparatus. 2,958,729, 11-1-60, Cl. 179-1.
- Licklider, Joseph C. R., to California Research Corp. Seismic data display. 2,930,669, 3-29-60, Cl. 346-109.
- Licklider, Joseph C. R., to United States of America, Air Force. Audio pitch control. 2,943,152, 6-28-60, Cl. 179-15.5.
- Liddell, Robert E., to Yarrow and Co. Ltd. Filtration of liquids. 2,954,872, 10-4-60, Cl. 210-82.
- Liddersdale, Aubrey D., to The Telegraph Construction & Maintenance Co. Ltd. Apparatus for controlling longitudinal movement of cables and the like. 2,924,328, 2-9-60, Cl. 203-200.
- Lide, Edward N., to Lockheed Aircraft Corp. Capacitance meter. 2,940,037, 6-7-60, Cl. 324-60.
- Lido Land Co.: See—
- Willford, Jacob V., Jr. 2,939,025.
- Lie, Finn. Tilting chair restraining mechanism. 2,935,119, 5-3-60, Cl. 155-77.
- Lieb, Albert, to International Standard Electric Corp. Fluorescent screen for electron-ray tubes operating at low voltage. 2,921,201, 1-12-60, Cl. 250-80.
- Lieb, Albert, to International Standard Electric Corp. Voltage indicator tubes. 2,927,237, 3-1-60, Cl. 313-109.5.
- Lieb, Hans, E., Kupelwieser, and A. Holasek. Injectable pharmaceutical preparation, and a method of making same. 2,961,374, 11-22-60, Cl. 167-58.
- Lieb, Harry C., to Leesona Corp. Radioactive battery with solid dielectric spacers and method of manufacture. 2,930,909, 3-29-60, Cl. 310-3.
- Lieb, Harry C., and J. A. De Rosa, to Leesona Corp. Solid-state cell and battery. 2,930,830, 3-29-60, Cl. 136-153.
- Liebel-Flarsheim-Co.: See—
- Billin, Arthur G. 2,922,046.
- Billin, Arthur G. 2,953,082.
- Bross, William T. 2,963,596.
- Liebhenthal, Benjamin C., to General Motors Corp. Generator-motor power selection system. 2,924,762, 2-9-60, Cl. 318-151.
- Lieber, Sidney U., to Unit Process Assemblies, Inc. Probe for a thickness testing gage. 2,933,677, 4-19-60, Cl. 324-34.
- Lieberherr, Hans U., to Nordberg Mfg. Co. Supercharged spark-fired gas engines. 2,936,575, 5-17-60, Cl. 60-13.
- Lieberherr, Hans U., to Nordberg Mfg. Co. Two cycle supercharging on port scavenged engines. 2,952,968, 9-20-60, Cl. 60-13.
- Lieberman, Alvin: See—
- Appel, Arthur V., Betz, Fisher, Fochtman, Katz, Lieberman, Alexander, Murphy, Maxwell, and Lewis. 2,920,525.
- Lieberman, Emanuel R.: See—
- Hochstadt, Harold R., and Lieberman. 2,920,000.
- Lieberman, Emanuel R., and P. V. Fagan, to Ethicon, Inc. Method of tanning. 2,923,594, 2-2-60, Cl. 8-94.11.
- Lieberman, Harvey N.: See—
- Benveniste, Jacques, West, and Lieberman. 2,943,475.
- Lieberman, Morris S., to United States of America, Navy. Method of assembling a molded cable connector. 2,949,642, 8-23-60, Cl. 18-59.
- Liebert, Horst, to Trockentechnik Kurt Bruchner K.G. Chain with clips and pin bars for tenting and drying machines. 2,945,280, 7-19-60, Cl. 26-62.
- Liebhafsky, Herman A., and A. F. Winslow, deceased (E. L. Winslow, administratrix), to United States of America, Navy. Device for actuating explosives by electrical breakdown. 2,942,546, 6-28-60, Cl. 102-28.
- Liebherr, Hans, and E. Reich. Undercarriage for rotary-tower crane. 2,955,546, 10-11-60, Cl. 105-27.
- Liebsch, Otto H., to American Linen Supply Co. Towel dispensing apparatus and method. 2,930,664, 3-29-60, Cl. 312-39.
- Liebowitz, Benjamin, to Endsdown Co. Anticurl devices. 2,964,756, 12-20-60, Cl. 2-132.
- Liebscher, Arthur, to Radio Corp. of America. Beam registration system. 2,921,117, 1-12-60, Cl. 178-5.4.
- Liebscher, Arthur, to Radio Corp. of America. Color television apparatus. 2,932,756, 4-12-60, Cl. 313-92.
- Liebson, Sidney H., to The Rauland Corp. Flat picture screen and methods and means for operating the same. 2,928,993, 3-15-60, Cl. 315-169.
- Liebson, Sidney H., W. A. Loeb, and S. B. Randolph, to Nuclear Development Corp. of America. Comparison spintharoscope. 2,966,589, 12-27-60, Cl. 250-87.
- Liechti, Hans W., to Ciba Ltd. Water insoluble disazo-dye-stuffs. 2,954,371, 9-27-60, Cl. 260-186.
- Liecke, Hans, and G. Hesse, to Hochdruck-Dichtungs-Fabrik Schmitz & Schulte. Gate valves. 2,953,346, 9-20-60, Cl. 251-327.
- Liedtke, Gerhard, to Schering A.G. Process of purifying hexachloro cyclopentadiene. 2,927,947, 3-8-60, Cl. 260-648.
- Liedtke, Kurt: See—
- Moeltzner, Ernst F. W., and Liedtke. 2,944,450.
- Liekweg, Lawrence L. Portable vehicle washing machine. 2,950,492, 8-30-60, Cl. 15-21.
- Lien, Gunder, Jr., to General Electric Co. Sheathed electric heating units and methods of making the same. 2,962,684, 11-29-60, Cl. 338-243.
- Lienau, Carl C., and J. C. Patterson, Jr. Alarm warning system for swimming pools. 2,942,247, 6-21-60, Cl. 340-258.
- Lienhard, Gustav O., to Chicopee Mfg. Corp. Paper containing fabric. 2,929,414, 3-22-60, Cl. 139-420.
- Lieseberg, Friedrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of fibers and threads having high dyestuff affinity from polyacrylonitrile. 2,957,748, 10-25-60, Cl. 18-54.
- Lieser, Mathias J., to Mead Specialties Co., Inc. Balanced three-way valve. 2,925,828, 2-23-60, Cl. 137-620.
- Lieser, Mathias J., to Mead Specialties Co., Inc. Control system for fluid pressure-actuated reciprocating device. 2,946,321, 7-26-60, Cl. 121-156.
- Lieske, George A.: See—
- McKenney, Henry F., Lieske, Scutt, and Unold. 2,951,639.
- Liesse, Maurice. Device for regulating the pressure or insuring a constant pressure on windshield wiper blades. 2,947,019, 8-2-60, Cl. 15-250.2.
- Liethe, Otto, and W. Rottig, to Ruhrchemie Aktiengesellschaft. Process for the purification of gaseous olefins. 2,956,090, 10-11-60, Cl. 260-677.
- Lievense, Stanley J., and C. I. Burke. Fish lure. 2,927,392, 3-8-60, Cl. 43-42.39.
- Liff, May W. Infant's garment. 2,922,164, 1-26-60, Cl. 2-49.
- Lifka, Charles. Connector means for flexible conduit. 2,932,532, 4-12-60, Cl. 285-161.
- Lifson, William E.: See—
- Gleason, Walter W., Lifson, and Pennekamp. 2,921,029.
- Liftman, David. Utensil cleaning accessory. 2,923,025, 2-2-60, Cl. 15-268.
- Liftman, David. Article having detachable movably mounted ornament. 2,931,196, 4-5-60, Cl. 63-31.
- Lifton, Herman M. Dental bite tray. 2,933,811, 4-26-60, Cl. 32-19.
- Ligonza, Joseph R., to Bell Telephone Laboratories, Inc. Method of treating silicon. 2,930,722, 3-29-60, Cl. 148-1.5.
- Liggett, Waldo B.: See—
- Wolf, Calvin N., and Liggett. 2,920,997.
- Liggett, John A., and J. F. McSparran, to United States of America, Army. Variable limit stop mechanism. 2,942,482, 6-28-60, Cl. 74-10.2.
- Liggett, Lawrence M., to Wyandotte Chemicals Corp. Surface coated calcium carbonate pigments. 2,927,091, 3-1-60, Cl. 260-23.7.
- Light, Earl D., to Kirsch Co. Panel hanger device. 2,930,072, 3-29-60, Cl. 16-87.2.
- Light, George G., to The Western Union Telegraph Co. Telegraph system. 2,929,864, 3-22-60, Cl. 178-2.
- Light, John K.: See—
- Verhaeghe, Jacques R. P., Thomas, Norcross, Light, and Colinet. 2,960,598.
- Light, Leon H., to North American Philips Co., Inc. Direct current converter. 2,920,259, 1-5-60, Cl. 321-2.
- Light, Maurice M. Lubricant-immersed outdoor motor structure. 2,955,575, 10-11-60, Cl. 121-38.
- Light, Rupert E., Jr.: See—
- Greenspan, Frank P., and Light. 2,921,921.
- Greenspan, Frank P., and Light. 2,923,695.
- Greenspan, Frank P., and Light. 2,927,934.
- Greenspan, Frank P., and Light. 2,932,627.
- Lightfoot, Ralph B., to United Aircraft Corp. Means for dynamically balancing rotor blades. 2,947,365, 8-2-60, Cl. 170-159.
- Lighting Products, Inc.: See—
- Pierrot, Andre, Lescroel, Grabowski, and Guillaud. 2,962,445.
- Tillson, Edwin D., Janness, and Davis. 2,951,611.
- Lightoller, Inc.: See—
- Schneider, Abe, and Patichell. 2,936,518.
- Lighty, Paul E., to International Telephone and Telegraph Corp. Semiconductor devices. 2,928,030, 3-8-60, Cl. 317-234.
- Lignes Telegraphiques & Telephoniques: See—
- Dallemagne, Robert. 2,923,778.
- Maniere, Maurice A. F. J., and Malassenet. 2,954,436.
- Lignosol Chemicals Ltd.: See—
- Byrd, Gerald J. 2,933,452.
- Ligon, Cleon. Shutter type furnace observation port. 2,926,658, 3-1-60, Cl. 126-200.
- Liguori, Alfred T., to Scripto, Inc. Retractable writing implement. 2,930,356, 3-29-60, Cl. 120-42.03.
- Liguori, Anthony: See—
- Canfora, Arthur E., Kishi, Sharin, and Liguori. 2,938,078.
- Liguori, Anthony, and T. R. Sheridan, to Radio Corp. of America. Phasing system. 2,923,820, 2-2-60, Cl. 250-27.
- Liguori, Michael. Multiple tray for baby food. 2,946,456, 7-26-60, Cl. 211-77.
- Lihue Plantation Co., Ltd.: The: See—
- Kawamura, Masato. 2,921,401.
- Kawamura, Masato. 2,921,420.
- Likins, Merle, J. F. Strotman, and D. O. McCarthy, to Chemetron Corp. Selective hydrogenation and palladium catalyst therefor. 2,946,829, 7-26-60, Cl. 260-677.
- Lilliefeld, Julius E., to S. E. Warren and R. F. Burkhard. Electrode for electrolytic capacitor and methods of insulating the same. 2,926,109, 2-23-60, Cl. 117-232.
- Lilliefeld, Julius E., to S. D. Warren, and R. F. Burkard. Electrolytic capacitor and separator therefor. 2,929,004, 3-15-60, Cl. 317-230.



- Lilienfeld, Julius E., to S. D. Warren, and R. F. Burkard. Separator means for electrolytic devices. 2,929,005, 3-15-60, Cl. 317-230.
- Lilienfeld, Julius E., to S. D. Warren and R. F. Burkard. Electrolytes. 2,941,929, 6-21-60, Cl. 204-14.
- Liljenström, Carl-Johan, to AB Svenska Flaktfabriken. Channel driers. 2,920,398, 1-12-60, Cl. 34-46.
- Lill, John F., to Fort Wayne Tool Die & Engineering Co. Coil winding apparatus. 2,928,617, 3-15-60, Cl. 242-1.1.
- Lilley, Herbert R.: *See*—  
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- Lillie, David W., to General Electric Co. Neutronic reaction fuel. 2,951,801, 9-6-60, Cl. 204-193.2.
- Lillie, David W., and R. L. Fullman, to General Electric Co. Hydrided lithium-magnesium alloys and method. 2,961,359, 11-22-60, Cl. 148-13.1.
- Lilliston Implement Co.: *See*—  
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Boesch, John C., Jr., and Nobles. 2,953,887.  
Phillips, John T., Jr., Boesch, and Elliott. 2,953,888.
- Lilljekvist, Bengt, and L. O. Uhrus, to Aktiebolaget Svenska Kullagerfabriken. Casting molten material in a vacuum. 2,961,722, 11-29-60, Cl. 22-84.
- Lilljekvist, Bengt L. F., and L. O. Uhrus, to Aktiebolaget Svenska Kullagerfabriken. Procedure for vacuum casting and arrangement intended therefor. 2,946,101, 7-26-60, Cl. 22-84.
- Lillkvist, Salomo. Push button actuated lock device for cabinet doors, compartment doors and the like. 2,941,833, 6-21-60, Cl. 292-220.
- Lilly, Eli, and Co.: *See*—  
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Shepard, Edwin R., and Morrison. 2,956,058.  
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- Lilly, Joseph C., to The Plastic Wire & Cable Corp. Twisted conductors and cables. 2,956,102, 10-11-60, Cl. 174-34.
- Lily-Tulip Cup Corp.: *See*—  
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- Limacher, Francis J. Toy. 2,952,939, 9-20-60, Cl. 46-66.
- Limbach, Anthony P., to Union Carbide Corp. Core chuck. 2,956,757, 10-18-60, Cl. 242-46.3.
- Limbach, David R. Photographic developing machine. 2,928,329, 3-15-60, Cl. 95-94.
- Limberg, Alfons A., to General Motors Corp. Reciprocating door hinge. 2,959,808, 11-15-60, Cl. 16-179.
- Limberg, Josef. Lock for coke-oven filling holes. 2,920,017, 1-5-60, Cl. 202-250.
- Limberger, Walter, to Lumoprint Zindler KG. Continuous exposure apparatus for producing photocopies from flat patterns. 2,930,284, 3-29-60, Cl. 88-24.
- Limberger, Walter, to Lumoprint Zindler KG. Preparation of copies by xerography. 2,950,661, 8-30-60, Cl. 95-1.7.
- Limberger, Walter, to Lumoprint Zindler K.G. Device for developing and fixing xerographic image. 2,961,993, 11-29-60, Cl. 118-637.
- Limburg, Pieter C.: *See*—  
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- Limido, Jean, and F. De Pauw, to Institut Français du Pétrole des Carburants et Lubrifiants. Process for the photochemical chlorination of cyclohexane in the liquid phase. 2,948,667, 8-9-60, Cl. 204-163.
- Limpel, Eugene J., to A. O. Smith Corp. Method to insulate dynamoelectric machine windings by centrifugally casting. 2,937,408, 5-24-60, Cl. 18-58.3.
- Limpert, Harold J. Multiflavor ice-cream filling nozzle. 2,919,836, 1-5-60, Cl. 222-129.
- Lin, Hung C., to Radio Corp. of America. Stabilization means for semi-conductor signal conveying circuits. 2,934,641, 4-26-60, Cl. 250-20.
- Lince, Mario A. Appliance for transferring a rouleau of can covers from a container to the magazine of a canning machine. 2,936,192, 5-10-60, Cl. 294-16.
- Lincicome, James R.: *See*—  
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- Lincoln, Andrew J., G. E. Lund, and A. J. Meyerhoff, to Burroughs Corp. Biased-diode magnetic transfer loops. 2,943,300, 6-28-60, Cl. 340-174.
- Lincoln, Arnold J., to Engelhard Industries, Inc. Precious metal rupture disc. 2,947,623, 8-2-60, Cl. 75-165.
- Lincoln Brass Works: *See*—  
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- Lincoln, Clovis W., to General Motors Corp. Variable ratio steering gear. 2,953,932, 9-27-60, Cl. 74-388.
- Lincoln, Clovis W., H. D. Spiekerman, and P. B. Zeigler, to General Motors Corp. Transmission control external tube. 2,919,600, 1-5-60, Cl. 74-484.
- Lincoln, Clovis W., and P. B. Zeigler, to General Motors Corp. Fluid power steering gear with damping feature. 2,919,679, 1-5-60, Cl. 121-46.5.
- Lincoln, Frank H., W. P. Schneider, and G. B. Spero, to The Upjohn Co. 6-methyl-17 $\alpha$ ,21-dihydroxy-4,9(11)-pregnadiene-3,20-dione and the 21-esters thereof. 2,928,852, 3-15-60, Cl. 260-397.45.
- Lincoln, Frank H., and W. P. Schneider, to The Upjohn Co. 2 $\alpha$ -methyl-11 $\beta$ -hydroxy-17 $\alpha$ ,21-epoxy-4-pregnene-3,20-dione. 2,960,501, 11-15-60, Cl. 260-239.55.
- Lincoln, Frank H., A. H. Nathan, and W. P. Schneider, to The Upjohn Co. 6-substituted compounds of the pregnane series and a process for the production and use thereof. 2,960,502, 11-15-60, Cl. 260-239.55.
- Lincoln, Frank H., Jr.: *See*—  
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Hogg, John A., and Lincoln. 2,923,723.
- Lincoln, Frank H., Jr., and J. A. Hogg, to The Upjohn Co. 2-lower-alkyl pregnenes and process therefor. 2,923,720, 2-2-60, Cl. 260-397.1.
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- Lincoln, James, and K. D. Grice, to British Celanese Ltd. Production of glycol diesters of aromatic dicarboxylic acids. 2,922,779, 1-26-60, Cl. 260-75.
- Lincoln, James P.: *See*—  
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- Lincoln, John W., to Arthur D. Little, Inc. Mattress having adjustable resiliency. 2,945,244, 7-19-60, Cl. 5-345.
- Lincoln, Milan L.: *See*—  
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- Lincoln, Robert J., to Square D Co. Control circuit for motors. 2,953,815, 11-1-60, Cl. 318-262.
- Lind, Arden L., to United States of America, Air Force. Curve follower. 2,946,939, 7-26-60, Cl. 318-31.
- Lind, Arden L., to United States of America, Air Force. Pulse comparator. 2,946,961, 7-26-60, Cl. 328-146.
- Lind, Arthur C.: *See*—  
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- Lind, Arthur C., and W. J. Katz, to Chain Belt Co. Liquid clarification apparatus. 2,920,763, 1-12-60, Cl. 210-221.
- Lind, Arthur C., W. J. Katz, G. O. McIntosh, and W. N. Konrad, to Chain Belt Co. Purification and reclamation of liquid used in vehicle washing. 2,922,173, 1-26-60, Cl. 15-3.
- Lind, Arthur C., and G. W. Quast, to Chain Belt Co. Waste-flow screening apparatus. 2,929,504, 3-22-60, Cl. 210-158.
- Lind, Arthur C., and W. J. Katz, to Chain Belt Co. Apparatus for separation of liquids or of solids from a liquid. 2,961,099, 11-22-60, Cl. 210-519.
- Lind, Arthur C., and W. J. Katz, to Chain Belt Co. Method and apparatus for removing sediment. 2,966,268, 12-27-60, Cl. 210-83.
- Lind, Christian: *See*—  
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- Lind, Clifford W.: *See*—  
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- Lind, James N.: *See*—  
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- Lind, Warren K.: *See*—  
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- Lind, Warren K., to International Business Machines Corp. Floating decimal system. 2,951,637, 9-6-60, Cl. 235-159.
- Linda, Frank R.: *See*—  
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- Lindahl, Harold A.: *See*—  
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- Lindahl, Harold A., to The Pure Oil Co. Fixed bed, pyrolytic, hydrocarbon conversion process employing a granular, heat-transfer medium. 2,959,629, 11-8-60, Cl. 260-679.
- Lindahl, Harold A., to The Pure Oil Co. Extraction process. 2,963,428, 12-6-60, Cl. 208-315.
- Lindahl, Harold A., and H. Hennig, to The Pure Oil Co. Production of dimethylammonium dimethyl carbamate. 2,927,128, 3-1-60, Cl. 260-501.
- Lindauer Dornier G.m.b.H.: *See*—  
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- Lindauer, Joseph L., Jr. Food cutter. 2,926,712, 3-1-60, Cl. 146-160.
- Lindauer, Robert L., Jr., to Jersey Production Research Co. Recovery of hydrocarbons from subterranean reservoirs. Re. 24,873, 9-27-60, Cl. 166-9.
- Lindberg, Arthur F., to Fairchild Camera and Instrument Corp. Control unit for composing machines. 2,920,754, 1-12-60, Cl. 199-18.
- Lindberg, Arthur F., to Fairchild Camera & Instrument Corp. Case shift mechanism. 2,928,467, 3-15-60, Cl. 164-112.
- Lindberg, Arthur F., to Fairchild Camera & Instrument Corp. Selector push bar arrangement. 2,945,537, 7-19-60, Cl. 164-112.
- Lindberg, Caryl A., and A. D. Lewis, to The Emerson Electric Mfg. Co. Multi-purpose fan mounting. 2,954,193, 9-27-60, Cl. 248-122.
- Lindberg, Charles W., to C. S. Pierce Co. Method for making shoe forms. 2,963,745, 12-13-60, Cl. 18-56.
- Lindberg Engineering Co.: *See*—  
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Hansen, Fred A. 2,966,573.
- Lindberg, John E., Jr. Engine analyzer employing radio-frequency oscillations. 2,959,732, 11-8-60, Cl. 324-16.
- Lindberg, Paul W. Plastic resinous toy parts and method of making and assembling the same. 2,920,682, 1-12-60, Cl. 154-16.



- Lindberg, Richard C., to Cheshire, Inc. Conveyor for articles in lubricating relationship. 2,925,167, 2-16-60, Cl. 198-35.
- Lindberg, Robert H., to Isaacson Iron Works, also d.b.a. Young Iron Works. Ripper tooth. 2,952,929, 9-20-60, Cl. 37-145.
- Lindberg, Victor L.: See—  
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- Lindberg, William S.: See—  
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- Lindblad, Frederick W. Cup-shaped diamond grinding wheel. 2,942,387, 6-28-60, Cl. 51-209.
- Lindblom, Frank W., to Welsh Mfg. Co. Goggle with removable lens cover. 2,923,944, 2-9-60, Cl. 2-14.
- Lindblom, Frank W., to Welsh Mfg. Co. Method of making spectacle temples. 2,932,066, 4-12-60, Cl. 18-59.
- Lindblom, Frank W., to Welsh Mfg. Co. Spectacle frame. 2,946,258, 7-26-60, Cl. 88-41.
- Lindblom, Robert O.: See—  
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- Lindbom, Torsten H., to Fairchild Engine and Airplane Corp. Oil pump. 2,932,217, 9-13-60, Cl. 103-150.
- Lindbom, Torsten H., to Fairchild Engine and Airplane Corp. Fluid pressure ratio control device. 2,965,118, 12-20-60, Cl. 137-85.
- Linde, Hilding. Refuse collecting device. 2,932,417, 4-12-60, Cl. 214-303.
- Linde, Hilding. Refuse collecting vehicle. 2,953,265, 9-20-60, Cl. 214-303.
- Lindell, John A. Power edger and trimmer. 2,930,176, 3-29-60, Cl. 56-25.4.
- Lindell, John F., and R. L. Kennedy, to Koehring Co. Bucket cleaner. 2,944,353, 7-12-60, Cl. 37-91.
- Lindell, Sigurd I., to S & C Electric Co. Switch construction. 2,922,864, 1-26-60, Cl. 200-162.
- Lindell, Sigurd I., to S & C Electric Co. Switch construction. 2,954,449, 9-27-60, Cl. 200-146.
- Lindell, Sigurd I., to S & C Electric Co. Circuit interrupter. 2,961,514, 11-22-60, Cl. 200-120.
- Lindeman, Edward H.: See—  
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- Lindeman, Jesse G., to Deere & Co. Bulldozer. 2,938,285, 5-31-60, Cl. 37-144.
- Lindemann, Hans, to Theodor Calow, trading as Th. Calow & Co., Maschinenfabrik u. Eisengiesserei. Peeling machines. 2,940,348, 6-14-60, Cl. 82-20.
- Lindemann, Howard C., and D. J. Mindheim, to Lindly & Co., Inc. Apparatus for inspecting material. 2,919,624, 1-5-60, Cl. 88-14.
- Lindemann, Robert F., to Diamond Alkali Co. Method of controlling undesirable plant growth. 2,923,634, 2-2-60, Cl. 71-2.6.
- Lindemann, Waldemar: See—  
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- Linden, Albert E., to American Bosch Arma Corp. Readout device. 2,947,911, 8-2-60, Cl. 315-166.
- Linden, August R., to Holub Industries, Inc. Wire-connector wrench. 2,959,995, 11-15-60, Cl. 81-120.
- Linden, Gustave B.: See—  
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- Linden, Hans-Werner: See—  
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- Linden, Henry R.: See—  
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- Linden, Herbert E. Method of coating metals. 2,935,420, 5-3-60, Cl. 117-51.
- Linden, Stanley H.: See—  
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- Lindenbaum, Bernard. Combination pen and pressurized filling means. 2,938,499, 5-31-60, Cl. 120-48.
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- Lindenberg, Theodore, to Pickering Associates, Inc. Electrostatic speaker. 2,934,611, 4-26-60, Cl. 179-111.
- Lindenberg, Waldemar, to Fuller Co. Material level indicating apparatus. 2,946,991, 7-26-60, Cl. 340-244.
- Lindenmann, Adolf J.: See—  
Jucker, Ernst, and Lindenmann. 2,933,501.
- Lindenthal, John W.: See—  
Beals, Malcolm D., Blair, and Lindenthal. 2,937,951.
- Linder, Carl W., to International Harvester Co. Temperature responsive valve. 2,954,930, 10-4-60, Cl. 236-34.5.
- Linder, Friedrich, to Machine Tool Works Oerlikon, Administration Co. Breech mechanism for automatic firearms. 2,948,195, 8-9-60, Cl. 89-183.
- Linder, Jerome: See—  
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- Linder, Rolf: See—  
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- Linder, Seymour M.: See—  
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- Linder, Thomas V.: See—  
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- Linder, Walter: See—  
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- Linderholm, Sven O., to The Ohio Brass Co. Capacitor cooling. 2,933,664, 4-19-60, Cl. 317-243.
- Linderman Engineering Co., Inc.: See—  
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- Linderman, Garrett B., to Linderman Engineering Co., Inc. Pinhole detector. 2,927,218, 3-1-60, Cl. 250-219.
- Linderot, Torsten O. E.: See—  
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- Diczfalusy, Egon R., Fernö, Högberg, Linderot, and Rosenberg. 2,962,515.
- Fernö, Ove B., Fex, Linderot, Rosenberg, and Högberg. 2,962,495.
- Linderot, Epik T., to Aktiebolaget Linderots Patent. Dust separator. 2,962,122, 11-29-60, Cl. 183-79.
- Lindgren, Erik A. Screen room air inlet and wave guard. 2,925,457, 2-16-60, Cl. 174-35.
- Lindgren, Erik A., to Svenska Ackumulator Aktiebolaget Jungner. Electric accumulator structure. 2,937,221, 5-17-60, Cl. 136-145.
- Lindgren, Nils K., to Aktiebolaget Electrolux. Speed regulating device. 2,943,253, 6-28-60, Cl. 318-325.
- Lindgren, William L., to Turner Corp. Torch control valve. 2,958,504, 11-1-60, Cl. 251-223.
- Lindhagen, Teodor I., and T. A. Odman, to Svenska Rotor Maskiner Aktiebolag. Rotary regenerative heat exchangers. 2,946,573, 7-26-60, Cl. 257-270.
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- Lindheim, Stephen W.: See—  
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- Lindley, Frederick A., Jr., to Smith-Meeker Engineering Co. Phase shifter. 2,939,084, 5-31-60, Cl. 328-155.
- Lindley, Joseph J. Powered carriage. 2,955,666, 10-11-60, Cl. 180-19.
- Lindley, Peter A., to The General Electric Co. Ltd. Nuclear reactor arrangements. 2,953,511, 9-20-60, Cl. 204-193.2.
- Lindley, Peter L., to Burroughs Corp. Magnetic selecting system. 2,941,190, 6-14-60, Cl. 340-174.
- Lindly & Co., Inc.: See—  
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- Lindman, Morris W., to United States of America, Navy. Noise reduction device for submarines. 2,942,681, 6-28-60, Cl. 181-33.
- Lindmark, Howard C. Reversible ratchet. 2,943,710, 7-5-60, Cl. 188-82.2.
- Lindner, Arno. Apparatus for smelting metals, steels, and alloys thereof or other hard melting materials. 2,943,130, 6-28-60, Cl. 13-22.
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- Schultze, Kurt M., and Jaekel. 2,936,552.
- Schultze, Kurt H., and Jaekel. 2,946,161.
- Lindow, Arthur L., and R. A. Graff, to Cleveland Pneumatic Industries, Inc. Fluid seal. 2,960,332, 11-15-60, Cl. 267-64.
- Lindquist, Walter. Fish lures. 2,924,906, 2-16-60, Cl. 43-42.35.
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- Lindsay, James E. Pressure gage. 2,929,249, 3-22-60, Cl. 73-418.
- Lindsay, James E., to Radio Corp. of America. Transistor class B signal amplifier circuit. 2,955,257, 10-4-60, Cl. 330-13.
- Lindsay, James E., to United States of America, Navy. Signal wave-form converter. 2,955,265, 10-4-60, Cl. 332-47.
- Lindsay, Jeffrey B. Structural framework. 2,929,473, 3-22-60, Cl. 189-34.
- Lindsay, John A. Windshield wiper. 2,952,029, 9-13-60, Cl. 15-250.27.
- Lindsay, Lynn G., to Union Tank Car Co. Method of operating water softening apparatus. 2,962,437, 11-29-60, Cl. 210-35.
- Lindsay, Maurice E. Cotton picking spindle with progressively spaced barbs. 2,953,889, 9-27-60, Cl. 56-50.
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- Lindsay, Myles W. Air operated sealant dispenser. 2,943,768, 7-5-60, Cl. 222-327.
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- Lindsay, Will H., Jr., to Borg-Warner Corp. Well perforator shaped charge. 2,926,603, 3-1-60, Cl. 102-20.
- Lindsay, Will H., Jr., to Borg-Warner Corp. Shaped charge unit for well perforators. 2,947,252, 8-2-60, Cl. 102-20.
- Lindsey, Albert S., and D. E. Jameson, to Orenda Engines Ltd. Balances for rotating engine assemblies. 2,964,972, 12-20-60, Cl. 74-573.
- Lindsey, David L.: See—  
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- Lindsey, Joe P., to Phillips Petroleum Co. Normal density function filter. 2,926,249, 2-23-60, Cl. 250-27.
- Lindsey, Joe P., to Phillips Petroleum Co. Seismic exploration. 2,926,331, 2-23-60, Cl. 340-15.



- Lindsey, Joe P.**, to Phillips Petroleum Co. Tuning system. 2,940,062, 6-7-60, Cl. 340-15.
- Lindsey, Martin E.** Wire puller. 2,928,656, 3-15-60, Cl. 254-134.3.
- Lindsey, Robert J.**, to American Steel Foundries. Cushioning device for a shuttle table. 2,922,398, 1-26-60, Cl. 121-38.
- Lindsey, Vurness T.** Guard for a water bag or the like. 2,934,122, 4-26-60, Cl. 150-1.
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- Lindson, John T.**, to National Lead Co. Method for treating titanium metal. 2,959,503, 11-8-60, Cl. 148-20.
- Lindstaedt, Frank F.**, to Campbell Soup Co. Packaging machine. 2,928,222, 3-15-60, Cl. 53-297.
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- Lindstrom, Eddie G.**, and M. R. Barusch, to California Research Corp. Preparation of metal cyclopentadienide. 2,920,090, 1-5-60, Cl. 260-429.
- Lindstrom, Eddie G.**, and M. R. Barusch, to California Research Corp. Amino amide salts of organic monocarboxylic acids as additives for reducing carburetor deposits. 2,922,707, 1-26-60, Cl. 44-86.
- Lindstrom, Eddie G.**, and M. R. Barusch, to California Research Corp. Gasoline compositions. 2,922,708, 1-26-60, Cl. 44-86.
- Lindstrom, Gustaf T.**, to E. I. du Pont de Nemours and Co. Self-compensating comb. 2,950,518, 8-30-60, Cl. 28-55.
- Lindstrom, Gustaf T.**, and D. F. MacMurray, to E. I. du Pont de Nemours and Co. Spin beaming. 2,964,827, 12-20-60, Cl. 28-32.
- Lindström, Karl G. H.**, to Svenska Aekumulator Aktiebolaget Jungner. Hermetically closed storage cell and a method in the manufacture of such cell. 2,927,951, 3-8-60, Cl. 136-77.
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- Lindstrom, Mary D.**, and R. A. Barkhoff, Jr., to Monsanto Chemical Co. Production of acrylate interpolymers aqueous latices. 2,962,465, 11-29-60, Cl. 260-29.6.
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- Line, Gerald D.**, to Eaton Mfg. Co. Hydraulic tappet. 2,943,613, 7-5-60, Cl. 123-90.
- Line, Gerald D.**, to Eaton Mfg. Co. Lubricant delivery control. 2,954,015, 9-27-60, Cl. 123-90.
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- Link Electronics Inc.**: See—
- Ross, James A. 2,935,671.
- Link, Sung-Ching**, to Underwood Corp. Proportional letter-feeding and adjunct features. 2,955,695, 10-11-60, Cl. 197-84.
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- Linkafelter, John W.**, to United States of America, Atomic Energy Commission. Apparatus for arc welding. 2,931,889, 4-5-60, Cl. 219-123.
- Lingel, Frederick J.**, to General Electric Co. Electrical backlash prevention for gear train of servo actuated device. 2,959,975, 11-15-60, Cl. 74-409.
- Lingenbrink, Hermann E. F. C.**, to Philco Corp. Phonograph apparatus. 2,937,027, 5-17-60, Cl. 274-23.
- Lingenbrink, Hermann E. F. C.**, and A. La Bov, to Philco Corp. Positioning servosystem. 2,965,829, 12-20-60, Cl. 318-467.
- Lingg, Alfred, F. Biedermann**, and R. Wick, to Agfa Aktiengesellschaft. Devices for making colored photographic reproductions. 2,961,921, 11-29-60, Cl. 88-24.
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- Linhardt, John H.**, to Agrashell, Inc. Method of filling porous receptacles with powdered materials. 2,964,070, 12-13-60, Cl. 141-7.
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- Link, Harold S.**, and W. H. Schultz, to United States Steel Corp. Method and apparatus for producing anti-skid tread plate. 2,964,419, 12-13-60, Cl. 117-16.
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- Linkenheimer, Wayne H.**, to American Cyanamid Co. Prevention of iron-deficiency anemias in suckling mammals. 2,955,981, 10-11-60, Cl. 167-53.
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- Linlor, William I.**, and Q. A. Kerns, to United States of America, Atomic Energy Commission. Pulsed indicator circuit. 2,960,653, 11-15-60, Cl. 324-61.
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- Linn, Carl B.**, to Universal Oil Products Co. Condensation of nitroaromatic compounds with carbohydrates and related materials. 2,926,175, 2-23-60, Cl. 260-345.9.
- Linn, Carl B.**, to Universal Oil Products Co. Condensation of aromatic sulfonic acids with carbohydrates and related materials. 2,926,176, 2-23-60, Cl. 260-345.9.
- Linn, Carl B.**, to Universal Oil Products Co. Condensation of aminoaromatic compounds with carbohydrates and related materials. 2,926,177, 2-23-60, Cl. 260-345.9.
- Linn, Carl B.**, to Universal Oil Products Co. Condensation of haloaromatic compounds with carbohydrates and related materials. 2,926,178, 2-23-60, Cl. 260-345.9.
- Linn, Carl B.**, to Universal Oil Products Co. Condensation of aromatic aldehydes with carbohydrates and related materials. 2,926,179, 2-23-60, Cl. 260-345.9.
- Linn, Carl B.**, to Universal Oil Products Co. Condensation of aromatic ketones with carbohydrates and related materials. 2,926,180, 2-23-60, Cl. 260-345.9.
- Linn, Carl B.**, to Universal Oil Products Co. Condensation products of sugar acid lactones with aromatic hydrocarbons. 2,938,911, 5-31-60, Cl. 260-343.6.
- Linn, Carl B.**, and J. A. Vesely, to Universal Oil Products Co. Condensation products of sugar acid lactones with aryl halides. 2,938,912, 5-31-60, Cl. 260-343.6.
- Linn, Carl B.**, and J. A. Vesely, to Universal Oil Products Co. Preventing corrosion of ferrous metal surfaces in contact with water. 2,949,338, 8-16-60, Cl. 21-2.7.
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- Lipinski, Henry F.: *See*—
- Morway, Arnold J., Lipinski, and Shearer. 2,930,757.
- Lipinski, Johann, to Messrs. Alex. Friedmann Kommandit-Gesellschaft. Device for the distribution of fluids, particularly of lubricants, to different outlets. 2,960,112, 11-15-60, Cl. 137-625.11.
- Lipinski, Richard J., to Lord Mfg. Co. Treatment of aluminum and composition therefor. 2,945,778, 7-19-60, Cl. 148-6.24.
- Lipinski, Richard J., to Lord Mfg. Co. Treatment of titanium and product, and composition therefor. 2,945,779, 7-19-60, Cl. 148-6.24.
- Lipinski, Vincent, to Harvey Hubbell, Inc. Wire attachment means for electrical terminals. 2,958,068, 10-25-60, Cl. 339-195.
- Lipkin, Daniel M.: *See*—
- Eckert, John P., Jr., Gladwyne, and Lipkin. 2,942,239.
- Lipkin, Daniel M., to Sperry Rand Corp. Transverse magnetic squaring and frequency doubling devices. 2,921,251, 1-12-60, Cl. 321-68.
- Lipkin, Moses R., to Sun Oil Co. Recovery of carbon black. 2,943,064, 6-28-60, Cl. 252-444.
- Lipkins, Morton. Lapping machine. 2,944,375, 7-12-60, Cl. 51-117.
- Lipman, Frederick M., to Charles Marchand Co. Closure for containers. 2,965,257, 12-20-60, Cl. 215-56.
- Lipp, Wilhelm, and H. Mann. Window. 2,956,315, 10-18-60, Cl. 20-56.
- Lippel, Bernard. System for controlling automatic machine tools. 2,927,258, 3-1-60, Cl. 318-39.
- Lippel, Bernard, to United States of America, War. Sound locating means. 2,965,879, 12-20-60, Cl. 340-16.
- Lippel, Saul P., to Eagle Electric Mfg. Co. Inc. Electrical connector. 2,959,763, 11-8-60, Cl. 339-196.
- Lippert, Hans, and E. Mühlemann, to Machine Tool Work Oerlikon, Administration Co. Automatic firearm. 2,962,936, 12-6-60, Cl. 89-190.
- Lippert, William G., to Manley, Inc. Corn and salt dispenser for popcorn machines. 2,948,438, 8-9-60, Cl. 222-145.
- Lippincott, Donald K., to Monogram Precision Industries, Inc. Driver for inductive loads. 2,941,125, 6-14-60, Cl. 317-123.
- Lippincott, Samuel B.: *See*—
- Morway, Arnold J., Bartlett, Gleason, and Lippincott. 2,929,785.
- Lippke, Paul R. Method and device for regulating the moisture content of endless moving webs of fibrous material. 2,951,007, 8-30-60, Cl. 162-198.
- Lippmann, Alfred, Jr., and L. Godchaux II, to The National Sugar Refining Co. Method for producing solutions. 2,929,747, 3-22-60, Cl. 127-63.
- Lippmann, David Z.: *See*—
- Fulton, Nathaniel D., and Lippmann. 2,926,872.
- Lipps, Delbert A., to Freeport Sulphur Co. Means for transferring corrosive liquids. 2,921,600, 1-19-60, Cl. 137-340.
- Lips N.V.: *See*—
- Klaassen, Hendrik, and Daane. 2,946,317.
- Lipscomb, John W. Method and apparatus for seismic prospecting. 2,960,379, 11-15-60, Cl. 346-107.
- Lipscomb, Robert D., to E. I. du Pont de Nemours and Co. Preparation of thiocarbonyl fluoride. 2,952,706, 9-13-60, Cl. 260-543.
- Lipscomb, Willis L. Lighting fixture. 2,927,993, 3-8-60, Cl. 240-78.
- Lipsey, David H.: *See*—
- Toman, James T. 2,945,480.
- Lipsitz, Robert J., to Towa Trading Co., Ltd. Article carrying bags. 2,960,137, 11-15-60, Cl. 150-52.
- Lipton, Alvin H.: *See*—
- McKibben, Robert F., and Lipton. 2,953,527.
- Lipton, Nat. Tooth paste dispenser and cover for same. 2,932,431, 4-12-60, Cl. 222-93.
- Lipton, Thomas J., Inc.: *See*—
- Charlie, Harry J., and Savage. 2,927,861.
- Seltzer, Edward. 2,944,904.
- Seltzer, Edward, and Saporito. 2,927,860.
- Liqua-Mix, Inc.: *See*—
- Hoover, Charles D. 2,954,737.
- Liqua-Pak, Inc.: *See*—
- Lane, George W., and Sawicki. 2,934,130.
- Lane, George W., and Sawicki. 2,966,021.
- Liquefreeze Co., Inc.: *See*—
- Morrison, Willard L. 2,942,428.
- Morrison, Willard L. 2,948,123.
- Morrison, Willard L. 2,951,353.
- Morrison, Willard L. 2,951,608.
- Morrison, Willard L. 2,957,318.
- Morrison, Willard L. 2,959,034.
- Morrison, Willard L. 2,964,412.
- Liquid Controls Corp.: *See*—
- Billeter, Henry R. 2,940,460.
- Billeter, Henry R., and Richards. 2,955,797.
- Richards, George B. 2,957,490.
- Liquidometer Corp., The: *See*—
- Anderson, Wilmer C. 2,931,224.
- Campani, Louis M. 2,942,467.
- De Giers, Clarence A. 2,926,528.
- Gronner, Alfred D. 2,919,579.
- Lisac, Leonardo. Device for checking the level of liquids in containers, tanks or boilers. 2,962,566, 11-29-60, Cl. 200-83.
- Lisanke, Robert J.: *See*—
- Pike, Ronald M., and Lisanke. 2,942,019.
- Lisiak, Sergio. Automatic valve for inflation of automobile tires. 2,933,098, 4-19-60, Cl. 137-224.
- Lisiak, Sergio. Combined tire inflation valve and indicator. 2,933,099, 4-19-60, Cl. 137-227.
- Lisinski, Joseph E., to International Business Machines Corp. Intermittent drive mechanism. 2,933,931, 4-26-60, Cl. 74-144.
- Lisinski, Joseph E., to International Business Machines Corp. High speed tape punch. 2,946,381, 7-26-60, Cl. 164-115.
- Liske, Kath: *See*—
- Schlichting, Karl F. 2,961,697.
- Liskey Aluminum, Inc.: *See*—
- Liskey, Ernest C., Jr. 2,956,652.
- Liskey, Ernest C., Jr. 2,956,653.
- Liskey, Ernest C., Jr., to Liskey Aluminum, Inc. Elevated false floor. 2,956,652, 10-18-60, Cl. 189-34.



- Liskey, Ernest C., Jr., to Liskey Aluminum, Inc. Elevated false floor. 2,956,653, 10-18-60, Cl. 189-34.
- Lisle Corp.: *See*—
- Brooks, Thomas E. 2,961,765.
- Lisowski, Frank B.: *See*—
- Lisowski, John A., F. B., and L. E. 2,929,487.
- Lisowski, John A., F. B., and L. E. 2,964,300.
- Lisowski, John A., F. B., and L. E., to Natural Products Co. Transfer apparatus. 2,929,487, 3-22-60, Cl. 198-20.
- Lisowski, John A., F. B., and L. E., to Natural Products Co. Apparatus for processing small parts by tumbling. 2,964,300, 12-13-60, Cl. 259-57.
- Lisowski, Leonard E.: *See*—
- Lisowski, John A., F. B., and L. E. 2,929,487.
- Lisowski, John A., F. B., and L. E. 2,964,300.
- Lisowy, William. Fish hook tackle box. 2,924,908, 2-16-60, Cl. 43-57.5.
- Liss, Fabian T., to United States of America, Army. Broad band low capacity microwave balanced mixer. 2,943,192, 6-28-60, Cl. 250-20.
- Liss, Raymond L.: *See*—
- Flitcraft, Richard K., Satkowski, Schauer, and Liss. 2,925,390.
- Lissarrague, Pierre J. Device for forming an opening in a metallic panel. 2,965,836, 12-20-60, Cl. 244-129.
- List, Heinz, to Buss A.G. Apparatus for the continuous treatment of solid substances with liquids or gases. 2,921,842, 1-19-60, Cl. 23-270.
- List, Heinz, and R. Wollak, to Buss A.G. Method and apparatus for the continuous production of hydrofluoric acid. 2,932,557, 4-12-60, Cl. 23-153.
- Lister, Leslie, and F. M. P. Meredith, to Aluminium Laboratories Ltd. Acid purification of hydrocarbon lubricants contaminated by aluminum salts. 2,952,624, 9-13-60, Cl. 208-181.
- Lister-Todd Engineering Corp. Ltd.: *See*—
- Morris, Alberto J. 2,926,455.
- Liston, Marcia B.: *See*—
- Bletcher, Ralph E., Ward, and Bucknell. 2,923,315.
- Liston, Max D., to Beckman Instruments, Inc. Instruments. 2,924,713, 2-9-60, Cl. 250-43.5.
- Litchard, Alexander. Bag feeding mechanism. 2,950,589, 8-30-60, Cl. 53-190.
- Litchfield, John T., Jr.: *See*—
- Roeck, Raymond R., and Litchfield. 2,927,573.
- Litchfield, Roland G.: *See*—
- Homier, Paul A., and Litchfield. 2,935,065.
- Litchfield, Roland G., and R. H. Frese, Jr., to Johnson & Johnson. Surgical plaster roll. 2,964,174, 12-13-60, Cl. 206-59.
- Lithibar Co., The: *See*—
- Savage, Kenneth W. and L. H. 2,930,260.
- Savage, Kenneth W., and L. H. 2,953,947.
- Lithio, Clarence N., to Rapinwax Paper Co. Banding device for wrapping machines. 2,954,069, 9-27-60, Cl. 154-1.6.
- Litho Chemical and Supply Co. Inc.: *See*—
- Hodgins, George R., Di Cyan, and Timmerman. 2,950,195.
- Lithographic Technical Foundation: *See*—
- Borchers, Charles H. 2,949,850.
- Litman, Chester K., to Koch Refrigerators, Inc. Refrigerator. 2,928,262, 3-15-60, Cl. 62-419.
- Litochlib, Joseph: *See*—
- Machalek, Ferdinand and L. 2,958,249.
- Littelfuse, Inc.: *See*—
- Ellithorpe, Gilbert S. 2,951,917.
- Littell, Charles C., Jr. Oven. 2,944,540, 7-12-60, Cl. 128-273.
- Littell, F. J., Machine Co.: *See*—
- Littell, Frederick M., and Budlong. 2,947,537.
- Littell, Frederick M., and S. Budlong, to F. J. Littell Machine Co. Lock-up means for overriding drives. 2,947,537, 8-2-60, Cl. 271-2.4.
- Little, Arthur D., Inc.: *See*—
- Buck, Dudley A. 2,936,435.
- Buck, Dudley A. 2,959,688.
- Clancy, John J., Poole, and Wells. 2,961,334.
- Collins, Samuel C. 2,946,199.
- Ennis, John L. 2,947,599.
- Gifford, William E. 2,966,034.
- Gifford, William E. 2,966,035.
- Gifford, William E. 2,966,037.
- James, Raymond W., and Merrill. 2,928,446.
- Key, Donald E., Dubitzky, and Pierce. 2,928,386.
- Lamade, Ralph M., Jr., Whitehouse, Di Maggio, Hall, and Wood. 2,954,906.
- Lincoln, John W. 2,945,244.
- Lothrop, Warren C. 2,950,562.
- McMahon, Howard O. 2,938,356.
- McMahon, Howard O. 2,958,836.
- Mignone, Albert E., and Wells. 2,935,369.
- Sheehan, John C. 2,938,892.
- Slade, Albert E. 2,946,030.
- Sparrow, Donald B. 2,958,622.
- Little, Arthur W.: *See*—
- Heffelfinger, Robert D., and Little. 2,932,151.
- Little, Arthur W., to American Viscose Corp. Yarn twister tension device. 2,936,566, 5-17-60, Cl. 57-58.86.
- Little, Frank A.: *See*—
- Cogley, James J., Little, and Starkey. 2,930,009.
- Little, Howard M.: *See*—
- Baumbach, Harlan L., and Little. 2,935,923.
- Baumbach, Harlan L., and Little. 2,939,372.
- Little, Howard M., and J. K. Notthoff, to Unicorn Engineering Corp. Coding apparatus for information storage tapes and the like. 2,945,538, 7-19-60, Cl. 164-113.
- Little, Larry L., to Joy Mfg. Co. Automatic field strength control for precipitators. 2,943,697, 7-5-60, Cl. 183-7.
- Little, Larry L., to Joy Mfg. Co. Space charge regulator. 2,964,692, 12-13-60, Cl. 321-42.
- Little, Randel Q., Jr., and R. W. Watson, to Standard Oil Co. Non-corrosive lubricant composition. 2,963,432, 12-6-60, Cl. 252-32.7.
- Little, Randel Q., Jr., and R. W. Watson, to Standard Oil Co. Lubricant composition. 2,963,433, 12-6-60, Cl. 252-32.7.
- Little, Ray R. Hose roller. 2,960,279, 11-15-60, Cl. 242-86.1.
- Little, Reuel W. Tree injector cutting bit. 2,927,401, 3-8-60, Cl. 47-57.5.
- Little, Reuel W. Tree injector with trigger controlled valve. 2,934,859, 5-3-60, Cl. 47-57.5.
- Littlefield, Kenneth E., and J. L. Myers, to Bendix Aviation Corp. Broad range phase discriminator. 2,928,047, 3-8-60, Cl. 324-83.
- Littleford, Alfred L.: *See*—
- Matthews, Blake, and Littleford. 2,935,954.
- Littlehale, Bradner M., to Foster & Allen, Inc. Rod cutting apparatus with adjustable guide means for supporting the rod to be cut. 2,953,956, 9-27-60, Cl. 83-444.
- Littlejohn, Henry C., to General Radio Co. Instrument carrying case. 2,966,257, 12-27-60, Cl. 206-45.13.
- Littleton, Harry R. Garbage can and cover. 2,925,190, 2-16-60, Cl. 220-18.
- Littmann, Hans: *See*—
- Dopp, Paul, and Littmann. 2,930,379.
- Litton, Charles V.: *See*—
- Crapuchettes, Paul W. 2,928,023.
- Litton, Charles V., to Litton Industries, Inc. Delay line. 2,947,906, 8-2-60, Cl. 315-3.5.
- Litton Industries of California: *See*—
- Curtis, Daniel L. 2,932,778.
- Curtis, Daniel L. 2,960,690.
- Crapuchettes, Paul W. 2,947,908.
- Hesse, Victor L. 2,923,929.
- Kumpfer, Beverly D. 2,953,715.
- Steele, Floyd G. 2,941,097.
- Steinman, Leon H. 2,933,722.
- Steinman, Leon H., and MacKnight. 2,946,900.
- Litton Industries, Inc.: *See*—
- Clark, John W., and Wilson. 2,926,262.
- Crapuchettes, Paul W. 2,946,918.
- Curtis, Daniel L. 2,957,089.
- Curtis, Daniel L., and Larsen. 2,931,691.
- Fomenko, S. M. 2,950,353.
- Hesse, Victor L., and Felsman. 2,922,095.
- Litton, Charles V. 2,947,906.
- Singleton, Henry E., and Erdley. 2,933,925.
- Singleton, Henry E., and Erdley. 2,949,785.
- Littwin, Arthur K., to R. L. and A. K. Littwin and L. W. Bier, trustees. Demagnetizing apparatus. 2,946,932, 7-26-60, Cl. 317-157.5.
- Littwin, Robert L.: *See*—
- Littwin, Arthur K. 2,946,932.
- Litvan, Franz, and W. Stoll, to Geigy Chemical Corp. Aryloxy acetic acid amides. 2,948,754, 8-9-60, Cl. 260-559.
- Litwin, Walter J., and F. E. Williams, to Sperry Rand Corp. Variable coupling transformer device. 2,921,280, 1-12-60, Cl. 336-120.
- Litz, Lawrence M.: *See*—
- Finn, John M., Jr., Litz, and Plooster. 2,952,591.
- Litzler, C. A., Co., Inc.: *See*—
- Litzler, Cyril A., and Horazak. 2,955,342.
- Litzler, Cyril A. Apparatus for controlled heating and cooling of continuous textile material. 2,952,078, 9-13-60, Cl. 34-68.
- Litzler, Cyril A., and J. A. Horazak; said Horazak assor. to C. A. Litzler Co., Inc. Fabric treating furnace having common hot and cold air ducts and traveling dampers. 2,955,342, 10-11-60, Cl. 26-54.
- Liu, Edward Y. F.: *See*—
- Walden, John G., and Liu. 2,951,602.
- Liu, Frederick F.: *See*—
- Berwin, Teddy W., and Liu. 2,962,625.
- Liu, Frederick F., and T. W. Berwin, to North American Aviation, Inc. Dyna-electronic transientgraph. 2,924,777, 2-9-60, Cl. 324-83.
- Liu, Yee J.: *See*—
- Campbell, John O., and Liu. 2,933,726.
- Campbell, John O., and Liu. 2,966,552.
- Livak, John E., to Deering Milliken Research Corp. Fugitive coloration. 2,920,975, 1-12-60, Cl. 106-305.
- Livermont, Frank W. Detachable wrench head construction. Re. 24,831, 5-31-60, Cl. 81-177.
- Livermont, Frank W. Trailer frame support. 2,924,463, 2-9-60, Cl. 280-150.5.
- Livermore, Charles S.: *See*—
- Reintjes, Harold, Hughes, and Livermore. 2,924,511.
- Livermore, H. F., Corp.: *See*—
- Urquhart, Lloyd G. 2,931,395.
- Urquhart, Lloyd G. 2,936,003.
- Urquhart, Lloyd G. 2,949,938.
- Urquhart, Lloyd G., and Thal. 2,925,739.
- Livermore, William T. Fluid pressure control system for automatic transmissions. 2,919,603, 1-5-60, Cl. 74-645.



- Liversage, Glen, to Metalastik Ltd. Resilient suspension joints. 2,935,347, 5-3-60, Cl. 287-85.
- Livezey, William G.: *See*—  
Christenson, Howard W., and Livezey. 2,953,040.
- Livingston, A. Kip: *See*—  
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Blank, Fritz A., and Oxberry. 2,950,647.  
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- Livingston & Co.: *See*—  
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- Livingston, Donald C., to Sylvania Electric Products Inc. Electroluminescent device. 2,932,770, 4-12-60, Cl. 315-151.
- Livingston, Jay K., and E. C. Shaver; said Shaver assor. to Brown & Root, Inc. Combined mower, edger, and trimmer. 2,938,323, 5-31-60, Cl. 56-25.4.
- Livingston, Leo. Work support for centerless grinder. 2,952,953, 9-20-60, Cl. 51-238.
- Livingston, Orrin W.: *See*—  
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- Livingston, Orrin W., to General Electric Co. Automatic programming control system. 2,946,993, 7-26-60, Cl. 340-347.
- Livingston, Penn P. Machine for pouring concrete pipe in situ. 2,937,429, 5-24-60, Cl. 25-32.
- Livingston, Schuyler D. Sign supporting bracket. 2,956,768, 10-18-60, Cl. 248-324.
- Livingstone, Donald D.: *See*—  
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- Livington, Donald C., to Sylvania Electric Products Inc. Electroluminescent device. 2,930,897, 3-29-60, Cl. 250-213.
- Livsey, Lawrence H.: *See*—  
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- Livsey, William J. and L. H. Window construction. 2,933,777, 4-26-60, Cl. 20-49.
- Lizenzia A.G.: *See*—  
Meek, George W. 2,919,861.  
Munsters, Carl G., and Norbäck. 2,926,502.
- Lizza, Albert J., to United States of America, Army. Bolt mechanism for firearms. 2,920,538, 1-12-60, Cl. 89-185.
- Lizza, Albert J., to United States of America, Army. Lock means for telescopic firearm bolts. 2,960,917, 11-22-60, Cl. 89-190.
- Lizza, Patrick. Atom bomb simulator. 2,934,013, 4-26-60, Cl. 102-37.2.
- Lizzadro, Joseph F. Machine for pushing pipe or conduit. 2,950,085, 8-23-60, Cl. 254-29.
- Ljungbo, Sven O. B. Run-resistant knitted stocking. 2,962,384, 11-29-60, Cl. 117-38.
- Ljungstrom, Fredrik,  $\frac{1}{2}$  to Svenska Skifferolje Aktiebolaget, and  $\frac{1}{2}$  to Husky Oil Co. Situ recovery from carbonaceous deposits. 2,923,535, 2-2-60, Cl. 262-3.
- Ljungstrom, Fredrik,  $\frac{1}{2}$  to Svenska Skifferolje Aktiebolaget, and  $\frac{1}{2}$  to Husky Oil Co. Electrical heater for treating oil-shale and the like. 2,939,689, 6-7-60, Cl. 262-3.
- Lloyd, Allen H., to Tech-Art Inc. Box setting up machine. 2,924,156, 2-9-60, Cl. 93-49.
- Lloyd, Donald W.: *See*—  
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- Lloyd, Harold B. Bathroom appliance. 2,954,046, 9-27-60, Cl. 137-467.
- Lloyd, Harold E., to The Duplan Corp. Speed controlling apparatus for yarn twisting machines. 2,933,881, 4-26-60, Cl. 57-93.
- Lloyd, John G.: *See*—  
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- Lloyd, John K., to The Kendall Co. Sterile packages. 2,959,280, 11-8-60, Cl. 206-63.3.
- Lloyd, Roger A., to Alloy Engineering Laboratory, Inc. Chemical heating composition, heating unit containing the same and method of manufacture. 2,953,443, 9-20-60, Cl. 44-3.
- Lloyd-Young, Carysfort F. Eyeglass holding shelf. 2,930,567, 3-29-60, Cl. 248-309.
- Lloyd-Young, Carysfort F. Leg rests. 2,935,123, 5-3-60, Cl. 155-171.
- Lloyd-Young, Carysfort F. Picture hanger. 2,940,712, 6-14-60, Cl. 248-205.
- Lo, Arthur W.: *See*—  
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Rajchman, Jan A., and Lo. 2,942,240.
- Lo, Arthur W., to Radio Corp. of America. Switching circuit. 2,920,215, 1-5-60, Cl. 307-88.5.
- Lo, Arthur W., to Radio Corp. of America. Signal-responsive circuits. 2,941,090, 6-14-60, Cl. 307-88.
- Lo, Chien-Pen: *See*—  
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- Lo, Chien-Pen, to Rohm & Haas Co. 2-thiocyanomethyl-1,2-benzisothiazolin-3-one-1,1-dioxide. 2,949,399, 8-16-60, Cl. 167-33.
- Lo, Chien-Pen, to Rohm & Haas Co. 1-thiocyanomethyl-1H-benzotriazole and 3-thiocyanomethyl-1,2,3-benzotriazin-4(3H)-one. 2,949,465, 8-16-60, Cl. 260-248.
- Lo, Chien-Pen, J. C. Lo Cicero, and A. B. Law, to Rohm & Haas Co. Quaternary ammonium bactericides. 2,951,788, 9-6-60, Cl. 167-30.
- Lo, Elizabeth S.: *See*—  
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Bolstad, Archibald N., and Lo. 2,951,063.
- Lo, Elizabeth S., to Minnesota Mining and Mfg. Co. Chloroprene copolymers. 2,938,888, 5-31-60, Cl. 260-87.5.
- Lo, Elizabeth S., to Minnesota Mining and Mfg. Co. New halogen-containing polymers and preparation thereof. 2,951,064, 8-30-60, Cl. 260-87.5.
- Lo, Elizabeth S., to Minnesota Mining and Mfg. Co. Pentafuorobutadiene copolymers. 2,959,575, 11-8-60, Cl. 260-87.5.
- Lo, Elizabeth S., and G. H. Crawford, Jr., to Minnesota Mining and Mfg. Co. 2-trifluoromethyl-butadiene copolymers and preparation thereof. 2,951,065, 8-30-60, Cl. 260-87.7.
- Loader, Jesse, to Rotax Ltd. Nozzles for air or other gas driven turbines. 2,942,845, 6-28-60, Cl. 253-78.
- Lobbecke, Ernst, to Strico Gesellschaft für Metallurgie und Warmetechnik m.b.H. Continuously operable cupola furnace for producing iron having a predetermined carbon content. 2,960,330, 11-15-60, Cl. 266-25.
- Lober, Friedrich: *See*—  
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Roos, Ernst, Lober, and Koerner. 2,946,765.
- Lober, Friedrich, H. Freytag, and E. Kracht, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of benzthiazole-2-dicycloalkyl-sulphenamides. 2,930,794, 3-29-60, Cl. 260-306.6.
- Loberg, Torsten: *See*—  
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- Lobosco, Roscoe R.: *See*—  
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- Lobur, Walter: *See*—  
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- Locanthi, Bart N., and A. D. Diercks, to Computer Engineering Associates, Inc. Transistor power supply. 2,948,841, 8-9-60, Cl. 321-2.
- Lo Celso, Antonio, and G. Rizzo. Photoelectric devices for switching the dazzling headlights of motor-vehicles. 2,922,077, 1-19-60, Cl. 315-83.
- Locher, Hans, to Zellweger Ltd. Method and apparatus for automatically controlling the weight per unit length of textile materials. 2,950,508, 8-30-60, Cl. 19-70.
- Locher, Hans, and E. Felix, to Zellweger A.G. Method and means for determining periodic variations in variables especially in the cross-section of textiles. 2,950,435, 8-23-60, Cl. 324-61.
- Lo Cicero, Joseph C.: *See*—  
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- Lo Cicero, Joseph C., C. P. Lo, and A. B. Law, to Rohm & Haas Co. Quaternary ammonium bactericides. 2,951,787, 9-6-60, Cl. 167-30.
- Locke, Burton H. Folding liquid containers. 2,925,949, 2-23-60, Cl. 229-23.
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- Locke, George A.: *See*—  
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- Locker, Hans, to Fruehauf Trailer Co. Wheel suspension. 2,920,903, 1-12-60, Cl. 280-104.5.
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- Lockery, Harry E.: *See*—  
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- Lockhart, Robert K., to Radio Corp. of America. Color television. 2,938,073, 5-24-60, Cl. 178-5.4.
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- Lode, Tenny. Electric wave circuit. 2,965,832, 12-20-60, Cl. 323—18.
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- Loewe, Siegmund. Braking magnetic tape reels. 2,962,237, 11-29-60, Cl. 242—55.12.
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- Lomax, Clarence E., to General Telephone Laboratories, Inc. Small suboffice telephone system. 2,921,984, 1-19-60, Cl. 179-17.
- Lomax, Clarence E., to General Telephone Laboratories, Inc. Selector. 2,934,607, 4-26-60, Cl. 179-18.
- Lomax, Clarence E., to Automatic Electric Laboratories, Inc. Toll telephone system. 2,943,154, 6-28-60, Cl. 179-27.



- Lomax, Clarence E., to Automatic Electric Laboratories, Inc. Telephone system. 2,955,160, 10-4-60, Cl. 179-6.3.
- Lomax, Clarence E., to Automatic Electric Laboratories, Inc. Public announcing system. 2,966,551, 12-27-60, Cl. 179-6.
- Lombard, Adrian A., to Rolls-Royce Ltd. Bladed stator or rotor constructions with means to supply a fluid internally of the blades. 2,920,865, 1-12-60, Cl. 253-39.15.
- Lombard, Adrian A., to Rolls-Royce Ltd. Control systems. 2,955,658, 10-11-60, Cl. 170-135.72.
- Lombard, Adrian A., and P. G. Binns, to Rolls-Royce Ltd. Rotors of turbines and compressors. 2,928,649, 3-15-60, Cl. 253-39.
- Lombard, Adrian A., and F. W. W. Morley, to Rolls-Royce Ltd. Gas turbine engines. 2,938,342, 5-31-60, Cl. 60-39.31.
- Lombard, Adrian A., and D. O. Davies, to Rolls-Royce Ltd. Supplying air to internal components of engines. 2,940,258, 6-14-60, Cl. 60-39.66.
- Lombard, Charles F.: See—
- Roth, Herman P., and Lombard. 2,923,941.
- Lombard Corp.: See—
- Katko, Daniel A. 2,960,220.
- Katko, Daniel A., and Sgambati. 2,959,990.
- McMullen, James W., and Wells. 2,925,003.
- Lombard, Daniel L., to Lombard Corp. Induction furnace. 2,950,374, 8-23-60, Cl. 219-10.67.
- Lombard, George A. Fireplace template. 2,923,065, 2-2-60, Cl. 33-174.
- Lombard, Ralph S., to United Aircraft Corp. Bearing support structure. 2,938,754, 5-31-60, Cl. 308-22.
- Lombardi, Jacques. Timber transporting power device. 2,929,494, 3-22-60, Cl. 203-220.
- Lombardi, Joseph J. Synchronizing device. 2,942,246, 6-21-60, Cl. 340-213.
- Lombardi, Mario. Automobile combination ignition starter. 2,964,935, 12-20-60, Cl. 70-252.
- Lombardo, Angelo R.: See—
- Boode, Carl N., Lombardo, and Whitehorn. 2,956,252.
- Lombardo, Flora: See—
- Morris, Lester, and Lombardo. 2,944,919.
- Morris, Lester, and Lombardo. 2,952,562.
- Lombardo, Pasquale: See—
- Gilbert, Everett E., and Lombardo. 2,951,083.
- Lombardo, Vincent, and L. Newfield, to Perfect Doll Moulds Co. Inc. Clamping devices. 2,926,387, 3-1-60, Cl. 18-43.
- Lombi, Louis G. Mixing and kneading machine. 2,923,258, 2-2-60, Cl. 107-36.
- Lomen, Carlton J., and K. G. Coleman. Tire demounting stand. 2,920,664, 1-12-60, Cl. 144-288.
- Lomen, Carlton J., and K. G. Coleman. Demountable tail gate elevator. 2,949,197, 8-16-60, Cl. 214-75.
- Lonabaugh, E. E.: See—
- Tryon, David H. 2,947,468.
- Lonaberger, Robert F., and D. Hahn, to Stickler Associates, Inc. Injector. 2,960,831, 11-22-60, Cl. 61-36.
- Londat Aetz Fabric Co.: See—
- Weisberg, Harry. 2,921,934.
- Londell, William J., Jr., to Gulton Industries, Inc. Connector. 2,944,241, 7-5-60, Cl. 339-91.
- Londell, William J., Jr., to Gulton Industries, Inc. Resonant reed relay. 2,950,368, 8-23-60, Cl. 200-87.
- London, Coy E. Boat trailer. 2,920,901, 1-12-60, Cl. 280-43.19.
- London, Joseph C., and J. Garland, to Metropolitan-Vickers Electrical Co. Ltd. Spring-loaded valves for fluid flow control. 2,930,249, 3-29-60, Cl. 74-470.
- London Rubber Co. Ltd.: See—
- Davis, Frederick L. 2,941,257.
- Lombard, Daniel L. 2,950,374.
- London, William H.: See—
- Johnson, Christopher L., and London. 2,925,712.
- Long, Alan G.: See—
- Green, George F. H., Hamlet, and Long. 2,945,027.
- Long, Alton B., to J. I. Case Co. Bulldozer blade mounting. 2,943,407, 7-5-60, Cl. 37-144.
- Long, Arch O., Sr. Pressing machine. 2,958,967, 11-8-60, Cl. 38-25.
- Long, Arthur R., to Long Industries, Inc. Flexible strap wrench with wedge lock. 2,960,896, 11-22-60, Cl. 81-64.
- Long, Ballard E., Jr. 49% to C. C. Mason. Thermostatic valves. 2,960,270, 11-15-60, Cl. 236-34.
- Long, Benjamin H., to Tobacco Machine Supply Co., Inc. Tobacco stripping and booking machine. 2,949,118, 8-16-60, Cl. 131-125.
- Long, Bernard, to Compagnies Reunies des Glaces & Verres Speciaux du Nord de la France. Method and apparatus for continuously drawing a glass sheet. 2,928,212, 3-15-60, Cl. 49-17.
- Long, Bernard, to Glaces de Boussols, S.A. Method for cleaving glass sheets and new articles of manufacture thereby obtained. 2,959,507, 11-8-60, Cl. 154-2.73.
- Long, Byron J. Mooring and rigging device. 2,962,998, 12-6-60, Cl. 114-218.
- Long, Charles C.: See—
- Jordan, Prentiss, and Long. 2,935,225.
- Long, Charles S.: See—
- Muller, Nathan W., and Long. 2,944,911.
- Long, Clark M.: See—
- McMurtrey, Lawrence J., and Long. 2,957,308.
- Long Co., The: See—
- Long, John B. 2,925,253.
- Long, John B. 2,933,177.
- Long and Co. Inc.: See—
- Long, David I. 2,926,808.
- Long, David I., to Long and Co. Inc. Labelling apparatus. 2,926,808, 3-1-60, Cl. 216-60.
- Long, David M., to Owens-Corning Fiberglass Corp. Method and apparatus for forming fibrous glass. 2,931,422, 4-5-60, Cl. 154-29.
- Long, Donald A.: See—
- Mosher, Walter W., Jr., Goldammer, and Long. 2,954,621.
- Long, Donald A., to Precision Dynamics Corp. Permanently locking snap fastener. 2,941,270, 6-21-60, Cl. 24-217.
- Long, Donald E.: See—
- Long, Francis L. and D. E. 2,952,551.
- Long, Elton B., to J. I. Case Co. Bulldozer. 2,942,363, 6-28-60, Cl. 37-144.
- Long, Everett, and R. J. Symes, to United Kingdom Atomic Energy Authority. Heat exchangers. 2,930,592, 3-29-60, Cl. 257-199.
- Long, Florren E., to Continental Can Co., Inc. Method of packaging food slices. 2,927,029, 3-1-60, Cl. 99-171.
- Long, Francis L. and D. E. Method of making a packaged frozen egg product. 2,952,551, 9-13-60, Cl. 99-196.
- Long, Francis V. Sectionalized boat assembly. 2,919,451, 1-5-60, Cl. 9-2.
- Long, Frank M. Electric hand saw mitering guide. 2,941,554, 6-21-60, Cl. 143-6.
- Long, Geary A., Jr. Radiation receiver. 2,931,913, 4-5-60, Cl. 250-209.
- Long, Gebhard J. Rotary earth drilling apparatus and method. 2,948,514, 8-9-60, Cl. 255-1.8.
- Long, George: See—
- Foster, Luther M., and Long. 2,962,370.
- Long, George, and T. Tsuchiya, to General Mills, Inc. Vibratory conveyors. 2,951,581, 9-6-60, Cl. 198-220.
- Long, George B., to General Motors Corp. Domestic appliance. 2,921,171, 1-12-60, Cl. 219-10.55.
- Long, George B., to General Motors Corp. Combined clothes washer and extractor. 2,921,459, 1-19-60, Cl. 68-23.
- Long, George B., to General Motors Corp. Refrigerator with heating means. 2,953,357, 9-20-60, Cl. 257-291.
- Long, George B., to General Motors Corp. Domestic appliance. 2,961,520, 11-22-60, Cl. 219-10.55.
- Long, Harold A.: See—
- Williams, Paul H., Green, Schaefer, and Long. 2,935,934.
- Long, Henry A.: See—
- Dungan, Richard T., Long, Stupka, Taylor, and Wise. 2,966,140.
- Long Industries, Inc.: See—
- Long, Arthur R. 2,960,896.
- Long, Jasper, to Wade Electric Products Co. Switch. 2,937,245, 5-17-60, Cl. 200-16.
- Long, John B., to The Long Co. Remote control unit for hydraulically operated tools. 2,925,253, 2-16-60, Cl. 255-47.
- Long, John B., to The Long Co. Belt handling apparatus. 2,933,177, 4-19-60, Cl. 198-139.
- Long, John B., and C. E. Johnston, to Marmon-Herrington Co., Inc. Belt conveyor cover. 2,955,702, 10-11-60, Cl. 198-204.
- Long, John C. Venetian blind holder. 2,925,861, 2-23-60, Cl. 160-178.
- Long, John R., to Shuford Mills, Inc. Belt tensioning motor support. 2,927,471, 3-8-60, Cl. 74-242.14.
- Long, Lamar E., to Minnesota Mining and Mfg. Co. Perfluorochloroolefin primer composition, method of coating therewith and article produced thereby. 2,961,341, 11-22-60, Cl. 117-75.
- Long-Lok Corp.: See—
- McKay, Thomas L., Oliver, and Starriett. 2,956,293.
- Long, Lonnie: See—
- Bush, John W., and Long. 2,923,120.
- Long Mfg. Co.: See—
- Long, William R., and Rawlins. 2,940,615.
- Long Mfg. Co., Inc.: See—
- Long, William R. 2,948,101.
- Long, Marshall. Roller-type linear actuator. 2,961,887, 11-29-60, Cl. 74-424.8.
- Long, Paul M. Color-changing fountain. 2,958,468, 11-1-60, Cl. 239-20.
- Long, Richard H. Drilling method and apparatus. 2,930,586, 3-29-60, Cl. 225-1.8.
- Long, Robert B.: See—
- Dudley, Richard H., Long, Rohrer, and Strickland. 2,935,464.
- Hartzband, Harry M., Tarmy, and Long. 2,951,022.
- Longwell, John P., Lucchesi, and Long. 2,962,430.
- Long, Robert B., R. W. Houston, H. J. Hibbsman, and J. P. Longwell, to Esso Research and Engineering Co. Neutron irradiated hydrocarbon conversion process. 2,959,529, 11-8-60, Cl. 204-154.
- Long, Robert B., P. J. Lucchesi, B. L. Tarmy, and C. L. Read, to Esso Research and Engineering Co. Radiochemical hydrogenation process. 2,959,530, 11-8-60, Cl. 204-154.
- Long, Robert S.: See—
- Clauser, Herbert C., and Long. 2,920,560.
- Long, Selma H., J. W. Tamblin, and L. D. Moore, Jr., to Eastman Kodak Co. Linear polyester compositions containing an alkyl gallate as a heat stabilizer. 2,945,000, 7-12-60, Cl. 260-45.85.



- Long, Theodore M. Cooled combustion chamber liner and nozzle supported in buckling modes. 2,955,415, 10-11-60, Cl. 60-35.6.
- Long, Thomas R., to Bell Telephone Laboratories, Inc. Light beam apparatus. 2,936,381, 5-10-60, Cl. 250-231.
- Long, Thomas R., and R. M. Wolfe, to Bell Telephone Laboratories, Inc. Ferroelectric storage device. 2,957,164, 10-18-60, Cl. 340-173.2.
- Long, Veron E., to Northrop Corp. Static grounding connection. 2,958,843, 11-1-60, Cl. 339-61.
- Long, William J.: *See—*  
De Villers, Edmund J., and Long. 2,947,992.
- Long, William J., to Minneapolis-Honeywell Regulator Co. Indication apparatus. 2,947,244, 8-2-60, Cl. 101-77.
- Long, William R., to Long Mfg. Co., Inc. Hay baler. 2,948,101, 8-9-60, Cl. 56-341.
- Long, William R. Material handling equipment. 2,952,370, 9-13-60, Cl. 214-5.5.
- Long, William R., and P. J. T. Rawlins, to Long Mfg. Co. Tobacco harvesting device. 2,940,615, 6-14-60, Cl. 214-5.5.
- Longarzo, Roland P. Electric signal assembly. 2,942,234, 6-21-60, Cl. 340-47.
- Longdon, John T., to International Harvester Co. Automatic assembly machine. 2,929,484, 3-22-60, Cl. 198-19.
- Longenecker, Charles I., to Chain Belt Co. Self-priming centrifugal pump. 2,944,489, 7-12-60, Cl. 103-113.
- Longenecker, Ernst A. Engine distributor and method of adjustment thereof. 2,923,785, 2-2-60, Cl. 200-31.
- Longenecker, Irvin R. Valve operating mechanism. 2,934,052, 4-26-60, Cl. 123-90.
- Longfield, William F., to The Federal Machine and Welder Co. Press. 2,951,379, 9-6-60, Cl. 74-29.
- Longhi, John B. Weighted plastic clothespin. 2,922,209, 1-26-60, Cl. 24-137.
- Longines-Wittnauer Watch Co., Inc.: *See—*  
Blank, Fritz A. 2,950,646.  
Blank, Fritz A., and Oxberry. 2,950,647.  
Hilliard, William A., and Sadow. 2,937,271.  
Oxberry, John W. 2,943,535.  
Sadow, Leonard B. 2,931,226.
- Longino, Hugh A. Balloon world satellite. 2,927,383, 3-8-60, Cl. 35-46.
- Longland, Donald T., to Minneapolis-Honeywell Regulator Co. Magnetic control apparatus. 2,934,698, 4-26-60, Cl. 324-41.
- Longley Corp.: *See—*  
Mandoff, Henry I. 2,944,848.
- Longman, Stanley H., to Carlisle Chemical Works, Inc. Powder stabilizer compositions for vinyl chloride resins, and method of preparation. 2,921,917, 1-19-60, Cl. 260-23.
- Longmire, Conrad L., to United States of America, Navy. Constant delay circuit. 2,951,987, 9-6-60, Cl. 328-36.
- Longnecker, Francis S., to General Motors Corp. Laundry drier with sprinkling device. 2,958,954, 11-8-60, Cl. 34-45.
- Longstreet, Charles S.: *See—*  
Haase, Elmer A., and Longstreet. 2,966,030.
- Longstreth, Murray O., and J. E. Tollar, to The Dow Chemical Co. Adjustable extrusion die. 2,963,741, 12-13-60, Cl. 18-14.
- Longwell, John P.: *See—*  
Long, Robert B., Houston, Hibshman, and Longwell. 2,959,529.
- Longwell, John P., P. J. Lucchesi, and R. B. Long, to Esso Research and Engineering Co. Catalytic hydrocarbon radiochemical conversion process. 2,962,430, 11-29-60, Cl. 204-154.
- Lonngren, Harald E., to Esso Research and Engineering Co. Sulfate liquor recovering process. 2,928,184, 3-15-60, Cl. 34-10.
- Lonnqvist, Lars, to The Viking Tool & Machine Corp. Electric motor. 2,958,793, 11-1-60, Cl. 310-37.
- Lontz, John F.: *See—*  
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- Lonza Electric and Chemical Works Ltd.: *See—*  
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Guyer, August, Marti, and Sztachelski. 2,933,527.  
Halbig, Paul, and Wicht. 2,940,948.  
Voos, Walter. 2,937,929.
- Loofbourrow, Robert L.: *See—*  
Patterson, Morton K., and Loofbourrow. 2,932,170.
- Loofbourrow, Robert L. Sealing method for underground cavities. 2,947,146, 8-2-60, Cl. 61-5.
- Loofbourrow, Robert J., to Texaco Inc. Acoustic logging of wells. 2,931,455, 4-5-60, Cl. 181-5.
- Loofbourrow, Robert J., to Texaco Inc. Testing device for acoustical logging system. 2,944,621, 7-12-60, Cl. 181-5.
- Look, Willard W., Jr. Ready-made bandage. 2,927,689, 3-8-60, Cl. 206-63.2.
- Looker, Ivan L. Gear type fluid pump. 2,936,716, 5-17-60, Cl. 103-120.
- Looker, Ivan L. Mechanical transmissions. 2,959,062, 11-8-60, Cl. 74-117.
- Looker, Olin L., to J. I. Case Co. Force-applying over-center toggle mechanism. 2,966,066, 12-27-60, Cl. 74-242.1.
- Loomer, Joseph T., to Continental Can Co., Inc. Coating process. 2,937,955, 5-24-60, Cl. 117-38.
- Loomis, Earl G.: *See—*  
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- Loomis, Peter B., III, to Houdaille Industries, Inc. Constant clearance volume compressor. 2,964,234, 12-13-60, Cl. 230-20.
- Loomam, Alfred C., to Chilean Nitrate Sales Corp. Process for preparing sanitizing compositions. 2,943,014, 6-28-60, Cl. 167-14.
- Looney, Joseph M., Jr., to Acton Laboratories, Inc. Rotary potentiometer with means for limiting rotation of the operating shaft thereof. 2,931,995, 4-5-60, Cl. 338-135.
- Loop, James P., to Continental Steel Corp. Spool mechanism. 2,943,807, 7-5-60, Cl. 242-72.1.
- Loos, Charles, Jr.: *See—*  
Thompson, Harry B., and Loos. 2,934,590.
- Loos, Edward G., to J. J. Knight. Cutting and tying mechanism for a wire tying machine. 2,931,399, 4-5-60, Cl. 140-93.
- Loosanoff, Victor L., to United States of America, Interior. Method for controlling boring sponges and other pests of commercial mollusks. 2,955,068, 10-4-60, Cl. 167-14.
- Loosjes, Robert, C. F. Veenemans, and G. H. Weber, to North American Philips Co., Inc. Method of manufacturing permanent magnets. 2,960,470, 11-15-60, Cl. 252-62.5.
- Loosme, Oskar, to Bell Telephone Laboratories, Inc. Chemical lapping method. 2,933,437, 4-19-60, Cl. 204-15.
- Lopinski, Stanley A., to Westinghouse Electric Corp. Masking method and apparatus. 2,946,696, 7-26-60, Cl. 117-35.
- Loper, George B., and R. E. Pittman, to Socony Mobil Oil Co., Inc. Seismic record display and re-recording. 2,950,459, 8-23-60, Cl. 340-15.
- Loper, Harry W., and R. D. Samson, to The Dow Chemical Co. Stabilization of pentachlorophenol solutions. 2,965,539, 12-20-60, Cl. 167-31.
- Lopez, John P., to Universal Corrugated Box Machinery Corp. Sheet feeding equipment. 2,922,643, 1-26-60, Cl. 271-35.
- Lopez, John P., to Universal Corrugated Box Machinery Corp. Right angle conveyor. 2,964,161, 12-13-60, Cl. 198-28.
- Lopez, Manuela B. Garment forms. 2,921,727, 1-19-60, Cl. 223-67.
- Lopez, Rene. Reading board for holding books and newspapers. 2,959,886, 11-15-60, Cl. 45-80.
- Lopez, Robert. Aircraft wing with control elements at wing tips. 2,960,285, 11-15-60, Cl. 244-82.
- Lopez, Roger D.: *See—*  
Hagen, Robert E., Lopez, and Sundin. 2,946,468.
- Lopez-Henriquez, Miguel. Projection of stereoscopic pictures to give a three dimensional effect. 2,938,425, 5-31-60, Cl. 88-16.6.
- Loporto, John J.: *See—*  
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- Lopp, Charles R.: *See—*  
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- Lopp, Charles R., and W. R. Danielson, to Whirlpool Corp. Thermoelectric apparatus for cooling and heating liquids. 2,928,253, 3-15-60, Cl. 62-3.
- Lopresti, Rocco J., S. R. Safir, R. W. Young, and C. E. Rauh, to American Cyanamid Co. 5-acylimino-N-alkyl-4-alkyl- $\Delta^1,3,4$ -thiadiazoline-2-sulfonamides. 2,940,980, 6-14-60, Cl. 260-306.7.
- Lo Presti, Roy F., to Goodman Mfg. Co. Supporting structure for flexible strand sideframe conveyor. 2,922,512, 1-26-60, Cl. 198-192.
- Lo Presti, Roy F., to Goodman Mfg. Co. Supporting clamp for a rope side frame conveyor. 2,940,147, 6-14-60, Cl. 24-126.
- Lor Corp.: *See—*  
Fiedler, Stuart O., Bjorksten, and Fiedler. 2,937,938.
- Lorant, Hugo. Hydraulic motor for metal shaping presses. 2,924,075, 2-9-60, Cl. 60-97.
- Lorch, Hermann R., and J. A. McCleery, to British Insulated Callender's Cables Ltd. Manufacture of insulated electric conductors. 2,948,647, 8-9-60, Cl. 154-2.28.
- Lorch, Joseph, to Empire Devices, Inc. Coaxial line type impulse generator with centering means for coaxial conductor. 2,932,802, 4-12-60, Cl. 331-127.
- Lord, Fred, to McLaughlin Mfg. Co., Inc. Mining drill. 2,930,588, 3-29-60, Cl. 255-61.
- Lord, Harold W., to General Electric Co. Magnetic amplifier. 2,937,331, 5-17-60, Cl. 323-89.
- Lord, Harold W., to General Electric Co. Lamp starting and ballast circuit. 2,958,806, 11-1-60, Cl. 315-100.
- Lord, Harry R.: *See—*  
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- Lord, Henry A.: *See—*  
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Lipinski, Richard J. 2,945,779.  
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Painter, Giles W. 2,955,795.
- Lord, Henry A., and H. S. Crane, to Diamond National Corp. Molded egg carton. 2,924,367, 2-9-60, Cl. 229-2.5.
- Lord, Henry A., and H. S. Crane, to Diamond National Corp. Egg carton. 2,924,368, 2-9-60, Cl. 229-2.5.
- Lord, Richard J., and N. A. McCarthy. Down-draft deflector for gas fired furnaces and heaters. 2,930,374, 3-29-60, Cl. 126-307.
- Lord, Sam: *See—*  
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- Lord, Thomas J., and H. T. Booth, to United Aircraft Products, Inc. Tank pressurizing in aerial craft. 2,919,711, 1-5-60, Cl. 137-81.
- Lord, Walter V.: *See*—  
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- Lord, William B. H., G. M. Tomlin, and H. C. Turner, to United States of America, Navy. Radiant-energy projectile detonating system. 2,931,300, 4-5-60, Cl. 102-70.2.
- Lord Baltimore Press, Inc., The: *See*—  
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- Lordo, Anthony R., to United States of America, Navy. Electrical power supply. 2,959,723, 11-8-60, Cl. 321-2.
- Loren, Donald A., and A. V. Every. Differential barometric fuze. 2,940,392, 6-14-60, Cl. 102-70.2.
- Lorenc, Walter F.: *See*—  
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- Lorenc, William F., C. D. Keith, and W. P. Hettinger, Jr., to Sinclair Refining Co. Method for the removal of metal contaminants from petroleum residual stocks. 2,951,035, 8-30-60, Cl. 208-253.
- Lorence, Herman R., to Hughes Tool Co., Aircraft Division. Hydraulic servomechanism with feedback-energy-dissipating control valve. 2,922,400, 1-26-60, Cl. 121-41.
- Lorensen, Lyman E., J. Zachar, and R. C. Jones, to Shell Oil Co. Lubricating oil compositions. 2,944,974, 7-12-60, Cl. 252-51.5.
- Lorensen, Lyman E., J. Zachar, and R. C. Jones, to Shell Oil Co. Oil-soluble copolymers of vinylpyridine and mixtures of dissimilar alkyl acrylates. 2,957,854, 10-25-60, Cl. 260-80.5.
- Lorenson, Aldo, N. Pertuiset, and G. V. Reinhardt, to Aluminum Laboratories Ltd. Apparatus for breaking and lifting lining bodies. 2,940,791, 6-14-60, Cl. 294-67.
- Lorentz, Guido M. R.: *See*—  
Dietz, Karl, and Lorentz. 2,946,695.  
Dietz, Karl, and Lorentz. 2,956,040.
- Lorentzen, Hans L. Internal insulation of containers for liquids having lower boiling point than atmospheric temperature. 2,958,442, 11-1-60, Cl. 220-63.
- Lorentzen, Hans L. Suspension arrangement for containers. 2,962,246, 11-29-60, Cl. 248-1.
- Lorenz, Albert, to W. C. Heraeus G.m.b.H. Production of permanent picture and writing characters by means of electron beams. 2,923,590, 2-2-60, Cl. 346-110.
- Lorenz, Albert, to W. C. Heraeus G.m.b.H. Vacuum pump control apparatus. 2,926,835, 3-1-60, Cl. 230-2.
- Lorenz, Alfred E., to Compometer Corp. Transducer apparatus. 2,926,920, 3-1-60, Cl. 274-4.
- Lorenz, Albert, to W. C. Heraeus G.m.b.H. Pumping apparatus. 2,935,242, 5-3-60, Cl. 230-11.
- Lorenz, Albert, to W. C. Heraeus G.m.b.H. High vacuum pumps. 2,937,807, 5-24-60, Cl. 230-139.
- Lorenz, Albert, to W. C. Heraeus G.m.b.H. Vacuum pumps. 2,940,661, 6-14-60, Cl. 230-139.
- Lorenz, Albert, to W. C. Heraeus G.m.b.H. Vacuum pumps. 2,944,732, 7-12-60, Cl. 230-141.
- Lorenz, Albert, to W. C. Heraeus G.m.b.H. High vacuum pump. 2,950,046, 8-23-60, Cl. 230-139.
- Lorenz, Anton: *See*—  
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Fletcher, Peter S. 2,925,853.  
Fletcher, Peter S. 2,927,629.  
Fletcher, Peter S. 2,940,509.  
Fletcher, Peter S. 2,941,581.  
Fletcher, Peter S. 2,945,533.  
Fletcher, Peter S. 2,951,529.  
Fletcher, Peter S. 2,953,192.  
Fletcher, Peter S. 2,958,371.  
Fletcher, Peter S. 2,965,157.  
Fletcher, Peter S. 2,965,158.  
Luckhardt, Johannes. Re. 24,849.  
Schliephacke, Fridtjof F. 2,919,745.  
Schliephacke, Fridtjof F. 2,929,440.  
Schliephacke, Fridtjof F. 2,932,845.  
Schliephacke, Fridtjof F. 2,932,846.  
Schliephacke, Fridtjof F. 2,939,515.  
Schliephacke, Fridtjof F. 2,940,510.  
Schliephacke, Fridtjof F. 2,947,352.  
Schliephacke, Fridtjof F. 2,948,331.  
Schliephacke, Fridtjof F. 2,953,193.  
Schliephacke, Fridtjof F. 2,961,036.
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Klein, Werner, and Friz. 2,921,225.
- Lorenz, Donald L.: *See*—  
Edwards, William V., Lorenz, and Rader. 2,957,418.
- Lorenz, Donald L., to Thompson Ramo Wooldridge, Inc. Gear pump with pressure loaded end plate and with pressure loaded peripheral tooth sealing means. 2,923,249, 2-2-60, Cl. 103-126.
- Lorenz, Donald L., to Thompson Ramo Wooldridge, Inc. Temperature compensated bearings for gear pumps. 2,929,331, 3-22-60, Cl. 103-126.
- Lorenz, Donald L., to Thompson Ramo Wooldridge Inc. Coupling apparatus for a multiple unit fuel pump. 2,941,473, 6-21-60, Cl. 103-4.
- Lorenz, Ernst: *See*—  
Von Fuener, Wilhelm, Oettinger, Reitz, and Lorenz. 2,932,620.
- Lorenz, Gordon E., and J. R. Weigel, to Western Electric Co., Inc. Apparatus for handling spools of wire while the wire is being withdrawn therefrom. 2,942,797, 6-28-60, Cl. 242-79.
- Lorenz, Harald H. Mechanically operated circular eccentric valve actuating mechanism. 2,937,633, 5-24-60, Cl. 123-90.
- Lorenz, Leo, to Anaconda Wire and Cable Co. Winding machine traverse mechanism. 2,933,265, 4-19-60, Cl. 242-158.
- Lorenz, Leo J.: *See*—  
Elfes, Lee E., and Lorenz. 2,932,931.  
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Elfes, Lee E., and Lorenz. 2,932,933.  
Kraft, Frederic B., Roberts, and Lorenz. 2,966,258.
- Lorenz, Lothar, and B. Rost, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Separation of filter material from carbon black. 2,966,431, 12-27-60, Cl. 134-25.
- Lorenz, Walter: *See*—  
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Schrader, Gerhard, and Lorenz. 2,929,832.
- Lorenz, Walter, G. Schrader, and A. Dorker, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphoric acid esters and a process for their manufacture. 2,938,919, 5-31-60, Cl. 260-461.
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- Lorenz, Walter, and R. Colln, to Farbenfabriken Bayer Aktiengesellschaft. Phosphonic acid esters. 2,962,518, 11-29-60, Cl. 260-461.
- Lorenzen, Coby, to Regents of The University of California. Fruit orienting device. 2,935,176, 5-3-60, Cl. 198-33.
- Lorenzen, Robert T., to The Regents of the University of California. Mechanical egg counter. 2,965,295, 12-20-60, Cl. 235-98.
- Lorenzo, Angelo J. Longburger picker and mold combo tool. 2,932,059, 4-12-60, Cl. 17-32.
- Loretan, Edouard, to Parechoc S.A. Demonstration sample of at least one shock absorbing bearing especially for time-piece. 2,929,158, 3-22-60, Cl. 35-13.
- Loret, Jerzy A., C. Morris, K. W. Mayne, and K. J. Bett, to The English Electric Co. Ltd. Bearings. 2,953,414, 9-20-60, Cl. 308-26.
- Lorette, Nicholas B., to The Dow Chemical Co. Method of preparing acetal and acetal-like compounds. 2,945,864, 7-19-60, Cl. 260-340.6.
- Lori, Arthur, to Firma Karl Steiner. Shelf rack. 2,963,170, 12-6-60, Cl. 211-147.
- Loria, Anthony: *See*—  
Feniak, George, Loria, and Reckhow. 2,933,391.
- Loria, Walter J., and J. Suhre. Material dispensing gun. 2,936,097, 5-10-60, Cl. 222-79.
- Lorig, Edwin T., to United States Steel Corp. Automatic self-centering pulleys for belt conveyors. 2,919,793, 1-5-60, Cl. 198-202.
- Lorig, Edwin T., to United States Steel Corp. Apparatus for improving tracking of endless belts. 2,925,168, 2-16-60, Cl. 198-202.
- Lorig, Edwin T., to United States Steel Corp. Method of making open floor gratings. 2,952,905, 9-20-60, Cl. 29-428.
- Loriku, Inc.: *See*—  
Ritter, Emil C. 2,931,054.
- Lorimer, Donald G.: *See*—  
McCarthy, Joseph A., and Lorimer. 2,962,305.
- Lorimer, John D., to Kingston Products Corp. Waterproof connector. 2,935,720, 5-3-60, Cl. 339-94.
- Lorraine Novelty Mfg. Co., Inc.: *See*—  
Loucony, Adolphe W. 2,928,533.
- Lortie, Francis N. Payroll-forms collator. 2,952,478, 9-13-60, Cl. 282-29.
- Lory, Jacques: *See*—  
Cotte, Henri. 2,948,485.
- Lory, John S.: *See*—  
Milton, Leonard, and Lory. 2,955,179.
- Lorz, Emil: *See*—  
Baltzly, Richard, and Lorz. 2,956,063.
- Los, Walter A.: *See*—  
Fox, Wilbur E., and Los. 2,939,800.
- Los Angeles By-Products Co.: *See*—  
Gillette, Sidney G. 2,964,184.
- Losco, Giuseppe: *See*—  
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Fusco, Raffaello, Losco, and Perini. 2,947,662.



- Losco, Giuseppe, and C. A. Peri, to Montecatini-Societa Generale per l'Industria Mineraria e Chimica. Phosphoric and thiophosphoric phenol esters containing an azo group and methods of preparing same. 2,947,663, 8-2-60, Cl. 167-30.
- Losenhausenwerk, Dusseldorfer Maschinenbau, A.G.: See—Weisse, Ernst J., and Hilgers. 2,962,899.
- Losey, Thomas B., and J. J. Lane, to The Guiberson Corp. Line cleaner. 2,942,286, 6-28-60, Cl. 15-210.
- Loshing, Clement T., and R. J. Thompson. Data processing system. 2,960,266, 11-15-60, Cl. 235-61.1.
- Loskill, Lawrence, and J. E. Martens, to The Anderson Co. Display device. 2,947,100, 8-2-60, Cl. 40-32.
- Loskill, Lawrence R.: See—Martens, Jack E., and Loskill. 2,951,390.
- Lossau, Earl, to Bobcat Corp. Golf bag scooter with pivotal supports. 2,937,884, 5-24-60, Cl. 280-303.
- Losse, Erhard, and H. Bachmann, to VEB Kamera-und Kinowerke Dresden. Focal-plane shutters for photographic cameras. 2,928,326, 3-15-60, Cl. 95-57.
- Losse, Paul L., to The Eagle-Picher Co. Method of making insulation blocks and shapes. 2,950,225, 8-23-60, Cl. 162-201.
- Lotarski, Stephen P., and F. R. Speight, to United Shoe Machinery Corp. Insole rib attaching machines. 2,933,744, 4-26-60, Cl. 12-20.
- Lothen, Julius. Agricultural implement. 2,937,704, 5-24-60, Cl. 172-67.
- Lothrop, Warren C., to Arthur D. Little, Inc. Crustacean trap. 2,950,562, 8-30-60, Cl. 43-102.
- Lotsch, Charles E., to Roovers-Lotsch Corp. Marking device. 2,930,465, 3-29-60, Cl. 197-6.7.
- Lotsch, Joseph M. Embossing seal and method of making same. 2,948,214, 8-9-60, Cl. 101-3.
- Lott, Howard R.: See—Miller, Ruby E. 2,950,696.
- Lott, William A.: See—Sowinski, Francis A., Lott and Bernstein. 2,951,092.
- Lott, William A., to Olin Mathieson Chemical Corp. Tetrahydrooxazinones. 2,940,971, 6-14-60, Cl. 260-244.
- Lott, William A., to Olin Mathieson Chemical Corp. Dialkylaminoalkyl carbamates and derivatives thereof. 2,965,672, 12-20-60, Cl. 260-472.
- Lott, William A., and H. L. Yale, to Olin Mathieson Chemical Corp. Anesthetics. 2,930,732, 3-29-60, Cl. 167-52.
- Lottenberg, Louis G., to The Trea-Boye Corp. Toilet structure. 2,954,566, 10-4-60, Cl. 4-254.
- Lottermoser, Manfred, to Croning & Co. Dry, friable molding batch with thermosetting properties for foundry work. 2,927,032, 3-1-60, Cl. 106-38.7.
- Lotts, Delbert L. Catamenial device. 2,943,625, 7-5-60, Cl. 128-285.
- Lotz, Gerald R. Floral easel. 2,940,705, 6-14-60, Cl. 248-27.8.
- Lotz, Henry, 1/2 to T. H. O'Connor. Anti-spill attachment for material moving blade. 2,964,862, 12-20-60, Cl. 37-143.
- Lotz, Henry. Rescue platform for use with aerial ladders and the like. 2,965,194, 12-20-60, Cl. 182-102.
- Lotz, Otto, to The Babcock & Wilcox Co. Cyclone furnaces. 2,957,436, 10-25-60, Cl. 110-28.
- Lotz, Rudolf, to Vereinigte Glanzstoff-Fabriken AG. Synthetic thread or fiber and process for the production thereof. 2,957,848, 10-25-60, Cl. 260-45.7.
- Lotz, Rudolf, and G. Wick, to Vereinigte Glanzstoff-Fabriken AG. Process for the refining of synthetic linear polymerizates or polycondensates. 2,924,586, 2-9-60, Cl. 260-45.75.
- Lotz, Rudolf, G. Wick, and A. Krimm, to Vereinigte Glanzstoff-Fabriken AG. Method of purification of terephthalic acid and its lower alkyl esters. 2,930,812, 3-29-60, Cl. 260-475.
- Louarn, Jean, to Société des Forges et Ateliers du Creusot. Device for reversing the blades of a turbine. 2,951,380, 9-6-60, Cl. 74-36.
- Louch, Delbert G. Head protector. 2,965,902, 12-27-60, Cl. 2-9.
- Loucks, Russell D., II: See—Kohn, Samuel T., and Loucks. 2,932,786.
- Loucony, Adolphe W., to Lorraine Novelty Mfg. Co., Inc. Cake decorating kit. 2,928,533, 3-15-60, Cl. 206-16.
- Louden, Victor J., to General Electric Co. Voltage reference circuit. 2,945,171, 7-12-60, Cl. 321-19.
- Loudon, Robert E., to Clary Corp. Coincidence circuit. 2,922,087, 1-19-60, Cl. 317-155.5.
- Lougheed, James L. Overshoe. 2,958,963, 11-8-60, Cl. 36-7.5.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Image-reproducing system for a color-television receiver. Re. 24,882, 9-27-60, Cl. 178-5.4.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Signal-translating apparatus for a color-television receiver. 2,924,651, 2-9-60, Cl. 178-5.4.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Chrominance-signal component-selection system. 2,941,072, 6-14-60, Cl. 250-27.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Color-television system. 2,943,142, 6-28-60, Cl. 178-5.2.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Signal-translating apparatus for modulated wave signals. 2,944,105, 7-5-60, Cl. 178-5.4.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Synchro-nizing system for beam-indexing color-television display. 2,950,349, 8-23-60, Cl. 178-504.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Synchro-nous detector system for a color-television receiver. 2,951,897, 9-6-60, Cl. 178-5.4.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Colorimetric computer. 2,965,703, 12-20-60, Cl. 178-5.2.
- Loughney, John J., to American Can Co. Method of producing can body blanks with spacing projections. 2,947,276, 8-2-60, Cl. 113-120.
- Loughran, Gerard A.: See—Hook, Edwin O., and Loughran. 2,954,379.
- Loughran, Robert H., to Hughes Aircraft Co. Turbine control mechanism. 2,922,050, 1-19-60, Cl. 290-40.
- Loughren, Arthur V., to Hazeltine Research, Inc. Color-television apparatus signal-modifying system. 2,927,151, 3-1-60, Cl. 178-5.4.
- Loughren, Arthur V., to Hazeltine Research, Inc. Angular-velocity-modulated periodic-signal-developing system. 2,943,270, 6-28-60, Cl. 332-19.
- Loughridge, Robert F. Elevator apparatus. 2,938,603, 5-31-60, Cl. 187-29.
- Loul, Philip J., and J. J. Motyka, to Selfix Products Co. Molded dolly and apparatus for forming same. 2,966,437, 12-27-60, Cl. 154-47.
- Louis, Arnold S.: See—Coler, Myron A., and Louis. 2,922,770.
- Coler, Myron A., and Louis. 2,922,771.
- Coler, Myron A., and Louis. 2,922,772.
- Coler, Myron A., and Louis. 2,922,773.
- Coler, Myron A., and Louis. 2,931,783.
- Guggenheim, S. Frederic, and Louis. 2,926,322.
- Guggenheim, S. Frederic, and Louis. 2,958,101.
- Louis, Arnold S. Sealed precision variable resistance device employing rotary shaft. 2,937,356, 5-17-60, Cl. 338-164.
- Louis, George A.: See—Bratt, Lars C., Leffer, and Louis. 2,920,942.
- Louis, Robert A., to Eosso Research and Engineering Co. Increasing efficiency of hydrocarbon separation with adsorbents. 2,966,531, 12-27-60, Cl. 260-676.
- Louisell, William H.: See—Ashkin, Arthur, Cook, Louisell, and Quate. 2,958,001.
- Cook, John S., Louisell, and Yocom. 2,953,707.
- Louisville Cap Corp.: See—Trudeau, Arthur G. 2,931,488.
- Louthan, Guilford W.: See—Lechner, Albert J., and Louthan. 2,936,773.
- Louthan, John D., to Chance Vought Aircraft, Inc. Means for providing directional stability. 2,960,286, 11-15-60, Cl. 244-91.
- Louthan, Rector P.: See—Goodhue, Lyle D., Louthan, and Cantrel. 2,955,980.
- Goodhue, Lyle D., Stansbury, and Louthan. 2,957,799.
- Stansbury, Roy E., and Louthan. 2,944,932.
- Stansbury, Roy E., and Louthan. 2,946,715.
- Louthan, Rector P., to Phillips Petroleum Co. Improved process for preparation of thio- and dithiosulfonyl halide derivatives. 2,927,131, 3-1-60, Cl. 260-551.
- Louton, James C., Jr.: See—Hedeen, Carl E., Louton, and Wubbe. 2,934,375.
- Leslie, James D., Louton, and Semar. 2,939,513.
- Loutrel, Maurice, to C.E.M.A.M. Concord. Washing machine transmission. 2,936,605, 5-17-60, Cl. 68-23.
- Loutrel, Maurice, to Societe Anonyme Cemam-Concord. Transmission means for clothes washing machines. 2,964,974, 12-20-60, Cl. 74-665.
- Louys, Roger, to Micafil A.-G. Werke fur Elektro-Isolation und Wicklereinrichtungen. Capacitive voltage divider. 2,944,198, 7-5-60, Cl. 317-242.
- Louzos, Demetrios V.: See—Crowley, Clyde A., Langdon, and Louzos. 2,921,110.
- Crowley, Clyde A., Langdon, Louzos, and Conolly. 2,921,111.
- Love, Frank E., L. R. Lyons, and J. C. Priscu, to Titanium Metals Corp. of America. Beneficiation of titaniferous iron ores. 2,933,373, 4-19-60, Cl. 23-202.
- Love, John, and W. Neilson, to K.A.C. Ltd. Bolt type fasteners. 2,934,370, 4-26-60, Cl. 292-142.
- Love, Millard. Tire grooving machine. 2,919,749, 1-5-60, Cl. 157-13.
- Love, Phil P., to The Glacier Metal Co. Ltd. Journal bearings. 2,940,802, 6-14-60, Cl. 308-122.
- Love, Phil P., and M. J. Neale, to The Glacier Metal Co. Ltd. Plain bearings. 2,960,370, 11-15-60, Cl. 308-121.
- Love, Porter G. Centrifugal pump. 2,946,289, 7-26-60, Cl. 103-100.
- Love, Richard R. Trailer hitch. 2,936,048, 5-10-60, Cl. 188-112.
- Love, Robert G.: See—Copland, George V., Love, and Pittman. 2,960,861.
- Love Box Co., Inc.: See—Grim, Oscar F., and Lankin. 2,957,575.
- Loveday, Paul E., and L. A. Bliss, to Union Carbide Corp. Method and apparatus for storage and distribution of low-temperature liquids. 2,951,348, 9-6-60, Cl. 62-50.
- Lovgreen, Harold A., to Materials Inc. Pallet. 2,958,494, 11-1-60, Cl. 248-120.
- Lovgrove, Henry J., to Daystrom, Inc. Electric relay control circuits. 2,950,423, 8-23-60, Cl. 317-152.



- Lovejoy, Floyd E. Map holding rail construction. 2,958,958, 11-8-60, Cl. 35-40.
- Lovejoy, James E. Housing for illuminated sign. 2,929,162, 3-22-60, Cl. 40-132.
- Lovelace, Charles D. Boat trailer. 2,960,246, 11-15-60, Cl. 214-84.
- Loveland, Junior W., and L. J. Cali, to Sun Oil Co. Removal of dissolved oxygen from petroleum fractions with solid sulfites. 2,938,863, 5-31-60, Cl. 208-283.
- Loveland, Malcolm W.: See—
- Harter, Theodore M., and Loveland. 2,952,286.
- Loveland, Roger S., to Minneapolis-Honeywell Regulator Co. Power actuated snap-acting valve. 2,928,645, 3-15-60, Cl. 251-58.
- Lovell, Jack, to Cleveland Pneumatic Industries, Inc. Hatch cover mechanism. 2,949,091, 8-16-60, Cl. 114-202.
- Lovell, Jack, and W. Hamilton, to Cleveland Pneumatic Industries, Inc. Securing latch for hatch covers. 2,943,589, 7-5-60, Cl. 114-203.
- Lovell Mfg. Co.: See—
- Miller, Raymond G., and Hocking. 2,949,024.
- Lovely, John W., to Bryant Chucking Grinder Co. Ring gage. 2,925,659, 2-23-60, Cl. 33-168.
- Løvens Kemiske Fabrik Ved A. Kongsted: See—
- Borrevang, Poul. 2,933,514.
- Feit, Peter W. 2,930,817.
- Feit, Peter W. 2,956,083.
- Lovercheck, Charles L. Conveyor and actuating device therefor. 2,940,583, 6-14-60, Cl. 198-41.
- Lovercheck, Charles L. Firing mechanism for firearms and the like. 2,957,391, 10-25-60, Cl. 89-28.
- Lovett, Gordon H., to Monsanto Chemical Co. Purification of acrylonitrile. 2,947,777, 8-2-60, Cl. 260-465.9.
- Lovett, John R.: See—
- Bicking, John B., Skinner, and Lovett. 2,948,723.
- Ford, Francis P., and Lovett. 2,965,606.
- Lovett, John R., to Esso Research and Engineering Co. Process of deashing polymers with mixture of diacetone alcohol and a lower alkanol. 2,955,106, 10-4-60, Cl. 260-93.7.
- Lovett, John R., and J. H. Bartlett, to Esso Research and Engineering Co. Process of deashing polymers with alpha diketones. 2,955,107, 10-4-60, Cl. 260-93.7.
- Lovett, John R., R. I. McDougall, and M. T. Winters, to Esso Research and Engineering Co. Curing of oxidized drying oils with aluminum hydrocarbon compounds. 2,955,950, 10-11-60, Cl. 106-285.
- Lovett, John W., Jr., to Smith-Morris Corp. Thrust reverser for jet engines. 2,963,858, 12-13-60, Cl. 60-35.55.
- Lovett, William E., and E. D. Nostrand, to Esso Research and Engineering Co. Motor fuel. 2,936,223, 5-10-60, Cl. 44-56.
- Lovick, Edward, Jr., to Lockheed Aircraft Corp. Variable artificial transmission lines. 2,943,276, 6-28-60, Cl. 333-29.
- Loving, Frank A., Jr., to E. I. du Pont de Nemours and Co. Sound reducing explosives testing facility. 2,940,300, 6-14-60, Cl. 73-35.
- Loving, Frank A., Jr., to E. I. du Pont de Nemours, and Co. Explosion-resistant structure. 2,960,859, 11-22-60, Cl. 73-35.
- Lovinger, Daniel, to General Electric Co. Inductive device. 2,965,808, 12-20-60, Cl. 315-326.
- Lovinggood, Martin G., and C. M. King. Combination dust pan and trash receptacle. 2,923,023, 2-2-60, Cl. 15-257.6.
- Lovrenich, Rodger T.: See—
- Falendysz, Eugene L., and Lovrenich. 2,926,634.
- Lovrenich, Rodger T. Apparatus for electric arc welding. 2,944,141, 7-5-60, Cl. 219-131.
- Lovret, John E., to Microtron Inc. Reamers. 2,930,264, 3-29-60, Cl. 77-72.
- Lovrinch, Louis B., and A. L. St. Arnaud. Plastic bolt anchor having means to permit expansion prior to application of bolt and serrations to prevent relative rotation between the body and the sleeve. 2,955,504, 10-11-60, Cl. 85-2.4.
- Low, Fahy B.: See—
- Low, Warren N. 2,942,226.
- Low, Frank D., to General Electric Co. Electrical control system. 2,934,074, 4-26-60, Cl. 134-58.
- Low, Hans, and W. W. Reynolds, to Shell Oil Co. Preparation of odorless solvent from a propylene tetramer composition. 2,944,915, 7-12-60, Cl. 106-311.
- Low, Sidney, and O. A. Powell, Jr., to The Chapman Valve Mfg. Co. Valve construction. 2,949,320, 8-16-60, Cl. 285-356.
- Low, Warren N., 1/2 to F. B. Low. Protective cover for appliance plugs. 2,942,226, 6-21-60, Cl. 339-75.
- Lowden, Edwin F. Golf putter grip. 2,962,288, 11-29-60, Cl. 273-165.
- Lowe, Earl R.: See—
- Smith, Gordon R. 2,953,069.
- Lowe, Earl R. Diaphragm chuck. 2,965,384, 12-20-60, Cl. 279-123.
- Lowe, Ernest (formerly Loewenheim), to Amereng Development Corp. Curtain dampers. 2,964,036, 12-13-60, Cl. 126-285.
- Lowe, Jack M.: See—
- Trevaskis, Henry W., and Lowe. 2,943,668.
- Lowe, Joe, Corp.: See—
- Roth, Ernest J. 2,919,824.
- Schwerdt, Edward. 2,955,701.
- Lowe, John J., to Burlington Industries, Inc. Ribbon package. 2,930,479, 3-29-60, Cl. 206-52.
- Lowie Paper Co.: See—
- Rice, John C., and Thompson. 2,955,970.
- Thompson, Kenneth. 2,958,364.
- Yanulis, Michael. 2,944,586.
- Lowie, Warren, and B. A. Stayner, to California Research Corp. Fuel composition. 2,927,013, 3-1-60, Cl. 44-62.
- Lowie, William G. to British Celanese Ltd. Plasticisers 2,925,352, 2-18-60, Cl. 106-181.
- Lowell Counter Co.: See—
- Herlihy, William F. 2,946,141.
- Herlihy, William F. 2,950,545.
- Lowell, Edward B., and F. Cawley. Folding coat rack and hat rack. 2,963,172, 12-6-60, Cl. 211-149.
- Lowell, John H.: See—
- Crissey, Laverne W., and Lowell. 2,934,509.
- Crissey, Laverne W., and Lowell. 2,934,510.
- Lowell, Rudolph L.: See—
- Kucera, Joseph B., and McElhinney. 2,958,530.
- Lowen, Stanley. Container closure and applicator. 2,943,338, 7-5-60, Cl. 15-105.
- Lowenstern, Emil, E. Hasenacker, and H. Wirtz, to Didier-Werke A.G. Bonded-wall structure for coke-oven chambers and the like. 2,934,933, 5-3-60, Cl. 72-38.
- Lowenthal, Werner: See—
- Endicott, Clarence J., Martin, and Lowenthal. 2,954,323.
- Lowery, A. J. Cable clamp for electric outlet switch box. 2,938,741, 5-31-60, Cl. 285-128.
- Lowery, Charley, to H. Waggoner, and G. W. Hicks, Jr. Combined reservoir and chemical mixer. 2,957,491, 10-25-60, Cl. 137-206.
- Lowery, Charley. Vent closing louver apparatus. 2,965,014, 12-20-60, Cl. 98-119.
- Lowery, James C.: See—
- Daniel, Kenneth R., Farlow, Lowery, and Patton. 2,943,335.
- Lowery, Joseph S. Food measuring device. 2,931,230, 4-5-60, Cl. 73-427.
- Lowery, William J., to United States of America Navy. Dud jettisoning device. 2,920,534, 1-12-60, Cl. 89-1.7.
- Loves, Fred J., to The Dow Chemical Co. Coupling method for thermoplastic components. 2,961,363, 11-22-60, Cl. 154-116.
- Lowey, Roy E., Jr., to Blaw-Knox Co. Plastic extrusion die. 2,938,231, 5-31-60, Cl. 18-12.
- Lowhurst, Harvey G., to Hughes Aircraft Co. Duo-mode wave energy feed. 2,923,897, 2-2-60, Cl. 333-21.
- Lowitz, Gabriel E., to Sylvania Electric Products Inc. Television receiver. 2,925,466, 2-16-60, Cl. 178-7.5.
- Lowkrantz, Gunne: See—
- Link, Edwin A., Lowkrantz, and Kall. 2,963,543.
- Lowman, Malden C., to Shell Development Co. Catalytic hydrocarbon conversion process. 2,921,102, 1-12-60, Cl. 260-680.
- Lowman, Walker B.: See—
- Chope, Wilbert E., Lowman, and Spergel. 2,960,268.
- Lowmaster, William J., to The Mathews Co. Advertising standard. 2,961,786, 11-29-60, Cl. 40-125.
- Lown, Jack A. Station wagon platform accessory. 2,934,248, 4-26-60, Cl. 224-42.42.
- Lowrie, Harman S., to G. D. Searle & Co. 4-aminoalkanoxy-2,3-dihydro-1,4-benzothiazines and process. 2,947,744, 8-2-60, Cl. 260-243.
- Lowrie, Richard W.: See—
- McMillan, Wilbur M., Lowrie, and Raser. 2,946,985.
- Lowry, Albert H. Fire extinguishing machine. 2,949,158, 8-16-60, Cl. 169-1.
- Lowry, Earl N., to M. R. Shaffer. Auxiliary light shield apparatus for motor vehicles. 2,921,813, 1-19-60, Cl. 296-97.
- Lowther, Thomas. Paper storage unit. 2,946,635, 7-26-60, Cl. 312-39.
- Lox Equipment Co.: See—
- Hampton, Robert S., and Josephian. 2,925,934.
- Hampton, Robert S., and Josephian. 2,952,380.
- Loy, John W., to Phillips Petroleum Co. Process and apparatus for crystal recovery employing an automatically controlled centrifuge. 2,921,969, 1-19-60, Cl. 260-674.
- Loy, Walter H., to Bell & Gossett Co. Arrangement for lubricating sleeve bearings. 2,937,057, 5-17-60, Cl. 308-127.
- Loyola University: See—
- Gurney, Benjamin F. 2,927,056.
- Lozeau, Homer A., to Koehler Mfg. Co. Focussing headpiece for miner's electric cap lamp. 2,947,851, 8-2-60, Cl. 240-41.25.
- Lozeau, Homer A., to Koehler Mfg. Co. Electric lamp structure with bulb adjustment. 2,947,852, 8-2-60, Cl. 240-41.25.
- Lozeau, Homer A., to Koehler Mfg. Co. Miner's lamp structure including rack and pinion type adjustment mechanism. 2,947,854, 8-2-60, Cl. 240-41.25.
- Lozeau, Homer A., and A. E. Mignone, to Koehler Mfg. Co. Miner's lamp structure with pinion and gear adjustment mechanism. 2,947,853, 8-2-60, Cl. 240-41.25.
- Lozier, John C., to Bell Telephone Laboratories, Inc. Dynamic transducer accelerometer. 2,940,306, 6-14-60, Cl. 73-71.2.
- Lozo, Harold A. Battery plate pasting machine. 2,949,940, 8-23-60, Cl. 141-32.



- Lubarsky, Howard B., to Crest Marine Hardware Co., Inc. Plug device for controlling fluid flow. 2,964,213, 12-13-60, Cl. 220-40.
- Lubben, Gerrit J.: *See*—  
Haantjes, Johan, and Lubben. 2,945,157.
- Lubbers & Bell Mfg. Co.: *See*—  
De Miller, Malcolm E. 2,963,816.
- Luber-Finer Inc.: *See*—  
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Russell, John K., and Boggs. 2,954,896.
- Lubkin, Samuel, to Curtiss-Wright Corp. Multiple magnetic head unit. 2,928,907, 3-15-60, Cl. 179-100.2.
- Lubkin, Samuel, to Curtiss-Wright Corp. Magnetic recording error indicator. 2,929,049, 3-15-60, Cl. 340-174.
- Lubkin, Samuel, to Curtiss-Wright Corp. Electronic digital computer. 2,934,262, 4-26-60, Cl. 235-58.
- Lubkin, Samuel, to Curtiss-Wright Corp. Information transfer system. 2,937,371, 5-17-60, Cl. 340-347.
- Lubkin, Samuel, to Curtiss-Wright Corp. Punched record translator. 2,941,718, 6-21-60, Cl. 235-61.11.
- Lubkin, Samuel, to Curtiss-Wright Corp. Electronic calculator. 2,945,213, 7-12-60, Cl. 340-174.
- Lubkin, Samuel, to Curtiss-Wright Corp. Information transfer device. 2,949,226, 8-16-60, Cl. 235-61.11.
- Lubkin, Yale J., to The W. L. Maxson Corp. Acoustic material sensing apparatus. 2,932,818, 4-12-60, Cl. 340-244.
- Lubore, Terry S. Hair curlers. 2,927,589, 3-8-60, Cl. 132-41.
- Lubore, Terry S. Corn buttering device. 2,948,260, 8-9-60, Cl. 118-13.
- Luboshez, Benjamin E., to Eastman Kodak Co. Lead computing gun sight. 2,963,788, 12-13-60, Cl. 33-49.
- Lubowe, Irwin I. Solubilizing of mineral, vegetable, and animal oils for cosmetic, pharmaceutical and industrial purposes. 2,942,008, 6-21-60, Cl. 252-364.
- Lubowitz, Hyman R.: *See*—  
Greenberg, Harry, Foos, and Lubowitz. 2,960,399.
- Lubrizol Corp., The: *See*—  
Butler, Thomas A. 2,965,664.  
Le Suer, William M. 2,959,551.  
Le Suer, William M., and Stuebe. 2,960,542.  
Norman, George R. 2,952,699.  
Rhodes, Alan. 2,962,443.  
Smalheer, Calvin V., and Le Suer. 2,938,894.
- Lubszynski, Hans G., and J. Wardley, to Electric & Musical Industries Ltd. Electron discharge devices employing photoconductive target electrodes. 2,931,931, 4-5-60, Cl. 313-65.
- Luc, Jacques L., to Kemper Ltd. Oven. 2,942,562, 6-28-60, Cl. 107-54.
- Lucanera, Constantino: *See*—  
Casabona, Anthony M., Engel, and Lucanera. 2,939,141.
- Lucarelli, Frank J. Bottle cap remover and receiver. 2,923,188, 2-26-60, Cl. 81-33.
- Lucas, Arthur W., and C. H. Goodwin. Folding garage door. 2,951,533, 9-6-60, Cl. 160-40.
- Lucas, Charles D.: *See*—  
Klein, Norman E., Lucas, and Mobley. 2,924,869.  
Klein, Norman E., Lucas, and Mobley. 2,964,826.
- Lucas, Glennard R., to General Electric Co. Process of treating silica with a siloxane and product thereof. 2,938,009, 5-24-60, Cl. 260-37.
- Lucas, Harland R., and G. H. Muller, to Ford Motor Co. Push button gear shift with neutral start button. 2,939,447, 6-7-60, Cl. 123-179.
- Lucas, Horst, to VEB Carl Zeiss Jena. Optical apparatus for producing the curve of the refractive index gradient of a liquid. 2,954,722, 10-4-60, Cl. 88-14.
- Lucas, J. E. Machine tool anchor. 2,952,946, 9-20-60, Cl. 50-47.4.
- Lucas, James L., to G. K. Le Brun, and A. H. Terrell. Filter. 2,936,854, 5-17-60, Cl. 183-51.
- Lucas, John A., to The Prime Manufacturing Co. Sand trap. 2,949,326, 8-16-60, Cl. 291-11.
- Lucas, John H.: *See*—  
Simmonds, Wayne W. and A. J. 2,931,628.
- Lucas, John W., to Yuba Consolidated Industries, Inc. Safety vault apparatus. 2,941,079, 6-14-60, Cl. 250-106.
- Lucas, Joseph, (Industries) Ltd.: *See*—  
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May, Clifford F. 2,943,166.  
May, Clifford F. 2,946,925.  
Miller, David T. A. 2,938,341.  
Purden, Robert H., and Felski. 2,965,038.  
Robinson, Charles E. 2,934,662.  
Warne, Eugene H. 2,934,138.
- Lucas, Joseph E. Pressure sealed and locked valves. 2,925,245, 2-16-60, Cl. 251-188.
- Lucas, Kenneth E.: *See*—  
Folkins, Hillis O., and Lucas. 2,939,894.  
Folkins, Hillis O., Lucas, and Miller. 2,951,887.  
Folkins, Hillis O., Miller, and Lucas. 2,925,453.  
Folkins, Hillis O., Miller, and Lucas. 2,943,128.
- Lucas, Lester F., W. S. Thomas, and J. F. Wittman, to The Redi-Load Body & Pallet Co. Merchandise shipping container and means for removably securing the same on motor trucks. 2,942,912, 6-28-60, Cl. 296-35.
- Lucas, Paul G., to Epsco, Inc. Differential amplifier. 2,941,155, 6-14-60, Cl. 330-69.
- Lucas, Pierre M.: *See*—  
Marzin, Charles C., Chappey, and Lucas. 2,951,907.
- Lucas, Pierre M. Remote line concentrator. 2,925,473, 2-16-60, Cl. 179-18.
- Lucas, Robert A., to Ciba Pharmaceutical Products, Inc. 18-o-esters of methyl reserpate. 2,957,878, 10-25-60, Cl. 260-287.
- Lucas-Rotax Ltd.: *See*—  
Collinson, Eric S. 2,965,079.
- Lucas, Samuel W. Appliances for throwing wheat, sugar and other discrete substances and materials. 2,920,746, 1-12-60, Cl. 198-128.
- Lucchesi, Peter J.: *See*—  
Heath, Carl E., and Lucchesi. 2,956,941.  
Long, Robert B., Lucchesi, Tarmy, and Read. 2,959,530.  
Longwell, John P., Lucchesi, and Long. 2,962,430.
- Lucchesi, Peter J., and C. E. Heath, to Esso Research and Engineering Co. Radiation isomerization. 2,956,940, 10-18-60, Cl. 204-162.
- Luce, John S.: *See*—  
Bell, Persa R., and Luce. 2,920,235.  
Blue, Clarence W., and Luce. 2,945,972.
- Luce, John S., to United States of America, Atomic Energy Commission. Device and method for producing a high intensity arc discharge. 2,920,234, 1-5-60, Cl. 315-111.
- Luce, John S., to United States of America, Atomic Energy Commission. Intense energetic gas discharge. 2,927,232, 3-1-60, Cl. 313-63.
- Luce, John S., to United States of America, Atomic Energy Commission. High voltage ion source. 2,933,630, 4-19-60, Cl. 313-63.
- Luce, John S., to United States of America, Atomic Energy Commission. Hollow carbon arc discharge. 2,956,195, 10-11-60, Cl. 313-153.
- Luce, John S., and J. A. Martin, to United States of America, Atomic Energy Commission. Ion acceleration system. 2,926,251, 2-23-60, Cl. 250-41.9.
- Luce, John S., and L. P. Smith, to United States of America, Atomic Energy Commission. Co-axial discharges. 2,961,558, 11-22-60, Cl. 313-63.
- Luce, Ronald S. Egg incubator. 2,939,423, 6-7-60, Cl. 119-37.
- Luce, Ronald S. Egg incubator tray. 2,949,884, 8-23-60, Cl. 119-44.
- Lucek, John R.: *See*—  
Snell, James H., Jr., Charewicz, and Lucek. 2,959,704.
- Lucey, John A., to The British Oxygen Co. Ltd. Electric arc welding. 2,949,527, 8-16-60, Cl. 219-126.
- Luchland Co., The: *See*—  
Luchsinger, Charles R. 2,956,807.
- Luchsinger, Charles R., to The Luchland Co. Magnetic game device. 2,956,807, 10-18-60, Cl. 273-1.
- Lucia, Carroll J., to Studebaker-Packard Corp. Torsionally elastic lubricated coupling having thrust capacity. 2,939,300, 6-7-60, Cl. 64-11.
- Lucibello, Louis V. Tool for adjusting the snap-action of a leaf-type operating device. 2,948,171, 8-9-60, Cl. 81-15.
- Lucien, Rene, to Societe à responsabilité limitée Recherches Etudes Production R.E.P. Brake disc assembly. 2,926,760, 3-1-60, Cl. 188-218.
- Lucien, Rene, to Recherches Etudes Production R.E.P. Multi-disc brake. 2,934,174, 4-26-60, Cl. 188-73.
- Lucien, Rene, to Societe d'Inventions Aeronautiques et Mechaniques S.I.A.M. Bracing-strut for aircraft. 2,935,277, 5-3-60, Cl. 244-102.
- Lucien, René, to Societe a responsabilite limtee: Recherches Etudes Production R.E.P. Disc brakes for the wheels of vehicles. 2,953,221, 9-20-60, Cl. 188-73.
- Lucien, René, Trim correction device. 2,953,393, 9-20-60, Cl. 280-124.
- Lucien, Rene, to Recherches Etudes Production R.E.P. Mixed suspension for vehicles. 2,954,223, 9-27-60, Cl. 267-64.
- Lucien, Rene, to Societe d'Inventions Aeronautiques et Mechaniques S.I.A.M. Self-regulating braking system for the wheels of aircraft and the like. 2,960,290, 11-15-60, Cl. 244-111.
- Lucien, Rene, to Société à responsabilité limitée: Recherches Etudes Production. Anti-skid control system. 2,963,328, 12-6-60, Cl. 303-24.
- Lucien, Rene, and J.-P. Legros, to Societe a responsabilite limtee: Recherches Etudes Production R.E.P. Automatic control of the gear-boxes in automobiles. 2,922,311, 1-26-60, Cl. 74-336.5.
- Luck-Aire Furnace Co.: *See*—  
Marble, Harold A., and Burbey. 2,923,349.
- Luck, David G. C., to Radio Corp. of America. Function generator system. 2,933,243, 4-19-60, Cl. 235-61.
- Lück, Friedrich, to Borsig Aktiengesellschaft, and F. Wankel. Rotary compressors. 2,938,663, 5-31-60, Cl. 230-138.
- Luck, Raymond T., to National Dairy Products Corp. Holder. 2,925,239, 2-16-60, Cl. 248-301.
- Luck, Raymond T., and R. Guyer, to National Dairy Products Corp. Display. 2,924,902, 2-16-60, Cl. 40-130.
- Luck, Wolfhard: *See*—  
Meister, Martin, Luck, and Mauthe. 2,955,013.
- Lucke, Karlfried. Automatic needle assembling apparatus. 2,940,165, 6-14-60, Cl. 29-211.
- Luckenbach, Edward C., to Esso Research and Engineering Co. Catalytic conversion and stripping system with heat exchange. 2,963,421, 12-6-60, Cl. 208-150.
- Luckenbaugh, Raymond W., to E. I. du Pont de Nemours and Co. 1-(2-hydroxyethyl)-1-methyl-3-phenylurea. 2,935,393, 5-3-60, Cl. 71-2.6.



- Luckenbaugh, Raymond W., to E. I. du Pont de Nemours and Co. Method for the control of weeds. 2,959,475, 11-8-60, Cl. 71-2.5.  
 Luckner, Laurence H., Jr., to Luckner Mfg. Co. Boring bar. 2,924,128, 2-9-60, Cl. 77-2.  
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     Luckner, Laurence H., Jr. 2,924,128.  
 Luckner, Millard B., to Auto Specialties Mfg. Co. Lifting jack. 2,962,261, 11-29-60, Cl. 254-110.  
 Luckey, John A. Electrical mat switch and method of making the same. 2,931,093, 4-5-60, Cl. 29-155.5.  
 Luckhardt, Johannes, deceased, by W. Luckhardt, administrator, to A. Lorenz. Article of repose for supporting the body of a person. Re. 24,849, 7-26-60, Cl. 155-106.  
 Luckhardt, Wassili: *See*—  
     Luckhardt, Johannes. Re. 24,849.  
 Lucki, Stanley J.: *See*—  
     Nace, Donald M., and Lucki. 2,964,577.  
 Luckman, James E.: *See*—  
     Greco, Anthony J., Luckman, and Dickinson. 2,957,138.  
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     Melnick, Daniel, and Luckmann. 2,955,039.  
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     Harris, Stephen W. 2,944,273.  
 Luczek, Walter, and F. B. Roberts, to Package Machinery Co. Suction means for wrapping instrumentalities. 2,952,957, 9-20-60, Cl. 53-228.  
 Ludbrook, Leslie C., to The British Thomson-Houston Co. Ltd. Low frequency electrical generators. 2,923,875, 2-2-60, Cl. 321-4.  
 Luddington, Eric: *See*—  
     Rowlands, Tom, and Luddington. 2,939,645.  
 Ludeman, Clifford G.: *See*—  
     Rees, Harry V., Ludeman, and Sellers. 2,942,959.  
     Teichmann, Charles F., and Ludeman. 2,935,614.  
 Ludin, Werner, to L. von Roll, A.G. Shaft kiln. 2,960,323, 11-15-60, Cl. 263-29.  
 Ludlow Corp.: *See*—  
     Ives, Robert S. 2,962,382.  
 Ludlow, Edmund, and G. E. Wintermute, to Arvin Industries, Inc. Composite structure and method of making it. 2,962,409, 11-29-60, Cl. 154-122.  
 Ludlum, Loren F.: *See*—  
     York, Leslie V., and Ludlum. 2,940,349.  
 Ludowici, Johann W. Earth working machines. 2,932,101, 4-12-60, Cl. 37-117.5.  
 Ludvigson, Merrill T.: *See*—  
     Broadhead, Samuel L., Jr., and Ludvigson. 2,921,273.  
 Ludvik, George F., to Monsanto Chemical Co. Miticide composition. 2,954,318, 9-27-60, Cl. 167-30.  
 Ludw. Von Roll'sche Eisenwerke A.G.: *See*—  
     Bloch, Peter, and Haffner. 2,931,176.  
 Ludwig, Bernard J.: *See*—  
     Berger, Frank M., and Ludwig. 2,937,119.  
 Ludwig, Christian, to C. Zeiss. Photographic objective comprising a sector shutter. 2,924,159, 2-9-60, Cl. 95-53.  
 Ludwig, Donald A.: *See*—  
     Nison, Morris, and Ludwig. 2,956,709.  
 Ludwig, Frederic G. Platen for use in photographic processes. 2,941,461, 6-21-60, Cl. 95-73.  
 Ludwig, Herbert P., and E. L. Johnson, to Concrete Conduit Co. Apparatus for manufacturing concrete pipe. 2,932,874, 4-19-60, Cl. 25-30.  
 Ludwig, Howard C., to Westinghouse Electric Corp. Coated arc welding electrode wire. 2,961,351, 11-22-60, Cl. 117-203.  
 Ludwig, James F., to Bendix Aviation Corp. Electrical apparatus. 2,937,260, 5-17-60, Cl. 219-32.  
 Ludwig, John H.: *See*—  
     Gardner, Marvin A., and Ludwig. 2,932,329.  
 Ludwig, Louis. Electrical devices. 2,945,098, 7-12-60, Cl. 200-51.  
 Ludwig, Louis. Female contact for electrical outlet receptacle. 2,965,869, 12-20-60, Cl. 339-33.  
 Ludwig, Richard E., to E. I. du Pont de Nemours and Co. Chemical process. 2,937,211, 5-17-60, Cl. 260-666.  
 Ludwig, Walter L.: *See*—  
     Andrews, Frederick W., Miller, and Ludwig. 2,935,985.  
 Ludy, Paul, H., R. Bennett, and R. W. Moorman, to Pittsburgh Plate Glass Co. Flexible wear-resistant coatings. 2,922,195, 1-26-60, Cl. 18-60.  
 Luebke, George C. Target trap. 2,925,077, 2-16-60, Cl. 124-8.  
 Luebke, George C. Binocular sight for firearms. 2,927,375, 3-8-60, Cl. 33-47.  
 Luebke, Harry E., to The Cincinnati Milling Machine Co. Machine tool tailstock. 2,930,168, 3-29-60, Cl. 51-165.  
 Luechauer, Holle C., to General Motors Corp. Electroplating method and apparatus. 2,944,947, 7-12-60, Cl. 204-26.  
 Luecke, Harry C., to The Silex Corp. System for heat treating continuous punched strip. 2,957,688, 10-25-60, Cl. 266-3.  
 Lueder, Holger. Electrode system for the separator of an electric dust precipitator. 2,958,393, 11-1-60, Cl. 183-7.  
 Luedicke, Alex H., Jr.: *See*—  
     Flessate, Clarence L., and Luedicke. 2,955,578.  
 Luedtke, William G., and B. E. Wrensch, to R. H. Stearns. Brake structure. 2,964,137, 12-13-60, Cl. 188-71.  
 Luehring, Elmer L., to Hi-Voltage Equipment Co., a division of Joslyn Mfg. and Supply Co. High voltage switch mechanism. 2,955,181, 10-4-60, Cl. 200-146.  
 Luehrs, Hans J., to The Cottrell Co. Inking mechanisms for rotary printing presses. 2,927,533, 3-8-60, Cl. 101-365.  
 Luehrs, Has J., to The Cottrell Co. Plate clamping means for wrap around printing plates. 2,953,091, 9-20-60, Cl. 101-415.1.  
 Luellen, Leland B., to Inland Steel Co. Furnace structure. Re. 24,859, 8-9-60, Cl. 263-15.  
 Luenberger, Frederick O.: *See*—  
     Bluth, Edward J., and Luenberger. 2,965,776.  
 Luenberger, Frederick O., to U.S. Electrical Motors, Inc. Adjustable date indicator. 2,921,553, 1-19-60, Cl. 116-133.  
 Luenberger, Frederick O., to U.S. Electrical Motors, Inc. Hoist cable retainer. 2,949,654, 8-23-60, Cl. 24-238.  
 Luenberger, Frederick O., to U.S. Electrical Motors, Inc. Internal fluid circulating system for submersible motors or the like. 2,958,795, 11-1-60, Cl. 310-87.  
 Luenberger, Frederick O., to U.S. Electrical Motors, Inc. Adjustable mounting for electrical motors. 2,961,208, 11-22-60, Cl. 248-16.  
 Luenberger, Frederick O., to U.S. Electrical Motors, Inc. Method of sealing the bore of a stator structure by extruding a liner and subjecting the liner to centrifugal force while curing. 2,961,716, 11-29-60, Cl. 18-59.  
 Luenberger, Frederick O., to U.S. Electrical Motors, Inc. Enclosed transmission mechanism. 2,962,127, 11-29-60, Cl. 188-82.84.  
 Luenberger, Frederick O., to U.S. Electrical Motors, Inc. Mechanism for preventing reverse motion of electric motor shafts. 2,962,128, 11-29-60, Cl. 188-82.84.  
 Luening, Alvin R.: *See*—  
     Porfilio, Louis, and Luening. 2,938,810.  
 Luerssen, Frank W.: *See*—  
     Tenenbaum, Michael, Halley, and Luerssen. 2,947,622.  
 Luerssen, Frank W., to Inland Steel Co. Iron ore reduction process. 2,928,730, 3-15-60, Cl. 75-34.  
 Luerssen, Frank W., to Inland Steel Co. Gasification of solid carbonaceous fuels. 2,962,367, 11-29-60, Cl. 48-206.  
 Luethy, Friedrich: *See*—  
     Steiger, Robert, Luethy, and Haemmerle. 2,945,370.  
 Lufcy, Carroll W., to Dynacore Inc. Magnetic core box. 2,946,973, 7-26-60, Cl. 336-213.  
 Luff, Earl T. Combination barbecuer and incinerator. 2,927,524, 3-8-60, Cl. 99-421.  
 Luff, Earl T. Safety livestock guard. 2,938,711, 5-31-60, Cl. 256-17.  
 Luft, Harold A., to Jennings Radio Mfg. Corp. Vacuum variable capacitor. 2,920,255, 1-5-60, Cl. 317-245.  
 Luft, Karl, to Office National d'Etudes et de Recherches Aeronautiques O.N.E.R.A. Devices for analyzing fluid mixtures by absorption of rays. 2,951,939, 9-6-60, Cl. 250-43.5.  
 Luft, Philip H., to Westinghouse Air Brake Co. Signal generator with supply voltage compensation. 2,928,050, 3-8-60, Cl. 330-29.  
 Lugli, Giuseppe, to Pirelli S.p.A. Improved cincture structure. 2,945,525, 7-19-60, Cl. 152-361.  
 Lugli, Giuseppe, and C. Mazza, to Pirelli S.p.A. Pneumatic tire. 2,930,425, 3-29-60, Cl. 152-354.  
 Luhn, Hans P., to International Business Machines Corp. Segmented trace-generating unit. 2,919,969, 1-5-60, Cl. 346-113.  
 Luhn, Hans P., to International Business Machines Corp. Computer for verifying numbers. 2,950,048, 8-23-60, Cl. 235-61.  
 Luhn, Hans P., to International Business Machines Corp. Printed circuit package. 2,955,236, 10-4-60, Cl. 318-101.  
 Luisada, August G., to L. P. Frieder. Eye shield. 2,936,458, 5-17-60, Cl. 2-14.  
 Luiz, Edward A., and M. B. Thornton, to United Aircraft Corp. Hydraulic control system for an aeronautical propeller. 2,943,686, 7-5-60, Cl. 170-135.72.  
 Lukacs, Laszlo: *See*—  
     Harmos, Ferenc, Forstner, Csapody, Deutsch, and Lukacs. 2,959,893.  
 Lukasiewicz, Sigmund J.: *See*—  
     Johnson, George C., and Lukasiewicz. 2,921,017.  
 Luke, Marvin B., to The B. F. Goodrich Co. Method of making an electrically heated protective covering for an airfoil. 2,942,330, 6-28-60, Cl. 29-155.5.  
 Luke, Oren V., Jr., M. O. Robeson, and W. E. Taylor, to Celanese Corp. of America. Production of pentaerythritol. 2,951,095, 8-30-60, Cl. 260-635.  
 Lukens Steel Co.: *See*—  
     Althouse, Joseph G. 2,932,886.  
     Dawson, Lester K. 2,943,387.  
     Ma, James L. 2,943,961.  
     Rote, Richard S. 2,943,388.  
     Watson, Thomas T. 2,932,885.  
     Watson, Thomas T., and Godschall. 2,961,761.  
 Luker, Jackson M. Pan washer. 2,942,284, 6-28-60, Cl. 15-56.  
 Lukes, Anthony J., to Felt Products Mfg. Co. Reinforcing element. 2,961,141, 11-22-60, Cl. 229-14.  
 Lukes, George E.: *See*—  
     Haimsohn, Jerome N., and Lukes. 2,954,393.  
 Lukes, Thomas M.: *See*—  
     Prater, Arthur N., Vosti, Gormly, and Lukes. 2,957,771.  
 Luketa, Frank J. Winch. 2,954,209, 9-27-60, Cl. 254-185.  
 Lukey, John B.: *See*—  
     Armitage, Joseph B., and Lukey. 2,925,747.



- Lukey, John B., J. G. Osburn, and F. Zankl, to Kearney & Trecker Corp. Quill retracting and positioning mechanism. 2,925,018, 2-16-60, Cl. 90-16.
- Lukins, Richard H., to Union Special Machine Co. Sewing machine supporting means. 2,960,050, 11-15-60, Cl. 112-258.
- Lukk, Georges G.: See—
- Caesar, Cameron H., Lukk, and Bonmartini. 2,966,451.
- Lukk, Georges G., to Esso Research and Engineering Co. Spent caustic treating process. 2,937,986, 5-24-60, Cl. 208-88.
- Lull, Le Grand H. Control valve. 2,936,001, 5-10-60, Cl. 137-622.
- Lull, Le Grand H. Grader. 2,959,876, 11-15-60, Cl. 37-163.
- Lum, David W., and I. L. Mador, to National Distillers and Chemical Corp. Preparation of substituted semicarbazides. 2,959,615, 11-8-60, Cl. 260-554.
- Lumalampan Aktiebolag: See—
- Siljeholm, Gosta E. V., and Björkman. 2,928,990.
- Lummus Co., The: See—
- Agarwal, Jagdish C., Kraus, and Roszkowski. 2,929,703.
- Moorman, Joseph W. 2,962,362.
- Schutte, August H. 2,920,034.
- Schutte, August H. 2,923,678.
- Schutte, August H. 2,928,786.
- Worn, George A., and Evans. 2,939,685.
- Worn, George A., and Vanderman. 2,928,166.
- Lummus Cotton Gin Co.: See—
- Van Doorn, Donald W. 2,961,943.
- Van Doorn, Donald W., and Pease. 2,963,959.
- Lummas, James L., to Pan American Petroleum Corp. Oil base drilling fluid. 2,943,051, 6-28-60, Cl. 252-8.5.
- Lummas, James L., to Pan American Petroleum Corp. Method of drilling a well with an oil base drilling fluid containing an alcohol-wet resin. 2,955,082, 10-4-60, Cl. 252-8.5.
- Lummas, James L., and P. P. Scott, Jr., to Pan American Petroleum Corp. Cyclonic separation of drilling fluids. 2,954,871, 10-4-60, Cl. 209-211.
- Lumprint Zindler K.G.: See—
- Gartner, Herbert. 2,965,814.
- Limberger, Walter. 2,930,284.
- Limberger, Walter. 2,950,661.
- Limberger, Walter. 2,961,993.
- Lumpkin, Frank K. Transparent covered certificate holder. 2,925,675, 2-23-60, Cl. 40-10.
- Lumsden, John, to Metallurgical Development Co. Blast furnace smelting of zinciferous materials. 2,932,566, 4-12-60, Cl. 75-87.
- Lunak, Hynek: See—
- Hanzl, Vladimir, and Lunak. 2,933,909.
- Lunas, Lawrence J.: See—
- Nycz, Joseph C., and Lunas. 2,929,994.
- Young, Douglass A., Lunas, and Walsweer. 2,924,499.
- Lunas, Lawrence J., to Westinghouse Electric Corp. Moving-coil electrical instruments. 2,959,736, 11-8-60, Cl. 324-150.
- Lund, Alvin: See—
- Kaufman, Jack, and Lund. 2,954,959.
- Lund, Arthur F., to Cherry-Burrell Corp. Method and system for processing fruit juices. 2,956,887, 10-18-60, Cl. 99-205.
- Lund, Donald J. Finger ring assembling and retaining means. Re. 24,798, 3-15-60, Cl. 63-15.2.
- Lund, Douglas W. Integrated bedpan and support. 2,932,830, 4-19-60, Cl. 4-112.
- Lund, George E.: See—
- Lincoln, Andrew J., Lund, and Meyerhoff. 2,943,300.
- Lund, George E., to Burroughs Corp. Shift code counter. 2,921,297, 1-12-60, Cl. 340-174.
- Lund, George E., to Burroughs Corp. Primed gate using binary cores. 2,930,902, 3-29-60, Cl. 307-88.
- Lund, George E., to Burroughs Corp. Logic circuit using binary cores. 2,952,841, 9-13-60, Cl. 340-174.
- Lund, Johan, to Formsprag Co. Energizing means for one-way clutches of the sprag type. 2,954,855, 10-4-60, Cl. 112-45.1.
- Lund, Rueben W. Tether trolley. 2,953,116, 9-20-60, Cl. 119-120.
- Lunday, George P.: See—
- Santora, Hugo R., Lunday, and Benson. 2,925,013.
- Lundberg, Arthur H., to Pullman-Standard Car Mfg. Co. Vehicle folding step assembly. 2,941,483, 6-21-60, Cl. 105-448.
- Lundberg, Don, to Old Town Corp. Master sheet set for spirit duplicating. 2,925,033, 2-16-60, Cl. 101-149.4.
- Lundberg, John E., to United States of America, Navy. Air-bearing gyro. 2,960,873, 11-22-60, Cl. 74-5.0.
- Lundberg, Lennart A., to American Cyanamid Co. Composition comprising unsaturated polyester and an unsaturated ester. 2,930,776, 3-29-60, Cl. 260-45.4.
- Lundberg, Lennart A., to American Cyanamid Co. Water-soluble polymers of N,N' ethylene-bis-acrylamide. 2,934,528, 4-26-60, Cl. 260-88.3.
- Lundberg, Lennart A., to American Cyanamid Co. Resin compositions. 2,947,736, 8-2-60, Cl. 260-88.3.
- Lundberg, Theodore B. Irrigation hose. 2,940,777, 6-14-60, Cl. 285-5.
- Lundberg, Victor O.: See—
- Honerkamp, Friedrich, and Lundberg. 2,922,324.
- Lundbergh, Ted A.: See—
- Quinn, James M., and Lundbergh. 2,952,534.
- Lunde, Einar O., to Magor Car Corp. Pneumatic control means for offset pivoted hopper car doors. 2,927,541, 3-8-60, Cl. 105-240.
- Lunde, Thomas T. Mechanism for operating dump-gates on bottom-dump barges. 2,927,550, 3-8-60, Cl. 114-36.
- Lundeberg, Edgar C., to Industrial Development Corp. Hook-stay setting machine. 2,936,454, 5-17-60, Cl. 1-3.
- Lundeberg, Edgar C., to Industrial Development Corp. Eye setting machine. 2,939,145, 6-7-60, Cl. 1-3.
- Lundeberg, Edgar C. Lock nut having a deformable member containing liquid sealant. 2,942,640, 6-28-60, Cl. 151-7.
- Lundeen, David E., W. H. Ulman, N. V. Guschung, and H. E. Boyer, to The Monarch Machine Tool Co. Electro-hydraulic servo system. 2,951,342, 9-6-60, Cl. 60-52.
- Lundell, Alvin O., to The Allbright-Nell Co. Inspection apparatus for the viscera and heads of animal carcasses. 2,923,028, 2-2-60, Cl. 17-24.
- Lundell, Arnold W., to Globe Slicing Machine Co., Inc. Commodity supports for slicing machines. 2,930,422, 3-29-60, Cl. 146-217.
- Lundell, Vernon J. Hay chopper. 2,938,326, 5-31-60, Cl. 56-504.
- Lundevall, Gustav B. Zinc refining. 2,939,783, 6-7-60, Cl. 75-88.
- Lundgren, Aron. Portable charcoal broiler. 2,962,019, 11-29-60, Cl. 126-25.
- Lundgren, Claes E. G.: See—
- Arborelius, Mans M., and Lundgren. 2,931,357.
- Lundgren, Claes E. G., and M. M. Arborelius. Respirators, particularly for submarine use. 2,944,544, 7-12-60, Cl. 128-142.
- Lundgren, Don L.: See—
- Murphy, John J., and Lundgren. 2,935,706.
- Lundgren, Eric, to Ox Fibre Brush Co., Inc. Handle brace for push brushes. 2,922,179, 1-26-60, Cl. 15-146.
- Lundgren, Erick G.: See—
- Riddle, John W., and Lundgren. 2,919,952.
- Lundgren, Herbert K. Removable mounting for sliding sash. 2,939,170, 6-7-60, Cl. 16-197.
- Lundquist, Bror A. Method for cutting wire. 2,925,652, 2-23-60, Cl. 29-414.
- Lundquist, Ivan F.: See—
- Leo, Per G. 2,951,475.
- Lundquist, Ivan W. Ski holder. 2,956,812, 10-18-60, Cl. 280-11.37.
- Lundquist, Oliver. Box structures. 2,936,939, 5-17-60, Cl. 229-8.
- Lundquist, Peter P., and G. W. Rusler, Jr., to Minneapolis-Honeywell Regulator Co. Automatic pilot for aircraft. 2,942,806, 6-28-60, Cl. 244-77.
- Lundquist, Richard C., to Goodman Mfg. Co. Continuous miner with conveyor having vertically adjustable side walls. 2,957,686, 10-25-60, Cl. 262-7.
- Lundquist, Roy W., to Bendix Aviation Corp. Respiratory masks. 2,939,458, 6-7-60, Cl. 128-146.
- Lundstrom, Alexis A., to Bell Telephone Laboratories, Inc. Radar systems employing random pulsing. 2,927,317, 3-1-60, Cl. 343-13.
- Lundy, Alvin S., to Claude B. Schneible Co. Gas fractionating apparatus. 2,942,540, 6-28-60, Cl. 98-115.
- Lung, Kenneth R., to The Tait Mfg. Co. Pumps. 2,954,739, 10-4-60, Cl. 103-102.
- Lung, Kenneth R., to The Tait Mfg. Co. Pipe coupling for pumps having resilient means to insulate and dampen vibrations. 2,962,304, 11-29-60, Cl. 285-48.
- Lung, Kenneth R., to The Tait Mfg. Co. Submersible motor construction. 2,962,612, 11-29-60, Cl. 310-87.
- Lungo, Antonio: See—
- Curran, Daniel R., Gerber, and Lungo. 2,927,285.
- Luning, George A., to International Business Machines Corp. Card weight. 2,938,722, 5-31-60, Cl. 271-44.
- Lunkenheimer Co., The: See—
- Steinbuch, Marvin L., and Wyatt. 2,950,081.
- Wiedmann, Richard. 2,947,046.
- Lunsford, Carl D., to A. H. Robins Co., Inc. Esters of amino alcohols. 2,956,062, 10-11-60, Cl. 260-326.3.
- Luoma, Aarne A.: See—
- Williams, John G., and Luoma. 2,961,964.
- Luoma, Pauline: See—
- Carpentier, Melbourne L., and Drinkard. 2,957,461.
- Luongo, Joseph, R. H. Rymer, and F. P. Turvey, Jr., to International Telephone and Telegraph Corp. Analog to digital translators. 2,958,861, 11-1-60, Cl. 340-347.
- Lupfer, Dale E.: See—
- Peters, William D., and Lupfer. 2,955,457.
- Lupfer, Dale E., D. M. Vesper, and E. Guenther, to Phillips Petroleum Co. Bellows pump. 2,960,038, 11-15-60, Cl. 103-38.
- Lupfer, James A.: See—
- Kelseaux, Raymond M., and Lupfer. 2,937,634.
- Lupin, Eli R. Hydraulic actuating system. 2,932,257, 4-12-60, Cl. 103-207.
- Lupish, Walter, to Faximile, Inc. Facsimile recorder. 2,936,208, 5-10-60, Cl. 346-101.
- Lupton, Clark R., to Bendix Aviation Corp. Brake shoe. 2,948,360, 8-9-60, Cl. 188-234.
- Lurcott, Eugene G., Jr.: See—
- Rush, Joseph A., and Lurcott. 2,953,679.
- Lurcott, Eugene G., Jr., and S. Dobren, to Radio Corp. of America. Sweep circuit. 2,959,750, 11-8-60, Cl. 332-42.



- Lurgi Ges. f. Warmetechnik m.g.H.: *See*—  
Rottig, Walter, and Wischermann. 2,957,902.
- Lurk, Hans-Joachim: *See*—  
Töpfer, Herbert, Lurk, and Villmann. 2,943,153.
- Lurton, Howard M.: *See*—  
Westcott, Lawrence C., and Lurton. 2,958,663.
- Lury, Guy, to All Precision Engineering Ltd. Calliper gauges, height gauges and like instruments for measuring distances on work pieces. 2,926,426, 3-1-60, Cl. 33—169.
- Lusby, George R.: *See*—  
Graham, George W., and Lusby. 2,946,826.
- Lüsch, Herbert T. Housings for elastic fluid turbines. 2,925,249, 2-16-60, Cl. 253—39.
- Luscher, Paul, to Södco Societe des Compteurs de Geneve. Rectifying filter for a telephone fee meter operating through pulses at a frequency of 16 kilocycles. 2,960,637, 11-15-60, Cl. 317—147.
- Lusk, Carroll B. Grid structures. 2,957,582, 10-25-60, Cl. 211—15.
- Lusk, Elmer C.: *See*—  
Drennan, James E., Lusk, and Todd. 2,921,219.
- Lusk, Marian P. Novelty apparel for dolls and the like. 2,942,273, 6-28-60, Cl. 2—80.
- Luskin, Bernard, to Times Facsimile Corp. Recording ocean depth. 2,958,846, 11-1-60, Cl. 340—3.
- Lussky, Frederick G.: *See*—  
Underwood, Herbert N., Olsen, and Lussky. 2,940,608.
- Luster, Vaylord R.: *See*—  
Bryant, Eugene E., and Luster. 2,961,337.
- Lusti, John, to Otis Elevator Co. Elevator control system. 2,936,859, 5-17-60, Cl. 187—29.
- Lusti, John, and W. F. Glaster, to Otis Elevator Co. Elevator system. 2,938,605, 5-31-60, Cl. 187—29.
- Lütke, Helmut O., and H. W. Schinke, to Aktiengesellschaft für Unternehmungen. Rotor for wire stranding machine. 2,921,428, 1-19-60, Cl. 57—58.3.
- Lütke, Helmut O., to Beteiligungs- und Patentverwaltungsgesellschaft mit Beschränkter Haftung. Caterpillar feeder for strands. 2,935,178, 5-3-60, Cl. 203—227.
- Lutes, John A. Window insulating device. 2,935,769, 5-10-60, Cl. 20—56.5.
- Lutgerhorst, Albertus G.: *See*—  
Hennemann, Georg, and Lutgerhorst. 2,936,249.
- Luther, Arch C., Jr., to Radio Corp. of America. Color television matrix amplifier. 2,924,648, 2-9-60, Cl. 178—5.4.
- Luther, Arch C., Jr., to Radio Corp. of America. Kinescope background control system. 2,965,705, 12-20-60, Cl. 178—5.4.
- Luther, Bertil E. Model building. 2,951,311, 9-6-60, Cl. 46—19.
- Luther, Edmund R., to B & H Instrument Co., Inc. Adjustable resistance device. 2,921,283, 1-12-60, Cl. 338—79.
- Luther, Herbert G.: *See*—  
Sacchi, Eduardo M., and Luther. 2,944,541.  
Sherman, William C., Donovan, Reynolds, and Luther. 2,925,342.
- Luther, Herbert G., and W. M. Reynolds, to Chas. Pfizer & Co., Inc. Growth accelerating substances. 2,951,760, 9-6-60, Cl. 99—2.
- Luther, William A., Jr., and R. P. Koehring, to General Motors Corp. Friction material. 2,945,292, 7-19-60, Cl. 29—182.5.
- Luthi, Alfred, 30% to M. Calise. Fish landing net. 2,921,397, 1-19-60, Cl. 43—7.
- Luthi, Oscar: *See*—  
Carlsmith, Lawrence A., and Luthi. 2,939,745.
- Luthi, Oscar, to Improved Machinery Inc. Plural intermeshing screw structures. 2,931,308, 4-5-60, Cl. 103—128.
- Luthi, Robert, 40% to K. T. Snow. Variable speed gear reduction unit. 2,948,165, 8-9-60, Cl. 74—80.4.
- Luthman, Paul A., and J. R. Starrett, to Avco Mfg. Corp. Feed mechanism for balers. 2,929,313, 3-22-60, Cl. 100—142.
- Lutsky, Sidney. Bowling glove. 2,949,610, 8-23-60, Cl. 2—16.
- Luttinger, Lionel B., to American Cyanamid Co. Stabilization of acrylonitrile copolymers. 2,951,055, 8-30-60, Cl. 260—45.7.
- Luttrell, Earl B., to Luttrell Engineering Corp. Combination two cycle internal combustion engine and turbine. 2,939,441, 6-7-60, Cl. 123—70.
- Luttrell Engineering Corp.: *See*—  
Luttrell, Earl B. 2,939,441.
- Luttrell, Jimmie W.: *See*—  
Evans, John M., and Luttrell. 2,950,401.
- Luttrell, John L., V. F. De Vost, G. Stathopoulos, and J. E. Messner, to United States of America, Navy. Shock tester. 2,959,049, 11-8-60, Cl. 73—12.
- Lutts, William M., Sr. Portable machine set-off. 2,941,724, 6-21-60, Cl. 238—10.
- Lutz, Friedrich, and H. Daniel, to Union Special Maschinenfabrik, G.m.b.H. Electrically driven portable bag sewing machine. 2,932,266, 4-12-60, Cl. 112—11.
- Lutz, Friedrich, and H. Daniel, to Union Special Maschinenfabrik, G.m.b.H. Portable sewing machines. 2,960,946, 11-22-60, Cl. 112—11.
- Lutz, Garson A., and R. E. Sharpe, to Permchem Corp. Germicidally active soap containing silver ion exchange resin. 2,951,811, 9-6-60, Cl. 252—107.
- Lutz, Irvin H., and H. D. Holdridge, Jr., to The American Oil Co. Combination reforming and solvent extraction process. 2,956,005, 10-11-60, Cl. 208—96.
- Lutz, Karl, to Sandoz Ltd. Dithiophosphoric acid esters. 2,931,825, 4-5-60, Cl. 260—461.
- Lutz, Milton W., to Allis-Chalmers Mfg. Co. Intermediate pressure take-off from barrel type boiler feed pumps. 2,925,042, 2-16-60, Cl. 103—108.
- Lutz, Raymond P.: *See*—  
Tarrant, Paul, and Lutz. 2,945,896.
- Lutz, William A., and E. Pelitti, to Dorr-Oliver Inc. Pan seal for travelling pan filter. 2,935,200, 5-3-60, Cl. 210—400.
- Lu Valle, James E.: *See*—  
Goldberg, Gershon M., and Lu Valle. 2,938,793.
- Luvisi, Fred P.: *See*—  
Cordon, Theone C., Beebe, and Luvisi. 2,937,921.
- Luvisi, Fred P., W. F. Happich, M. V. Hannigan, and C. W. Beebe, to United States of America, Agriculture. Alum tannage. 2,942,930, 6-28-60, Cl. 8—94.29.
- Luvisi, John P., to Universal Oil Products Co. Preparation of insecticides. 2,929,850, 3-22-60, Cl. 260—648.
- Luvisi, John P., to Universal Oil Products Co. Preparation of polyhalo substituted benzenes. 2,929,851, 3-22-60, Cl. 260—650.
- Luwa Ltd.: *See*—  
Sauter, Karl. 2,944,628.
- Lux Clock Mfg. Co., Inc. The: *See*—  
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- Lux, Eugene J. Coin register. 2,959,265, 11-8-60, Cl. 194—54.
- Lux, Eugene J., ½ to Sunshine Biscuits, Inc. Dispensing unit for vending machines. 2,927,715, 3-8-60, Cl. 221—108.
- Lux, Frederick, to The Lux Clock Mfg. Co., Inc. Automatic rate correcting mechanism for clocks or the like. 2,941,349, 6-21-60, Cl. 58—109.
- Luxem, Paul L.: *See*—  
Schultz, Melvin P., Luxem, and Mussey. 2,945,356.
- Luxenburg, Julius. Automatic eyelet attachment. 2,954,001, 9-27-60, Cl. 112—66.
- Luxford, Robert R. Resilient base for machines. 2,920,849, 1-12-60, Cl. 248—22.
- Luxra Co.: *See*—  
Thelen, Floyd E. 2,923,797.
- Luz, Christian, to E. Leitz, G.m.b.H. Photographic printing easel. 2,955,511, 10-11-60, Cl. 88—24.
- Luzader, Gilbert B., and M. E. Hall, to Union Carbide Corp. Refining of alpha-methylbenzyl ether. 2,927,064, 3-1-60, Cl. 202—42.
- Lyall, John D., to Armstrong Cork Co. Wood grinder and means for operating the same. 2,965,315, 12-20-60, Cl. 241—34.
- Lybrook, Malcolm T., and C. L. Burns, to Essex Wire Corp. Electric switch. 2,941,048, 6-14-60, Cl. 200—6.
- Lybber, Ben H. Fishhook setter. 2,934,848, 5-3-60, Cl. 43—15.
- Lydfors, John, to Aktiebolaget Addo. Mechanisms for short cut multiplication in calculating machines. 2,946,507, 7-26-60, Cl. 235—63.
- Lyding, Arthur R., to Olin Mathieson Chemical Corp. Heat-exchange fluid compositions. 2,933,450, 4-19-60, Cl. 252—73.
- Lyding, Arthur R., to Olin Mathieson Chemical Corp. Bis(isopropylaryl)methane. 2,933,540, 4-19-60, Cl. 260—668.
- Lykes, Norman R. Multiple compartment condiment dispenser. 2,934,242, 4-26-60, Cl. 222—142.4.
- Lykes, Norman R. Baby nursing bottle holder. 2,935,282, 5-3-60, Cl. 248—106.
- Lykke, Gravs. Apparatus for testing electric armatures. 2,924,773, 2-9-60, Cl. 324—51.
- Lykken, Frances H.: *See*—  
Lykken, Henry G. 2,966,400.
- Lykken, Henry G. and W. H., to The Microcyclomat Co. Precision grinder with forced circulation classifier. 2,931,581, 4-5-60, Cl. 241—52.
- Lykken, Henry G. and W. H., to The Microcyclomat Co. Precision grinder. 2,941,731, 6-21-60, Cl. 241—10.
- Lykken, Henry G. and W. H., to The Microcyclomat Co. Integrated dry material reducing and classifying means. 2,945,633, 7-19-60, Cl. 241—41.
- Lykken, Henry G. and W. H., to The Microcyclomat Co. Synergistic fluid energy reducing and classifying unit. 2,953,307, 9-20-60, Cl. 241—52.
- Lykken, Henry G., T. A. Rozsa, and R. Gracza, to Microcyclomat Co. Dry material pulverizer with integral classifier. 2,963,230, 12-6-60, Cl. 241—50.
- Lykken, Henry G., deceased; F. H. Lykken, administratrix. Lignite processing method. 2,966,400, 12-27-60, Cl. 44—1.
- Lykken, William H.: *See*—  
Lykken, Henry G. and W. H. 2,931,581.  
Lykken, Henry G. and W. H. 2,941,731.  
Lykken, Henry G. and W. H. 2,945,633.  
Lykken, Henry G. and W. H. 2,953,307.
- Lyle, Charles A., and R. H. Muller, to The Air Preheater Corp. Sealing means for rotary regenerative heat exchanger. 2,942,857, 6-28-60, Cl. 257—269.
- Lyle, James E., and C. F. Martinez, to International Harvester Co. Peanut harvester. 2,952,321, 9-13-60, Cl. 171—94.
- Lyle, John P., Jr., and R. J. Towner, to Aluminum Co. of America. Aluminum alloy powder product. 2,963,780, 12-13-60, Cl. 29—182.
- Lyman, Claude W. Pallet and method for making same. 2,942,824, 6-28-60, Cl. 248—120.



- Lyman, Donald J., to E. I. du Pont de Nemours and Co. Process of spinning acrylonitrile polymer solution in a mixture of solvents. 2,953,538, 9-20-60, Cl. 260—30.2.
- Lyman, Harold T.: See—  
Mason, Francis G., and Lyman. 2,925,495.
- Lyman, Harold T., to Aladdin Industries, Inc. Wide-range tuner mechanism. 2,920,199, 1-5-60, Cl. 250—40.
- Lyman, Harold T., to Aladdin Industries, Inc. Radio frequency tuner with mechanical tracking arrangement. 2,938,392, 5-31-60, Cl. 74—10.45.
- Lyman, Harold T., to Aladdin Industries, Inc. Rotary tuner with temperature compensating means in operating arm. 2,946,885, 7-26-60, Cl. 250—40.
- Lyman, Harold T., to Aladdin Industries, Inc. Printed circuits. 2,961,746, 11-29-60, Cl. 29—155.5.
- Lyman, Harold T., to Aladdin Industries, Inc. Method of making inductance coils. 2,961,747, 11-29-60, Cl. 29—155.57.
- Lyman, Richard E., to General Electric Co. Electric arc furnace. 2,942,044, 6-21-60, Cl. 13—9.
- Lyman, Wallace R., to Westinghouse Electric Corp. Dehumidification apparatus. 2,930,208, 3-29-60, Cl. 62—428.
- Lyman, Wallace R., to Westinghouse Electric Corp. Air conditioning apparatus. 2,956,417, 10-18-60, Cl. 62—150.
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- Lynch, Carl R., to United States Steel Corp. Method of coating hot-dip galvanized pipe. 2,944,925, 7-12-60, Cl. 148—18.
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- Lyon, George A. Means for nosing shells. 2,923,048, 2-2-60, Cl. 29—1.21.
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- Lyon, George A. Cover retaining wheel balancing weight clips. 2,926,955, 3-1-60, Cl. 301—5.
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- Lyon, George A. Wheel cover. 2,930,655, 3-29-60, Cl. 301—37.
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- Lyon, George A. Wheel cover. 2,943,888, 7-5-60, Cl. 301—37.
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- Lyon, George A. Wheel cover. 2,947,573, 8-2-60, Cl. 301—37.



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- Lyon, George A. Wheel cover. 2,947,575, 8-2-60, Cl. 301-37.
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- MacCracken, Calvin D., and J. M. Relph, to Jet-Heat, Inc. Liquid atomizers. 2,928,612, 3-15-60, Cl. 239-446.
- MacCracken, Calvin D., and H. Olschner, to Jet-Heat, Inc. Flexible foam-plastic insulated duct. 2,936,792, 5-17-60, Cl. 138-58.
- MacCracken, Calvin D., and G. N. Miles, to Whirlpool Corp. Laundry machine with heat storage means. 2,949,679, 8-23-60, Cl. 34-133.
- MacDavid, Daniel L., to I. Dumm, III. Electrically actuated, pilot operated valve. 2,925,985, 2-23-60, Cl. 251-30.
- MacDermid Inc.: See—
- Laue, Erich. 2,955,992.
- Macdonald, Angus A., to Motorola, Inc. Crystal oscillator system. 2,925,561, 2-16-60, Cl. 332-26.
- Macdonald, Angus A., to Motorola, Inc. Automatic control of coupling between input tuned circuits to vary attenuation and selectivity. 2,947,859, 8-2-60, Cl. 250-20.
- Macdonald, Angus N., to Shawinigan Resins Corp. Interpolymers of vinyl esters with long chain alkyl esters of maleic acid. 2,965,617, 12-20-60, Cl. 260-78.5.
- Macdonald, Angus S., and L. E. Helbig, to The Globe-Wernicke Co. Compacted bookstacks. 2,958,428, 11-1-60, Cl. 211-150.
- Macdonald, Dennison H., to Revere Corp. of America. Dead-weight machine. 2,925,728, 2-23-60, Cl. 73-1.
- Macdonald, Donald C., and O. K. Laible, to United States Rubber Co. Recorder and combination thereof with a rubber mill. 2,939,757, 6-7-60, Cl. 346-25.
- Macdonald, Duncan N., to Burroughs Corp. Card sorter. 2,950,005, 8-23-60, Cl. 209-74.
- Macdonald, Duncan N., to Consolidated Electrodynamics Corp. Pulse generator. 2,962,609, 11-29-60, Cl. 307-132.
- Macdonald, Duncan N., and E. L. Glaser, to Burroughs Corp. Automatic printer. 2,928,602, 3-1-60, Cl. 101-93.
- Macdonald, Duncan N., W. V. Lord, and K. J. Sameshima, to Burroughs Corp. Mechanical manipulator. 2,933,205, 4-19-60, Cl. 214-1.
- Macdonald, Duncan N., and H. E. Burke, Jr., to Consolidated Electrodynamics Corp. Digital to analog converter. 2,952,844, 9-13-60, Cl. 340-347.
- Macdonald, Eugene M., to R. E. Macdonald. Zone identification check dispenser. 2,938,654, 5-31-60, Cl. 225-23.
- Macdonald, George W. Quick attachable and detachable covering for the open seating compartment of convertible automobiles. 2,950,749, 8-30-60, Cl. 150-52.
- Macdonald, James A., to The Consolidated Mining and Smelting Co. of Canada Ltd. Device for distributing granular material. 2,935,235, 5-3-60, Cl. 222-199.
- Macdonald, James R., to Texas Instruments Inc. Constant current amplifier. 2,955,256, 10-4-60, Cl. 330-3.
- Macdonald, James R., to Texas Instruments Inc. Cathode follower. 2,965,852, 12-20-60, Cl. 330-91.
- Macdonald, James R., to Texas Instruments Inc. Augmented cathode follower. 2,965,853, 12-20-60, Cl. 330-91.
- Macdonald, John G., to Dominion Road Machinery Co., Ltd. Circle drive mechanism. 2,928,381, 3-15-60, Cl. 121-120.
- Macdonald, John G. Piston engine compressor control. 2,955,580, 10-11-60, Cl. 123-46.
- Macdonald, John M., to Standard Oil Co. Asphalt blending. 2,963,415, 12-6-60, Cl. 208-39.
- Macdonald, Malcolm E., to Servisoff of California. Draw-off valve. 2,964,072, 12-13-60, Cl. 141-250.
- MacDonald, Maurice: See—
- Dolman, Clarence D. 2,941,888.
- MacDonald, Norman, Jr.: See—
- Phillip, George O., and MacDonald. 2,955,488.
- MacDonald, Raymore D., to Ulrich Mfg. Co. Road base spreading apparatus. 2,962,947, 12-6-60, Cl. 94-44.
- MacDonald, Robert N., and M. J. Roedel, to E. I. du Pont de Nemours and Co. Stabilization of polyoxymethylenes with aromatic amines. 2,920,059, 1-5-60, Cl. 260-45.9.
- Macdonald, Robert W., to Bell Telephone Laboratories, Inc. Surface treatment of silicon devices. 2,948,642, 8-9-60, Cl. 148-15.
- Macdonald, Rosemary E.: See—
- Macdonald, Eugene M. 2,938,654.
- Macdonald, Waldron S. Depth charge arming device. 2,961,955, 11-29-60, Cl. 102-7.
- Macdonald, Waldron S., C. B. Brown, R. H. Park, and S. J. Sindeband. Firing control mechanism for a depth charge. 2,959,123, 11-8-60, Cl. 102-7.
- Macdonald, Ward D., to Michigan Foundry Supply Co. Apparatus for treating metal borings. 2,925,821, 2-23-60, Cl. 134-65.
- MacDuff, Stanley I., to Bendix Aviation Corp. Power steering mechanism. 2,930,359, 3-29-60, Cl. 121-41.
- MacDuff, Stanley I., to Bendix Aviation Corp. Hydraulic reaction control. 2,930,361, 3-29-60, Cl. 121-46.5.
- Macek, Henry: See—
- Macek, Mathew, J. W., and H. 2,950,603.
- Macek, John W.: See—
- Macek, Mathew, J. W., and H. 2,950,603.
- Macek, Mathew, J. W., and H. Post driver. 2,950,603, 8-30-60, Cl. 61-74.
- MacEvoy, Walter M. Apparatus for interleaving bags made of a thermoplastic material. 2,924,454, 2-9-60, Cl. 271-83.
- MacEwan, James U.: See—
- Archambault, Maurice, MacEwan, and Olivier. 2,923,600.
- Macey, Alan, and K. C. Stowell, to Associated British Maltsters Ltd. Maltting process. 2,960,409, 11-15-60, Cl. 99-27.
- Macey, Michael J., to United States Steel Corp. Coke guide operated control system for pusher ram. 2,923,422, 2-2-60, Cl. 214-23.
- MacFadyen, Donald E.: See—
- Maude, Aylmer H., and MacFadyen. 2,965,455.



- MacFarlan, J. F., & Co. Ltd.: *See*—  
Stern, Edward S., and Watt. 2,960,507.
- MacFarland, Aveyard & Co.: *See*—  
Lebert, Herbert A. 2,954,772.  
Lebert, Herbert A. 2,954,773.  
Lebert, Herbert A. 2,954,774.  
Lebert, Herbert A. 2,954,777-87.  
Power, Walter C. 2,936,540.
- MacFarlane, Charles H., to The Scott & Fetzer Co. Safety device. 2,948,091, 8-9-60, Cl. 51-241.
- MacFarland, Charles H., to The Scott & Fetzer Co. Vacuum cleaner accessory. 2,954,652, 10-4-60, Cl. 51-241.
- MacFarlane, Richard R.: *See*—  
Dyrkacz, Wasil W., Reynolds, MacFarlane, and Pitler. 2,949,355.
- MacFarlane, Richard R., and R. K. Pitler, to Allegheny Ludlum Steel Corp. Nickel-free austenitic elevated temperature alloy. 2,948,604, 8-9-60, Cl. 75-126.
- MacFarquhar, Murdo M.: *See*—  
Bray, William W., Jr., and MacFarquhar. 2,948,670.
- MacGeorge, William D., to The Howe Scale Co. Apparatus for effecting automatic batching of composite mixtures. 2,934,751, 4-26-60, Cl. 340-199.
- MacGillivray, Robert K., and D. R. Buckman, to Superior Separator Co. Grain separating machines and anti-plug devices therefor. 2,929,890, 3-22-60, Cl. 200-61.21.
- MacGlashan, William F., Jr., H. J. Margraf, and C. R. Seitz, to United States of America, Army. Air cut-off valve. 2,926,694, 3-1-60, Cl. 137-544.
- Macgregor, Peter S.: *See*—  
Cobham, Alan J., Latimer-Needham, Smith, and Macgregor. 2,953,332.
- MacGriff, Jack E. Image control tube. 2,934,673, 4-26-60, Cl. 315-8.5.
- Machala, Anthony E.: *See*—  
Durst, Robert F., and Machala. 2,934,683.
- Machalek, Ferdinand T., to International Telephone and Telegraph Corp. Automatic headlight system. 2,921,232, 1-12-60, Cl. 315-83.
- Machalek, Ferdinand and L. 1/4 to J. Dvorak and 1/4 to J. Litochilb. String mounted key for electronic musical instrument. 2,953,249, 11-1-60, Cl. 84-1.16.
- Machalek, Ludmila: *See*—  
Machalek, Ferdinand and L. 2,953,249.
- Machate, Fred, Jr.: *See*—  
Tatum, David, and Machate. 2,938,404.
- MacHenry, Richard, to American Viscose Corp. Rayon swab. 2,959,838, 11-15-60, Cl. 28-78.
- Machielse, Jan, E. B. Morgan, and G. L. Weaver, to American Seating Co. Stackable rack for folding chairs. 2,940,597, 6-14-60, Cl. 211-27.
- Machine Instruments Inc.: *See*—  
Wight, Daniel T., and Kimball. 2,919,853.
- Machine Products Corp.: *See*—  
Miller, Clarence H. 2,921,376.
- Machine Tool Automation, Inc.: *See*—  
Wolff, Gunther. 2,942,252.
- Machine Tool Works Oerlikon, Administration Co.: *See*—  
Hepperle, Erwin. 2,962,935.
- Keller, Siegfried, Müller, and Seger. 2,957,730.
- Kreienbuhl, Franz, and Ineichen. 2,939,304.
- Linder, Friedrich. 2,948,195.
- Lippert, Hans, and Mühlemann. 2,962,936.
- Machinecraft, Inc.: *See*—  
Butler, Richard K. 2,943,362.  
Cotechett, Louis M. 2,937,414.  
Cotechett, Louis M. 2,943,361.
- Machinenfabrik Augsburg-Nürnberg A.G.: *See*—  
Dietrich, Paul, and Günther. 2,928,344.
- Machinery Center, Inc.: *See*—  
Pierce, Roger V., O'Leary, and O'Donnell. 2,937,773.
- Machinery Electrification, Inc.: *See*—  
Sweet, Richard J., and Smith. 2,931,945.
- Machinery Electrification, Inc.: *See*—  
Dunigan, Francis P. 2,961,808.
- Machinery Service Co.: *See*—  
Craig, George A. 2,951,574.
- Machlanski, Sigmund, to Bendix Aviation Corp. Flow meter. 2,939,319, 6-7-60, Cl. 73-228.
- Machlanski, Sigmund H., to Aerojet-General Corp. Device for determining flow ratio. 2,953,920, 9-27-60, Cl. 73-196.
- Machler, Raymond C.: *See*—  
Armi, Edgar L., Johnson, Machler, and Polster. 2,939,318.
- Machlett Laboratories, Inc., The: *See*—  
Agule, George J. 2,939,030.  
Harries, John H. O. and B. K. 2,932,754.  
Kirka, Chester. 2,958,006.  
Langer, Helmut A., and Talback. 2,939,986.  
Leferson, Joseph. 2,951,170.  
Marshall, Robert A. 2,956,670.
- Machlis, Jerome, to Hymac Corp. Digital ratimeter. 2,937,811, 5-24-60, Cl. 235-179.
- Machol, Morris R., and C. A. Reams. Counterbalanced unwatering apparatus. 2,963,870, 12-13-60, Cl. 61-65.
- Machovec, Fred J. Multiple-station blade sharpener. 2,924,047, 2-9-60, Cl. 51-102.
- Machovec, Fred J. Sharpener for rotary lawn mower blade. 2,943,423, 7-5-60, Cl. 51-34.
- Machovec, Fred J. Lawn mower sharpener with bed knife grinder. 2,964,884, 12-20-60, Cl. 51-56.
- Machts, Joachim, and W. Bonk, to Telefunken G.m.b.H. Tone arm for record players. 2,949,311, 8-16-60, Cl. 274-23.
- Machts, Ludwig. Method of and device for detecting differences and changes in bodies. 2,930,977, 3-29-60, Cl. 324-71.
- MacHutchin, John G., D. L. Prosser, and C. H. Wright, to United States Radium Corp. Self-luminous light sources. 2,953,684, 9-20-60, Cl. 250-71.
- Maciel, Anthony, Jr., and D. Jaster, to All-Brite Fluorescent Fixtures, Inc. Hanger construction for ceiling-recessed lighting fixtures. 2,948,807, 8-9-60, Cl. 240-78.
- Macinar, Inc.: *See*—  
Caston, Paul S. 2,943,896.
- MacInnes, Hugh, Jr.: *See*—  
Collins, Jerome, MacInnes, and Parker. 2,953,416.
- MacIntosh, John R., and S. A. Mercuro, to Mermac Products, Inc. Expandable wheel and hub structure. 2,963,833, 12-13-60, Cl. 51-191.
- MacIntyre, Charles H., to Bendix Aviation Corp. Control system for varying airfoil surfaces and the air inlet to the engine of an aircraft under prevailing operating conditions. 2,934,288, 4-26-60, Cl. 244-44.
- MacIntyre, Wilfred J. Golf putter. 2,954,231, 9-27-60, Cl. 273-164.
- MacIsaac, Gerard C. Fittings for automobile seats. 2,947,351, 8-2-60, Cl. 155-160.
- Maciszewski, Arthur H., J. J. Hupert, R. Goldstein, and T. Szubski to A.R.F. Products, Inc. Temperature compensated variable frequency oscillator. 2,933,698, 4-19-60, Cl. 331-176.
- Mack-Chicago Corp.: *See*—  
McCall, Richard J. 2,942,768.
- Mack, Dick A., and Q. A. Kerns, to The Regents of the University of California. Cable connector. 2,936,440, 5-10-60, Cl. 339-177.
- Mack, Ernest: *See*—  
Miller, Abe, and Mack. 2,932,528.
- Mack, Gerry P., to Metal & Thermit Corp. Synergistic stabilizer composition containing a benzoate, a phenolate, and triphenyl phosphite. 2,935,491, 5-3-60, Cl. 260-45.75.
- Mack, Gerry P., and E. Parker, to Carlisle Chemical Works, Inc. Vinyl chloride resin stabilized with dibutyl tin bis (propyleneglycol maleate). 2,938,013, 5-24-60, Cl. 260-45.75.
- Mack, Gerry P., and E. Parker, to Carlisle Chemical Works, Inc. Stabilized halogen-containing resins. 2,938,877, 5-31-60, Cl. 260-23.
- Mack, Jack E. Portable emergency farm produce aerator. 2,949,843, 8-23-60, Cl. 98-57.
- Mack, Joseph A.: *See*—  
Anderson, Edwin V., Mack, and Friberg. 2,934,164.
- Mack, Julian E., and G. W. Streander, to Design, Inc. Thermistor thermometer system. 2,938,385, 5-31-60, Cl. 73-362.
- Mack, Michael J., E. H. Fletcher, and J. R. Harvey, to Deere & Co. Power train and control mechanism. 2,953,935, 9-27-60, Cl. 74-473.
- Mack, Milton K., and E. A. Wolff, Jr., to Texas Instruments Inc. Transistor and method of making same. 2,956,913, 10-18-60, Cl. 148-1.5.
- Mack, Richard G.: *See*—  
Hook, John T., and Mack. 2,943,672.
- Mack, Richard F., and J. D. Smith, to Anti-Corrosive Metal Products Co., Inc. Anti-friction guide. 2,926,001, 2-23-60, Cl. 254-190.
- Mack, Richard G. Back pack and harness for carrying compressed gas cylinders. 2,943,775, 7-5-60, Cl. 224-5.
- Mack Trucks, Inc.: *See*—  
Heine, Lawrence J. 2,947,392.  
Willis, Delbert E. 2,930,462.
- Mack, William, to F. E. Wolcott. Pressure applicator. 2,921,711, 1-19-60, Cl. 222-5.
- Mackal, Henry H. Resilient inflation-deflation valve. 2,949,927, 8-23-60, Cl. 137-223.
- Mackanness, James B.: *See*—  
Butler, Geoffrey H., and Mackanness. 2,927,622.
- MacKay, Donald A. M.: *See*—  
Hewitt, Eric J., Hasselsstrom, MacKay, and Konigsbacher. 2,924,521.
- MacKay, Donald M. Cathode ray tubes and apparatus utilizing such tubes. 2,921,227, 1-12-60, Cl. 315-8.5.
- MacKay, Jackson F., and A. G. Moreton, to Esso Research and Engineering Co. Hydrocarbon reactor vessel. 2,955,987, 10-11-60, Cl. 196-46.
- MacKay, James B.: *See*—  
Henle, Robert A., and Mackay. 2,947,879.
- Mackay, James B., to International Business Machines Corp. Superconductor circuits. 2,966,598, 12-27-60, Cl. 307-88.5.
- MacKay, James M.: *See*—  
Thornhill, Philip G., and MacKay. 2,930,687.
- Mackay, John H., and D. K. Schleicher, 25% each to N. C. May and J. A. Sutton. Hand covering. 2,937,377, 5-24-60, Cl. 2-158.
- Mackay, John H., and D. K. Schleicher, 25% to N. C. May, 25% to J. A. Sutton, 25% to said Mackay, and 25% to said Schleicher. Hand covering. 2,937,378, 5-24-60, Cl. 2-158.



- Mackay, John H., and D. K. Schleicher, 25% to N. C. May, 25% to J. A. Sutton, 25% to said Mackay, and 25% to said Schleicher. Mitten. 2,937,379, 5-24-60, Cl. 2-158.
- Mackay, Johnstone S.: See—  
Vancheri, Frank J., and Mackay. 2,957,751.
- Mackay, Johnstone S., to Pittsburgh Coke & Chemical Co. Preparation of guanidine compounds. 2,949,484, 8-16-60, Cl. 260-564.
- Mackay, Kenneth C., to Illinois Tool Works. Terminal clip structure. 2,944,329, 7-12-60, Cl. 29-193.5.
- Mackay, Malcolm B., to A. O. Smith Corp. Water heating system. 2,952,410, 9-13-60, Cl. 237-8.
- Mackay Radio and Telegraph Co.: See—  
Abelew, Harry H. 2,956,151.  
Buff, Christopher. 2,932,730.  
Royden, George T. 2,954,431.  
Schabner, Fritz M. 2,931,981.
- Mackay Radio and Telegraph Co., Inc.: See—  
Royden, George T. 2,938,171.  
Royden, George T., and Butterworth. 2,944,110.
- MacKenzie, Donald K., Jr.: See—  
Clark, James B., Jr., Behles, and MacKenzie. 2,919,670.
- MacKenzie, Ian H.: See—  
Strang, John M., and MacKenzie. 2,958,256.
- MacKenzie, Willard B.: See—  
Gardner, Harris L., and Argeren. 2,957,208.
- MacKenzie, William E., to United States of America, Navy. Anti-icing fluid for use in freezing rain. 2,948,625, 8-9-60, Cl. 106-13.
- MacKenzie, William J. Shelf for window sill. 2,966,272, 12-27-60, Cl. 211-90.
- Mackes, Harold, to Binney & Smith Inc. Reclosable plastic bubble package. 2,945,586, 7-19-60, Cl. 206-78.
- Mackeurtan, Malire G.: See—  
Ritter, Ernest A. 2,960,444.
- Mackey, Eric, H. C. Weinheimer, and R. S. Landon, Jr., to The Borden Co. Plywood containers. 2,951,779, 9-6-60, Cl. 154-45.9.
- Mackey, Eugene L.: See—  
Schneider, Gilbert D., Gepfert, Mackey, and Siegrist. 2,919,731.
- Mackey, Eugene L., to The Yoder Co. Apparatus for electric welding. 2,964,610, 12-13-60, Cl. 219-63.
- Mackey, Royal V., Jr.: See—  
Spalding, David P., and Mackey. 2,937,580.
- Mackey, William H., to Cld Air Structures Co. Support for air-inflated building structure. 2,921,592, 1-19-60, Cl. 135-1.
- Mackie, Harry A., to Clark Equipment Co. Hood means for industrial trucks and the like. 2,931,452, 4-5-60, Cl. 180-69.
- Mackie, James, & Sons Ltd.: See—  
Hill, Moore. 2,938,240.
- MacKinlay, James W. Auto-tent. 2,938,525, 5-31-60, Cl. 135-1.
- Mackinney, Herbert W., to Union Carbide Corp. Polythiurane-rubber compositions. 2,962,457, 11-29-60, Cl. 260-3.
- MacKinnon, Lloyd J., and A. B. Trench, to Canadian General Electric Co. Ltd. Electrical reactor. 2,959,754, 11-8-60, Cl. 336-185.
- Mackintosh, Charles. Nesting chairs. 2,936,817, 5-17-60, Cl. 155-2.
- Macklanburg, Louis A. Calking load ejector cup. 2,955,728, 10-11-60, Cl. 222-386.5.
- Macklem, F. Sutherland, to Kliegl Bros., Universal Electric Stage Lighting Co., Inc. Theater lighting control system. 2,920,240, 1-5-60, Cl. 315-201.
- Macklem, Walter C., and L. S. Stokes, to United States Rubber Co. Pneumatic tires and bead construction therefor. 2,958,360, 11-1-60, Cl. 152-354.
- MacKnight, Merritt L.: See—  
Steinman, Leon H., and MacKnight. 2,946,900.
- Macks, Elmer F. Lubrication by moving gas-suspended particles. 2,922,491, 1-26-60, Cl. 184-1.
- Macks, Elmer F., to Air-Glide, Inc. Dynamoelectric device. 2,928,960, 3-15-60, Cl. 310-90.
- Macks, Elmer F., to Air-Glide, Inc. Dynamoelectric device with fluid supported rotor. 2,937,294, 5-17-60, Cl. 310-90.
- Macks, Elmer F. Seal. 2,964,339, 12-13-60, Cl. 286-10.
- Mackway, Harold J., to United States of America, Navy. Joy-stick control mechanism. 2,929,258, 3-22-60, Cl. 74-471.
- MacLaren, Albert S. Gas and liquid mixing apparatus. 2,928,661, 3-15-60, Cl. 261-24.
- MacLaren, Donald D.: See—  
Herrmann, John W., and MacLaren. 2,937,133.
- MacLaren, Donald D., to Esso Research and Engineering Co. Fluidized platinum reforming process. 2,933,446, 4-19-60, Cl. 208-65.
- MacLaren, Donald D., to Esso Research and Engineering Co. Process for light naphtha upgrading. 2,937,137, 5-17-60, Cl. 208-138.
- MacLaren, Donald D., to Esso Research and Engineering Co. Dual zone fluid coking process. 2,952,618, 9-13-60, Cl. 208-149.
- MacLaren, Donald D., and W. G. May, to Esso Research and Engineering Co. Fluid hydroforming process and apparatus. 2,943,997, 7-5-60, Cl. 208-64.
- MacLaren, Stuart P.: See—  
Schneider, William S. 2,942,760.
- MacLean, Alexander F.: See—  
Parker, Edwin D., and MacLean. 2,921,090.
- MacLean, Allister N.: See—  
Hearn, William R., MacLean, and Trusler. 2,920,045.
- MacLean-Fogg Lock Nut Co.: See—  
Oakley, Gilbert F. 2,953,104.
- Maclean, Donald, to Truelove & Maclean, Inc. Pocket clip. 2,926,404, 3-1-60, Cl. 24-11.
- Maclean, Duncan, to Imperial Chemical Industries Ltd. Purification of carboxylic acids. 2,923,736, 2-2-60, Cl. 260-525.
- MacLean, John, deceased (J. R. MacLean, administrator). Loose-leaf binders. 2,957,477, 10-25-60, Cl. 129-24.
- MacLean, John R.: See—  
MacLean, John. 2,957,477.
- MacLean, Kenneth S. Abrasive cytologic instruments. 2,955,591, 10-11-60, Cl. 128-2.
- MacLean, Kenneth S. Diagnostic instrument. 2,955,592, 10-11-60, Cl. 128-2.
- MacLean, William R., to United States of America, Air Force. Induction heating thermostable work circuit. 2,964,608, 12-13-60, Cl. 219-10.75.
- MacLeish, Kenneth G., to United States of America, Navy. Target scanning system. 2,931,912, 4-5-60, Cl. 250-203.
- MacLeish, Kenneth G., and R. E. Kesel, to United States of America, Navy. Optical mounting device. 2,944,783, 7-12-60, Cl. 248-358.
- MacLeish, William T.: See—  
Dombrowski, Frank A., and MacLeish. 2,936,209.
- MacLellan, Kenneth F., Jr., and F. W. Wanzenberg. Shoe polishing device. 2,961,678, 11-29-60, Cl. 15-131.
- MacLeod, David E., to Carrier Corp. Portable air conditioning units. 2,945,357, 7-19-60, Cl. 62-262.
- MacLeod, David E., to Carrier Corp. Self-contained air conditioning units. 2,945,359, 7-19-60, Cl. 62-280.
- MacLeod, David E., to Carrier Corp. Ice making apparatus. 2,952,988, 9-20-60, Cl. 62-139.
- MacLeod, David E., to Carrier Corp. Ice cube maker. 2,952,996, 9-20-60, Cl. 62-347.
- MacLeod, David E., and H. J. Tyler, to Carrier Corp. Air conditioning unit and mounting means therefor. 2,945,358, 7-19-60, Cl. 62-262.
- MacLeod, Douglas W.: See—  
Whittum, Warren C., and MacLeod. 2,939,616.
- MacLeod, Lester R.: See—  
Schnaitter, Edgar J., and MacLeod. 2,960,721.
- MacLeod, Norman A. Explosion propagating device. 2,926,604, 3-1-60, Cl. 102-22.
- MacMaster, Harry D., H. E. Bauer, and S. A. Guthrie, to General Grinding Wheel Corp. Method of making abrasive articles. 2,943,357, 7-5-60, Cl. 18-55.
- MacMillan and Bloedel Ltd.: See—  
Albrecht, Herbert R., and Bayley. 2,928,455.
- MacMillan Bloedel and Powell River Ltd.: See—  
Walker, Charles W. E. 2,964,107.
- MacMillan, Charles W., to Bear Mfg. Co. Shock absorber tester. 2,923,147, 2-2-60, Cl. 73-11.
- MacMillan, Charles W., to Bear Mfg. Co. Automotive vehicle test device. 2,923,149, 2-2-60, Cl. 73-117.
- MacMillan, Charles W., to Bear Mfg. Co. Adapter for mounting a test device upon an automobile wheel. 2,927,758, 3-8-60, Cl. 248-205.
- MacMillan, Charles W., to Bear Mfg. Co. Adapter ring for wheel balancers. 2,952,435, 9-13-60, Cl. 248-205.
- MacMillan, Charles W., H. O. Holaday, and F. W. Pierce, to Bear Mfg. Co. Automotive wheel alignment testing machine. 2,923,067, 2-2-60, Cl. 33-203.
- MacMillan, James C. A. Mold and method for making a dome structure. 2,958,918, 11-8-60, Cl. 25-121.
- MacMillan, John L.: See—  
Bauman, Howard E., MacMillan, and Stein. 2,965,492.
- MacMillan, Raymond A.: See—  
Czerlinsky, Ernest R., and MacMillan. 2,922,949.
- MacMillan, Raymond A., to United States of America, Air Force. Method and means for testing magnetic properties of toroid cores. 2,961,603, 11-22-60, Cl. 324-34.
- MacMurray, Daniel P.: See—  
Lindstrom, Gustaf T., and MacMurray. 2,964,827.
- MacMurray, Jess F.: See—  
Napier, Joe T., and MacMurray. 2,950,743.
- Macnamara, Terence C., S. R. Phillips, and J. Rook, to Associated Television Ltd. Lighting arrangements. 2,943,241, 6-28-60, Cl. 315-316.
- MacNeill, John H., and J. Y. Estabrook, to United States of America, Atomic Energy Commission. Reactor control system. 2,936,277, 5-10-60, Cl. 204-193.2.
- MacNeill, John H., and J. E. Bellinger, to Soroban Engineering, Inc. High speed punch. 2,940,521, 6-14-60, Cl. 164-111.
- MacNeill, John H., and J. E. Bellinger, to Soroban Eng., Inc. Ultra-high speed punch. 2,962,208, 11-29-60, Cl. 234-128.
- Maco Industries, Inc.: See—  
Madden, Thomas G., and Seudder. 2,951,523.
- Macovski, Albert: See—  
Pickholtz, Raymond L., and Macovski. 2,946,845.
- Macovski, Albert, to Radio Corp. of America. Television chrominance channel control system. 2,921,122, 1-12-60, Cl. 178-5.4.
- Macovski, Albert, to Radio Corp. of America. Color television receiver circuits. 2,938,072, 5-24-60, Cl. 178-5.4.
- Macovski, Albert, to Radio Corp. of America. Color processing system. 2,938,946, 5-31-60, Cl. 178-5.4.
- Macovski, Albert, to Radio Corp. of America. Noise clipping circuitry for television receivers. 2,942,062, 6-21-60, Cl. 178-7.3.



- Macovski, Albert, to Radio Corp. of America. Horizontal deflection synchronizing circuit for television. 2,951,117, 8-30-60, Cl. 178-7.3.
- Macovski, Albert, to Radio Corp. of America. Frequency control and color killer for television receivers. 2,955,154, 10-4-60, Cl. 178-5.4.
- Macovski, Albert, to Radio Corp. of America. Color television synchronous detectors. 2,960,562, 11-15-60, Cl. 178-5.4.
- Macovski, Albert, to Radio Corp. of America. Synchronous color killer system for TV receivers. 2,961,484, 11-22-60, Cl. 178-5.4.
- MacPeck, Donald L.: *See*—  
Phillips, Benjamin, Starcher, and MacPeck. 2,927,931.
- MacPhail, Malcolm R.: *See*—  
Feagin, Frank J., MacPhail, and Rust. 2,927,656.  
Feagin, Frank J., MacPhail, and Rust. 2,928,071.
- MacPhee, Donald, to The Sudan Gezira Board and Robert Bobby, Ltd. Machines for pulling cotton plants and the like out of the ground. 2,924,283, 2-9-60, Cl. 171-58.
- MacPherson, John I.: *See*—  
Kraus, Eugene S., Jr., MacPherson, and Flower. 2,949,271.
- MacPherson, William G., and C. D. Parker, to The Dow Chemical Co. Process for copolymerizing vinylidene chloride and acrylonitrile. 2,956,047, 10-11-60, Cl. 260-85.5.
- Macq, Andre, to Union Chimique Belge, Societe Anonyme, and Manufacture des Glaces et Produits Chimiques de Saint-Gobain, Chauny et Cires, Societe Anonyme. Process and apparatus for the manufacture of phosphoric acid. 2,950,171, 8-23-60, Cl. 23-165.
- MacRae, Fred G., to H. K. Porter Co. (Delaware). Electrical disconnectors. 2,957,967, 10-25-60, Cl. 200-115.
- MacRae, Gordon: *See*—  
Schechter, George O., and Hirsch. 2,948,971.
- MacRae, Ralph, to G. A. Tinnerman. Mounting clips. 2,953,830, 9-27-60, Cl. 24-73.
- Macredis, George, to Westinghouse Electric Corp. Elevator systems. 2,924,293, 2-9-60, Cl. 187-29.
- MacSinger, Joseph A., to Small Business Administration. Tape deck for non-rewinding tape recorder. 2,944,825, 7-12-60, Cl. 274-4.
- MacSorley, Olin L., and H. E. Cooley, to International Business Machines Corp. Transistor amplifier circuit. 2,928,049, 3-8-60, Cl. 330-24.
- MacSorley, Olin L., to International Business Machines Corp. Transistor switching circuit. 2,935,626, 5-3-60, Cl. 307-88.5.
- MacSporran, Charles: *See*—  
Evans, Edmond W., and MacSporran. 2,935,391.
- Macura, Heinrich. Graphitizing residues of the thermal decomposition of carbonaceous materials. 2,949,344, 8-16-60, Cl. 23-209.1.
- Macura, Karl: *See*—  
Siggel, Erhard, and Macura. 2,934,400.
- Macy, Donald, and H. Nelson, to Aircraft Venetian Blind Mfg. Co. Canopy. 2,949,649, 8-23-60, Cl. 20-57.5.
- Macy, James C. Automatic speed varying mechanism for machine tools. 2,942,499, 6-28-60, Cl. 77-5.
- Macy, James C., to Illinois Tool Works. Plastic fastener with rounded expandable portion. 2,956,468, 10-18-60, Cl. 85-40.
- Macy, Valentine E., Jr.: *See*—  
Haynes, Artemas J., and Allen. 2,925,028.
- Madanick, Sydney. Illuminated sign. 2,928,198, 3-15-60, Cl. 40-131.
- Madaras, Julius D. Metallurgical refining process. 2,939,782, 6-7-60, Cl. 75-43.
- Madden, Francis R. Ski rack. 2,956,813, 10-18-60, Cl. 280-11.37.
- Madden, George R. Automatic gate device. 2,925,674, 2-23-60, Cl. 39-22.
- Madden, Homer W. Unstacking machine. 2,956,697, 10-18-60, Cl. 214-8.5.
- Madden, James H.: *See*—  
Robinson, Gilbert G., and Madden. 2,944,221.
- Madden, Thomas G., and J. A. Scudder, to Maco Industries, Inc. Pressureless tires. 2,951,523, 9-6-60, Cl. 152-248.
- Madden, Wayne S.: *See*—  
Talbot, Richard C., and Madden. 2,952,960.
- Maddock, Alfred G., and A. H. Booth, to United States of America, Atomic Energy Commission. Separation of plutonium values from uranium and fission product values. 2,952,511, 9-13-60, Cl. 23-14.5.
- Maddock-Clegg, Lawrence H., to Fisher & Ludlow Ltd. Washing machine for washing clothes and similar articles. 2,938,366, 5-31-60, Cl. 68-17.
- Maddox, George: *See*—  
Moyer, Clyde. 2,932,244.
- Maddox, James L.: *See*—  
Brown, Ralph B., Beter, and Maddox. 2,964,242.
- Maddox, James L., to Philco Corp. Parallel binary adder-subtractor circuits. 2,954,168, 9-27-60, Cl. 235-175.
- Maddox, James R.: *See*—  
Fassero, Anthony T., and Maddox. 2,928,119.
- Maddox, Robert B. Folding hat and coat rack. 2,948,410, 8-9-60, Cl. 211-149.
- Maddox, Thomas E. Fuel burning safety devices. 2,964,686, 12-13-60, Cl. 317-149.
- Maddux, Duane C. Collapsible tube closure and sealing means. 2,947,448, 8-2-60, Cl. 222-92.
- Maddux, Duane C. Dispensing mechanism and air circulation system therefor. 2,950,606, 8-30-60, Cl. 62-320.
- Madeley, Paul E.: *See*—  
Hefer, Friedrich W., Madeley, and Erath. 2,951,977.
- Madeley, Paul E., and F. W. Hefer, to Dresser Industries, Inc. Timing line numbering apparatus. 2,929,669, 3-22-60, Cl. 346-23.
- Maden, Frank J.: *See*—  
Dugan, Le Roy, Jr., and Kraybill. 2,926,092.
- Mader, Charles K.: *See*—  
Dwyer, John B., and Mader. 2,934,475.
- Mader, Charles K., to The M. W. Kellogg Co. Conversion of hydrocarbons to a hydrogen-rich gas. 2,943,062, 6-28-60, Cl. 252-373.
- Mader, Stewart S., and J. W. Johnson, to Norton Co. Multiple wheel grinding machine. 2,946,162, 7-26-60, Cl. 51-165.
- Mades, Eugene V., and A. L. Baker, to Keuffel & Esser Co. Optical square. 2,937,560, 5-24-60, Cl. 88-14.
- Mädge, Joachim: *See*—  
Brethauer, Hermann, Mädge, and Kröger. 2,926,562.
- Madigan, Gerald C., and W. W. Middleton, to Bendix Aviation Corp. Process for tumble finishing. 2,947,124, 8-2-60, Cl. 51-282.
- Madigan, William R., to Westinghouse Electric Corp. Tipping-off method. 2,956,872, 10-18-60, Cl. 49-78.
- Madison, Shannon L., to Borg-Warner Corp. Outlet grills for air conditioners. 2,928,333, 3-15-60, Cl. 98-40.
- Madison, Theodore C.: *See*—  
Samsel, Richard W., and Madison. 2,924,970.
- Madlem, John E. Canoe construction. 2,926,363, 3-1-60, Cl. 9-6.
- Mador, Irving L.: *See*—  
Lum, David W., and Mador. 2,959,615.
- Mador, Irving L., and L. J. Rekers, to National Distillers and Chemical Corp. Method of preparing acid salts of hydroxylamine. 2,950,954, 8-30-60, Cl. 23-190.
- Mador, Irving L., and T. S. Soddy, to National Distillers and Chemical Corp. Process for preparing di-alkali metal aromatic hydrocarbons and products therefrom. 2,960,544, 11-15-60, Cl. 260-665.
- Madorable, Inc.: *See*—  
Madore, Arthur H. 2,954,788.
- Madore, Arthur H. Hair curler pin. 2,924,227, 2-9-60, Cl. 132-37.
- Madore, Arthur H., to Madorable, Inc. Hair curler. 2,954,788, 10-4-60, Cl. 132-39.
- Madrich, Hermann, to Diskus-Werke, Frankfurt am Main, Akt.-Ges. Feed control device for flat grinding machines. 2,940,224, 6-14-60, Cl. 51-131.
- Madsen, Andrew. Dual color headlamp for vehicles. 2,945,985, 7-19-60, Cl. 315-82.
- Madsen, Berthel F., to Teletype Corp. Print suppressing mechanism for printing telegraph page printers. 2,963,547, 12-6-60, Cl. 178-23.
- Madsen, Duane O.: *See*—  
Holmes, Carlton A., and Madsen. 2,928,633.
- Madsen, Irven C. Device for dismounting and mounting tire rims. 2,949,332, 8-16-60, Cl. 301-11.
- Madsen, Paul S.: *See*—  
Gow, Arthur R., and Madsen. 2,931,653.
- Madsen, Raymond L., and A. C. Schell, to Bell Telephone Laboratories, Inc. Amplitude limiting circuit. 2,942,197, 6-21-60, Cl. 328-171.
- Madson, Chris W., to Avco Mfg. Corp., Lycoming Division. Single ball joint roller support for toroidal variable ratio transmissions. 2,959,972, 11-15-60, Cl. 74-200.
- Madson, Chris W., to Avco Mfg. Corp., Lycoming Division. Castering of rollers used in toroidal variable ratio transmissions. 2,959,973, 11-15-60, Cl. 74-200.
- Maecker, Kurt, to Firma Elektroantrieb Kurt Maecker. Automatic electric control arrangement for a crank-shaft milling machine. 2,942,526, 6-28-60, Cl. 90-15.1.
- Maeda, Kenji: *See*—  
Umezawa, Hamao, Maeda, and Ueda. 2,931,798.
- Maeder, Arthur: *See*—  
Albrecht, Otto, Berger, and Maeder. 2,965,517.
- Maeder, Arthur, to Ciba Ltd. Carboxylic acid ester containing a quaternary nitrogen atom in the alcohol portion, and polymerization products thereof. 2,965,594, 12-20-60, Cl. 260-29.6.
- Maeder, Paul F., to Speidel Corp. Means for providing intimate contact between a surface and tape in tape recorder devices and the like. 2,945,692, 7-19-60, Cl. 271-2.3.
- Maeder, Paul F., to Speidel Corp. Means for rendering tape recorders and the like operative under high acceleration and deceleration conditions. 2,945,697, 7-19-60, Cl. 274-11.
- Maeder, Paul F., to Speidel Corp. Gyroscope device. 2,949,784, 8-23-60, Cl. 74-5.7.
- Maenpaa, Wilho K.: *See*—  
Kendall, Hugh C., and Maenpaa. 2,959,670.
- Maerker, John B., to Houdry Process Corp. Pentane dehydrogenation. 2,946,831, 7-26-60, Cl. 260-680.
- Maex, Nikolaus, and A. F. Daffern. Carpet tack strip fabricating apparatus. 2,953,788, 9-27-60, Cl. 1-92.
- Maffel, Rudolph A. Lamp assembly. 2,945,948, 7-19-60, Cl. 240-81.
- Maffet, Vere, to E. I. du Pont de Nemours and Co. Photographic silver halide emulsions containing a ruthenium, palladium or platinum hydroxide stabilizing amounts and process for preparing the same. 2,953,455, 9-20-60, Cl. 96-110.



- Maffett, Robert R.: See—  
Mancuso, Joseph P., and Maffett. 2,948,097.
- Maffi, Giulio, R. Ettorre, and E. Testa, to Lepetit S.p.A. Thiadiazoles. 2,943,980, 7-5-60, Cl. 167-65.
- Magar, John. Soft pedal shiftless action for grand pianos. 2,930,273, 3-29-60, Cl. 84-255.
- Magarian, Gerald M., to Preco Inc. Turbine driven sweeper attachments for vacuum cleaners. 2,962,748, 12-6-60, Cl. 15-387.
- Magarian, Gerald M., to Preco Inc. Turbine mechanism, more particularly for air flow operation for vacuum cleaning. 2,963,270, 12-6-60, Cl. 253-40.
- Magariello, Edward R., to National Dairy Products Corp. Process for preparing casein with low viscosity and high adhesive strength. 2,927,916, 3-8-60, Cl. 260-119.
- Magat, Eugene E., to E. I. du Pont de Nemours and Co. Process for interfacial spinning in which one phase contains a thickening agent. 2,935,371, 5-3-60, Cl. 18-54.
- Magee Carpet Co., The: See—  
Penman, Hurl W. 2,926,702.  
Penman, Montgomery B., and Fry. 2,939,179.
- Magee-Hale Park-O-Meter Co.: See—  
Hamilton, Robert W. 2,963,136.
- Magee, John E. Predicted stop demand. 2,944,634, 7-12-60, Cl. 187-29.
- Magee, John G., 50% to Keith J. F. Dutton. Hair curling device. 2,960,989, 11-22-60, Cl. 132-39.
- Magee, Walter V.: See—  
Garman, Floyd A., and Magee. 2,953,239.
- Mageli, Orville L.: See—  
Harrison, James B., and Mageli. 2,960,526.
- Mageoch, Harry Y., to Electric Service Works, Delta-Star Electric Division, H. K. Porter Co. (Delaware). Electric conductor system. 2,933,567, 4-19-60, Cl. 191-40.
- Mageoch, Harry Y., to H. K. Porter Co., Inc. of Pittsburgh. Enclosed conductor system. 2,961,499, 11-22-60, Cl. 191-23.
- Magerlein, Barney J., J. L. Thompson, and G. B. Spero, to The Upjohn Co. Process for the hydrolysis of the 3-enamine of 6a-methyl-11b,21-dihydroxy-4,17(20)-pregnadien-3-one. 2,920,085, 1-5-60, Cl. 260-397.45.
- Magg, Alfred H., to Zahnradfabrik Friedrichshafen. Shifting rod and lever system for change speed gears. 2,931,243, 4-5-60, Cl. 74-473.
- Magic Whirl Dispensers, Inc.: See—  
Jacobs, William H. 2,932,493.
- Magid, Sidney H. Thermoplastic garments. 2,944,550, 7-12-60, Cl. 128-287.
- Magid, Sidney H. Method of heat sealing edge bindings around openings in hollow thermoplastic bodies. 2,957,792, 10-25-60, Cl. 154-85.
- Magida, Herbert N. Golf ball tee apparatus. 2,934,348, 4-26-60, Cl. 273-183.
- Magill, Donald G., to American Can Co. Apparatus for testing side seams of containers. 2,950,620, 8-30-60, Cl. 73-88.
- Magill, Donald G., to American Can Co. Method of concentrating coating material in containers. 2,956,528, 10-18-60, Cl. 113-120.
- Magill, Donald G., Jr., and C. B. Williams, to Riegel Paper Corp. Method for making heavy duty battery separator. 2,960,559, 11-15-60, Cl. 136-148.
- Magill, John J., and P. C. Hungerford, Jr., to Curtiss-Wright Corp. Steering mechanisms for boats, tractors and the like. 2,947,278, 8-2-60, Cl. 115-18.
- Magill, Lloyd G., to Sun Oil Co. Apparatus for converting hydrogen sulfide to sulfur. 2,945,748, 7-19-60, Cl. 23-288.
- Magimel-Pelonnier, Rene J. E., and L. M. B. Etcheverry, to Societe des Usines Chimiques Rhone-Poulenc. Organosilicic derivatives in agriculture and arboriculture. 2,923,095, 2-2-60, Cl. 47-58.
- Magna Enterprise, Inc.: See—  
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- Magna, Peter S. Flap-lifting mechanism. 2,929,183, 3-22-60, Cl. 53-374.
- Magna, Peter S. Apparatus for receiving and feeding loose articles. 2,953,172, 9-20-60, Cl. 141-233.
- Magnaflex Corp.: See—  
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Nerwin, Henry N. 2,942,178.  
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- Magnani, Arthur: See—  
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Julian, Percy L., Magnani, and Cochrane. 2,947,765.
- Magnani, Enrico. Propelling device for a boat and the like. 2,960,058, 11-15-60, Cl. 115-25.
- Magna Power Motors, Inc.: See—  
Evans, John M., and Luttrell. 2,950,401.
- Magnasyn Mfg. Co. Ltd.: See—  
Dupy, Olin L. 2,931,689.
- Magnavox Co., The: See—  
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Gray, Alfred E., Malin, and Thompson. 2,956,803.  
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Reese, Glenn A. 2,932,699.  
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- Magne, Frank C.: See—  
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- Magness, Albert H., to Standard Equipment, Inc. Balustrade. 2,944,797, 7-12-60, Cl. 256-21.
- Magnet Cove Barium Corp.: See—  
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- Magnetic Heating Corp.: See—  
Andrew, Arthur L. 2,922,020.  
Cameron, Hugh J. 2,949,677.  
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Rudd, Wallace C. 2,922,019.  
Rudd, Wallace C. 2,930,724.  
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- Magnetic Precision Controls Inc.: See—  
Mamon, Michel. 2,926,300.
- Magnetic Seal Corp.: See—  
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- Magnetic Tool Corp.: See—  
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- Magnetrol, Inc.: See—  
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- Magnovia Co., Inc.: See—  
Wollner, Carl F. 2,934,779.
- Magnus Chemical Co., Inc.: See—  
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- Magnus, Herbert A.: See—  
Stott, Albert M., and Magnus. 2,935,971.  
Stott, Albert M., and Magnus. 2,951,338.
- Magnus, Herbert A., and A. M. Stott, to United States of America, Army. Thruster with by-pass. 2,926,638, 3-1-60, Cl. 123-24.
- Magnuski, Henry, to Motorola, Inc. Radio receiver squelch control. 2,959,673, 11-8-60, Cl. 250-20.
- Magnuson, Genevieve I.: See—  
Magnuson, Roy M. 2,924,259.  
Magnuson, Roy M. 2,937,737.  
Magnuson, Roy M. 2,940,528.  
Magnuson, Roy M., and Smith. 2,936,012.  
Smith, Traver J., and Daugherty. 2,950,424.
- Magnuson, Magnus A., to United States of America, Navy. Synthetic radar target generator. 2,961,655, 11-22-60, Cl. 343-17.7.
- Magnuson, Robert: See—  
Magnuson, Roy M. 2,937,737.  
Magnuson, Roy M. 2,940,528.  
Magnuson, Roy M., and Smith. 2,936,012.  
Smith, Traver J., and Daugherty. 2,950,424.
- Magnuson, Roland A., to Pacific Car and Foundry Co. Balanced lift vertical axis propellers. 2,950,765, 8-30-60, Cl. 170-151.
- Magnuson, Roy M., deceased, by G. I. Magnuson, executrix. Fruit pitting method. 2,924,259, 2-9-60, Cl. 146-238.
- Magnuson, Roy M., deceased (by G. I. Magnuson, executrix), and T. J. Smith,  $\frac{1}{2}$  to California Packing Corp.,  $\frac{1}{4}$  to G. I. Magnuson, and  $\frac{1}{4}$  to G. I. and R. Magnuson, and L. J. Fox, trustees. Apparatus for loosening the skins of fruits and vegetables. 2,936,012, 5-10-60, Cl. 146-47.
- Magnuson, Roy M., deceased, by G. I. Magnuson, executrix;  $\frac{1}{2}$  to herself and  $\frac{1}{2}$  to G. I. and R. Magnuson, and L. J. Fox, trustees. Method and apparatus for determining the orientation of pits in drupaceous fruit. 2,937,737, 5-24-60, Cl. 198-33.
- Magnuson, Roy M.,  $\frac{1}{2}$  to Santa Clara Frosted Foods Co.,  $\frac{1}{4}$  to G. I. Magnuson, and  $\frac{1}{4}$  to G. I. and R. Magnuson, and L. J. Fox, as trustees. Method of packing and/or harvesting fruit or vegetable articles from bush type plants. 2,940,528, 6-14-60, Cl. 171-1.
- Magnusson, Arthur F., B. H. Marks, and L. J. Sperry, to Globe-Union Inc. Combination resistor and capacitor with built-in lightning arrester. 2,966,608, 12-27-60, Cl. 313-231.
- Magnusson, Knut J., to Radio Corp. of America. Office copying machine. 2,959,095, 11-8-60, Cl. 88-24.
- Magnusson, Verner: See—  
Barker, Aaron T., and Young. 2,935,992.
- Mago, Blake F.: See—  
Langer, Theodore W., and Mago. 2,944,973.



- Magoon, Fred L., to H. D. Boggs Co., Ltd. Thread casting method. 2,928,764, 3-15-60, Cl. 154-83.
- Magor Car Corp.: *See*—  
Lunde, Einar O. 2,927,541.
- Maguirik, Clarence E., and W. M. Stone. Ditch clearing attachment for bulldozer blades. 2,948,973, 8-16-60, Cl. 37-144.
- Magovern, Robert L., to Shell Development Co. Dehydrogenation process. 2,921,101, 1-12-60, Cl. 260-680.
- Magowan, David, Jr. Fluid check valve. 2,929,399, 3-22-60, Cl. 137-513.7.
- Magrath, George H. Top drive spinning spindle. 2,938,676, 5-31-60, Cl. 242-46.3.
- Magrath, Richard A., to Baird-Atomic, Inc. Bolometer for radiation detection. 2,951,224, 8-30-60, Cl. 338-18.
- Magrini, Peter J., Sr.: *See*—  
Insolio, Thomas A., Carini, and Magrini. 2,946,460.
- Maguire, Frederick A., to Gibraltar Corrugated Paper Co., Inc. Combined shipping and display cases. 2,926,777, 3-1-60, Cl. 206-44.
- Maguire, Frederick A., to Mead Containers, Inc. Display carton with automatic spring flaps. 2,926,778, 3-1-60, Cl. 206-45.
- Maguire, J. J., Co.: *See*—  
Friedman, Herbert. 2,933,601.  
Friedman, Herbert. 2,933,607.
- Maguire, Paul R.: *See*—  
Koski, William A., and Maguire. 2,943,859.
- Maguire, Richard G.: *See*—  
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- Maguire, Richard G., and G. W. Hedrick, to Ditto, Inc. Color reaction type duplication process. 2,936,707, 5-17-60, Cl. 101-149.5.
- Maguire, Robert J., to Automatic Electric Laboratories Inc. Telephone system having prepay-postpay paystation service. 2,958,732, 11-1-60, Cl. 179-6.3.
- Magyar, Louis L., to Acorn Advertisers. Ventilating louver assembly. 2,962,956, 12-6-60, Cl. 98-121.
- Mah, Henry G., to McGraw-Edison Co. System of regulation. 2,961,594, 11-22-60, Cl. 321-19.
- Mahaffy, Reid A., J. G. Rote, Jr., W. E. Young, and G. S. Di Monaco, to Standard Packing Corp. Continuous vacuum packaging machine. 2,935,828, 5-10-60, Cl. 53-112.
- Mahan, H. Merle, to United States of America, Air Force. Differential pressure transducer. 2,940,314, 6-14-60, Cl. 73-378.
- Mahan, John E., to Phillips Petroleum Co. Method for propelling rockets and rocket fuels. 2,919,541, 1-5-60, Cl. 60-35.4.
- Mahan, John E., to Phillips Petroleum Co. High molecular weight sulfoxide insect repellents and method of repelling insects. 2,926,118, 2-23-60, Cl. 167-22.
- Mahan, John E., to Phillips Petroleum Co. 1,2-diamino-1-alkene compounds. 2,941,005, 6-14-60, Cl. 260-583.
- Mahan, John E., and W. M. Hutchinson, to Phillips Petroleum Co. Solid propellant compositions and a process for their preparation. 2,941,878, 6-21-60, Cl. 52-5.
- Mahan, John F. Syphon device. 2,959,184, 11-8-60, Cl. 137-141.
- Mahand, Jack. Rotary seal. 2,948,554, 8-9-60, Cl. 286-9.
- Mahaney, William H., to The Baldwin Piano Co. Optical encoder. 2,941,088, 6-14-60, Cl. 250-233.
- Maher, Austin J., Jr., to Sperry Rand Corp. Ford Instrument Co. Division. Method and apparatus for accurate analog integration of time functions. 2,938,951, 5-17-60, Cl. 235-61.
- Maher, James B., to Chicago Bridge and Iron Co. Door interlock system. 2,926,012, 2-23-60, Cl. 268-16.
- Maher, James B., to Chicago Bridge and Iron Co. Pressure door. 2,927,787, 3-8-60, Cl. 268-16.
- Maher, Joseph L.: *See*—  
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- Maher, Richard T., and K. A. Torossian, to General Electric Co. Insulation system. 2,962,613, 11-29-60, Cl. 310-208.
- Mahieu, John J.: *See*—  
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- Mahler, Arthur, to Daimler-Benz Aktiengesellschaft. Suspension of half axles from the frame of motor vehicles. 2,932,356, 4-12-60, Cl. 180-73.
- Mahler, Benjamin B., and S. D. Hammond, to International Telephone and Telegraph Corp. Position selector system. 2,951,194, 8-30-60, Cl. 318-467.
- Mahler, Joseph, to American Optical Co. Hard surface treatment for plastics. 2,925,622, 2-23-60, Cl. 18-57.
- Mahler, Joseph, to American Optical Co. Light diffusing means and method of making same. 2,928,131, 3-15-60, Cl. 18-48.
- Mahler, Joseph, to Radio Corp. of America. Modulator of the on/off type. 2,962,669, 11-29-60, Cl. 332-9.
- Mahler, Peter A., to Fidelity Machine Co., Inc. Pattern drum indexing mechanism. 2,927,447, 3-8-60, Cl. 66-154.
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- Mahlmeister, James E., W. S. Peck, W. V. Haberer, and A. C. Williams, to United States of America, Atomic Energy Commission. Nuclear reactor core design. 2,929,768, 3-22-60, Cl. 204-193.2.
- Mahlmeister, Raymond A.: *See*—  
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- Mahlmeister, Raymond A., to The Sheffield Corp. Machine tool. 2,919,519, 1-5-60, Cl. 51-165.
- Mahlmeister, Raymond A., and J. H. Straw, to The Sheffield Corp. Gaging device. 2,924,018, 2-9-60, Cl. 33-147.
- Mahlouff, Salomon K., 25% to F. C. Tenzer, 9% to L. Martellino, 3½% to J. K. Malouf, 2% to L. Lafreniere, and 2% to A. Nantel. Extension roller screen. 2,929,444, 3-22-60, Cl. 160-28.
- Mahn, George R.: *See*—  
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- Mahon, Thomas J., and A. L. Edelstein, to Assn. For Physiologic Research Inc. Dispensing device. 2,951,644, 9-6-60, Cl. 239-308.
- Mahon, Thomas J., A. L. Edelstein, and J. Glickstein, to Association for Physiologic Research, Inc. Method of dispersing materials. 2,954,678, 10-4-60, Cl. 62-50.
- Mahoney, James J.: *See*—  
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- Mahoney, Marvin D., to Perfect Circle Corp. Rail-lapping machine. 2,958,985, 11-8-60, Cl. 51-59.
- Mahoney, Susan M. Bottle supporter. 2,924,413, 2-9-60, Cl. 248-102.
- Mahoney, Thomas P.: *See*—  
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- Mahoney, William A., to Alco Products, Inc. Pipe coupling for heat exchangers. 2,937,890, 5-24-60, Cl. 285-138.
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- Maier, Anton P. Dispenser for rolled paper. 2,944,749, 7-12-60, Cl. 242-55.2.
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- Maier, Karl W., to Olin Mathieson Chemical Corp. Buffer device. 2,948,526, 8-9-60, Cl. 267-1.
- Maier, Karl W. Buffer device. 2,948,529, 8-9-60, Cl. 267-9.
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- Maier, Leonard C., Jr., J. E. Keister, B. R. Lester, and B. G. Walker, to General Electric Co. Video tape recording system. 2,958,735, 11-1-60, Cl. 179-100.2.
- Maier, Lorenz. Accounting or other business machines with apparatus for punching cards or tapes. 2,939,530, 6-7-60, Cl. 164-111.
- Maier, Robert W.: *See*—  
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- Maier, Robert W. Fixture support for hung ceilings. 2,930,564, 3-29-60, Cl. 248-228.
- Maier, William and R. W. Mounting means for electrical outlet boxes. 2,963,253, 12-6-60, Cl. 248-298.
- Maiershofer, Karl M., to G-M Laboratories, Inc. Slide viewer. 2,943,409, 7-5-60, Cl. 40-63.
- Maiershofer, Karl M., to G-M Laboratories Inc. Camera latch. 2,946,269, 7-26-60, Cl. 95-11.
- Maiershofer, Karl N., to Optische Werke C. A. Steinhell Soehne G.m.b.H. Objective for mirror reflex cameras. 2,926,583, 3-1-60, Cl. 95-64.
- Maierson, Theodore, and R. A. Todd, to General Motors Corp. Friction material for use in brakes. 2,954,853, 10-4-60, Cl. 188-234.
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- Maillard, Bernard, to Brevets Aero-Mecaniques S.A. Recoil and shock absorbing means for a reciprocating gun. 2,920,536, 1-12-60, Cl. 89-44.
- Maillard, Bernard, to Brevets Aero-Mecaniques S.A. Indirect cartridge feed mechanisms of the rotor type for sliding breech automatic guns. 2,924,150, 2-9-60, Cl. 89-33.
- Maillard, Gabriel: *See*—  
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Jouille, Maurice, Laure, Maillard, and Muller. 2,966,520.
- Maillet, Alfred M. A., to La Soudure Electrique Languepin. Electric circuits for working and shaping materials by spark erosion. 2,922,078, 1-19-60, Cl. 315-163.
- Maillet, Alfred M. A., to La Soudure Electrique Languepin. Spark erosion apparatus. 2,966,574, 12-27-60, Cl. 219-69.
- Main, James E.: *See*—  
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- Main, Max C. Levelling attachment for cultivators. 2,951,546, 9-6-60, Cl. 172-194.
- Main, William W. Directional radio antenna attachment for surveyors transits. 2,933,730, 4-19-60, Cl. 343-720.
- Mainardi, Teresa. Procedure for the manufacture of tubular containers. 2,945,266, 7-19-60, Cl. 18-59.
- Mainardi, Teresa. Machine for the manufacture of tubular containers. 2,953,815, 9-27-60, Cl. 18-30.
- Mainberger, Walter A., to National Co., Inc. Frequency control apparatus. 2,960,663, 11-15-60, Cl. 331-3.
- Maines, Charles E. Garden tool. 2,935,817, 5-10-60, Cl. 47-1.
- Mainprize, Jack E. Packing. 2,964,342, 12-13-60, Cl. 288-2.
- Maintain, Russell E.: See—
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- Galassi, Francis J. 2,956,766.
- Malorany, Robert T., and V. R. Kimball, to Bendix Aviation Corp. Remote control caging and uncaging system for gyros. 2,940,319, 6-14-60, Cl. 74-5.1.
- Mairs, Thomas G., F. W. Locke, and M. B. Jameson, to Waldorf Paper Products Co. Paperboard display stand. 2,919,815, 1-5-60, Cl. 211-135.
- Maisch, Charles L.: See—
- Brookman, Roger S., and Maisch. 2,963,109.
- Maisch, Oliver. Internal tube seal. 2,937,666, 5-24-60, Cl. 138-89.
- Maisel, Daniel S., and D. A. Guthrie, to Esso Research and Engineering Co. Styrene polymerization process. 2,947,675, 8-2-60, Cl. 204-154.
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- Hill, Ralph W. 2,958,218.
- Majors, Jack E. Stake puller. 2,926,890, 3-1-60, Cl. 254-132.
- Makara, Frank. Roller skates. 2,944,827, 7-12-60, Cl. 280-1128.
- Makary, William E., to American Telephone and Telegraph Co. Teletypewriter automatic alarm reporting system. 2,921,116, 1-12-60, Cl. 178-2.
- Makeham, Clarence J.: See—
- Miller, Marcell J., and Makeham. 2,953,404.
- Makela, Armas G., to General Motors Corp. Vehicle windshield wiper transmission assembly. 2,965,411, 12-20-60, Cl. 296-1.
- Maker, Frank L., to California Research Corp. LPG tankship refrigeration system. 2,959,928, 11-15-60, Cl. 62-54.
- Maker, Paul, to Bryant Chucking Grinder Co. Process control apparatus. 2,937,478, 5-24-60, Cl. 51-165.
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- Makin, Earle C., Jr., to Monsanto Chemical Co. Olefin separation with a tetraalkyl urea. 2,957,547, 10-25-60, Cl. 183-115.
- Makin, Earle C., Jr., to Monsanto Chemical Co. Aliphatic hydrocarbon separation with cyanoethylated polysaccharides. 2,966,532, 12-27-60, Cl. 260-677.
- Mako, Frank, and R. D. Walter, to United States Steel Corp. Coil tilting mechanism. 2,932,420, 4-12-60, Cl. 214-658.
- Makowski, Stephen A., and R. C. Quarmbly, to United Shoe Machinery Corp. Nail distributors. 2,929,066, 3-22-60, Cl. 1-6.
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- Dimick, Keene P., and Makower. 2,949,368.
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- Maniere, Maurice A. F. J., and Malassenet. 2,954,436.
- Malavazos, Arthur J.: See—
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- Malavazos, Arthur J., to Friden, Inc. Calculating machine differential drive and tens carry mechanism. 2,950,051, 8-23-60, Cl. 235-63.
- Malavazos, Arthur J., and J. Urdal, to Friden, Inc. Pre-determined carriage shifting and dividend entering means for a calculating machine. 2,926,846, 3-1-60, Cl. 235-63.
- Malchert, Arthur F. Fishhook assembly. 2,948,079, 8-9-60, Cl. 43-42.4.
- Malcolm, Charles F., Jr.: See—
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- Malcolm, Donald H., and D. W. Martin, to Sperry Rand Corp. Format control. 2,944,651, 7-12-60, Cl. 197-133.
- Malcolm, Robert H., to International Harvester Co. Unitary exhaust manifold gasket and heat shield. 2,954,763, 10-4-60, Cl. 123-198.
- Malcolm, Robert J. Printed circuit panel. 2,938,939, 5-31-60, Cl. 174-68.5.
- Malczewski, Sigmund: See—
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- Malec, Jerry P. Follower plate for grease dispensers. 2,936,933, 5-17-60, Cl. 222-386.
- Malec, Jerry P., to Comet Industries, Inc. Adjustable automatic oiler for air conduits. 2,945,560, 7-19-60, Cl. 184-55.
- Malec, Jerry P., to Comet Industries, Inc. Boat light. 2,966,579, 12-27-60, Cl. 240-7.5.
- Malek, Jack H.: See—
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- Maley, Joseph P., and S. M. Scott, to C. Meyer. Spray gun. 2,930,533, 3-29-60, Cl. 239-134.
- Malia, John P. Compartmentalized refrigerator. 2,945,733, 7-19-60, Cl. 312-200.
- Malick, Dell M.: See—
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- Malick, Emil A., to Phillips Petroleum Co. Ignition means for rocket. 2,932,162, 4-12-60, Cl. 60-35.6.
- Malick, Emil A., to Phillips Petroleum Co. Flame holder device. 2,955,419, 10-11-60, Cl. 60-39.03.
- Malick, Emil A., to Phillips Petroleum Co. Radiological examination of hollow articles. 2,965,758, 12-20-60, Cl. 250-83.3.
- Malick, Franklin S., to United States of America, Navy. Magnetic amplifiers. 2,946,000, 7-19-60, Cl. 323-89.
- Mallick, Thaddeus J., to R. R. Donnelley & Sons Co. Method of making underbeveled printing plate. 2,934,010, 4-26-60, Cl. 101-401.1.
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- Azari, Eric, Gray, Malin, and Thompson. 2,947,538.
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- Malin, Louis. Umbrella ferrule. 2,920,634, 1-12-60, Cl. 135-36.
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- Malina, Robert B., to Pioneer Well Tools, Inc. Current rotating check valve. 2,949,127, 8-16-60, Cl. 137-332.
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- Malkoff, Hyman, to Kramer Trenton Co. Header construction for heating elements. 2,924,438, 2-9-60, Cl. 257-154.
- Malkoff, Hyman, and O. J. Nussbaum, to Kramer Trenton Co. Means for controlling high side pressure in refrigerating systems. 2,963,877, 12-13-60, Cl. 62-196.
- Malkoff, Hyman, G. Frie, and D. E. Kramer, to Kramer Trenton Co. Radial air flow refrigeration evaporator with means for heating the drip pan. 2,963,882, 12-13-60, Cl. 62-276.
- Mall, Arthur W., to Remington Arms Co., Inc. Method of fabricating chain saw guide bars. 2,938,312, 5-31-60, Cl. 51-281.
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- Mallery, Paul, to Bell Telephone Laboratories, Inc. Magnetic control circuits. 2,955,212, 10-4-60, Cl. 307-88.
- Mallet-Prevost, George, Jr. Pedestal for articles of furniture and the like. 2,954,953, 10-4-60, Cl. 248-158.
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- Mallinckrodt Chemical Works: *See*—  
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- Mallinckrodt, George E., to Elliot Enterprises, Inc. Internally powered compressor. 2,943,785, 7-5-60, Cl. 230-139.
- Mallinckrodt, George E. Electric jet-forming apparatus. 2,960,614, 11-15-60, Cl. 313-63.
- Malling, Leonard R., D. L. Mansir, F. A. Nelson, and M. E. Packard, to Varian Associates. Gyromagnetic resonance apparatus. 2,944,212, 7-5-60, Cl. 324-5.
- Mallison, William C., to American Cyanamid Co. Manufacture of melamine. 2,927,923, 3-8-60, Cl. 260-249.7.
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- Mallon, Richard G., to Astra, Inc. Process of making rubber articles. 2,933,441, 4-19-60, Cl. 204-154.
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- Mallouk, Robert S., and B. W. Sandt, to E. I. du Pont de Nemours and Co. Viscosity stabilized melt extrudable perfluorocarbon polymers. 2,955,099, 10-4-60, Cl. 260-45.7.
- Malloy, John B., to Standard Oil Co. Fixed bed reforming process. 2,940,921, 6-14-60, Cl. 208-65.
- Malloy, John E., and J. M. Ashe. Vacuum yarn feeding device. 2,944,414, 7-12-60, Cl. 66-125.
- Malloy, Justin W., and S. Hersh, to United States of America, Navy. Antisubmarine warfare projector mount. 2,925,012, 2-16-60, Cl. 89-1.7.
- Malloy, William M., Sr. Bird feeder. 2,944,516, 7-12-60, Cl. 119-52.
- Malm, Robert N., and V. Vodicka, to General Electric Co. Method of manufacturing electric lamps or similar devices. 2,945,327, 7-19-60, Cl. 49-78.
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- Malmberg, Paul R., and E. R. Frederick. Apparatus for dielectric fabrication. 2,941,575, 6-21-60, Cl. 154-42.
- Malmberg, Eric W. Snag-proof slide fastener guard. 2,933,792, 4-26-60, Cl. 24-205.15.
- Malmqvist, Johan D., and I. G. R. Thomaues, to Bolidens Gruvaktiebolag. Apparatus for ore separation. 2,927,690, 3-8-60, Cl. 209-81.
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- Malneritch, Joseph J., and D. Keeney, to Pacific Automation Products, Inc. Underwater electrical control cable. 2,953,627, 9-20-60, Cl. 174-102.
- Malnove, Paul. Merchandising display device. 2,950,013, 8-23-60, Cl. 211-86.
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- Malobicky, Rudolph L.: *See*—  
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- Malone, Annie B. Musical shoe heel. 2,940,184, 6-14-60, Cl. 36-1.
- Malone, Billy C., and G. C. Conover. Fluid positioning mechanism. 2,951,539, 9-8-60, Cl. 166-237.
- Malone, Clarence M.: *See*—  
Forrest, Hugh S., Myers, and Van Baalen. 2,940,966.
- Maloney, Bartley M., to Northrop Corp. Thermo stretch forming of metal. 2,952,767, 9-13-60, Cl. 219-149.
- Maloney, Bernard: *See*—  
Mann, William, and Maloney. 2,925,152.
- Maloney-Crawford Tank and Mfg. Co.: *See*—  
Dorsey, Lawrence J., and Knight. 2,925,720.
- Maloney, F. H., Co.: *See*—  
Van Scoy, Davis A. 2,932,193.
- Maloney, Bernard: *See*—  
Mann, William, and Maloney. 2,930,450.
- Maloney, Joseph F.: *See*—  
Barr, Irwin R., Maloney, and Zouck. 2,956,477.
- Maloney, Mabel O.: *See*—  
Maloney, William T. 2,955,051.
- Maloney, William T., deceased; M. O. Maloney, executrix. Treatment of clays and clay products produced thereby. 2,955,051, 10-4-60, Cl. 106-292.
- Malooof, Mitchell J., and C. L. Walker; said Walker assor. to said Malooof. Preselector mechanism for liquid dispensing apparatus. 2,940,638, 6-14-60, Cl. 222-17.
- Malouf, Emil E.: *See*—  
Zimmerley, Stuart R., and Malouf. 2,965,447.
- Malouf, Jean K.: *See*—  
Mahlouff, Salomon. 2,929,444.
- Malowan, John E. Method for purifying polymerized phosphorylamide. 2,963,341, 12-6-60, Cl. 23-14.
- Malowan, John E., and M. L. Nielsen, to Monsanto Chemical Co. Fire-retardant process. 2,949,385, 8-16-60, Cl. 117-138.
- Maloy, Arthur L., and F. L. Boggs, to Union Carbide Corp. Automatic liquid feeding system in a flame spectrophotometer. 2,948,183, 8-9-60, Cl. 88-14.
- Malpass, Harry C., to General Motors Corp. Dual piston cylinder. 2,956,549, 10-18-60, Cl. 121-38.
- Malsbary, James S., to Wagner Electric Corp. Voltage control device. 2,960,646, 11-15-60, Cl. 323-75.
- Malsbary Mfg. Co.: *See*—  
Taylor, Walter W. 2,928,426.  
Taylor, Walter W., and Malsbary. 2,928,613.
- Malsbary, Walter F.: *See*—  
Taylor, Walter W., and Malsbary. 2,928,613.
- Maltby, Frederick L., E. Cozzette, and J. W. Philippi, to Robertshaw Fulton Controls Co. Capacity sensitive relays. 2,933,657, 4-19-60, Cl. 317-142.
- Maltby, Frederick L., J. W. Philippi, and E. N. Cozzette, to Robertshaw-Fulton Controls Co. Null-balance bridge servosystem. 2,962,641, 11-29-60, Cl. 318-29.
- Maltby, Lewis J., to Menasco Mfg. Co. Landing gear for helicopters. 2,933,270, 4-19-60, Cl. 244-103.
- Maltby, Lewis J., to Menasco Mfg. Co. Landing gear for helicopters. 2,933,271, 4-19-60, Cl. 244-103.
- Maltenfort, Martin S., to Chemedical Research Associates. Process of foaming an admixture of a plastisol and an aqueous surfactant solution. 2,966,470, 12-27-60, Cl. 260-2.5.
- Malthaner, William A.: *See*—  
Bailey, George G., Malthaner, and Muller. 2,937,367.  
James, Dennis B., Johannesen, Karnaugh, and Malthaner. 2,957,949.
- Malthaner, William A., to Bell Telephone Laboratories, Inc. Electrical scanning circuits. 2,924,665, 2-9-60, Cl. 179-18.
- Malthaner, William A., to Bell Telephone Laboratories, Inc. Signal delay system. 2,960,571, 11-15-60, Cl. 178-69.
- Malthaner, William A., and H. E. Vaughan, to Bell Telephone Laboratories, Inc. Telephone system for repertory dialing. 2,951,908, 9-6-60, Cl. 179-18.
- Maly, George P., and E. A. Pullen, to Union Oil Co. of California. Well plugging, packing and/or testing tool. 2,942,668, 6-28-60, Cl. 166-187.
- Maly, George P., and R. F. Krueger, to Union Oil Co. of California. Well packer. 2,945,541, 7-19-60, Cl. 166-187.
- Maly, Joe W., to Halliburton Oil Well Cementing Co. Well packer. 2,922,478, 1-26-60, Cl. 166-154.
- Malz, Hugo, and D. Rosahl, to Farbenfabriken Bayer Aktiengesellschaft. Polymerization of chloroprene. 2,962,475, 11-29-60, Cl. 260-45.8.
- Malzahn, Lester W.: *See*—  
Detrick, Juddson N., Hoffman, and Malzahn. 2,929,569.
- Mammen, Howard E.: *See*—  
Bloch, Herman S., and Mammen. 2,922,831.
- Mamo, Anthony C., to Borg-Warner Corp. Hydrodynamic torque transmitting device. 2,954,672, 10-4-60, Cl. 60-54.
- Mamoliti, Jasper J. Canopy top locking arrangement for perambulators. 2,935,356, 5-3-60, Cl. 296-110.
- Mamon, Michel, 40% to G. A. Rubissow and 60% to Magnetic Precision Controls Inc. Push-pull magnetic amplifier and circuits therefor. 2,926,300, 2-23-60, Cl. 179-171.
- Man, Alexander M. Pitch diameter gauge end caps. 2,937,452, 5-24-60, Cl. 33-199.
- Man, Alexander M. Helical thread gauging rolls. 2,941,304, 6-21-60, Cl. 33-199.
- Manahan, John W., 1/2 to O. Oelkers. Two wheel warehouse truck having pivoted load support. 2,922,658, 1-26-60, Cl. 280-47.29.
- Manas, Vincent T., to Josam Mfg. Co. Fixture carrier and soil line connection. 2,932,037, 4-12-60, Cl. 4-252.
- Manas, Vincent T., to Josam Mfg. Co. Carrier construction. 2,937,381, 5-24-60, Cl. 4-170.
- Manas, Vincent T., to Josam Mfg. Co. Carrier and adapter. 2,942,277, 6-28-60, Cl. 4-252.
- Manberg, Charles T. M., to Aktiebolaget Husvarna Borstfabrik. Brush device. 2,958,890, 11-8-60, Cl. 15-199.
- Mancera, Octavio: *See*—  
Ringold, Howard J., Bowers, Mancera, and Rosenkranz. 2,951,840.  
Ringold, Howard J., Mancera, Rosenkranz, and Bowers. 2,934,546.
- Sondheimer, Franz, Mancera, and Rosenkranz. 2,937,191.
- Manchester Machine & Tool Co.: *See*—  
Novkov, Raymond E. 2,961,743.  
Novkov, Raymond E. 2,964,833.
- Mancini, Joseph A. Demountable flush type acoustical ceiling construction. 2,963,751, 12-13-60, Cl. 20-4.
- Mancini, Serafino J. Game. 2,933,316, 4-19-60, Cl. 273-93.



- Mancke, Edgar B., and C. W. Shingledecker, to Bethlehem Steel Co. Control of pickling baths. 2,927,871, 3-8-60, Cl. 134-10.
- Mancusi, Joseph J., Jr., to Altair Inc. Sealing elements. 2,946,552, 7-26-60, Cl. 251-175.
- Mancuso, Emanuel. Padlock. 2,934,929, 5-3-60, Cl. 70-32.
- Mancuso, John J., and J. L. Common, to General Foods Corp. Chiffon. 2,963,493, 12-20-60, Cl. 99-139.
- Mancuso, Joseph P., and R. R. Maffett, to R. E. Bauer. Box forming machine. 2,948,097, 8-9-60, Cl. 53-296.
- Mande, Irving, and D. H. Cordes, to Edwards Co. Inc. Panel wiring insert. 2,962,691, 11-29-60, Cl. 339-214.
- Mandel, Gerald, to Faximile Inc. Multicolored facsimile recorder. 2,928,710, 3-15-60, Cl. 346-74.
- Mandel, Henri. Window raising mechanism with controlling planetary gear train. 2,926,398, 3-1-60, Cl. 20-53.
- Mandel, Henri. Push button operated jalousie windows. 2,926,400, 3-1-60, Cl. 20-62.
- Mandel, Hyman J., to United States of America, Army. Hermetically sealed nickel-cadmium storage battery. 2,941,022, 6-14-60, Cl. 136-6.
- Mandel, Manley: See—  
Eichenbaum, William, and Mandel. 2,938,456.
- Mandel, Mark: See—  
De Faymoreau, Etienne C. L., and Mandel. 2,924,822.
- Mandel, Mark, to International Telephone and Telegraph Corp. Aerial navigation system. 2,938,205, 5-24-60, Cl. 343-106.
- Mandel, Mark, to International Telephone and Telegraph Corp. Automatic gain control circuit. 2,958,772, 11-1-60, Cl. 250-20.
- Mandelcorn, Lyon, R. W. Auxier, and C. W. Lewis, to Westinghouse Electric Corp. Clathrates. 2,949,424, 8-16-60, Cl. 252-1.
- Mandell, George C., to Webcor, Inc. Tape recorder. 2,958,475, 11-1-60, Cl. 242-55.12.
- Mandell, Harry C., Jr.: See—  
Barth-Wehrenalp, Gerhard, and Mandell. 2,942,949.
- Manderla, Hans-Joachim: See—  
Lehmann, Erich, Kleiner, and Manderla. 2,926,060.
- Mandl, Matthew: See—  
Noll, Edward M., and Mandl. 2,934,764.
- Mandl, Eleonore, and A. L. Clements, said Clements assor. to said Mandl. Body exercising and relaxing device. 2,936,754, 5-17-60, Cl. 128-33.
- Mandolf, Henry I., to Longley Corp. Latch. 2,944,848, 7-12-60, Cl. 292-181.
- Mandrel Industries, Inc.: See—  
Cloud, Raymond T. 2,934,991.
- Cox, David C. 2,966,264.
- Manduca, Frank. Easy picture change frame. 2,952,931, 9-20-60, Cl. 40-86.
- Mandukich, Svetozar, to Neely Mfg. Co. Production of yarn containing hair fibers. 2,950,591, 8-30-60, Cl. 57-157.
- Mandulay, James J.: See—  
De Mott, John A. 2,943,185.
- Mandy, Robert R.: See—  
Holmes, John R., Mandy, and Taylor. 2,942,433.
- Maneri, Remo R., to Dow Corning Corp. Containers. 2,934,235, 4-26-60, Cl. 220-64.
- Maness, William T. Chain-gear driven power wrench. 2,938,416, 5-31-60, Cl. 81-57.
- Maneval, Richard L., to Jersey Production Research Co. Recording apparatus. 2,951,738, 9-6-60, Cl. 346-139.
- Maney, Charles T.: See—  
Sholtes, George T., and Maney. 2,946,286.
- Maney, Robert M. Linings for truck bodies. 2,923,423, 2-2-60, Cl. 214-82.
- Manfredi, Anthony J., to United States of America, Army. Inductance varied by controlled gaseous discharge. 2,951,183, 8-30-60, Cl. 315-158.
- Manfredi, Robert E.: See—  
De Santis, Vincent J., Manfredi, and Nolte. 2,934,392.
- Manfredi, Robert E., to General Electric Co. High frequency electric discharge device. 2,957,997, 10-25-60, Cl. 313-286.
- Manfredonia, Frank: See—  
Kerker, William C. 2,958,990.
- Manfredonia, Mario: See—  
Kerker, William C. 2,958,990.
- Mangan, Paul C., and F. W. Henning, to Westinghouse Electric Corp. Afterburner fuel control apparatus. 2,929,202, 3-22-60, Cl. 60-35.6.
- Manganaro, George F., and R. H. Burke. Time-delay relay. 2,939,933, 6-7-60, Cl. 200-122.
- Manganese Chemicals Corp.: See—  
Welsh, Jay Y. 2,956,860.
- Manganiello, Thomas J. Adjustable self-holding shank button holder attachment. 2,962,990, 12-6-60, Cl. 112-114.
- Manganne, Rene: See—  
Matti, Jean I., Blaise, and Manganne. 2,925,582.
- Mangels, Ralph W. Dressing and disrobing tool for paralytics. 2,939,618, 6-7-60, Cl. 223-113.
- Mangham, Jesse R.: See—  
Ashby, Eugene C., Foster, Mangham, and Pearson. 2,961,443.
- Mangini, Andrew J., to Pennsylvania Furnace and Iron Co. Compartment valve construction. 2,924,231, 2-9-60, Cl. 137-77.
- Mangum, James D. Mechanical chicken feeder. 2,931,337, 4-5-60, Cl. 119-52.
- Mangyo, Mitsuo: See—  
Nagasawa, Fujio, Takagi, Yokoi, Sato, Mangyo, Ensaka, Okamoto, and Tsukada. 2,939,817.
- Manhattan Shirt Co., The: See—  
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- Maniere, Maurice A. F. J., and A. G. Malassenet, to Lignes Telegraphiques et Telephoniques. Receivers for frequency shift-keyed telegraph and similar signals. 2,954,436, 9-27-60, Cl. 178-58.
- Manintveld, Jan A., and H. G. Kock, to North American Philips Co. Inc. Crystal diode. 2,953,729, 9-20-60, Cl. 317-234.
- Manistee Engineering Co.: See—  
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- Manitowoc Engineering Corp.: See—  
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- Manke, Arthur G., and H. A. Bazydlo, to General Electric Co. Intermodulation suppression system. 2,944,222, 7-5-60, Cl. 330-128.
- Manke, Gustave L.: See—  
Bliss, Harvey N., and Manke. 2,928,288.
- Mankouski, Charles. Holder for welding rods. 2,954,458, 9-27-60, Cl. 219-138.
- Manley, Cornelius B., Sr.: See—  
Farrow, John S., and Manley. 2,940,775.
- Manley, Fred A., to General Dynamics Corp. Loudspeakers. 2,922,851, 1-26-60, Cl. 179-115.5.
- Manley, Inc.: See—  
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- Manley, Oscar P.: See—  
Beach, Eugene H., and Manley. 2,953,737.
- Petriz, Richard L., Manley, and Varela. 2,927,267.
- Manly, William D.: See—  
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- Mann, Abe: See—  
Bibbero, Robert J., and Mann. 2,922,873.
- Mann, Arthur E. Medical device. 2,948,279, 8-9-60, Cl. 128-232.
- Mann, Arvin W., and L. D. Pankey. Articulator with means to establish mandibular functional occlusal plane. 2,930,127, 3-29-60, Cl. 32-32.
- Mann, August: See—  
Morton, Henry C., and Mann. 2,923,983.
- Mann, Charles W.: See—  
Dogliotti, Eugene C., Barry, and Mann. 2,933,418.
- Mann, Charles W., and C. P. Merihb, to United States of America, Army. Dynamic tapping tester for measuring water penetration. 2,942,463, 6-28-60, Cl. 73-159.
- Mann, David E., Jr. Amusement device. 2,964,322, 12-13-60, Cl. 273-101.
- Mann, David J.: See—  
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- Sloan, Arthur W., and Mann. 2,931,801.
- Mann, David J., D. D. Perry, and R. M. Dudak, to Thiokol Chemical Corp. Acetylenic ether polymers and their preparation. 2,941,010, 6-14-60, Cl. 260-615.
- Mann Edge Tool Co.: See—  
Allan, Norman A. 2,930,648.
- Mann, George B.: See—  
Hensler, Walter W., and Mann. 2,922,941.
- Mann, Hans: See—  
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- Mann, Harry B.: See—  
Bradshaw, Samuel N., and Mann. 2,930,670.
- Mann, Henry: See—  
Andrews, Frederick T., Jr., and Mann. 2,949,503.
- Mann, Henry, to Bell Telephone Laboratories, Inc. Transistor trigger circuit stabilization. 2,964,655, 12-13-60, Cl. 307-88.5.
- Mann, Jack E. Soap bubble gun holster. 2,942,374, 6-28-60, Cl. 46-7.
- Mann, James H., Jr. Wall depository for building plans and important papers. 2,935,955, 5-10-60, Cl. 109-59.
- Mann, June B., 1/2 to J. R. Walker, III. Seat retainer for automobiles. 2,941,578, 6-21-60, Cl. 155-11.
- Mann, Leonard J., to General Motors Corp. Multiple temperature refrigerating apparatus. 2,937,511, 5-24-60, Cl. 62-196.
- Mann, Leonard J., to General Motors Corp. Method of making refrigerating apparatus. 2,958,934, 11-8-60, Cl. 29-157.3.
- Mann, Leonard J., and J. C. Miller, to General Motors Corp. Evaporator defrosting means. 2,928,258, 3-15-60, Cl. 62-276.
- Mann, Leonard J., J. M. Murphy, and C. H. Wurtz, to General Motors Corp. Refrigerating apparatus. 2,944,410, 7-12-60, Cl. 62-186.
- Mann, Leonard J., and E. C. Simmons, to General Motors Corp. Refrigerating apparatus. 2,959,936, 11-15-60, Cl. 62-276.
- Mann, Richard W. Vibrating scraper. 2,951,286, 9-6-60, Cl. 30-169.
- Mann, Theodore C., to Ekstrom-Carlson & Co. Variable speed cutter drive. 2,958,794, 11-1-60, Cl. 310-75.
- Mann, Wayne M.: See—  
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- Mann, William, and B. Maloney, to American Steel Foundries. Combination brake. 2,925,152, 2-16-60, Cl. 188-58.
- Mann, William, and G. Maloney, to American Steel Foundries. Clasp brake. 2,930,450, 3-29-60, Cl. 188-56.
- Mann, William I.: See—  
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- Mann, William L. Thrust bearing. 2,955,004, 10-4-60, Cl. 308-227.
- Mannaioni, Righetto. Screw thread cutting machine. 2,926-366, 3-1-60, Cl. 10-105.
- Manne, Richard S.: *See*—  
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- Mannen, Benona F. Switch stick. 2,936,193, 5-10-60, Cl. 294-19.
- Mannesmann Aktiengesellschaft: *See*—  
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- Wienands, Hermann. 2,928,468.
- Mannesmann-Meer Aktiengesellschaft: *See*—  
Bohm, Karl, and Zeunert. 2,924,106.
- Mannhardt, Heinz-Jürgen, and H. Metz, to E. Merck, Atkien-gesellschaft. Method of producing 11- $\alpha$ -hydroxysteroids with the genus fusarium. 2,950,226, 8-23-60, Cl. 193-51.
- Mannhardt, Wilbert P. Ice dispensing machine. 2,932,429, 4-12-60, Cl. 222-2.
- Mannheimer, Henrik. Crates, particularly bottle crates. 2,936,929, 5-17-60, Cl. 220-97.
- Manni, Vincent E., to Westinghouse Electric Corp. Corona suppression in high voltage coils. 2,939,976, 6-7-60, Cl. 310-196.
- Manninen, Thomas H., A. E. Lindroos, and R. L. Williams, to Air Reduction Co., Inc. Method of dehydrating acetylenic compounds. 2,956,091, 10-11-60, Cl. 260-678.
- Manning, Edward V., and J. J. Witkiewicz, to Bendix Aviation Corp. Airflow control means for aircraft cabins and compartments. 2,923,222, 2-2-60, Cl. 98-1.5.
- Manning, Fred W. Method of making reinforced composite pipe. 2,941,915, 6-21-60, Cl. 154-83.
- Manning, Howard H., to Champion DeArment Tool Co. Pliers. 2,948,962, 8-16-60, Cl. 30-186.
- Manning, Ivor, to Imperial Chemical Industries Ltd. Formation of mechanical joints between electrical conductors. 2,932,881, 4-19-60, Cl. 29-155.55.
- Manning, John A. Concentrating table. 2,943,736, 7-5-60, Cl. 209-441.
- Manning, John A., Paper Co., Inc.: *See*—  
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- Nowlin, Anne C. 2,928,747.
- Robinson, Richard S. 2,932,610.
- Manning Mfg. Corp.: *See*—  
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- Jones, Charles E., and Crowle. 2,927,797.
- Jones, Charles E., and Crowle. 2,927,798.
- Manning, Maxwell & Moore, Inc.: *See*—  
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- Engelberger, Joseph F. 2,948,060.
- Gorgens, Joseph E. 2,925,734.
- Manning, Paul D. V., to International Minerals & Chemical Corp. Method of defluorinating phosphatic material. 2,933,372, 4-19-60, Cl. 23-165.
- Manning, Walter H., Jr., to United States of America, Navy. Transistor power supply. 2,924,727, 2-9-60, Cl. 307-150.
- Mannisto, Orville H., to Western Electric Co., Inc. Article-forming apparatus. 2,935,112, 5-3-60, Cl. 153-25.
- Mannix Co. Ltd.: *See*—  
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- Christoff, James W. 2,924,897.
- Christoff, James W. 2,961,972.
- Croonenberghs, Lucien J. 2,921,538.
- Stein, Jack C., and Franco. 2,921,390.
- Mannon, Lloyd, to G. B. White. Automatic nozzle with safety shutoff. 2,936,799, 5-17-60, Cl. 141-208.
- Mannqvist, Ernst N., to Svenska Talcum Aktiebolaget. Lubricating means for traversers and the like. 2,920,719, 1-12-60, Cl. 184-3.
- Manny, Vera B. Nursing bottle holder. 2,948,499, 8-9-60, Cl. 248-106.
- Manos, Gus, to A. Parigian. Stock feeder. 2,959,422, 11-8-60, Cl. 279-30.
- Manostat Corp.: *See*—  
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- Manring, Robert C., to Motorola, Inc. Pulse width discrimination circuit. 2,961,609, 11-22-60, Cl. 328-112.
- Mansberg, Hyman P.: *See*—  
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- Manser, Clarence R.: *See*—  
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- Man-Sew Corp.: *See*—  
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- Mansfeld, Hubert. Formation of light-sensitive layers on photographic films. 2,945,771, 7-19-60, Cl. 117-34.
- Mansfield, James R.: *See*—  
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- Mansfield, Richard C.: *See*—  
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- Mansfield, Richard C., to Rohm & Haas Co. Preparation of tert-alkylisothiocyanates. 2,955,129, 10-4-60, Cl. 260-454.
- Mansfield, Sanford, to Old Dominion Box Co., Inc. Open-ended carton. 2,964,229, 12-13-60, Cl. 229-40.
- Mansfield Sanitary Pottery, Inc.: *See*—  
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- Fulton, Howard A., Henry, and Kerr. 2,952,270.
- Keitel, Gerald A. 2,941,897.
- Mansfield, Stanley J. Desiccant for odor and moisture control. 2,957,828, 10-25-60, Cl. 252-194.
- Mansford, Hugh L.: *See*—  
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- Mansheim, Richard J., to W. A. Sheaffer Pen Co. Writing instrument. 2,919,677, 1-5-60, Cl. 120-45.4.
- Mansheim, Richard J., to W. A. Sheaffer Pen Co. Writing instrument. 2,935,967, 5-10-60, Cl. 120-46.
- Mansheim, Richard J., to W. A. Sheaffer Pen Co. Writing implement. 2,942,576, 6-28-60, Cl. 120-47.
- Mansini, Luigi: *See*—  
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- Mansir, Dolan L.: *See*—  
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- Manson Laboratories, Inc.: *See*—  
Bruntill, Irwin M., and Shapiro. 2,934,717.
- Manson, Walter J., to National-Standard Co. Wire coiling apparatus. 2,949,250, 8-16-60, Cl. 242-83.
- Manspeaker, Robert O.: *See*—  
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- Keathley, Maurice F., Sr., and Manspeaker. 2,939,407.
- Mansson, Bertil K., to Philco Corp. Conveyor apparatus. 2,933,176, 4-19-60, Cl. 198-139.
- Mansson, Bo G. E.: *See*—  
Gustavsson, Karl A. G., and Mansson. 2,922,520.
- Mantel, Albertus G., to N. V. Nederlandsche Machinefabriek "Artillerie-Inrichtingen." Fuzes having a self-destructive action. 2,949,856, 8-23-60, Cl. 102-71.
- Mantelet, Jean, to Societe d'Etude et d'Exploitation Chimie et Mecanique E. C. E. M-Legumex (Societe a Responsabilite Limitee). Coffee and similar grinding mill. 2,923,483, 2-2-60, Cl. 241-191.
- Mantell, Cornelius, Jr. Disc record cleaning device. 2,938,732, 5-31-60, Cl. 274-47.
- Mantell, Russell M.: *See*—  
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- Plescia, Otto J., Mantell, and Martin. 2,930,184.
- Mantell, Russell M., and O. J. Plescia, to The M. W. Kellogg Co. Decomposition of hydrazine. 2,925,709, 2-23-60, Cl. 60-35.4.
- Manteufel, Rolf: *See*—  
Boettcher, Alfred, and Manteufel. 2,950,778.
- Manteufel, Rolf, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Apparatus for the separation of mixtures in the gaseous or vapor phase state. 2,946,399, 7-26-60, Cl. 183-2.
- Manteuffel, Allan A., G. W. Ayers, and W. D. Gilson, to The Pure Oil Co. Corrosion resistant sulfurized-phosphorized extreme pressure lubricant. 2,929,778, 3-22-60, Cl. 252-24.
- Manteuffel, Erich W., to General Electric Co. Temperature compensated voltage stabilizer. 2,957,122, 10-18-60, Cl. 323-70.
- Manthey, Ernst J., to Ruhrgas Aktiengesellschaft. Method of making insoluble sulphur. 2,947,614, 8-2-60, Cl. 23-312.
- Mantler, Raymond L., to United States of America, National Aeronautics and Space Administration. Rocket propellant injector. 2,940,259, 6-14-60, Cl. 60-39.74.
- Manufacture des Glaces et Produits Chimiques de Saint-Gobain, Chauny et Cirey, Societe Anonyme: *See*—  
Macq, Andre. 2,950,171.
- Manufacture des Montres & Chronographes Pierre S.A.: *See*—  
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- Manufacturers Chemical Corp.: *See*—  
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- Manville, George D. Variable length brace. 2,963,127, 12-6-60, Cl. 189-34.
- Manwaring, Joshua G. D., and R. H. Cota, 1/2 to Radio Frequency Co., Inc. Method and apparatus for sealing metal foil. 2,946,168, 7-26-60, Cl. 53-230.
- Manwiller, Carl H.: *See*—  
Landis, James P., and Manwiller. 2,929,771.
- Manzardo, Scipione R. Key identification and filing means. 2,932,107, 4-12-60, Cl. 40-330.
- Manzari, Giovanni: *See*—  
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- Manzelli, Manlio A., V. H. Young, Jr., and C. L. Harowitz, to Virginia-Carolina Chemical Corp. Method of repelling rodents with furan compounds. 2,924,554, 2-9-60, Cl. 167-46.
- Mapelsden, George C.: *See*—  
Francis, Wallace R., Mapelsden, and Feher. 2,947,966.
- Mapelsden, George C., and F. H. Cowe, to General Electric Co. Electrical termination. 2,947,968, 8-2-60, Cl. 339-276.
- Mapes, Carl H., and R. M. Carrigan, to Rand McNally & Co. Globe stand. 2,939,225, 6-7-60, Cl. 35-46.
- Mapes, Dwight B., to Pan American Petroleum Corp. Pulse extraction column. 2,919,978, 1-5-60, Cl. 23-270.5.
- Maples, James F., to Kimball Mfg. Corp. Water ski harness. 2,933,740, 4-26-60, Cl. 9-310.
- Maples, Richard E. Tape recorder control mechanism. 2,950,069, 8-23-60, Cl. 242-55.12.
- Mapson, Donald L., to M & D Store Fixtures, Inc. Hook supported panel. 2,959,291, 11-8-60, Cl. 211-1.
- Mapson, Donald L., to M & D Store Fixtures, Inc. Display unit footing structure. 2,965,243, 12-20-60, Cl. 211-183.
- Mar Hook Equipment, Inc.: *See*—  
Mitchell, John H. 2,964,347.
- Marach, Paul. Electric shaver. 2,946,121, 7-26-60, Cl. 30-29.5.
- Marafioti, James J., and H. A. Scheetz, to Corning Glass Works. Flux free bonded article and method. 2,964,839, 12-20-60, Cl. 29-195.



- Maragliano, Domenico, and F. Denti. Producing shaped articles comprising isotactic polypropylene. 2,947,598, 8-2-60, Cl. 18-54.
- Marak, Eldon J., to Phillips Petroleum Co. Wear determination method. 2,938,125, 5-24-60, Cl. 250-106.
- Marak, Eldon J., and H. W. Staten, Jr., to Phillips Petroleum Co. Nephelometer. 2,962,926, 12-6-60, Cl. 88-14.
- Maraman, William J.: *See—*  
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- Marancik, William G.: *See—*  
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- Marano, Herbert W., to Wilson Jones Co. Fastener driving device. 2,934,039, 4-26-60, Cl. 121-13.
- Marano, Herbert W., to Wilson Jones Co. Stapling machine assembly. 2,941,208, 6-21-60, Cl. 1-3.
- Marantette, Ruth B.: *See—*  
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- Marantette, William F. and R. B., to Micro-Path Inc. Digital servomotor control system. 2,941,136, 6-14-60, Cl. 318-32.
- Marasco, Anthony D., to J. B. Nottingham & Co., Inc. Electric cable coupler. 2,925,479, 2-16-60, Cl. 200-51.9.
- Marasco, Harold E. Press for heel-attached shoe bottoms. 2,962,736, 12-6-60, Cl. 12-38.
- Marasco, Paul B. Face mask. 2,954,027, 9-27-60, Cl. 128-195.
- Maras, Henry S. Pressure-relief member for dispenser for viscous material. 2,923,442, 2-2-60, Cl. 222-327.
- Marason, Gabriel: *See—*  
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- Marasso, Fred D., to American Machine & Foundry Co. Dough molding machine. 2,919,664, 1-5-60, Cl. 107-9.
- Marasso, Fred D., to American Machine & Foundry Co. Dough molding process. 2,953,107, 9-20-60, Cl. 107-54.
- Marathon Electric Mfg. Corp.: *See—*  
Sleeter, Edward B. 2,957,955.
- Maravel, James H.: *See—*  
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- Marback, William. Telephone handset holder. 2,929,886, 3-22-60, Cl. 179-146.
- Marban, Teodoro E. G., to Heinrich Envelope Co. Box construction. 2,951,625, 9-6-60, Cl. 229-20.
- Marbill Co.: *See—*  
Stewart, James W. 2,923,016.
- Marble, Harold A., and C. P. Bureby, to Luck-Aire Furnace Co. Gas furnace construction. 2,923,349, 2-2-60, Cl. 158-7.
- Marble, Wilbur K.: *See—*  
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- Marble, Wilbur K., to Lab-Quip Engineering Corp. Sampling valve assembly. 2,955,469, 10-11-60, Cl. 73-422.
- Marble, Wilbur K., to Lab-Quip Engineering Corp. Packaging press. 2,955,529, 10-11-60, Cl. 100-215.
- Marcattili, Enrique A. J., to Bell Telephone Laboratories, Inc. Microwave devices. 2,950,452, 8-23-60, Cl. 333-73.
- Marcattili, Enrique A. J., to Bell Telephone Laboratories, Inc. Mode selective devices for circular electric wave transmissions. 2,951,219, 8-30-60, Cl. 333-10.
- Marcattili, Enrique A. J., to Bell Telephone Laboratories, Inc. Microwave devices for wave guides of circular cross section. 2,960,670, 11-15-60, Cl. 333-10.
- Marcattili, Enrique A. J., to Bell Telephone Laboratories, Inc. Waveguide transducer. 2,963,663, 12-6-60, Cl. 333-9.
- Marcel, Henri. Stoppers. 2,921,708, 1-19-60, Cl. 215-48.
- Marcel, Henri. Cap seals and the like for the sealing and for the putting of a capsule on containers particularly on bottles. 2,947,432, 8-2-60, Cl. 215-41.
- March, Joseph F., and C. H. Koepfel, to The Stanley Works. Grass shears. 2,954,605, 10-4-60, Cl. 30-248.
- March Mfg. Co.: *See—*  
Zimmermann, Frederick N. and W. E. 2,919,726.
- Zimmermann, Frederick N. and W. E. 2,925,783.
- March, Raymond M., to Knick-March Engineering Inc. Power-operated bevel edge cutter. 2,920,663, 1-12-60, Cl. 144-126.
- Marchal, Marie T.: *See—*  
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- Marchal, Maurice and M. T. Radio-physiological method and means. 2,958,781, 11-1-60, Cl. 250-83.3.
- Marchand, Charles Co.: *See—*  
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- Marchand, Jean F., to North American Philips Co. Inc. Magnetic shifting register. 2,952,009, 9-6-60, Cl. 340-174.
- Marchand, Julien A. Tie back clip. 2,964,813, 12-20-60, Cl. 24-73.
- Marchant, Lee L. Metal forming machine. 2,958,242, 11-1-60, Cl. 78-61.
- Marchant, Paul A., to Injection Molding Co. Method and apparatus for mating engaging fittings. 2,947,071, 8-2-60, Cl. 29-235.
- Marchant Research, Inc.: *See—*  
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- Greene, George B., Hill, Hamilton, Bennett, and Steed. 2,936,118.
- Martin, Clarence W. 2,939,921.
- Nee, David S. 2,925,219.
- Rinder, Robert M., Walsh, Hamilton, Hill, Cotey, Greene, and Bennett. 2,927,732.
- Wahlstrom, Gunnar. 2,929,055.
- Marchant, Reynolds: *See—*  
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- Marchant, William T. B.: *See—*  
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- Marchese, John L., to United States Rubber Corp. Carcass scraper. 2,940,118, 6-14-60, Cl. 17-18.
- Marchese, Raymond R. Key guide for a lock. 2,942,452, 6-28-60, Cl. 70-454.
- Marchese, Theodore J.: *See—*  
Levin, Herbert L., and Marchese. 2,942,149.
- Marchese, Theodore J., to International Telephone and Telegraph Corp. Traveling wave electron discharge device. 2,927,832, 3-8-60, Cl. 315-3.6.
- Marchese, Theodore J., to International Telephone and Telegraph Corp. Constant impedance attenuator. 2,951,999, 9-6-60, Cl. 333-81.
- Marchese, Theodore J., to International Telephone and Telegraph Corp. Traveling wave electron discharge device. 2,955,224, 10-4-60, Cl. 315-3.5.
- Marchetti, Carlo, to Societe Industrielle de Mecanique et Carrosserie Automobile-Simca. Motor vehicles. 2,965,185, 12-20-60, Cl. 180-55.
- Marchetti, Charles J., to Sud-Aviation Societe Nationale de Constructions Aeronautiques. Laminated airfoil structure. 2,954,828, 10-4-60, Cl. 170-159.
- Marchfield, Rudolph L., and J. Fleischer. Collapsible tent frame. 2,936,771, 5-17-60, Cl. 135-3.
- Marchi, Angelo P. Drain construction for walls. 2,948,993, 8-16-60, Cl. 50-114.
- Marchiano, Pietro P.: *See—*  
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- Marciak, Emil J., to A. G. Spalding & Bros., Inc. Method of impregnating wooden golf club heads. 2,936,248, 5-10-60, Cl. 117-59.
- Marco Industries: *See—*  
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- Marco Industries Co.: *See—*  
Noyes, Charles W. 2,925,592.
- Marco, John. Chemical apparatus for continuous reactions, heat exchange, mixing, cooking and other chemical processes. 2,944,877, 7-12-60, Cl. 23-290.5.
- Marco, John L. Bodily orifice seal. 2,938,519, 5-31-60, Cl. 128-285.
- Marco Products Co.: *See—*  
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- Marconi Italiana S.p.A.: *See—*  
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- Marconi, Joseph: *See—*  
Thomas, Orrin H., and Marconi. 2,938,304.
- Marconi's Wireless Telegraph Co. Ltd.: *See—*  
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- Bickers, Arthur. 2,965,862.
- Byatt, Dennis. 2,953,782.
- Byatt, Dennis. 2,962,715.
- Cooper, Victor J. 2,930,843.
- Cooper, Victor J. 2,950,440.
- James, John F. 2,959,777.
- Jolliffe, Sidney A. W., and Watson. 2,946,998.
- Mirzwiniski, Henryk. 2,935,608.
- Morgan, Mervyn. 2,921,303.
- Morgan, Mervyn, and Agar. 2,923,001.
- Mortley, Wilfrid S. 2,922,966.
- Radford, Matthew F. 2,964,748.
- Ramsay, John F. 2,958,863.
- Ramsay, John F., and Jackson. 2,945,228.
- Rodgers, John. 2,943,314.
- Rout, Eric R. 2,922,038.
- Sharples, Roy W. 2,928,090.
- Smith, Norman N. P., and Howe. 2,932,793.
- Starks-Field, Alfred B., and Patterson. 2,944,227.
- Sutton, Joseph, and Banks. 2,934,715.
- Tyler, Victor J. 2,936,420.
- Wassell, Harold J. H. 2,946,996.
- Watt, James. 2,940,074.
- Wright, Peter M., and Brandon. 2,933,725.
- Marcot, Guy C.: *See—*  
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- Marcotte, Alvin Q.: *See—*  
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- Marcotte, Charles H.: *See—*  
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- Hope, Orville L. 2,922,591.
- Marcotte, James L., to Paper Mate of Puerto Rico, Inc. Writing implements. 2,941,510, 6-21-60, Cl. 120-42.03.
- Marcotte, Leonard G. and A. Q. Condensation trap. 2,921,432, 1-19-60, Cl. 60-29.
- Marcucci, George D. Package. 2,925,173, 2-16-60, Cl. 206-45.34.
- Marcus, David H.: *See—*  
Relis, Matthew J., and Marcus. 2,962,705.
- Marcus, Jerome R.: *See—*  
Brunner, Anton J., and Marcus. 2,936,061.
- Marcus, Jerome R., and G. P. McGraw, Jr., to Western Electric Co., Inc. Automatic capacitor winding machine. 2,951,655, 9-6-60, Cl. 242-56.1.
- Marcus, Mitchell P., to International Business Machines Corp. Bi-directional diode translator. 2,959,775, 11-8-60, Cl. 340-347.
- Marouse, Moses M., to West Chemical Products, Inc. Dispensing device for roll material. 2,957,738, 10-25-60, Cl. 312-39.



- Marcy, Gerald P.: *See*—  
Wuesthoff, Edward M., and Marcy. 2,942,439.
- Mard, Kenneth C., to United Aircraft Corp. Accumulator. 2,941,549, 6-21-60, Cl. 138-30.
- Marden, Leonard O.: *See*—  
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- Marden Machines Co.: *See*—  
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- Marder, Max. Artificial tooth. 2,932,893, 4-19-60, Cl. 32-10.
- Mardon, James, and C. I. H. Nicholl, to Anglo Paper Products, Ltd. Fluid flow distribution devices. 2,929,449, 3-22-60, Cl. 162-337.
- Maremont Automotive Products, Inc.: *See*—  
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- Marengo, Mario: *See*—  
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- Marap, S. N.: *See*—  
Garceau, Roger M. H. 2,950,152.
- Marescalchi, Luciano. Dry shaver with oscillating comb head. 2,920,387, 1-12-60, Cl. 30-43.
- Marette, Ralph T.: *See*—  
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- Marx Mfg. Co. Inc.: *See*—  
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- Marforio, Nerino, to S.p.A. Virginio Rimoldi & C. Two thread chain stitch sewing machine. 2,940,406, 6-14-60, Cl. 112-197.
- Marfuggi, Oreste G., to Marx Mfg. Co. Inc. Drink mixers. 2,920,875, 1-12-60, Cl. 259-108.
- Margetic, Joseph C., and C. A. Oppegard. Automatic slack adjuster for brakes. 2,920,724, 1-12-60, Cl. 188-196.
- Margetts, George P. Machine for rotating signs, displays, etc. 2,939,330, 6-7-60, Cl. 74-411.
- Margetts, Hyrum R., to United Biscuit Co. of America. Folding machine for crates or nest formations. 2,950,657, 8-30-60, Cl. 93-37.
- Marggraf, Kurt A., to Ampatco Laboratories Corp. Control apparatus for an aircraft. 2,948,495, 8-9-60, Cl. 244-77.
- Marggraf, Kurt A., and W. F. Massmann, to Ampatco Laboratories Corp. Instrument mounting. 2,932,546, 4-12-60, Cl. 312-352.
- Margida, Frank J., to Saf-T-Brake Valve Co. Inc. Safety valve for hydraulic brake system. 2,960,102, 11-15-60, Cl. 137-119.
- Margolin, Benjamin. Method of providing a lecture tour of museums and the like. 2,942,066, 6-21-60, Cl. 179-1.
- Margolis, Arthur L., to The Dearborn Co. Carving platter. 2,942,639, 6-28-60, Cl. 146-215.
- Margolis, Elly T. Sealing hard-shell gelatin capsules. 2,924,920, 2-16-60, Cl. 53-38.
- Margolis, Morris. Shoe shine device. 2,921,323, 1-19-60, Cl. 15-4.
- Margraf, Harry J.: *See*—  
MacGlashan, William F., Jr., Margraf, and Seitz. 2,926,694.
- Marguleas, Anton. Smoking articles. 2,944,554, 7-12-60, Cl. 131-198.
- Margulies, Paul H., to Food Machinery and Chemical Corp. Method of improving the bonding properties of steel surfaces. 2,923,608, 2-2-60, Cl. 41-42.
- Margulis, Waldo, and M. S. Silvey, to Alco Products, Inc. Rocket boosters. 2,937,595, 5-24-60, Cl. 102-49.
- Marhefka, Andrew J., and I. L. Kintish, to United States of America, Army. Arctic trigger. 2,920,413, 1-12-60, Cl. 42-69.
- Marholz, Richard C., to Raytheon Co. Cathode ray tube support. 2,936,448, 5-10-60, Cl. 340-367.
- Marlacher, Burt C., to International Resources Corp. Extraction of uranium from lignite ores. 2,925,321, 2-16-60, Cl. 23-14.5.
- Mariani, Lawrence: *See*—  
George, William J., and Mariani. 2,925,068.
- Marie, Georges R. P. Ultra-short wave directional coupler filter. 2,934,720, 4-26-60, Cl. 333-10.
- Marie, Georges R. P. Bends for circular wave guides. 2,951,222, 8-30-60, Cl. 333-98.
- Marie, Georges R. P. Ultra-high frequency gyromagnetic frequency changer. 2,962,676, 11-29-60, Cl. 332-51.
- Marié, Pierre G. Wide band resonant directional couplers. 2,936,430, 5-10-60, Cl. 333-10.
- Marié, Pierre G. Directional channel separation filters. 2,939,093, 5-31-60, Cl. 333-10.
- Marien, Clement S., to Swank, Inc. Necktie holder. 2,963,759, 12-13-60, Cl. 24-49.
- Marien, Kenneth J., to Square D Co. Locking apparatus. 2,946,864, 7-26-60, Cl. 200-42.
- Marien, Melvin W., to Ramsey Corp. Piston ring. 2,932,543, 4-12-60, Cl. 309-45.
- Marieni, Gino J., to Westinghouse Electric Corp. Alternating current induction device. 2,949,515, 8-16-60, Cl. 200-87.
- Marin, Ricardo: *See*—  
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- Marinace, John C., to General Electric Co. Junction type semiconductor device having improved heat dissipating characteristics. 2,928,162, 3-15-60, Cl. 29-25.3.
- Marindin, Frederick R., to Doran Brothers, Inc. Cap assembling and applying apparatus. 2,962,846, 12-6-60, Cl. 53-67.
- Marine Colloid, Inc.: *See*—  
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- Marine Controls Laboratories: *See*—  
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- Marine Exploration Co.: *See*—  
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- Mariner, Thomas, to Armstrong Cork Co. Method and apparatus for making repetitive measurements. 2,951,159, 8-30-60, Cl. 250-83.3.
- Maring, Robert J., to Toledo Scale Corp. Potentiometer mounting. 2,937,861, 5-24-60, Cl. 265-27.
- Marini, Herman R., W. O. Lytle, A. E. Saunders, and W. E. Wagner, to Pittsburgh Plate Glass Co. Treating glass sheets. 2,943,963, 7-5-60, Cl. 154-273.
- Marini, John L.: *See*—  
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- Marino, Anthony: *See*—  
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- Marino, Anthony, to Batter Block Engineering Corp. Block molding machine. 2,961,730, 11-29-60, Cl. 25-41.
- Marino, Joseph A., and L. Mayer, to Owens-Illinois Glass Co. Interlocked carton. 2,944,723, 7-12-60, Cl. 229-34.
- Marinovich, Eli J.: *See*—  
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- Marinovich, Melan J.: *See*—  
Marinovich, Samuel G. and E. J. 2,952,295.
- Marinovich, Samuel G., deceased (by M. J. Marinovich, administrator), and E. J. Marinovich, to Yuba Consolidated Industries, Inc. Apparatus and method for bellling large diameter pipe and truing the same. 2,952,295, 9-13-60, Cl. 153-80.
- Marinus, Bernard. Car washing device. 2,940,102, 6-14-60, Cl. 15-128.
- Marion, Charles P.: *See*—  
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- Marion, Kenneth O. Apparatus for winding and coiling wire, cable and the like. 2,946,535, 7-26-60, Cl. 242-84.
- Marion, Thomas E., to J. Shapiro. Dispenser cartons. 2,926,813, 3-1-60, Cl. 221-63.
- Marion, Thomas M., and J. F. Streib, to United States of America, Navy. Electronic control circuit. 2,927,213, 3-1-60, Cl. 250-209.
- Mariotti, Lillian D. Attachment for plates. 2,960,251, 11-15-60, Cl. 220-23.86.
- Mark, Donald G.: *See*—  
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- Mark, Donald G., and E. A. Nash, to The Goodyear Tire & Rubber Co. Thump and roughness meter. 2,951,366, 9-6-60, Cl. 73-146.
- Mark, Edward M., to Standard Machinery Division of Franklin Research Corp. Continuous conduit-type vulcanizing apparatus with non-surgling water-steam meeting level. 2,952,870, 9-20-60, Cl. 18-6.
- Mark, John: *See*—  
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- Mark, Morris. Collapsible barbecue unit. 2,959,165, 11-8-60, Cl. 126-9.
- Mark, Vennice E. Combination work and storage unit having biased supports. 2,926,055, 2-23-60, Cl. 312-21.
- Markarian, Moushy: *See*—  
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- Ross, Sidney D., Bernard, and Markarian. 2,941,946.
- Markarian, Moushy, to Sprague Electric Co. Electrical capacitor. 2,940,025, 6-7-60, Cl. 317-258.
- Markel Electric Products, Inc.: *See*—  
Ortiz, Ralph G., Ogden, and Piper. 2,963,249.
- Markel, William. Toggle-operated test plug for plumbing units. 2,924,246, 2-9-60, Cl. 138-89.
- Markels, Michael, Jr. Horizontal distillation apparatus. 2,946,726, 7-26-60, Cl. 202-153.
- Marker, Edward: *See*—  
Jordan, Robert O., and Cunningham. 2,927,963.
- Marker, Roy C., to Applied Radiation Corp. Method of enlarging and shaping charged particle beams. 2,941,077, 6-14-60, Cl. 250-49.5.
- Markert, Wallace, Jr., to The Babcock & Wilcox Co. Method and apparatus for sealing the ends of tubes. 2,966,571, 12-27-60, Cl. 219-9.5.
- Markestein, John: *See*—  
Brown, Harry K., and Markestein. 2,963,120.
- Markestein, John, and M. J. Weber, Jr., to General Motors Corp. Semitrailer king-pin locking and supporting means. 2,936,983, 5-17-60, Cl. 248-119.
- Market Forge Co.: *See*—  
Binding, Kenneth W. 2,942,651.
- Markey, Frank J., to GPE Controls, Inc. Fluid jet edge position detector. 2,919,712, 1-5-60, Cl. 137-83.
- Markey, Harold G.: *See*—  
Dyer, George A., and Markey. 2,942,783.
- Markgraf, Robert W.: *See*—  
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- Markham, Basil G., to Bristol Aero-Engines Ltd. Throttle control systems for engines driving forward and reverse gears. 2,944,645, 7-12-60, Cl. 192-098.
- Markham, Richard G.: *See*—  
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- Markham, Wendell G.: *See*—  
Gama, Armando R., and Markham. 2,945,769.
- Markle, Lafayette. Building system. 2,950,786, 8-30-60, Cl. 189-1.
- Markley, Francis X.: *See*—  
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- Orloff, Harold D., and Markley. 2,948,599.



- Markley, Francis X., to Pittsburgh Coke and Chemical Co. Method of defoliating plants. 2,965,467, 12-20-60, Cl. 71-27.
- Markley, Francis X., and H. D. Orloff, to Ethyl Corp. Chemical process for preparing phenyl dimethyl phosphates. 2,926,185, 2-23-60, Cl. 260-461.
- Markley, John L.: See—  
Muma, Richard A., and Markley. 2,926,688.
- Markley, William F., H. A. Brysselbout, and R. L. Smirl, to Borg-Warner Corp. Two-speed drive. 2,943,517, 7-5-60, Cl. 74-750.
- Markoff, Nicholas, and J. C. Kerr, to Tokheim Corp. Valve and register control mechanism. 2,928,572, 3-15-60, Cl. 222-35.
- Markoski, Edwin J. Motion translating means. 2,926,533, 3-1-60, Cl. 74-32.
- Markow, George R., to Bailey Meter Co. Monitoring system including a magnetic amplifier. 2,945,218, 7-12-60, Cl. 340-222.
- Markowitz, Jerome, to Allen Organ Co., Inc. Circuit for tuning oscillators of an electronic musical instrument. 2,939,359, 6-7-60, Cl. 84-1.17.
- Markowitz, Oscar. Techniques to deactivate a generator after a fault. 2,928,996, 3-15-60, Cl. 317-13.
- Markowitz, Seymour, and B. T. Goda, to Telemeter Magnetics, Inc. Magnetic bidirectional system. 2,920,315, 1-5-60, Cl. 340-174.
- Markowski, Everett L.: See—  
Ferro, Joseph A., and Markowski. 2,929,268.
- Markowski, Stanley J., to United Aircraft Corp. Flow control means for use with flameholders and flamespreaders. 2,935,847, 5-10-60, Cl. 60-39.72.
- Markowski, Stanley J., to United Aircraft Corp. Aerodynamic flameholder. 2,938,344, 5-31-60, Cl. 60-39.72.
- Marks, Alvin M. Method and screen for producing television images. 2,921,129, 1-12-60, Cl. 178-7.3.
- Marks, Alvin M. Three-dimensional display system. 2,961,486, 11-22-60, Cl. 178-6.5.
- Marks, Alvin M. and M. M., and S. G. Fassoulis, to M. M. Marks. Method for producing apparent three dimensional images. 2,952,182, 9-13-60, Cl. 88-16.6.
- Marks, Bernard M.: See—  
Eifert, Robert L., and Marks. 2,945,837.
- Marks, Bert H.: See—  
Magnusson, Arthur F., Marks, and Sperry. 2,966,608.
- Marks, Christian P., and J. Filipse, to North American Philips Co., Inc. Permanent anisotropic magnet and method of making same. 2,933,427, 4-19-60, Cl. 148-103.
- Marks, Elmer: See—  
Nicklasson, Richard, Marks, and Johnson. 2,958,938.
- Marks, Harry C.: See—  
Eschenburg, William A., Stauber, and Marks. 2,936,800.
- Marks, Louis W., to General Electric Co. High voltage current transformer. 2,947,958, 8-2-60, Cl. 336-84.
- Marks, Morris M.: See—  
Whildin, Orville M., and Steube. 2,921,734.
- Marks, Mortimer M.: See—  
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- Marks, Paul J. Hinged door check. 2,930,074, 3-29-60, Cl. 16-140.
- Marks, Philip W. Record player. 2,954,234, 9-27-60, Cl. 274-10.
- Marks, Ronald H. Continuous process and apparatus for making paper yarn. 2,955,408, 10-11-60, Cl. 57-32.
- Markstone Mfg. Co.: See—  
Kaufman, Jack, and Lund. 2,954,959.
- Markus, George, and M. Siegel, to Aristocrat Leather Products, Inc. Heat sealed gusset pocket. 2,962,071, 11-29-60, Cl. 150-38.
- Markus, Richard L., to White Laboratories, Inc. Process for preparing diisopropenylidiphenyl and homologs thereof. 2,957,036, 10-18-60, Cl. 260-668.
- Markus, Richard L., and E. R. Neary, to White Laboratories, Inc. Appetite depressant resin. 2,923,662, 2-2-60, Cl. 167-55.
- Markusen, David L., to Minneapolis-Honeywell Regulator Co. Nonlinear control apparatus. 2,931,901, 4-5-60, Cl. 250-27.
- Markusen, Jimmie. Roller scraper. 2,944,275, 7-12-60, Cl. 15-236.
- Markwell, Alvin M.: See—  
Crowl, Leland S., and Markwell. 2,933,050.
- Marley Co., The: See—  
Jones, Dougan L., and Langewis. 2,945,296.
- Loetel, Charles E. 2,919,971.
- Marley, John, to Hazeltine Research, Inc. Magnetic deflection system. 2,925,527, 2-16-60, Cl. 315-27.
- Marley, John, to Hazeltine Research, Inc. System for generating a periodic scanning current. 2,933,642, 4-19-60, Cl. 315-27.
- Marlin Firearms Co., The: See—  
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- Marlin Toy Products, Inc.: See—  
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- Marlino, Joseph A.: See—  
Gulesich, John J., and Marlino. 2,928,767.
- Mario Coil Co.: See—  
Pellegrini, Louis C. 2,954,213.
- Marlow, Chester W. Garden tractor control and plow guide attachment. 2,961,055, 11-22-60, Cl. 172-333.
- Marmier, Paul-Léon, to Buren Watch Co. S.A. Date-watch. 2,948,107, 8-9-60, Cl. 58-58.
- Marmo, Anthony B., and V. D. Thurston, to Westinghouse Electric Corp. Dishwashing apparatus. 2,943,633, 7-5-60, Cl. 134-174.
- Marmon-Herrington Co., Inc.: See—  
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- Marmont, George H., and A. Melbourne, to Dalton Foundries, Inc. Door operating mechanism. 2,929,623, 3-22-60, Cl. 268-74.
- Marner, Gene R., and R. M. Ringoen, to Collins Radio Co. Radiometric sextant stabilization system. 2,947,986, 8-2-60, Cl. 343-117.
- Marogg, Richard, to Kimberly-Clark Corp. Apparatus for forming perforations in paper by abrasion. 2,923,052, 2-2-60, Cl. 29-76.
- Marohn, Richard P., to Allis-Chalmers Mfg. Co. Counter for load tap changing transformer. 2,951,196, 8-30-60, Cl. 323-43.5.
- Marola, Americo: See—  
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- Maroldt, Heinz, to Maschinenfabrik Stahlkontor Weser G.m.b.H. V-belt pulleys. 2,924,108, 2-9-60, Cl. 74-230.17.
- Maron, Melvin E., and J. W. Haanstra, to International Business Machines Corp. Logical computing device. 2,944,738, 7-12-60, Cl. 235-156.
- Marone, Joseph N., to Curtiss-Wright Corp. Turbine cooling cap structure. 2,943,840, 7-5-60, Cl. 253-39.15.
- Marot, Paul, to Stamcarbon N.V. Process of separating mixtures of particles. 2,932,395, 4-12-60, Cl. 209-172.5.
- Maroth, Arthur M. Torque converting apparatus. 2,928,289, 3-15-60, Cl. 74-424.8.
- Marotta, Nicholas G.: See—  
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- Marotta, Ralph, and C. R. Martinson, to Monsanto Chemical Co. Coating compositions and methods of preparing same. 2,927,863, 3-8-60, Cl. 106-228.
- Marotta, Ralph J., to Florida Cracker, Inc. Pest control device. 2,941,197, 6-14-60, Cl. 340-386.
- Marotta Valve Corp.: See—  
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- Kenann, John G., and Detaranto. 2,934,090.
- Kowalski, Slawomir. 2,925,984.
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- Marpillero, Paolo, to Societe Francaise du Xylon. Method for treating vegetable material with a view to producing paper pulp. 2,929,757, 3-22-60, Cl. 162-88.
- Marpillero, Paolo, to Societe pour l'Amelioration et le Developpement des Procèdes Industriels (SADEPI). Bleaching of cellulosic pulp. 2,938,826, 5-31-60, Cl. 162-87.
- Marple, Elmore B. Grease trap device. 2,935,197, 5-3-60, Cl. 210-109.
- Marquard, Erich G., to Alweg-Forschung, Gesellschaft mit beschränkter Haftung. Railway systems. 2,932,258, 4-12-60, Cl. 104-120.
- Marquardson, Kent F.: See—  
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- Marquardt, Bobby G.: See—  
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- Marquardt Corp., The: See—  
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- Dungan, Richard T., Long, Stupka, Taylor, and Wise. 2,966,140.
- Dunsworth, Lorne C., and Thomas. 2,948,115.
- Laucher, Richard G., Winter, and Johnston. 2,950,595.
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- Rabier, Jean C. 2,958,823.
- Rabier, Jean C. 2,958,865.
- Wagner, William A. 2,962,258.
- Wagner, William, and Koerner. 2,945,672.
- Wise, James C. 2,939,276.
- Wise, James C. 2,939,277.
- Marquez, Charles L., to The Babcock & Wilcox Co. Open pass vapor generating and superheating unit with gas recirculation to open pass. 2,953,124, 9-20-60, Cl. 122-478.
- Marquis, David M., to E. I. du Pont de Nemours and Co. Process for preparing 2,3,3,3-tetrafluoropropene. 2,931,840, 4-5-60, Cl. 260-653.3.
- Marquis, David M., to E. I. du Pont de Nemours and Co. Process for preparing thiocarbonyl fluoride. 2,962,529, 11-29-60, Cl. 260-543.
- Marquis, Donald P., to General Motors Corp. Universal joint. 2,964,928, 12-20-60, Cl. 64-8.
- Marquis, Donald P., and R. J. Schultz, to General Motors Corp. Bearing support. 2,922,680, 1-26-60, Cl. 308-28.
- Marquis, Donald P., and R. J. Schultz, to General Motors Corp. Universal joint. 2,945,364, 7-19-60, Cl. 64-8.
- Marquis, Riley F., Jr. Two-part union having left and right hand threads. 2,926,027, 2-23-60, Cl. 285-32.
- Marr, Daniel F., Jr. Device to lock braces of sectional scaffolding. 2,935,346, 5-3-60, Cl. 287-53.5.
- Marr, Elmer S.: See—  
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- Marr, John D., and W. G. Cross, to Atomic Energy of Canada Ltd. Alpha air monitor. 2,957,084, 10-18-60, Cl. 250-83.6.
- Marr, Ronald L., and C. M. Selwitz, to Gulf Research & Development Co. Process for the oxidation of paraffin wax whereby a high saponification number product is obtained by the use of a silicone. 2,960,519, 11-15-60, Cl. 260-451.
- Marra, Dorothea C.: See—  
Oslipow, Lloyd I., and Marra. 2,936,245.



- Marra, William H.: *See*—  
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- Marraffino, Leonard L.: *See*—  
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- Marriage, Ira J. Blade structure for airplane propellers. 2,941,604, 6-21-60, Cl. 170-159.
- Marron, Arthur W., W. P. Prawlucki, and R. O. Burns, to Coastal Supply & Chemical Co. Apparatus for soil treatment. 2,930,334, 3-29-60, Cl. 111-6.
- Marsal, Paul A., K. Kordes, and L. F. Urry, to Union Carbide Corp. Dry cell. 2,960,558, 11-15-60, Cl. 136-107.
- Marsan, Arthur E. Colostomy or drainage appliance. 2,928,393, 3-15-60, Cl. 128-283.
- Marschall, Frederick W. Pulse amplitude width discriminator. 2,945,962, 7-19-60, Cl. 307-88.
- Marschall, Frederick W. Signal selective circuit. 2,945,963, 7-19-60, Cl. 307-88.
- Marsden, George P. Device for storing and cataloging slides. 2,954,033, 9-27-60, Cl. 129-16.
- Marsden, James G., to Union Carbide Corp. Process for producing phosphorus-containing organosilicon compounds. 2,963,503, 12-6-60, Cl. 260-448.8.
- Marsden, Peter B., and G. Berstein. Lubricating oil thickened to a grease with a mixture of silica and pyrogenic alumina. 2,965,568, 12-20-60, Cl. 252-28.
- Marsel, Charles J.: *See*—  
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- Marsh, Alfred H.: *See*—  
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- Marsh, Fayette E. Trussed rafter. 2,941,484, 6-21-60, Cl. 108-23.
- Marsh, Gareld E., to General Railway Signal Co. Data posting indicators. 2,959,773, 11-8-60, Cl. 340-316.
- Marsh, Gerald M., to Ideal Fishing Float Co., Inc. Fishing float. 2,965,999, 12-27-60, Cl. 43-44.87.
- Marsh, Glenn A.: *See*—  
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- Marsh, Glenn A., and E. Schaschl, to The Pure Oil Co. Inhibiting corrosion. 2,927,068, 3-1-60, Cl. 204-147.
- Marsh, Glenn A., and E. Schaschl, to The Pure Oil Co. Corrosion inhibition in aqueous ammonia-ammonium nitrate systems. 2,936,884, 5-17-60, Cl. 206-84.
- Marsh, Glenn A., and E. Schaschl, to The Pure Oil Co. Electron tube apparatus for detection of atomic hydrogen. 2,946,952, 7-26-60, Cl. 324-71.
- Marsh, Glenn A., and E. Schaschl, to The Pure Oil Co. Corrosion testing apparatus. 2,956,225, 10-11-60, Cl. 324-71.
- Marsh, Glenn A., and H. L. Chamberlain, to The Pure Oil Co. Method for determining production characteristics of pumping wells producing oil and brine. 2,964,941, 12-20-60, Cl. 73-155.
- Marsh, John O., and D. Seed, to Specialties Development Corp. Inflation apparatus. 2,926,836, 3-1-60, Cl. 230-116.
- Marsh, Kirtland, to Aluminum Co. of America. Heat exchange apparatus. 2,940,735, 6-14-60, Cl. 257-235.
- Marsh, Lynn W., Jr.: *See*—  
Deerfield, Alan J., and Marsh. 2,966,113.
- Marsh, Lynn W., Jr., and L. Rosen, to Analex Corp. Electronic counting system. 2,959,849, 11-8-60, Cl. 235-92.
- Marsh, Lynn W., Jr., and L. Rosen, to Analex Corp. Electronic timing system. 2,959,734, 11-8-60, Cl. 324-68.
- Marsh, Mendole D.: *See*—  
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- Marsh, Richard O., Jr. Pneumatic track device. 2,923,578, 2-2-60, Cl. 305-2.
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Kopf, Rowland J., Henning, and Marsh. 2,945,236.  
Kopf, Rowland J., Henning, and Marsh. 2,946,061.
- Marsh, Roger B. Power actuated boat loading device. 2,936,915, 5-17-60, Cl. 214-85.1.
- Marsh, Roy W. Self-locking, pliable sheet construction or the like. 2,935,239, 5-3-60, Cl. 229-35.
- Marsh Stencil Machine Co.: *See*—  
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- Marsh Wall Products, Inc.: *See*—  
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- Marsh, William T., to Fuller Displays, Inc. Cooling receptacle. 2,942,726, 6-28-60, Cl. 206-44.
- Marshall, Anthony J. Safety tire relief mechanism. 2,954,796, 10-4-60, Cl. 137-226.
- Marshall, Byron O., Jr., and J. D. Dillon. Binary multiplier. 2,941,720, 6-21-60, Cl. 235-164.
- Marshall, Charles T., to C. Millman. Anti-friction bearing units. 2,955,884, 10-11-60, Cl. 308-190.
- Marshall, Charles W., to G. D. Searle & Co. 3-hydroxy-7-oxopregn-5-en-(17 and/or 21)-ols and esters, and processes for the manufacture thereof. 2,933,512, 4-19-60, Cl. 260-397.4.
- Marshall, Charles W., to G. D. Searle & Co. Steroidal 3-hydroxy-3,5-dien-7-ones. 2,934,545, 4-26-60, Cl. 260-397.4.
- Marshall, Clark E. Automotive gear shift mechanism. 2,961,890, 11-29-60, Cl. 74-477.
- Marshall, David J., to American Home Products Corp. 17 $\alpha$ -bromo-6 $\alpha$ -fluoroprogesterone. 2,924,610, 2-9-60, Cl. 260-397.3.
- Marshall, David J., to American Home Products Corp. Novel derivatives of estrane. 2,930,805, 3-29-60, Cl. 260-397.4.
- Marshall, David M., to The Babcock & Wilcox Co. Combination oil and gas burner. 2,931,430, 4-5-60, Cl. 158-11.
- Marshall, Douglas W., and J. J. Scott, to Norton Co. Process for the concentration of zirconia. 2,926,993, 3-1-60, Cl. 23-16.
- Marshall, Edward C., to American Tag Co. Tag with fastening wire. 2,937,464, 5-24-60, Cl. 40-2.
- Marshall, Frank A. Drill press attachment. 2,933,864, 4-26-60, Cl. 51-241.
- Marshall, George M.: *See*—  
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- Marshall, Harry B., and A. C. Shaw, to Ontario Research Foundation. Production of a tanning agent from waste sulphite liquor by solvent extraction. 2,952,507, 9-13-60, Cl. 8-94.31.
- Marshall, Henry P.: *See*—  
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- Marshall, John, Jr., to United States of America, Atomic Energy Commission. Methods and means for obtaining hydromagnetically accelerated plasma jet. 2,961,559, 11-22-60, Cl. 313-63.
- Marshall, John A., to Shell Development Co. Production of gasoline by catalytic cracking. 2,921,014, 1-12-60, Cl. 208-74.
- Marshall, John A., F. Kunreuther, G. J. Reno, and C. A. Rehbein, to Shell Oil Co. Two-stage catalytic cracking process. 2,956,003, 10-11-60, Cl. 208-74.
- Marshall, John R.: *See*—  
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Stevenson, Herbert A., Marshall, and Hams. 2,938,042.
- Marshall, John S.: *See*—  
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- Marshall, Jule F., to American Felt Co. Needled felt. 2,959,509, 11-8-60, Cl. 154-101.
- Marshall, Peter L., J. R. Macaulay, W. Solomon, R. J. Steffy, and R. A. Petrey, to North American Aviation, Inc. Aircraft boundary-layer control system. 2,920,844, 1-12-60, Cl. 244-42.
- Marshall, Richard O., to Corn Products Co. Enzymatic process. 2,950,228, 8-23-60, Cl. 195-66.
- Marshall, Robert A., to The Machlett Laboratories, Inc. Means and method of packaging fragile articles. 2,956,670, 10-18-60, Cl. 206-46.
- Marshall, Robert P. Fuze component design. 2,958,285, 11-1-60, Cl. 102-76.
- Marshall, Sydney G., to Bell Punch Co. Ltd. Taximeters. 2,962,210, 11-29-60, Cl. 235-30.
- Marshall, Thomas G., Jr., to Radio Corp. of America. Sweep circuit. 2,958,003, 10-25-60, Cl. 315-27.
- Marshall, Walter E., and E. A. Kathe. Impact type cutting device for excavating machinery. 2,923,536, 2-2-60, Cl. 262-6.
- Marshall, Walter L.: *See*—  
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- Marshall, Walton H., Jr., to Conch International Methane Ltd. Processing liquefied natural gas. 2,952,984, 9-20-60, Cl. 62-27.
- Marshall, William G., and L. G. Lane, to Boeing Airplane Co. Fuel cell anchoring contour washer. 2,957,663, 10-25-60, Cl. 244-135.
- Marshall, William R., Jr.: *See*—  
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- Marshall, William R., Jr., to Proctor & Schwartz, Inc. Dryer for granular, fibrous and like material. 2,924,887, 2-16-60, Cl. 34-57.
- Marshall, William W., III, to Mobay Chemical Co. Process and apparatus for making plastics. 2,957,203, 10-25-60, Cl. 18-30.
- Marshfield Mfg. Corp.: *See*—  
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- Marsl, Guido, to Cantieri Riuniti Dell Adriatico. Metal partition walls. 2,962,130, 11-29-60, Cl. 189-34.
- Marsico, Joseph W.: *See*—  
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- Marsilio, Alphonso W.: *See*—  
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- Marso, Ernest. Platform. 2,925,978, 2-23-60, Cl. 248-120.
- Marsters, Roger W.,  $\frac{3}{4}$  to T. D. Kinney, N. Kaufmann, and D. B. Hackell. Test tube warmer. 2,932,718, 4-12-60, Cl. 219-43.
- Marston, Arthur E., and J. A. Kaiser, Jr. Spiral trough antennas. 2,935,746, 5-3-60, Cl. 343-761.
- Marston, Arthur E., and J. A. Kaiser, Jr.; said Kaiser assor. to United States of America, Navy. Beacon antenna using spiral. 2,947,000, 7-26-60, Cl. 343-895.



- Marston Excelsior Ltd.: *See*—  
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- Martell, Arthur E.: *See*—  
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- Martell, George E., to Smith Kline & French Laboratories. Feeding apparatus for a conveyor. 2,949,997, 8-23-60, Cl. 198-25.
- Martelli, Francesco: *See*—  
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- Martelli, Guido, N., and F. Fruit packing. 2,922,541, 1-26-60, Cl. 217-27.
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- Martens, Gunther: *See*—  
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- Martens, Herbert A.: *See*—  
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- Martens, Jack E.: *See*—  
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- Martens, Jack E., to The Anderson Co. Window actuator. 2,922,639, 1-26-60, Cl. 268-124.
- Martens, Jack E., to The Anderson Co. Nut assembly. 2,924,112, 2-9-60, Cl. 74-424.8.
- Martens, Jack E., and D. C. Beyer, to Ford Motor Co. Door lock keeper. 2,929,652, 3-22-60, Cl. 292-341.13.
- Martens, Jack E., and L. R. Loskill, to The Anderson Co. Motion-transmitting device. 2,951,390, 9-6-60, Cl. 74-424.8.
- Martens, Maurice J., to Deere & Co. Material unloader of flail type with selective drive means. 2,957,698, 10-25-60, Cl. 275-3.
- Marterstock, Joseph: *See*—  
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- Marti, Frédéric, and G. Braunschweig. Constant force escapement for electric timepieces. 2,958,180, 11-1-60, Cl. 58-28.
- Marti, Fritz: *See*—  
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Guyer, August, Marti, and Sztachelski. 2,933,527.
- Marti, Paul O., Jr., to Standard Oil Co. Gas generating composition containing surfactant. 2,946,671, 7-26-60, Cl. 52-5.
- Marti, Paul O., Jr., to Standard Oil Co. Gas generating compositions. 2,946,672, 7-26-60, Cl. 52-5.
- Martiello, Joseph A. Hinge mounted support. 2,927,761, 3-8-60, Cl. 248-226.
- Martin Aircraft Tool Co.: *See*—  
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- Martin, Alan. Coffee brewer. 2,935,012, 5-3-60, Cl. 99-283.
- Martin, Albert E., to C. A. Parsons & Co. Ltd. Double beam spectrometers. 2,930,279, 3-29-60, Cl. 88-14.
- Martin, Albert E., to C. A. Parsons & Co. Ltd. Spectrometers. 2,931,266, 4-5-60, Cl. 88-14.
- Martin, Albert E., to Sir Howard Grubb, Parsons & Co. Ltd. Self balancing electrical instruments. 2,938,118, 5-24-60, Cl. 250-43.5.
- Martin, Albert E., to Sir Howard Grubb Parsons & Co. Ltd. Grating spectrometers. 2,945,953, 7-19-60, Cl. 250-43.5.
- Martin, Albert E., to C. A. Parsons & Co. Ltd. Infra-red analysing apparatus. 2,951,938, 9-6-60, Cl. 250-43.5.
- Martin, Albert E., to C. A. Parsons & Co. Ltd. Double beam spectrometers. 2,955,508, 10-11-60, Cl. 88-14.
- Martin, Albert E., and E. H. Mullins, to United States of America, Navy. Safety and delay arming device. 2,920,570, 1-12-60, Cl. 102-70.2.
- Martin, Albert E., D. Mounfield, and J. Smart, to C. A. Parsons & Co. Ltd. Sonic gas analysers. 2,963,899, 12-13-60, Cl. 73-24.
- Martin, Albert F., W. C. Pagel, and G. M. Rambosek, to Minnesota Mining and Mfg. Co. Bonding film. 2,951,004, 8-30-60, Cl. 154-110.
- Martin, Alfred K. Metal structural unit. 2,936,051, 5-10-60, Cl. 189-39.
- Martin, Alvin H. Boat hull. 2,938,490, 5-31-60, Cl. 114-56.
- Martin, Ben H.: *See*—  
Wilson, Albert L. 2,947,450.
- Martin, Charles L., to ACF Industries, Inc. Tube cutter. 2,957,241, 10-25-60, Cl. 30-101.
- Martin, Charles Q., to Sperry Rand Corp. Hand tool straightener for sickle-bar guards. 2,922,326, 1-26-60, Cl. 81-15.
- Martin, Clarence E.: *See*—  
Bartels, Russell, and Martin. 2,940,439.  
Bartels, Russell W., and Martin. 2,940,411.
- Martin, Clarence W., to Marchant Research, Inc. Magnetic recording mechanism for selective skew recording. 2,939,921, 6-7-60, Cl. 179-100.2.
- Martin, Claude F., C. E. Olsen, and J. A. Peterson. Rod wiper device. 2,937,894, 5-24-60, Cl. 286-16.2.
- Martin Co., The: *See*—  
Birge, Warren A. 2,958,826.  
Buschers, Herbert H. 2,941,442.  
Bush, Orville J. 2,944,771.  
Clark, James B., Jr., Behles, and Mackenzie. 2,919,670.  
Cosner, Donald L. 2,948,517.  
Decker, James L., and Koch. 2,920,842.  
Douglass, Harry H., Miller, and Berger. 2,922,950.  
Dunkelberger, Edwin R. 2,958,948.  
Gantschnigg, Gottfried K. 2,937,573.  
Gantschnigg, Gottfried K., Muehlberger, and Hake. 2,949,060.  
Gorsuch, John T. 2,943,435.  
Gunther, Harry B. Re. 24,842.  
Hammond, Wardlaw M., Jr. 2,947,495.  
Ida, Noble N., and Mueller. 2,941,883.  
Isley, Cary T., Jr. 2,966,584.  
Jenkins, Carlton H. 2,929,299.  
Kass, Irvin E., and Rouvellat. 2,932,473.  
Lambert, Alfred G., Jr. 2,966,222.  
Matheisel, Rudolph A., and Cooke. 2,922,602.  
Merriman, Helen R. 2,952,579.  
Multhopp, Hans. 2,964,264.  
Pfaff, George C., Jr., and Carter. 2,925,231.  
Reilly, Mason J. 2,952,237.  
Reis, Herbert J. 2,935,705.  
Sheffer, Robert M. 2,920,648.  
Trurnit, Hans J., Zill, and Colmano. 2,940,981.  
Wallis, Lyle, Wheeler, and Glemza. 2,924,537.  
Wilson, Harold E., Jr. 2,944,512.  
Wood, John A. 2,947,565.  
Yeomans, Clive M. 2,938,847.
- Martin, Cy. Collapsible roller. 2,935,270, 5-3-60, Cl. 242-55.2.
- Martin, Devereaux, H. Fountain, and J. E. Thompson, to Viking Instruments, Inc. Universal flow valve. 2,927,601, 3-8-60, Cl. 137-271.
- Martin, Donald J., to St. Joe Machines, Inc. Antenna tuning device for automobile radios. 2,944,257, 7-5-60, Cl. 343-749.
- Martin, Donald L., to Collins Radio Co. Synchronizing frequency control system. 2,961,533, 11-22-60, Cl. 250-20.
- Martin, Donald W.: *See*—  
Malcolm, Donald H., and Martin. 2,944,651.
- Martin, Edward, to M. P. H. Mfg. Corp. Inc. Roof construction. 2,933,056, 4-19-60, Cl. 108-13.
- Martin, Edward G.: *See*—  
Friedman, Ira J., Martin, and Taylor. 2,960,437.  
Friedman, Ira J., Martin, Taylor, and Wagner. 2,960-438.
- Martin, Edward J., to Sinclair Refining Co. Composition of matter consisting of a microcrystalline wax and 5-25% of an aromatic petroleum extract. 2,954,337, 9-27-60, Cl. 208-21.
- Martin, Edward J., to General Motors Corp. Brake structure having heat absorption and dissipating means. 2,966,241, 12-27-60, Cl. 188-264.
- Martin, Edward J., and J. M. Farrell, to General Motors Corp. Index mechanism. 2,964,957, 12-20-60, Cl. 74-126.
- Martin, Elmore L., to E. I. du Pont de Nemours and Co. Photopolymerizable compositions. 2,927,023, 3-1-60, Cl. 96-35.
- Martin, Elmore L., to E. I. du Pont de Nemours and Co. Polyvinyl acetal with terminal vinylidene groups. 2,929,710, 3-22-60, Cl. 96-115.
- Martin, Elmore L., and A. L. Barney, to E. I. du Pont de Nemours and Co. Photopolymerizable compositions and elements and processes of using same. 2,927,022, 3-1-60, Cl. 96-35.
- Martin, Elwood C.: *See*—  
Nemec, Fred A., Martin, and R. W. and R. E. Nemec. 2,940,435.
- Martin, Emil L.: *See*—  
Andrea, John J., and Martin. 2,956,215.
- Martin, Ernest M.: *See*—  
Schwartz, Daniel M., and Martin. 2,953,942.
- Martin, Eugene, to Capitol Products Corp. Variable vertical speed mixer. 2,931,232, 4-5-60, Cl. 74-16.
- Martin, Eugene C.: *See*—  
Titsworth, Harvey R., and Martin. 2,935,389.
- Martin, Eugene C., and H. R. Titsworth, to The American Oil Co. Rust inhibitor for gasoline. 2,919,979, 1-5-60, Cl. 44-53.
- Martin, Fernard, to Ateliers de Constructions Electriques de Charleroi. Lightning arresters for very high voltage. 2,946,920, 7-26-60, Cl. 315-58.
- Martin, Francis W., to Corning Glass Works. Cathode-ray tube manufacture. 2,925,189, 2-16-60, Cl. 220-2.3.
- Martin, Frank: *See*—  
Botting, Richard E., and Martin. 2,933,654.
- Martin, Frank A., to The Hoover Co. Combined injection and compression molding. 2,938,232, 5-31-60, Cl. 18-30.
- Martin, Frank A., to The Hoover Co. Flexible hose. 2,961,007, 11-22-60, Cl. 138-56.
- Martin, Frank J., to Allied Die-Casting Corp. Window operator. 2,929,264, 3-22-60, Cl. 74-507.
- Martin, Frederick J.: *See*—  
Plescia, Otto J., Mantell, and Martin. 2,930,184.
- Martin, Frederick W., to Bendix Aviation Corp. Brake proportioning valve. 2,924,306, 2-9-60, Cl. 188-152.



- Martin, Frederick W., and P. R. Wiley, to Bendix Aviation Corp. Power braking system. 2,935,164, 5-3-60, Cl. 188-152.
- Martin, Gavin P. B., to Jonas Woodhead & Sons Ltd. Vehicle suspension. 2,946,582, 7-26-60, Cl. 267-64.
- Martin, George E.: See—
- Pannier, Ralph A., and Martin. 2,943,561.
- Martin, George J. Combination truck and roller unit. 2,962,950, 12-6-60, Cl. 94-50.
- Martin, George L.: See—
- Hellier, Edward G., and Martin. 2,950,185.
- Martin, George L., to National Research Corp. Separation of tantalum. 2,927,854, 3-8-60, Cl. 75-121.
- Martin, George R., to The Dow Chemical Co. Silver catalyst and method of manufacture. 2,920,052, 1-5-60, Cl. 252-463.
- Martin, Glenn L., Co., The: See—
- Weil, Benjamin G., and Morse. 2,930,745.
- Martin, Gordon E.: See—
- Hickman, John S., and Martin. 2,958,078.
- Martin, Gunther J., to Schlumberger Well Surveying Corp. Signal converting systems. 2,965,891, 12-20-60, Cl. 340-347.
- Martin, Gustav J.: See—
- Sullivan, Miller J., and Martin. 2,930,736.
- Martin, Harold F., to International Business Machines Corp. Transducer support for sound recording or reproducing system. 2,921,144, 1-12-60, Cl. 179-100.2.
- Martin, Harold F., to International Business Machines Corp. Test scoring machine. 2,944,734, 7-12-60, Cl. 235-61.7.
- Martin, Harold F., to International Business Machines Corp. Reversible drive mechanism. 2,962,913, 12-6-60, Cl. 74-425.5.
- Martin, Heinz: See—
- Ziegler, Karl, and Martin. 2,943,125.
- Martin, Henry, to Cilag-Chemie Aktiengesellschaft. New anilides and process for their production. 2,948,736, 8-9-60, Cl. 260-326.3.
- Martin, Hermann. Mounting device of sighting telescopes on firearms. 2,931,101, 4-5-60, Cl. 33-50.
- Martin, Homer Z., to Esso Research and Engineering Co. Method of handling subdivided solids. 2,925,928, 2-23-60, Cl. 214-152.
- Martin, Hugh H.: See—
- Diehl, Max H., and Martin. 2,958,825.
- Martin, Hugh M., 50% to F. G. Hunt. Combined statement and return envelope. 2,950,045, 8-23-60, Cl. 229-92.3.
- Martin, Cliff H. Paper folding device. 2,947,536, 8-2-60, Cl. 270-79.
- Martin, Ivan Z. Hydroponic apparatus. 2,928,211, 3-15-60, Cl. 47-1.2.
- Martin, Jack, to Westinghouse Electric Corp. Incandescent lamp. 2,924,735, 2-9-60, Cl. 313-271.
- Martin, James. Ejection seats for aircraft. 2,929,587, 3-22-60, Cl. 244-141.
- Martin, James. Hoods or canopies of aircraft. 2,937,829, 5-24-60, Cl. 244-121.
- Martin, James. Parachute pack retaining means for use with an aircraft ejection seat. 2,940,702, 6-14-60, Cl. 244-141.
- Martin, James. Ejection seats for aircraft. 2,944,774, 7-12-60, Cl. 244-122.
- Martin, James C., and J. R. Caldwell, to Eastman Kodak Co. Polyamides of bicyclo-(3,3,0)-octane-1,4-dicarboxylic acid. 2,937,162, 5-17-60, Cl. 260-78.
- Martin, James C., and R. H. Hasek, to Eastman Kodak Co. Process for glutaric acid manufacture. 2,945,060, 7-12-60, Cl. 260-537.
- Martin, James C., and R. H. Hasek, to Eastman Kodak Co. Preparation of N,N-dibutyl aniline. 2,947,784, 8-2-60, Cl. 260-577.
- Martin, James D. Pressure responsive flow-stop valve. 2,926,690, 3-1-60, Cl. 137-460.
- Martin, James M.: See—
- Nagy, John, James, and Martin. 2,964,763.
- Martin, James W.: See—
- Vogt, Charles C., Martin, and Barber. 2,956,226.
- Martin, James W., to Oil Recovery Corp. Method of eliminating water resistant coating from bore of injection wells. 2,964,109, 12-13-60, Cl. 166-43.
- Martin, Jerome L.: See—
- Bachman, Marvin C., Martin, and Pensack. 2,924,523.
- Bachman, Marvin C., Martin, and Pensack. 2,924,526.
- Martin, Jerome L., to Commercial Solvents Corp. Swine feed supplement. 2,924,524, 2-9-60, Cl. 99-2.
- Martin, Jerome L., to Commercial Solvents Corp. Duck feeds. 2,924,527, 2-9-60, Cl. 99-4.
- Martin, John, to Columbian Carbon Co. Manufacture of ferric oxide. 2,935,379, 5-3-60, Cl. 23-200.
- Martin, John, to Columbian Carbon Co. Manufacture of iron oxides. 2,939,767, 6-7-60, Cl. 23-200.
- Martin, John A.: See—
- Luce, John S., and Martin. 2,926,251.
- Martin, John B., to The Procter & Gamble Co. Process for preparing detergent compositions. 2,961,409, 11-22-60, Cl. 252-109.
- Martin, John B., to The Procter & Gamble Co. Process for preparing detergent compositions. 2,961,410, 11-22-60, Cl. 252-109.
- Martin, John L.: See—
- Barker, Orrin W., Martin, Osburn, and Zankl. 2,963,945.
- Martin, John L., to The Atlantic Refining Co. Logging while drilling. 2,941,784, 6-21-60, Cl. 255-1.8.
- Martin, Joseph: See—
- Spound, Albert M., and Martin. 2,952,303.
- Martin, Joseph, and A. M. Spound; said Martin assor. to said Spound. Automatically projectible headrest. 2,958,374, 11-1-60, Cl. 155-177.
- Martin, Joseph P.: See—
- Keller, Wayne H., and Martin. 2,927,855.
- Martin, Lewis S. Poultry feeder. 2,961,995, 11-29-60, Cl. 119-53.
- Martin, Lloyd: See—
- Browne, Paul W. 2,926,923.
- Browne, Paul W. 2,938,306.
- Martin, Lynn P., to W. A. Sheaffer Pen Co. Writing implement. 2,949,888, 8-23-60, Cl. 120-47.
- Martin, Lynn P., E. D. Thompson, R. L. Brannon, and L. W. Ross, to W. A. Sheaffer Pen Co. Writing implement. 2,949,887, 8-23-60, Cl. 120-42.03.
- Martin, Marian S. Firearm supported camera mount. 2,943,547, 7-5-60, Cl. 95-12.
- Martin, Marvin M.: See—
- Parham, Charles L., Jr., and Martin. 2,924,860.
- Martin, Merle E.: See—
- Ghiselin, William F., Jr., Martin, and Smith. 2,964,697.
- Martin, Paul A., to The Maytag Co. Indexing interval timer. 2,959,646, 11-8-60, Cl. 200-38.
- Martin, Paul S., to Federal Pacific Electric Co. Multi-pole circuit breakers. 2,923,795, 2-2-60, Cl. 200-116.
- Martin, Paul S. Traffic monitoring systems. 2,927,837, 3-8-60, Cl. 346-107.
- Martin, Philip W., and R. W. Pringle. X-ray analysis of geological formations. 2,923,824, 2-2-60, Cl. 250-71.
- Martin, Philip W., R. W. Pringle, and K. I. Roulston. Spectral analysis of materials. 2,965,737, 12-20-60, Cl. 250-83.3.
- Martin Processing Co., Inc.: See—
- Hermes, Julius. 2,938,811.
- Martin, Ralph. Safety rail for pediatric platforms. 2,963,714, 12-13-60, Cl. 5-331.
- Martin, Raymond S., to Fieldcrest Mills, Inc. Stop motion for tight and loose warps. 2,957,498, 10-25-60, Cl. 139-358.
- Martin, Richard H., Jr., to Monsanto Chemical Co. Process for the suspension polymerization of vinyl halides. 2,957,857, 10-25-60, Cl. 260-92.8.
- Martin, Richard L., to Jersey Production Research Co. Subsurface formation tester. 2,951,538, 9-6-60, Cl. 166-162.
- Martin, Robert A.: See—
- Onksen, George W., Miller, Griner, Martin, and Skinner. 2,937,250.
- Martin, Robert C.: See—
- Mueller, Fritz K., and Martin. 2,926,530.
- Martin, Robert C., and W. T. Abel, to The Dow Chemical Co. Copper and iron containing scale removal from ferrous metal. 2,959,555, 11-8-60, Cl. 252-149.
- Martin, Robert M. Furniture leg build up. 2,933,850, 4-26-60, Cl. 45-139.
- Martin, Robert W., to Shell Development Co. Sulfur-containing products and their preparation. 2,926,158, 2-23-60, Cl. 260-79.
- Martin, Robert W., to Physical Measurements Corp. Linear accelerometer. 2,945,378, 7-19-60, Cl. 73-497.
- Martin, Robert W., and R. T. Holm, to Shell Oil Co. Polyepoxy-substituted aromatic compounds and polymers. 2,938,875, 5-31-60, Cl. 260-2.
- Martin, Robert W., and C. E. Pannell, to Shell Oil Co. Ethers of epoxy-substituted phenols and their polymers. 2,965,607, 12-20-60, Cl. 260-47.
- Martin, Robert W., and C. G. Schwarzer, to Shell Oil Co. Ethers of epoxy-substituted polyhydric phenols and their polymers. 2,965,608, 12-20-60, Cl. 260-47.
- Martin, Russell S. Adjustable eaves trough supports. 2,925,976, 2-23-60, Cl. 248-48.2.
- Martin, Samuel M., to Western Electric Co., Inc. Apparatus for unloading an article from a turntable. 2,932,412, 4-12-60, Cl. 214-1.
- Martin, Samuel M., to Western Electric Co., Inc. Apparatus for collecting strands. 2,936,509, 5-17-60, Cl. 28-21.
- Martin, Samuel M., to Western Electric Co., Inc. Apparatus for taking up and supplying strand material. 2,944,746, 7-12-60, Cl. 242-25.
- Martin, Samuel W., to Pitney-Bowes, Inc. Mail stacking device. 2,926,910, 3-1-60, Cl. 271-87.
- Martin Senour Co., The: See—
- Logan, James E., Russell, and Willis. 2,923,438.
- Martin, Stephen, to Pacific Semiconductors, Inc. Crystal pulling apparatus and method. 2,962,363, 11-29-60, Cl. 23-301.
- Martin, Sterling B. Frankfurter oven. 2,926,655, 3-1-60, Cl. 126-21.
- Martin, Sterling T.: See—
- Spracklen, Stanford B., Martin, Rogers, Capehart, Fertig, and Fellows. 2,933,600.
- Martin, Stuart T., to Sylvania Electric Products Inc. Semiconductor mount and method. 2,930,107, 3-29-60, Cl. 29-253.
- Martin, Tellis A., to General Aniline & Film Corp. Dye compositions containing cobalt phthalocyanine phenyl sulfones. 2,953,574, 9-20-60, Cl. 260-314.5.



- Martin, Thomas B.: *See*—  
 Alsworth, Charles C., and Martin. 2,956,585.  
 Shapiro, Henry, Martin, and Foster. 2,928,652.
- Martin, Thomas B. Well shooting. 2,921,519, 1-19-60, Cl. 102-21.4.
- Martin, Thomas B. Method of making cores for casting bladed members. 2,946,104, 7-26-60, Cl. 22-19.4.
- Martin, Walter O. Loading and unloading system for liquids. 2,934,102, 4-26-60, Cl. 141-21.
- Martin, William B.: *See*—  
 Carbon, John A., Martin, and Swett. 2,921,966.  
 Carbon, John A., Martin, and Swett. 2,956,076.  
 Carbon, John A., Martin, and Swett. 2,956,077.  
 Carbon, John A., Martin, and Swett. 2,962,514.
- Martin, William B., and L. R. Swett, to Abbott Laboratories. Isopropylhydrazine derivatives. 2,928,875, 3-15-60, Cl. 260-55.7.
- Martin, William E.: *See*—  
 Bloom, Judith D. 2,930,430.
- Martin, William E., to United States of America, Navy. Synthetic placement of a simulated target in space. 2,929,995, 3-22-60, Cl. 324-15.8.
- Martin, William E., to Radio Corp. of America. Gas tube circuits. 2,930,935, 3-29-60, Cl. 315-24.1.
- Martin, William E. Garment hanger. 2,940,648, 6-14-60, Cl. 223-9.5.
- Martin, William L.: *See*—  
 Dew, John N., and Martin. 2,954,218.
- Endicott, Clarence J., Martin, and Lowenthal. 2,954,323.
- Martin, William O. Journal lubricator. 2,964,362, 12-13-60, Cl. 308-8.7.
- Martin, William S.: *See*—  
 Steel, John E., and J. 2,956,103.
- Martin, William T., to Beech-Nut Life Savers, Inc. Machines for unloading jars or the like from cartons. 2,935,217, 5-3-60, Cl. 214-31.1.
- Martin, William T., to Celanese Corp. of America. Spindle tapes. 2,939,270, 6-7-60, Cl. 57-10.4.
- Martindell, Frank: *See*—  
 Bass, George E., Martindell, and Emerson. 2,954,010.
- Martineau, Arthur G., Jr. Liquid container and applicator. 2,945,252, 7-19-60, Cl. 15-13.6.
- Martineau, William K. Trailer for transporting irrigation conduit. Re. 24,867, 9-6-60, Cl. 280-6.3.
- Martinez, Eugene F., to Health-Mor, Inc. Filter demonstration device for suction cleaner. 2,930,147, 3-29-60, Cl. 35-4.9.
- Martinez, Eugene F., to Health-Mor, Inc. Suction cleaner tool holder construction. 2,935,760, 5-10-60, Cl. 15-32.3.
- Martinez, Thomas W.: *See*—  
 Ayers, George W., Krewer, Martinez, and Hutchings. 2,954,396.
- Brennan, Elmer W., Fronczak, and Martinez. 2,965,567.
- Remes, Nathaniel L., and Martinez. 2,927,125.
- Remes, Nathaniel L., Martinez, and Fronczak. 2,921,900.
- Remes, Nathaniel L., Martinez, and Hutchings. 2,936,325.
- Martinez, Thomas W., to The Pure Oil Co. Grease composition thickened with a metal N-substituted carbamate. 2,957,826, 10-25-60, Cl. 252-33.6.
- Martinez, Thomas W., L. E. Hutchings, G. W. Ayers, and W. A. Krewer, to The Pure Oil Co. Stabilization of carbamate esters and extraction of aromatic hydrocarbons therewith. 2,954,397, 9-27-60, Cl. 260-48.2.
- Martinez, Thomas W., and E. W. Brennan, and E. T. Fronczak, to The Pure Oil Co. Extreme pressure lithium greases. 2,959,543, 11-8-60, Cl. 252-32.7.
- Martinez, Thomas W., E. W. Brennan, and E. T. Fronczak, to The Pure Oil Co. Agglomerated inorganic gelling agents for oleaginous vehicles. 2,960,467, 11-15-60, Cl. 252-2.8.
- Martinelli, Anthony J.: *See*—  
 Hyatt, Robert C., and Martinelli. 2,920,047.
- Hyatt, Robert C., and Martinelli. 2,965,581.
- Martinelli, Anthony J., to General Aniline & Film Corp. Color stabilization of polyvinyl alkyl ether-halogenated solvent systems with a hydrogen acceptor from the group consisting of barium ricinoleate and cadmium  $\alpha$ -ethyl caproate. 2,964,485, 12-13-60, Cl. 260-23.
- Martinelli, Charlotta A.: *See*—  
 Martinelli, Raymond C., and Miller. 2,948,516.
- Martinelli, Raymond C., deceased (by C. A. Martinelli, administratrix), and D. R. Miller, to General Electric Co. Heat exchange system with intermediate heat conductive fluids. 2,948,516, 8-9-60, Cl. 257-19.2.
- Martinet, Jacques R., to Kaiser Aluminum & Chemical Corp. Furnace structures. 2,943,240, 6-28-60, Cl. 266-4.3.
- Martinez, Carlos F.: *See*—  
 Lyle, James E., and Martinez. 2,952,321.
- Martinez, Eugene: *See*—  
 Reibel, Robert H., Martinez, and Kapilow. 2,923,195.
- Martinez, Miguel. Device for lifting heavy equipment. 2,958,508, 11-1-60, Cl. 254-8.9.
- Martinez, Samuel J., Jr., to The Dow Chemical Co. Well bore perforating apparatus. 2,955,533, 10-11-60, Cl. 102-21.8.
- Marting, Sam B., Sr.: *See*—  
 Kelley, Howard W., and Marting. 2,966,135.
- Martino, Carlo F.: *See*—  
 Schroeder, Vernon W., and Martino. 2,962,463.
- Martinson, Carl R.: *See*—  
 Marotta, Ralph, and Martinson. 2,927,863.
- Martinson, Edwin O., to Koehring Co. Self-charging mixing and dispensing apparatus. 2,926,796, 3-1-60, Cl. 214-2.
- Martinson, Edwin O., to Koehring Co. Mobile asphalt plant. 2,945,683, 7-19-60, Cl. 259-15.9.
- Martinson Machine Co.: *See*—  
 Norquist, Harry H., and Gilbert. 2,957,668.
- Marton, Andrew, to Wilkinson Chutes, Inc. Chute, hopper door or the like and controls therefor. 2,922,203, 1-26-60, Cl. 20-16.
- Martt, Ernest C.: *See*—  
 Breeding, Harold A., and Martt. 2,950,417.
- Martt, Ernest C., D. E. Beeninga, and L. J. Smialek, to General Electric Co. Double ended high pressure discharge lamp. 2,924,731, 2-9-60, Cl. 313-4.8.
- Martuch, Leon P., to Scientific Anglers, Inc. Variable strand coating device. 2,960,062, 11-15-60, Cl. 118-10.2.
- Martuch, Leon P., to Scientific Anglers, Inc. Stripping apparatus. 2,960,063, 11-15-60, Cl. 118-10.2.
- Marulli, Ernesto C. Bottle opener with cap retainer. 2,924,133, 2-9-60, Cl. 81-3.1.
- Maruman Co. Ltd.: *See*—  
 Sasaki, Yoshio. 2,957,303.
- Marvalaud, Inc.: *See*—  
 Bell, James F. 2,929,242.
- Marvel, Carl S., and R. Schwen, to United States of America, Agriculture. Hydronopyl acrylate, polymeric derivatives thereof, and method for producing the same. 2,929,806, 3-22-60, Cl. 260-80.7.
- Marvel Equipment Corp.: *See*—  
 Juculano, Theodore C. 2,962,310.
- Marvel Specialty Co., Inc.: *See*—  
 Fuqua, Robert E. 2,964,221.
- Marvel Umbrella Frames, Inc.: *See*—  
 Norkin, Morris. 2,929,388.
- Marvin, Edgar S.: *See*—  
 O'Brien, Robert F., and Marvin. 2,936,685.
- Marvin Electric Mfg. Co.: *See*—  
 Bobrick, Mitchell. 2,922,030.
- Bobrick, Mitchell. 2,929,648.
- Bobrick, Mitchell. 2,963,255.
- Feig, Jerome H. 2,929,920.
- Marvin, Henry H., Jr., to General Electric Co. Hermetically sealed dynamoelectric machine. 2,935,859, 5-10-60, Cl. 62-49.8.
- Marvin, Orrin F. Recovery of metal values from complex ores. 2,927,017, 3-1-60, Cl. 75-10.5.
- Marvin, Orrin F., to A. E. Butterfield, and A. K. Swann. Method for the recovery of uranium, selenium and molybdenum. 2,949,339, 8-16-60, Cl. 23-14.5.
- Marwick, Ian J.: *See*—  
 Duffy, Edward K., and Marwick. 2,934,587.
- Marwil, Stanley J.: *See*—  
 Engle, Charles J., and Marwil. 2,923,151.
- Marwil, Stanley J., and C. J. Engle, to Phillips Petroleum Co. Treatment of well drilling mud. 2,919,898, 1-5-60, Cl. 255-1.8.
- Marx, Graham E.: *See*—  
 Walter, John M., and Marx. 2,940,368.
- Marx, Georg F., to Telefunken G.m.b.H. Electrode structure. 2,945,152, 7-12-60, Cl. 313-35.0.
- Marx, Michael F.: *See*—  
 Gaynor, Frank A., and Marx. 2,932,472.
- Smith, Leland L., and Marx. 2,966,486.
- Marx, Michael F., to General Electric Co. Constant output control system for aircraft and the like. 2,941,139, 6-14-60, Cl. 318-44.6.
- Marx, Paul F., to Dresser Industries, Inc. Protective device for insulating coupling in pipe line. 2,959,692, 11-8-60, Cl. 307-9.5.
- Marx, Ulrich F., to Wilmot-Breeden Ltd. Electro-deposition of nickel. 2,961,386, 11-22-60, Cl. 204-4.9.
- Marx, Walter S., Jr. Method for preparing art copy for relief or offset printing. 2,959,484, 11-8-60, Cl. 96-4.5.
- Marxer, Adrian: *See*—  
 Druey, Jean, and Marxer. 2,960,504.
- Marxer, Adrian, to Ciba Pharmaceutical Products Inc. New piperidinium compounds. 2,945,032, 7-12-60, Cl. 260-247.5.
- Mary, Francis J., to Electricite de France. Fire-boxes operating on atomized fuel. 2,944,494, 7-12-60, Cl. 110-16.5.
- Mary, Francis J., to Electricite de France. Fire-boxes operating on atomized fuel. 2,944,531, 7-12-60, Cl. 122-4.
- Maryland Shipbuilding and Drydock Co.: *See*—  
 Parkinson, Russell W. 2,956,784.
- März, Otto, to Firma Metzeler Gummiwerk A.G. Boat. 2,962,732, 12-6-60, Cl. 9-2.
- Marzili, Mario P. Swinging saw having a readily positionable mount. 2,957,505, 10-25-60, Cl. 143-4.6.
- Marzin, Charles C., M. A. Chappey, and P. M. Lucas. Electronic concentrator. 2,951,907, 9-6-60, Cl. 179-1.8.
- Marzocchi, Alfred, and N. S. Janetos, to Owens-Corning Fiberglas Corp. Plastics and laminates formed of glass fibers and epoxy resins. 2,931,739, 4-5-60, Cl. 117-12.6.
- Marzocchi, Alfred, and R. F. Caroselli, to Owens-Corning Fiberglas Corp. Treated glass fibers and compositions for use in same. 2,938,812, 5-31-60, Cl. 117-12.6.
- Marzocchi, Alfred, and N. S. Janetos, to Owens-Corning Fiberglas Corp. Treatments for fibrous glass used to reinforce resins. 2,951,772, 9-6-60, Cl. 117-12.6.



- Marzocchi, Alfred, and M. R. Alexander, deceased (by J. E. Alexander, administratrix), to Owens-Corning Fiberglass Corp. Glass fiber yarns and compositions used in the manufacture of same. 2,958,114, 11-1-60, Cl. 28-80.
- Marzocchi, Alfred, A. W. Brown, and H. C. Blankmeyer, to Owens-Corning Fiberglass Corp. Luminescent panels. 2,959,701, 11-8-60, Cl. 313-108.
- Marzocchi, Alfred, G. E. Rammel, and C. W. Charon, to Owens-Corning Fiberglass Corp. Apparatus for manufacturing bonded fibrous glass slivers. 2,961,821, 11-29-60, Cl. 57-35.
- Masbach, Jean: *See*—  
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- Mascaretti, Leo T.,  $\frac{1}{2}$  to A. J. Hansmann. Paint equipment rack for attaching to a paint tray. 2,950,012, 8-23-60, Cl. 211-65.
- Mascaro, Anthony. Pump. 2,925,045, 2-16-60, Cl. 103-149.
- Maschinen & Apparatebau K. Laier: *See*—  
Meyer, Rudolph. 2,940,326.
- Maschinenfabrik Augsburg-Nürnberg A.G.: *See*—  
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Leitner, Alfred. 2,937,848.  
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Meurer, Siegfried. 2,942,592.  
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- Maschinenfabrik August Herbolt: *See*—  
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- Maschinenfabrik Benninger A.-G.: *See*—  
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- Maschinenfabrik Gebrüder Holler Offene Handelsgesellschaft: *See*—  
Höller, Hans, and Breidenbach. 2,922,641.
- Maschinenfabrik Goebel G.m.b.H.: *See*—  
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- Maschinenfabrik Peter Pfenningsberg G.m.b.H.: *See*—  
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- Maschinenfabrik Ruti A.G. vormals Caspar Honegger: *See*—  
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- Maschinenfabrik Stahlkontor Weser G.m.b.H.: *See*—  
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- Maschinenfabrik Winkler, Fallert & Co. A.G.: *See*—  
Heimlicher, Paul, and Meierhofer. 2,950,805.
- Masci, Joseph N.: *See*—  
Eberl, James J., Stonehill, and Masci. 2,928,717.  
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- Masel, Marvin: *See*—  
Eisen, Theodore, Masel, and Franchi. 2,955,215.
- Masel, Marvin, to The Bendix Corp. Trim tab servomotor control system. 2,957,652, 10-25-60, Cl. 244-77.
- Masel, Marvin, to The Bendix Corp. Aircraft motor control system. 2,958,029, 10-25-60, Cl. 318-489.
- Maselli, George P.: *See*—  
Walker, Russel, Kelly, Callahan, Alvine, and Maselli. 2,966,669.
- Mash, Derek H., to Thorn Electrical Industries Ltd. Electro-luminescent device. 2,928,974, 3-15-60, Cl. 313-108.
- Mash, Derek H. Switching devices. 2,966,616, 12-27-60, Cl. 315-316.
- Mashinter, William H. Diaphragm type pump. 2,948,223, 8-9-60, Cl. 103-44.
- Mashio, Fujio, and S. Kato, to Fine Organics Inc. Method of producing hydroperoxides. 2,955,996, 10-11-60, Cl. 204-158.
- Masin, William, and I. P. Pearson, to Carrier Corp. Air conditioning unit. 2,937,588, 5-24-60, Cl. 98-38.
- Masland, C. H., & Sons: *See*—  
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Hoeselbarth, Frank W. E. 2,932,328.  
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MacCaffray, Rex S., Jr. 2,943,470.  
MacCaffray, Rex S., Jr. 2,949,754.  
MacCaffray, Rex S., Jr. 2,949,755.  
MacCaffray, Rex S., Jr. 2,953,913.  
MacCaffray, Rex S., Jr. 2,959,947.  
Masland, Charles H., 2nd. 2,965,054.
- Masland, Charles H., 2nd, to C. H. Masland & Sons. Needling fabric, method and apparatus. 2,965,054, 12-20-60, Cl. 112-79.
- Maslin, Albert J., and P. Narbut, to Westinghouse Electric Corp. Electrical apparatus. 2,961,476, 11-22-60, Cl. 174-15.
- Maslow, Louis. Shelving unit. 2,919,816, 1-5-60, Cl. 211-148.
- Maslow, Louis. Knockdown shelving unit. 2,919,817, 1-5-60, Cl. 211-148.
- Maso, Henry F., and J. N. Masci, to Johnson & Johnson. Rupturable seal package with sterilized moist contents. 2,954,116, 9-27-60, Cl. 206-56.
- Mason, Albert J.: *See*—  
Havens, Carl B., Mason, and Widiger. 2,935,490.
- Mason, Alvie E.,  $\frac{1}{2}$  to R. J. Warren. Axial-impact type of hand tool for removing dents from metal parts. 2,941,429, 6-21-60, Cl. 81-15.
- Mason-Carlton Tool Co.: *See*—  
Mason, James C. 2,950,639.
- Mason, Charles C.: *See*—  
Long, Ballard E., Jr. 2,960,270.
- Mason, Collins: *See*—  
Polk, Isaac H. 2,927,439.
- Mason, Donald F., G. Thodos, and L. F. Stutzman, to Strike Investment Co. Apparatus for determining the production potential of wells. 2,937,527, 5-24-60, Cl. 73-393.
- Mason, Edward A., and C. M. Cobb, to United States of America, Atomic Energy Commission. Method for producing thorium tetrachloride. 2,928,721, 3-15-60, Cl. 23-145.
- Mason, Edward A., and C. M. Cobb, for Ionics, Inc. Method for producing titanium tetrachloride. 2,928,724, 3-15-60, Cl. 23-87.
- Mason Electric Corp.: *See*—  
Mason, Howard F. 2,945,927.  
Mason, Howard F. 2,945,969.  
Mason, Howard F. 2,951,130.  
Mason, Howard F. 2,952,750.  
Mason, Howard F. 2,965,725.
- Mason, Elliott W.: *See*—  
Holt, Marshall, Mason, and Murtland. 2,941,569.
- Mason, Emerson B.: *See*—  
Packard, Lyle E., Scott, Mason, and Soderquist. 2,924,718.
- Mason, Francis G., to Aladdin Industries Inc. Method of making a slug tuner. 2,942,333, 6-28-60, Cl. 29-155.37.
- Mason, Francis G., and H. T. Lyman, to Aladdin Industries, Inc. Tuner with primary coil on moving sleeve. 2,925,495, 2-16-60, Cl. 250-40.
- Mason, Frederick J.: *See*—  
Mason, William G. and F. J. 2,945,446.
- Mason, Frederick P., to Creed & Co. Ltd. Circuits for providing a variable bias potential. 2,954,428, 9-27-60, Cl. 178-71.
- Mason, Frederick P., and L. O. Marden, to Creed & Co. Ltd. Facsimile apparatus. 2,966,389, 12-27-60, Cl. 346-138.
- Mason, George, to Modern Plastics Research and Sales, Inc. Plastic articles of controlled specific gravity having a wear-resistant outer surface and method of preparing the same. 2,944,821, 7-12-60, Cl. 273-82.
- Mason, George W.: *See*—  
Peppard, Donald F., and Mason. 2,955,913.
- Mason, Harold J. Process of bonding cast metal and plastic. 2,936,490, 5-17-60, Cl. 18-55.1.
- Mason, Harvey W., and J. S. Alford, to General Electric Co. Damping means. 2,957,675, 10-25-60, Cl. 253-77.
- Mason, Howard F., to Mason Electric Corp. Rotary switch with common advancing and pressure springs. 2,945,927, 7-19-60, Cl. 200-66.
- Mason, Howard F., to Mason Electric Corp. Rotary switching apparatus. 2,945,969, 7-19-60, Cl. 310-37.
- Mason, Howard F., to Mason Electric Corp. Rotary switch. 2,951,130, 8-30-60, Cl. 200-67.
- Mason, Howard F., to Mason Electric Corp. Motor driven rotary switch. 2,952,750, 9-13-60, Cl. 200-26.
- Mason, Howard F., to Mason Electric Corp. Rotary motor driven rotary switch. 2,965,725, 12-20-60, Cl. 200-26.
- Mason, James A., to Molins Machine Co. Ltd. Tobacco cutting machines. 2,957,508, 10-25-60, Cl. 146-119.
- Mason, James C., to Mason-Carlton Tool Co. Power operated pipe wrench. 2,950,639, 8-30-60, Cl. 81-53.
- Mason, James N., to Boston Woven Hose and Rubber Co. Elastomeric floor covering. 2,941,913, 6-21-60, Cl. 154-49.
- Mason, John C., deceased, by M. M. Mason, administratrix. Combination valve and gauge assembly. 2,936,000, 5-10-60, Cl. 137-557.
- Mason, John C., deceased; Mrs. J. C. Mason, administratrix. Valve servicing apparatus. 2,951,281, 9-6-60, Cl. 29-213.
- Mason, John D., and G. A. Mitchell; said Mitchell assor. to said Mason. Golf practice device. 2,937,875, 5-24-60, Cl. 273-195.
- Mason, John E. Power-driven paper-feeding mechanism for wrapping machines. 2,930,171, 3-29-60, Cl. 53-74.
- Mason, Leslie F. A., to Ilford Ltd. Colour photography. 2,923,627, 2-2-60, Cl. 96-56.
- Mason, Lindon D.: *See*—  
Horton, Earl L., and Mason. 2,928,424.
- Mason, Lowell M., to General Electric Co. Machine for winding and inserting coils. 2,934,099, 4-26-60, Cl. 140-92.1.
- Mason, Lowell M., to General Electric Co. Coll winding machine. 2,934,280, 4-26-60, Cl. 242-1.1.
- Mason, Marion M.: *See*—  
Mason, John C. 2,936,000.
- Mason, Mrs. John C.: *See*—  
Mason, John C. 2,951,281.
- Mason, Ralph B.: *See*—  
Gladrow, Elroy M., Mason, Kimberlin, and Arey. 2,927,072.
- Mason, Ralph B., to Esso Research and Engineering Co. Selective adsorbent char for separation of straight chain from non-straight chain hydrocarbons. 2,944,031, 7-5-60, Cl. 252-421.
- Mason, Ralph B., W. F. Arey, Jr., and C. N. Kimberlin, Jr., to Esso Research and Engineering Co. Production of middle distillate. 2,938,855, 5-31-60, Cl. 208-71.
- Mason, Richard K.: *See*—  
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- Mason, Robert B., to Plax Corp. Method for blowing plastic bottles. 2,935,764, 5-10-60, Cl. 18-55.



- Mason, Robert S.: *See*—  
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- Mason, Russell I., to United States of America, Navy. Acoustic decoy. 2,938,483, 5-31-60, Cl. 114-20.
- Mason, Thomas F. Apparatus and method of making fabric covered weather strips for vehicle doors and product. 2,922,204, 1-26-60, Cl. 20-69.
- Mason, Thomas F. Eye-removing potato peeling machine. 2,925,839, 2-23-60, Cl. 146-43.
- Mason, Walter A. Product and method for coating metals with copper-tellurium compound. 2,933,422, 4-19-60, Cl. 148-6,24.
- Mason, Warren P.: *See*—  
Courtney-Pratt, Jeffrey S., and Mason. 2,963,911.
- Mason, Warren P., to Bell Telephone Laboratories, Inc. Avoidance of fatigue effects under dynamic strain. 2,936,612, 5-17-60, Cl. 73-67.3.
- Mason, Warren P., to Bell Telephone Laboratories, Inc. High frequency electromechanical transducer. 2,939,106, 5-31-60, Cl. 340-10.
- Mason, Warren P., to Bell Telephone Laboratories, Inc. Variable resistance semiconductive devices. 2,939,317, 6-7-60, Cl. 73-134.
- Mason, Warren P., to Bell Telephone Laboratories, Inc. Pre-aging of electrostrictive ceramics. 2,940,158, 6-14-60, Cl. 29-25.35.
- Mason, Warren P., to Bell Telephone Laboratories, Inc. Electromechanical torsional band pass wave filter. 2,955,267, 10-4-60, Cl. 333-71.
- Mason, Willard F.: *See*—  
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- Mason, William: *See*—  
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- Mason, William B.: *See*—  
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- Mason, William C. Warp winding apparatus. 2,940,687, 6-14-60, Cl. 242-158.2.
- Mason, William G.: *See*—  
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- Mason, William G. and F. J. Pressure sensitive reservoir emptying system and apparatus therefor. 2,945,446, 7-19-60, Cl. 103-25.
- Mason, Wylie A., Jr., to International Harvester Co. Uni-cycle trailing plow. 2,959,234, 11-8-60, Cl. 172-678.
- Masonite Corp.: *See*—  
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Lesniak, Frank G. 2,961,041.  
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- Mass, Richard P.: *See*—  
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- Massa, Don J.: *See*—  
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- Massa, Frank, to Cohu Electronics, Inc. Direct recording oscillograph. 2,932,776, 4-12-60, Cl. 317-173.
- Massa, Victor F.: *See*—  
Rudel, Harry W., and Massa. 2,942,588.
- Massacrier, Jean-Marie F., to Societe Civile d'Etude de Procédes de Scellement. Cartridge operated fastening gun. 2,930,041, 3-29-60, Cl. 1-44.5.
- Massar, Julius C., to Networks Electronic Corp. Thermal relay normally closed, with guillotine for opening. 2,934,622, 4-26-60, Cl. 200-114.
- Massar, Julius C., and M. A. Catanesco, to Networks Electronic Corp. Hermetically sealed temperature sensitive non-resettable relay. 2,934,628, 4-26-60, Cl. 200-142.
- Massarani, Elena: *See*—  
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- Massat, Heinz: *See*—  
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- Masse, Fiore A. Masking paper. 2,964,438, 12-13-60, Cl. 154-53.5.
- Massengale, John T.: *See*—  
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Loev, Bernard, and Massengale. 2,957,920.
- Massengill, Robert T. Process of preparing hams. 2,932,060, 4-12-60, Cl. 17-45.
- Massengill, Robert T. Meat cutting apparatus. 2,962,752, 12-6-60, Cl. 17-1.
- Massengill, S. E., Co., The: *See*—  
Leake, Norman H., and Fielden. 2,928,833.
- Masser, Lloyd D., to Neway Equipment Co. Load apportioning tandem suspension structure for vehicles. 2,934,351, 4-26-60, Cl. 280-104.5.
- Massey, Charles E. Roof ventilator. 2,923,225, 2-2-60, Cl. 98-42.
- Massey, Curtis L. Assembly for pumping well fluids. 2,931,304, 4-5-60, Cl. 103-4.
- Massey-Ferguson (Australia) Ltd.: *See*—  
Douglas, Jack E., and Wood. 2,953,886.  
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- Massey-Ferguson (Great Britain) Ltd.: *See*—  
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- Massey-Ferguson Inc.: *See*—  
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- Massey-Harris-Ferguson (Sales) Ltd.: *See*—  
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- Massey, John B. Sun visors. 2,948,566, 8-9-60, Cl. 296-97.
- Massey, Lester G.: *See*—  
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- Massey, Marshall N., and M. E. La Rue. Cotton cleaner and separator. 2,929,112, 3-22-60, Cl. 19-72.
- Massey, Paul D., to Grip Nut Co. Brake beam safety support and universal support bracket therefor. 2,954,105, 9-27-60, Cl. 188-210.
- Massie, Philip E.: *See*—  
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Roney, Raymond B., and Massie. 2,961,579.
- Massie, Thomas. Rock crusher. 2,958,473, 11-1-60, Cl. 241-108.
- Massie, William K.: *See*—  
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- Massillon-Cleveland-Akron Sign Co., The: *See*—  
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Kles, Elliott J. 2,954,627.  
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- Massiot, G., & Cie: *See*—  
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- Massmann, Werner F.: *See*—  
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Patin, Albert C., and Massmann. 2,944,770.
- Masson, Claudius. Fabric printing machines. 2,959,122, 11-8-60, Cl. 101-126.
- Mast, Fred A., to Gesellschaft Zur Forderung der Forschung an der Eidg. Technischen Hochschule. Device for reproducing a television picture with cathode-ray tube and extraneous source of light. 2,927,959, 3-8-60, Cl. 178-7.5.
- Mast, Laban. Bitumen-impregnated-foam packing material. 2,964,424, 12-13-60, Cl. 117-98.
- Mastabar Mining Equipment Co. Ltd.: *See*—  
Tebb, Bernard, and Perry. 2,959,922.
- Mastantuono, John F., and F. Vilardi. Grass catcher means. Re. 24,877, 9-27-60, Cl. 56-202.
- Masten, John K. Traffic signal system for non-stop networks. 2,926,332, 2-23-60, Cl. 340-40.
- Masten, John K. System of traffic signals for non-stop networks. 2,926,333, 2-23-60, Cl. 340-40.
- Mastenbrook, Henry J., to United States of America, Navy. System for inflating balloons and injecting conductive reflectors therein. 2,919,725, 1-5-60, Cl. 141-48.
- Master Etching Machine Co.: *See*—  
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- Master Lock Co.: *See*—  
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- Master Mfg. Co.: *See*—  
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- Master Power Corp.: *See*—  
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- Master Pneumatic Tool Co., Inc.: *See*—  
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- Master Screen Printing Equipment Corp.: *See*—  
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- Master Vibrator Co.: *See*—  
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- Masters, Albert T.: *See*—  
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- Masters, Albert M. Mounting construction and the combination thereof with a board. 2,947,093, 8-2-60, Cl. 35-65.
- Masters, Charles R.: *See*—  
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- Masters, George E. Hanger clip. 2,944,781, 7-12-60, Cl. 248-228.
- Masters, John E.: *See*—  
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Hicks, Darrell D., Masters, and Belanger. 2,934,506.
- Masters, John E., D. D. Hicks, and W. J. Belanger, to Devco & Raynolds Co. Epoxide resin compositions. 2,934,521, 4-26-60, Cl. 260-47.
- Masters, Katherine K. Woven fabric. 2,931,398, 4-5-60, Cl. 139-423.
- Masters, Richard M., to National Research Corp. Method of forming stiff threads. 2,942,300, 6-28-60, Cl. 18-47.5.
- Masters, Robert W., to The Ohio State University Research Foundation. Traveling wave antenna. 2,947,988, 8-2-60, Cl. 343-742.
- Masterson, Frank H., to International Business Machines Corp. Semiconductor device. 2,939,058, 5-31-60, Cl. 317-236.
- Mastic Tile Corp. of America: *See*—  
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- Mastick, Donald F., to United States of America, Atomic Energy Commission. Process of reducing plutonium to tetravalent state. 2,936,213, 5-10-60, Cl. 23-14.5.
- Mastin, Robert E., to La Favorite Rubber Mfg. Co. Mold for making a spiral threaded rubber molded article. 2,949,636, 8-23-60, Cl. 18-42.
- Mastney, Edward J.: *See—*  
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- Mastrandrea, Anthony. Tread elevating attachment for accelerator pedal. 2,937,542, 5-24-60, Cl. 74-563.
- Mastrobattista, Alex A., H. J. Bieling, and W. B. Peters, to Johns-Manville Corp. Split ring packing. 2,930,643, 3-29-60, Cl. 288-2.
- Masuch, Ferdinand: *See—*  
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- Masurel Mills, Inc.: *See—*  
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- Matare, Herbert R., to Sylvania Electric Products Inc. Semiconductor oscillator. 2,944,167, 7-5-60, Cl. 307-88.5.
- Matarese, John, to Sylvania Electric Products Inc. Commutator and modulator. 2,935,647, 5-3-60, Cl. 315-169.
- Matarese, John, to Sylvania Electric Products Inc. Electroluminescent device. 2,951,970, 9-6-60, Cl. 315-169.
- Matchett, Samuel J., Jr., and E. C. Raney, to Ranco Inc. Valve mechanism. 2,927,606, 3-8-60, Cl. 137-608.
- Matelan, Raymond F. Ring holders. 2,954,593, 10-4-60, Cl. 24-13.
- Materials Inc.: *See—*  
Lovegreen, Harold A. 2,958,494.
- Matern, Rudolph A. Carton with sliding closure flap. 2,931,554, 4-5-60, Cl. 229-17.
- Matge, Pierre P.: *See—*  
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- Math, Fritz. Electrical wire resistors and method of manufacturing the same. 2,933,804, 4-26-60, Cl. 29-155.63.
- Mathamel, Flavius A., to Burroughs Corp. Visual indicator system. 2,962,698, 11-29-60, Cl. 340-168.
- Mathams, John A.: *See—*  
Forbes, Donald H. S., and Mathams. 2,928,395.
- Matheisel, Rudolph A., and C. H. Cooke, to The Martin Co. Launcher. 2,922,602, 1-26-60, Cl. 244-63.
- Matheisel, Rudolph A. Method and apparatus for loading a water vessel. 2,930,495, 3-29-60, Cl. 214-15.
- Matheny, James L.: *See—*  
Miller, Meral O., and Matheny. 2,936,845.  
Miller, Meral O., Matheny, and Scott. 2,938,593.
- Matheny, William F., and W. F. Matheny, Jr., to Arrow Industrial Mfg. Co. Method of forming finned tubing. 2,956,335, 10-18-60, Cl. 29-157.3.
- Matheny, William F., Jr.: *See—*  
Matheny, William F., and W. F. Matheny, Jr. 2,956,335.
- Mather, Clifford: *See—*  
Harris, David P., and Mather. 2,936,486.
- Mather, Glen E., and J. C. Green, to Rockwell-Standard Corp. Spring device. 2,932,506, 4-12-60, Cl. 267-44.
- Mather, Harold C.: *See—*  
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- Mather, Harold C., to Midwest Mfg. Corp. Refrigerator shelf construction. 2,949,193, 8-16-60, Cl. 211-143.
- Mather, John: *See—*  
Cuddington, Kenneth S., and Mather. 2,921,016.
- Mather, Logan W.: *See—*  
Fisher, Harry C., and Mather. 2,920,991.
- Mather & Platt Ltd.: *See—*  
Mather, William L., and Wolstenholme. 2,934,072.
- Mather, William L., and H. Wolstenholme, to Mather & Platt Ltd. Pea and bean depodding machines. 2,934,072, 4-26-60, Cl. 130-30.
- Matherne, Emile P. Automatic mechanical door opening and closing mechanism. 2,931,643, 4-5-60, Cl. 268-31.
- Matherne, Joseph L., L. Ewing and R. Ewing, to McGraw-Edison Co. Impregnated fibrous member. 2,966,173, 12-27-60, Cl. 138-78.
- Mathers, Harry W.: *See—*  
Kramer, Noah H., and Mathers. 2,926,339.
- Mathes, Kenneth N., and H. I. Morgan, to General Electric Co. Irradiated polyethylene and products therefrom. 2,929,744, 3-22-60, Cl. 117-218.
- Mathes, Wilhelm: *See—*  
Steinhards, Arnolds, and Mathes. 2,924,604.  
Von Haxthausen, Elmar F., Mathes, and Wolf. 2,937,118.
- Matheson, Leslie R., to United States of America, Air Force. Antenna feed adjusting means. 2,922,130, 1-19-60, Cl. 333-98.
- Mathews, Abe W., and J. J. Banke. Apparatus for forming pellets from pulverulent material. 2,946,086, 7-26-60, Cl. 18-1.
- Mathews Co., The: *See—*  
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- Mathews Conveyor Co.: *See—*  
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Raynor, Warren S. 2,946,465.
- Mathews, Frederick J. Heating device. 2,945,114, 7-12-60, Cl. 219-43.
- Mathews, George J., to A. D. Corrado. Supporting and dispensing device for canned goods and the like. 2,954,876, 10-4-60, Cl. 211-49.
- Mathews, George P.: *See—*  
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- Mathews, George P., to Rockwell-Standard Corp. Cone brake assembly. 2,940,550, 6-14-60, Cl. 188-74.
- Mathews, J. K.,  $\frac{2}{3}$  to A. E. Hickman, and J. W. Gordon, Jr. Cleaning tool for boxes of tool joints. 2,922,174, 1-26-60, Cl. 15-104.1.
- Mathews, John P. Automobile window ventilator. 2,919,638, 1-5-60, Cl. 98-2.
- Mathews, Kenneth C.: *See—*  
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- Mathews, Robert L.: *See—*  
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- Mathews, Robert M.,  $\frac{40}{100}$  to G. W. Parard. Grading table. 2,964,183, 12-13-60, Cl. 209-123.
- Mathewson, Arthur A., Jr., to A. G. Bodine, d.b.a. Bodine Soundrive Co. Earth boring drill. 2,950,901, 8-30-60, Cl. 255-4.4.
- Mathez-Etienne, Lucie A.: *See—*  
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- Mathez, William N., deceased; by L. A. Mathez-Etienne, heir, to Nicolet Watch Co. S.A. Timepiece. 2,925,707, 2-23-60, Cl. 58-76.
- Mathias, Emil A., and W. W. Inglis, to United States of America, Army. Dynamic thrust meter. 2,957,344, 10-25-60, Cl. 73-141.
- Mathies, Richard L. Bottle cap. 2,950,020, 8-23-60, Cl. 215-41.
- Mathiesen, James C.: *See—*  
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- Mathiesen, James C., F. K. Serkland, and W. N. Stark, to General Precision, Inc. Impact switch. 2,953,924, 9-27-60, Cl. 74-2.
- Mathieson, George C. R., to Power Jets (Research & Development) Ltd. Rotary dynamic compressors. 2,933,236, 4-19-60, Cl. 230-114.
- Mathieu, Francois: *See—*  
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- Mathieu, Gaston A., to North American Philips Co., Inc. System for the radio-transmission of information. 2,935,605, 5-3-60, Cl. 250-13.
- Mathieu, Jean: *See—*  
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- Mathis, James F., to Esso Research and Engineering Co. Activation of platinum reforming catalyst. 2,956,007, 10-11-60, Cl. 208-140.
- Mathis, John B., and E. D. Hillebrand, to Geo. D. Roper Corp. Control system for gas burners. 2,939,524, 6-7-60, Cl. 158-141.
- Mathisen, Anders, to Gravinor Mfg. Co. Ltd. Detectors of oil mists and the like. 2,935,909, 5-10-60, Cl. 88-14.
- Mathison, Richard P., D. W. Slaughter, and L. W. Randolph, to California Institute Research Foundation. Voltage-controlled oscillator. 2,945,191, 7-12-60, Cl. 332-16.
- Mathot, Jacques: *See—*  
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- Mathre, Owen B., to E. I. du Pont de Nemours and Co. Production of 3-indoleacetonitrile from indole. 2,927,117, 3-1-60, Cl. 260-319.
- Mathre, Owen B., to E. I. du Pont de Nemours and Co. Process for etching aluminum. 2,965,457, 12-20-60, Cl. 41-42.
- Mathy, Eugene V., and E. J. Cabanaw, to Phillips Petroleum Co. Processing of hydrocarbonaceous materials in the presence of hydrogen. 2,931,768, 4-5-60, Cl. 208-79.
- Matile, Daniel J. End shoe for sickle-type mower. 2,963,845, 12-13-60, Cl. 56-314.
- Matin, Thomas. Non-rotatable advertising plate for a motor vehicle hub cap. 2,954,629, 10-4-60, Cl. 40-129.
- Matkins, Eugene G., to General Motors Corp. Automatic headlamp control circuit. 2,935,646, 5-3-60, Cl. 315-83.1.
- Matkins, Eugene G., to General Motors Corp. Automatic headlight dimmer system. 2,939,052, 5-31-60, Cl. 317-130.
- Matlachowsky, Stefan, to A. H. Schutte. Hydraulic control system for the tools or other movable members of an automatic lathe. 2,924,944, 2-16-60, Cl. 60-54.5.
- Matlack, Albert S.: *See—*  
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- Matlack, Albert S., to Hercules Powder Co. Process for polymerization of olefins. 2,938,020, 5-24-60, Cl. 260-94.9.
- Matlin, Nathaniel A.: *See—*  
Kine, Benjamin B., and Matlin. 2,931,749.
- Matlin, Nathaniel A., and B. B. Kine, to Rohm & Haas Co. Bonded non-woven fibrous products and methods for manufacturing them. 2,923,653, 2-2-60, Cl. 154-101.
- Matoba, Hisashi. Apparatus for producing a pressed pattern in paper. 2,931,064, 4-5-60, Cl. 18-35.
- Matoush, William R., to International Minerals & Chemical Corp. Method for manufacture of aluminum fluoride. 2,920,938, 1-12-60, Cl. 23-88.
- Matschkal, Franz, to J. S. Staedtler. Gripping member for propeller pencils. 2,933,065, 4-19-60, Cl. 120-21.
- Matschkal, Johann, to A. W. Faber-Castell. Fountain pen. 2,953,085, 11-1-60, Cl. 15-134.
- Matson, Raphael F., to Freeport Sulphur Co. Process for separating nickel and zinc from acidic aqueous solution containing nickel, zinc and cobalt. 2,933,370, 4-19-60, Cl. 23-50.
- Matson, Uno A., to Bell Telephone Laboratories, Inc. Transformer system. 2,932,804, 4-12-60, Cl. 333-28.
- Matson, Victor H., Jr.: *See—*  
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- Matsuda, Kamematsu, to Yawata Iron and Steel Co., Ltd. Insulated coating for silicon steel sheet. 2,938,813, 5-31-60, Cl. 117-127.
- Matsuda, Yasuhisa. Shutter for cameras. 2,927,519, 3-8-60, Cl. 93-55.
- Matsu, Masano, to Sumitomo Chemical Co., Ltd. Method for preparing polyene-carboxylic acid derivatives. 2,951,853, 9-6-60, Cl. 260-347.5.
- Matsumoto, Saburo. *See—*
- Yoshida, Nobuyuki. 2,931,072.
- Matsushita, Suekichi. *See—*
- Miya, Kenichi, Sasaki, and Matsushita. 2,955,285.
- Matsushita, Yoshiichi, 50% to Janome Sewing Machine Co., Ltd. Sewing machine. 2,965,055, 12-20-60, Cl. 112-175.
- Matsuura, Harumi H., to Maico Electronics, Inc. Snap coupling between eyeglass temple plate and hearing aid housing. 2,947,822, 8-2-60, Cl. 179-107.
- Matt, Joseph Z., to Armour and Co. Benzylalkyl-2-(1-hydroxy-alkyl)alkyl ammonium chloride compounds. 2,931,833, 4-5-60, Cl. 260-567.6.
- Matt, Richard J. *See—*
- Sellers, Jack D., and Matt. 2,920,147.
- Mattel, Jean I., J. Blaise, and E. Manganne, to Office National d'Etudes et de Recherches Aeronautiques. Acoustical firing indicator. 2,925,582, 2-16-60, Cl. 340-16.
- Mattel Inc. *See—*
- Duncan, Theodore R. 2,956,466.
- Duncan, Theodore R. 2,961,911.
- Matter, Albert J. Levelers for enclosed appliances. 2,932,122, 4-12-60, Cl. 45-139.
- Matter, Albert J. Table coasters with wobble stop. 2,958,978, 11-8-60, Cl. 45-139.
- Matter, George H., to Northrop Corp. Marker. 2,962,826, 12-6-60, Cl. 40-135.
- Matter, Gustave O. Dispensing valve. 2,938,530, 5-31-60, Cl. 137-115.
- Matter, Gustave O. Cutter blade holder. 2,940,170, 6-14-60, Cl. 30-293.
- Matter, Gustave O. Measuring dispenser. 2,952,392, 9-13-60, Cl. 222-440.
- Matteson, Clarence D. Conduit connector. 2,926,026, 2-23-60, Cl. 285-8.
- Matteson, Russell E., to Diamond National Corp. Vertical chute holding device. 2,941,693, 6-21-60, Cl. 221-92.
- Matthaei, George L., to Thompson Ramo Wooldridge Inc. Microwave filter. 2,945,195, 7-12-60, Cl. 333-73.
- Matthaei, George L., to Thompson Ramo Wooldridge Inc. Microwave filter and detector. 2,954,468, 9-27-60, Cl. 250-31.
- Matthaei, George L., and C. F. Eaton, to Thompson Ramo Wooldridge Inc. Filter. 2,937,347, 5-17-60, Cl. 333-73.
- Matthay, George. Combined cleansing applicator and scraper blade. 2,923,018, 2-2-60, Cl. 15-124.
- Matthay, George. Seif playing musical coin bank. 2,952,093, 9-13-60, Cl. 46-3.
- Matthew, Morton P., to Friden, Inc. Calculating machine. 2,922,574, 1-26-60, Cl. 235-63.
- Matthew, Morton P., to Friden, Inc. Remote controlled typewriter. 2,935,171, 5-3-60, Cl. 197-120.
- Matthews, Blake, and A. L. Littleford. Eave trough guards. 2,935,954, 5-10-60, Cl. 108-30.
- Matthews, Charles E. Traction cross-chain for automobile tires. 2,925,844, 2-23-60, Cl. 152-236.
- Matthews, Clell R., to The Dalton Foundries, Inc. Retractable trailer hitch. 2,944,836, 7-12-60, Cl. 280-491.
- Matthews, Donald L. *See—*
- Strang, William J., and Matthews. 2,936,975.
- Matthews, Hugh B., to General Motors Corp. Backlite sunshade. 2,963,316, 12-6-60, Cl. 296-97.
- Matthews, Jas. H., & Co. *See—*
- Devon, Harry J. 2,940,389.
- Matthews, Lyle E. *See—*
- Smith, E. Quimby, Jr., and Matthews. 2,919,544.
- Matthews, Peter P., to The Cyril Bath Co. Safety latch and release devices for wipe forming machines. 2,949,145, 8-16-60, Cl. 153-40.
- Matthews, Robert, and E. W. Kirk, to The Decca Record Co. Ltd. Demodulators. 2,965,849, 12-20-60, Cl. 329-104.
- Matthews, Robert W., to Phillips Petroleum Co. Method and apparatus for producing extruded pipe under internal pressure. 2,948,919, 8-16-60, Cl. 18-1.
- Matthews, Russell B. *See—*
- Deverse, Joseph L., and Matthews. 2,942,478.
- Thornbery, John H., and Matthews. 2,946,376.
- Matthews, Russell B., to Baso Inc. Flow control device. 2,919,858, 1-5-60, Cl. 236-1.
- Matthews, Russell B., to Baso Inc. Temperature responsive control device. 2,920,248, 1-5-60, Cl. 317-131.
- Matthews, Russell B., to Baso Inc. Electromagnetic control apparatus. 2,932,773, 4-12-60, Cl. 317-133.5.
- Matthews, Russell B., to Baso Inc. Circuit-controlling device. 2,936,122, 5-10-60, Cl. 236-9.
- Matthews, Russell B., to Baso Inc. Temperature control apparatus. 2,943,843, 7-5-60, Cl. 257-286.
- Matthews, Russell B., to Baso Inc. Flow control devices. 2,945,502, 7-19-60, Cl. 137-68.
- Matthews, Russell B., to Minnesota Mining and Mfg. Co. Temperature sensitive control apparatus. 2,952,409, 9-13-60, Cl. 236-10.
- Matthews, Russell B., to Baso Inc. Burner control apparatus. 2,953,197, 9-20-60, Cl. 158-131.
- Matthews, Russell B., to Minnesota Mining and Mfg. Co. Temperature indicating device. 2,956,267, 10-11-60, Cl. 340-227.
- Matthews, Russell B., to Minnesota Mining and Mfg. Co. Circuit controlling device. 2,959,713, 11-8-60, Cl. 317-40.
- Matthews, Russell B., to Baso Inc. Control apparatus. 2,962,093, 11-29-60, Cl. 158-128.
- Matthews, Russell R. *See—*
- Herrnstadt, Gerald E., and Matthews. 2,955,446.
- Matthews, Russell R., to The Firth Carpet Co., Inc. Pile fabrics and method of making same. 2,960,750, 11-22-60, Cl. 28-72.
- Matthews, William R. Process and apparatus for molding board in a continuous strip. 2,926,719, 3-1-60, Cl. 154-1.
- Matthey, Roger, to Isico S.A. Shocks cushioning bearing for measuring instrument. 2,919,961, 1-5-60, Cl. 308-159.
- Matthey, Roger, and C. E. Schlatter, to Seitz & Co., and Parechoc S.A. Shock absorbing bearing for timepieces. 2,958,998, 11-8-60, Cl. 58-140.
- Matthias, Lynn H., to Allen-Bradley Co. High voltage air break switch. 2,953,666, 9-20-60, Cl. 200-147.
- Matthias, Robert H. *See—*
- Earl, George W. 2,957,524.
- Matthiesen, Theodore. Fishing reel. 2,941,748, 6-21-60, Cl. 242-84.2.
- Matthysse, Irving F. *See—*
- O'Keefe, Robert A. J., and Matthysse. 2,951,892.
- Matthysse, Irving F., to Burndy Corp. Connector. 2,942,898, 6-28-60, Cl. 287-49.
- Matthysse, Irving F., to Burndy Corp. Spool grip connector. 2,946,040, 7-19-60, Cl. 339-272.
- Matthysse, Irving F., and J. D. Anderson, to Burndy Corp. Snap fit interlocking connector. 2,921,287, 1-12-60, Cl. 339-258.
- Matthysse, Irving F., and F. Dilendik, to Burndy Corp. Sealed mixture-containing connector. 2,951,110, 8-30-60, Cl. 174-94.
- Matthysse, Irving F., and D. B. Bogart, to Burndy Corp. Disconnect apparatus. 2,957,968, 10-25-60, Cl. 200-158.
- Matti, Leo F., to Bartelt Engineering Co., Inc. Dispensing device. 2,957,674, 10-25-60, Cl. 249-18.
- Mattiat, Oskar E., to United States of America, Army. Piezoelectric filter transformer. 2,943,278, 6-28-60, Cl. 333-32.
- Mattiat, Oskar E., to United States of America, Army. Piezoelectric band pass filter. 2,943,279, 6-28-60, Cl. 333-72.
- Mattiat, Oskar E., to United States of America, Army. Piezoelectric ceramic resonators. 2,948,867, 8-9-60, Cl. 333-72.
- Mattiat, Oskar E., to United States of America, Army. Piezoelectric ceramic filters. 2,953,755, 9-20-60, Cl. 333-72.
- Mattimoe, Paul T. *See—*
- Morgan, John C., Wampler, Ryan, and Mattimoe. 2,925,633.
- Mattingly, Denis A. E. *See—*
- Gilchrist, Reginald S., Scragg, and Mattingly. 2,958,921.
- Mattingly, Robert L., to Bell Telephone Laboratories, Inc. Antenna with means for preventing re-radiation into feed guide. 2,942,266, 6-21-60, Cl. 343-782.
- Mattingly, Ronald R. *See—*
- Wahrenberger, Arthur G., Mattingly, and Weinkamer. 2,923,581.
- Mattingly, William S. *See—*
- Jones, John G., and Mattingly. 2,925,067.
- Mattis, Stephen J. Process of making apple chips out of apples. 2,929,718, 3-22-60, Cl. 99-100.
- Mattoch, Robert A. Printing press. 2,955,564, 10-11-60, Cl. 118-3.
- Mattos, Frank G., to Fairey Aviation Ltd. Two-stage fluid pumps. 2,940,397, 6-14-60, Cl. 103-38.
- Mattox, George W., to Clayton Mfg. Co. Automatic blow-down for steam generator. 2,921,564, 1-19-60, Cl. 122-382.
- Mattox, William J. *See—*
- Draeger, Kenneth E., Kimberlin, Arey, and Mattox. 2,952,614.
- Gladrow, Elroy M., and Mattox. 2,935,539.
- Kimberlin, Charles N., Jr., and Mattox. 2,944,001.
- Kimberlin, Charles N., Jr., and Mattox. 2,950,336.
- Kimberlin, Charles N., Jr., and Mattox. 2,958,644.
- Kimberlin, Charles N., Jr., and Mattox. 2,958,645.
- Mattox, William J., to Esso Research and Engineering Co. Conversion of ketones to aromatics. 2,950,332, 8-23-60, Cl. 260-668.
- Mattox, William J., and C. N. Kimberlin, Jr., to Esso Research and Engineering Co. Separation of isoparaffins differing in degree of branching with zeolitic molecular sieves. 2,956,089, 10-11-60, Cl. 260-676.
- Mattson, David F. *See—*
- Atkinson, Frederick M., Paulsen, and Mattson. 2,946,626.
- Mattson, Roy H., to Bell Telephone Laboratories, Inc. Transistor circuit temperature compensating device. 2,945,190, 7-12-60, Cl. 331-112.
- Mattson, Roy H., to Bell Telephone Laboratories, Inc. Transistor clocked pulse amplifier. 2,961,551, 11-22-60, Cl. 307-88.5.



- Mattson, Rudolph B. Shallow water warning signal. 2,966,132, 12-27-60, Cl. 116-113.
- Mattson, Sven A., A. V. Karlsson, and J. Nilsson, to Skandinaviska Granit Aktiebolaget. Stone-sawing machines. 2,963,018, 12-6-60, Cl. 125-16.
- Mattsson, Mats E.: *See*—  
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- Mattucci, Guido. Color correction gauge. 2,941,312, 6-21-60, Cl. 35-28.3.
- Matulaitis, Victor E., to Elox Corp. of Michigan. Servo power feed. 2,927,191, 3-1-60, Cl. 219-69.
- Matulaitis, Victor E., to Elox Corp. of Michigan. Transistorized power feed. 2,939,065, 5-31-60, Cl. 318-293.
- Matulaitis, Victor E., to Elox Corp. of Michigan. Single point tool grinder. 2,952,102, 9-13-60, Cl. 51-124.
- Matulaitis, Victor E., and W. Lobur, to Elox Corp. of Michigan. EDM pulsing circuit. 2,951,969, 9-6-60, Cl. 315-163.
- Maturi, Vincent F., L. Kogan, and N. G. Marotta, to Standard Brands Inc. Egg white composition. 2,933,397, 4-19-60, Cl. 99-113.
- Matuszak, Alfred H.: *See*—  
FitzGerald, William P., Gleason, Morway, and Matuszak. 2,956,952.
- Matuszak, Alfred H., E. V. Wilson, and W. W. Gleason, to Esso Research and Engineering Co. Aviation gas turbine lubricants. 2,938,871, 5-31-60, Cl. 252-49.9.
- Matusas, Anthony J., to The Singer Mfg. Co. Hand-attachment supports for sewing machines. 2,928,640, 3-15-60, Cl. 248-205.
- Matwijcow, John J. Scalpel handle. 2,960,769, 11-22-60, Cl. 30-340.
- Matz, Charles H.: *See*—  
De Young, John A., Fairbank, Jones, Matz, and Wolff. 2,935,942.
- Matzinger, Charles P., to The Mountain Copper Co., Ltd. Process for making copper pentachlorophenate. 2,938,045, 5-24-60, Cl. 260-438.
- Matzkin, Harry, and J. Hutowitz. Glass door locking construction. 2,952,150, 9-13-60, Cl. 70-451.
- Matzo, Charles, and A. V. D'Andrea. Non-freezing automatic device for fishing through ice. 2,955,374, 10-11-60, Cl. 43-16.
- Mau, Earl G., 30% to A. B. Christiansen, and 30% to F. L. Larsen. Roll paper dispensers. 2,932,463, 4-12-60, Cl. 242-55.53.
- Mau, George A., and O. A. Wurttemberg, to Johnson-March Corp. Conveyor actuated control means. 2,938,622, 5-31-60, Cl. 198-232.
- Mau, George A., to Johnson-March Corp. Apparatus for treating pulverulent material. 2,953,359, 9-20-60, Cl. 259-8.
- Mauborgne, Paul. Fishing reel. 2,926,863, 3-1-60, Cl. 242-84.2.
- Mauborgne, Paul. Brakes for fishing reels. 2,932,464, 4-12-60, Cl. 242-84.2.
- Mauch, Eugen: *See*—  
Ilge, Wilhelm, Herrmann, Haussmann, Mauch, Rittner, and Kaubach. 2,952,726.
- Mauch, Hans A. Jet propelled balloon. 2,940,213, 6-14-60, Cl. 46-88.
- Maude, Aylmer H., and D. E. MacFadyen, to Hooker Chemical Corp. Apparatus for producing hydrogen sulfide. 2,965,455, 12-20-60, Cl. 23-288.
- Maul, Michael. Summary card punches. 2,949,225, 8-16-60, Cl. 235-61.7.
- Maule, Harry W. Hunting quiver. 2,956,603, 10-18-60, Cl. 150-1.5.
- Maulsby, Robert M., to Dresser Industries, Inc. Means for indicating length of apparatus-suspending element in earth borehole. 2,934,695, 4-26-60, Cl. 324-34.
- Maupin, Joseph T., to Minneapolis-Honeywell Regulator Co. Transistor circuit. 2,922,897, 1-26-60, Cl. 307-88.5.
- Maurer, Edward C. Coin operated locks. 2,924,319, 2-9-60, Cl. 194-32.
- Maurer, Eugen, to Rollenlager-Spindelfabrik "Spintex" G.m.b.H. Drawing top rolls for ring spinning frames. 2,927,349, 3-8-60, Cl. 19-142.
- Maurer, Herman W. Tilt-back rocking chair. 2,951,528, 9-6-60, Cl. 155-71.
- Maurer, John A., Jr. Method of and apparatus for automatic identification of finger prints. 2,952,181, 9-13-60, Cl. 88-14.
- Maurer, John F., to E. I. du Pont de Nemours and Co. Reduction of metal halides. 2,941,867, 6-21-60, Cl. 23-223.5.
- Maurer, Martin S., to United States of America, Army. Voltage ratio and phase angle tester. 2,929,990, 3-22-60, Cl. 324-57.
- Maurer, Richard E., to Eastman Kodak Co. Continuous prescreening of photographic film and paper. 2,925,339, 2-16-60, Cl. 96-45.
- Maurer, Robert M., to Telefunken G.m.b.H. High frequency mixer stage. 2,962,586, 11-29-60, Cl. 250-20.
- Maurice, Jean, and M. Rist, to Societe Anonyme Francaise du Ferodo. Automatic clutches. 2,920,726, 1-12-60, Cl. 192-09.
- Maurice, Jean, and M. Rist, to Societe Anonyme Francaise du Ferodo. Power transmission system. 2,922,503, 1-26-60, Cl. 192-052.
- Maurice, Jean, and M. Rist, to Societe Anonyme Francaise du Ferodo. Clutches. 2,940,569, 6-14-60, Cl. 192-48.
- Maurice, Jean, and M. Rist, to Societe Anonyme Francaise du Ferodo. Gear-changing control. 2,945,100, 7-12-60, Cl. 200-61.88.
- Maurice, Jean, and M. Rist, to Societe Anonyme Francaise du Ferodo. Acceleration-control device. 2,964,956, 12-20-60, Cl. 74-105.
- Maurin, Jean D.: *See*—  
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- Mauritz, Kurt. Devitrification of cast stones. 2,932,922, 4-19-60, Cl. 49-77.
- Maurushat, Joseph, Jr., to Bell Telephone Laboratories, Inc. Linear voltage-to-frequency converter. 2,924,788, 2-9-60, Cl. 332-14.
- Maury, Lucien G.: *See*—  
Levering, Dewey R., and Maury. 2,935,480.
- Maury, Lucien G., and W. P. Shyluk, to Hercules Powder Co. Conversion of pentaerythritol formalins into pentaerythritol. 2,939,887, 6-7-60, Cl. 260-635.
- Maus, Lawrence L. Separating apparatus. 2,941,668, 6-21-60, Cl. 210-526.
- Mausier Kommandit-Gesellschaft: *See*—  
Muhlhoff, Friedrich. 2,944,714.
- Mausolf, Paul. Christmas tree stand. 2,933,274, 4-19-60, Cl. 248-44.
- Maust, Frederick K. Method of treating sheet and strip material. 2,945,530, 7-19-60, Cl. 153-106.
- Maust, Frederick K. Roller leveler with driven back-up rolls. 2,949,147, 8-16-60, Cl. 153-106.
- Maust, Frederick K. Roller leveler. 2,963,070, 12-6-60, Cl. 153-106.
- Mausteller, John W., to Mine Safety Appliances Co. Inhibitors to transfer of structural material constituents in liquid sodium. 2,943,034, 6-28-60, Cl. 204-154.2.
- Mauthe, Gustav: *See*—  
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- Mauthe, Gustav, W. Graulich, and H. Rohling, to Farbenfabriken Bayer Aktiengesellschaft. Treatment of tanned hides and leather with polymers of vinyl and diene monomers, emulsifiers and tanning agents. 2,949,335, 8-16-60, Cl. 8-94.23.
- Mauthner, Thomas: *See*—  
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- Mautner, Henry R., to General Aniline & Film Corp. Dyeing of polyacrylonitrile fibrous material. 2,955,008, 10-4-60, Cl. 8-35.
- Mauz & Pfeiffer: *See*—  
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- Mavor & Coulson Ltd.: *See*—  
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- Jerrit, George. 2,941,789.
- Mavroides, John G., and S. Schwartz, to United States of America, Air Force. Power transistors. 2,962,797, 12-6-60, Cl. 29-25.3.
- Mawson, Jack F.: *See*—  
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- Max Ams Machine Co., The: *See*—  
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- Maxant Button and Supply Co.: *See*—  
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- Maxcy, William J., to General Aniline & Film Corp. Dispersing agents for non-aqueous systems. 2,919,993, 1-5-60, Cl. 106-19.
- Maxen, Harry. Hoist dump. 2,959,312, 11-8-60, Cl. 214-713.
- Maxey, Dean C. Condiment holder. 2,931,539, 4-5-60, Cl. 222-130.
- Maxey, Edwin M.: *See*—  
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- Maxey, Wilfred C. Method of and apparatus for continuously processing expanded perlite. 2,935,267, 5-3-60, Cl. 241-17.
- Maxfield, Charles W.: *See*—  
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- Maxim, Andrew, to Imperial Mfg. Corp. Record player. 2,949,308, 8-16-60, Cl. 274-10.
- Maxim, Hiram H., to Emhart Mfg. Co. Radio direction finder. 2,925,597, 2-16-60, Cl. 343-113.
- Maxson, Gordon J., to Western Electric Co., Inc. Method of making magnetic cores. 2,956,024, 10-11-60, Cl. 252-62.5.
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- Maxwell, Ira C., O. H. Langen, and D. R. Plehal, to The Unipress Co., Inc. Folding table. 2,921,726, 1-19-60, Cl. 223-37.
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- Maxwell, Louis R., and R. K. Reber. Jet propelled torpedo. 2,938,481, 5-31-60, Cl. 114-20.
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- Maxwell, Richard F., Jr., and R. F. Higby, to Westinghouse Electric Corp. Magnetic tracking detector apparatus. 2,942,117, 6-21-60, Cl. 250-203.
- Maxwell, Richard F., Jr., and R. F. Higby, to Westinghouse Electric Corp. Radiant energy detector and magnetic space filter for use therein. 2,953,688, 9-20-60, Cl. 250-83.3.
- Maxwell, Robert C.: See—
- Woodslayer, Homer J., Jenkins, Maxwell, and Born. 2,963,123.
- Maxwell, William, to Imperial Chemical Industries Ltd. Compositions for safety heating elements. 2,953,448, 9-20-60, Cl. 52-7.
- Maxwell, William A., and J. Douglas, to United States of America, National Aeronautics and Space Administration. Process of casting heavy slips. 2,944,316, 8-12-60, Cl. 25-156.
- May, Alfred L.: See—
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- May, Charles G., and I. D. Morton, to Lever Bros. Co. Process for the preparation of a meat flavor. 2,934,436, 4-26-60, Cl. 99-140.
- May, Claude H., to Herrick L. Johnston, Inc. Pressure generator for liquefied gas. 2,932,175, 4-12-60, Cl. 62-53.
- May, Claude H. Power transmission. 2,932,217, 4-12-60, Cl. 74-710.
- May, Clayton A.: See—
- Smith, Curtis W., and May. 2,957,837.
- May, Clayton A., to Shell Development Co. Epoxide resin composition. 2,921,040, 1-12-60, Cl. 260-18.
- May, Clifford F., to Joseph Lucas (Industries) Ltd. Centrifugal electric switches. 2,943,166, 6-28-60, Cl. 200-80.
- May, Clifford F., to Joseph Lucas (Industries) Ltd. System for effecting automatic control of a vehicle power transmission system. 2,946,925, 7-26-60, Cl. 317-5.
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- Newby, Bill J., Hanson, and May. 2,964,130.
- May, Edward J., and L. R. Morse. Automatic recycling slide projector. 2,936,672, 5-17-60, Cl. 88-28.
- May, Frank H., to American Potash & Chemical Corp. Process for producing pure boric acid and potassium sulfate. 2,948,592, 8-9-60, Cl. 23-149.
- May, Frank H., and V. V. Levasheff, to American Potash & Chemical Corp. Preparation of mixed anhydrides of lower alkanic acids and pyro boric acid. 2,941,000, 6-14-60, Cl. 260-545.
- May, Frank H., and C. C. Cook, to American Potash & Chemical Corp. Process for production of boron nitride. 2,959,469, 11-8-60, Cl. 23-191.
- May, Frederick T., to Westinghouse Electric Corp. Lead wire threading machine. 2,927,365, 3-8-60, Cl. 29-25.19.
- May, John F. Adjustable putter. 2,932,515, 4-12-60, Cl. 273-80.1.
- May, Harold F., and H. L. Shoemaker, to United States of America, Navy. Servo projection system. 2,942,355, 6-28-60, Cl. 35-10.2.
- May, Harold V.: See—
- Ruscito, Anthony J., and May. 2,948,770.
- May, Harry C., to Westinghouse Air Brake Co. Locomotive brake equipment embodying quick release and dynamic brake interlock features. 2,937,906, 5-24-60, Cl. 303-3.
- May, Harry C., to Westinghouse Air Brake Co. Fluid pressure brake apparatus. 2,958,561, 11-1-60, Cl. 303-8.
- May, Harry C., and J. F. Frola, to Westinghouse Air Brake Co. Control valve device for vehicle air springs. 2,945,690, 7-19-60, Cl. 267-65.
- May, Johann W., to Betelligungs- und Patentverwaltungs-gesellschaft mit beschränkter Haftung. Protective arrangement against torque overload. 2,962,880, 12-6-60, Cl. 64-28.
- May, John E., Jr., to Bell Telephone Laboratories, Inc. Ultrasonic delay line. 2,957,142, 10-18-60, Cl. 333-30.
- May, John E., Jr., to Bell Telephone Laboratories, Inc. Tapped ultrasonic delay line. 2,965,851, 12-20-60, Cl. 333-30.
- May, Joseph C., to The Superior Electric Co. Magnetic amplifier control device. 2,931,971, 4-5-60, Cl. 323-89.
- May, Joseph R., to L. J. Peoples. Harness stop motion device for a loom. 2,932,326, 4-12-60, Cl. 139-337.
- May, Lawrence L. Combination fish stringer and hook extractor. 2,958,977, 11-8-60, Cl. 43-53.5.
- May, Lawrence T., to Allen B. Du Mont Laboratories, Inc. Cathode-ray tube structure. 2,942,129, 6-21-60, Cl. 313-85.
- May, Lovell H. Welding generator attachment for motor vehicles. 2,920,210, 1-5-60, Cl. 290-1.
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- May, Naomi C.: See—
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- Mackay, John H., and Schleicher. 2,937,378.
- Mackay, John H., and Schleicher. 2,937,379.
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- May, William C., to Dow Corning Corp. Process for relieving human gas pains with methylpolysiloxane. 2,934,472, 4-26-60, Cl. 167-55.
- May, Winston L., Jr., to Chicopee Mfg. Corp. Fitted sheet. 2,942,280, 6-28-60, Cl. 5-334.
- Maybarduk, Leon A., to United States of America, Air Force. Mechanical integrator. 2,919,605, 1-5-60, Cl. 74-681.
- Maybaum, John W.: See—
- Setzekorn, Gene M., Taylor, and Maybaum. 2,963,191.
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- Maydew, Aubrey F. Automatic pipe layer and racker. Re. 24,907, 12-13-60, Cl. 214-2.5.
- Mayer, Alfred, to Quebec Metallurgical Industries Ltd. Recovery of high purity pentachlorides of niobium and tantalum from mixtures thereof. 2,934,426, 4-26-60, Cl. 75-84.5.
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- Mayer, Carl H., Jr., to The Kartridg Pak Co. Apparatus for filling and closing aerosol-type dispensers. 2,958,170, 11-1-60, Cl. 53-76.
- Mayer, Donald F., and J. C. Uhlund, to Philco Corp. Combined encoder and decoder system. 2,950,348, 8-23-60, Cl. 178-43.5.
- Mayer, Donald W., and A. M. Skellett, to Tung-Sol Electric Inc. Demountable gun for cathode ray tubes. 2,922,062, 1-19-60, Cl. 313-82.
- Mayer, Edward F., to Horizons Inc. Television pickup tube. 2,944,155, 7-5-60, Cl. 250-213.
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- Mayer, Oscar, & Co., Inc.: See—
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- Mayer, Richard, to Adjustable Anchor Corp. Adjustable anchor for fixtures. 2,923,146, 2-2-60, Cl. 72-105.
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- Mayer, Robert E., and A. Tepper, to Reeves Instrument Corp. Apparatus for setting a function generator. 2,964,709, 12-13-60, Cl. 328-143.
- Mayer, Rollin P., R. C. Jeffrey, B. Housman, and D. B. Thompson, to Research Corp. Data storage system. 2,932,010, 4-5-60, Cl. 340-174.
- Mayer, Walter, to M. Grundig. Automatic monitoring of machines by a television system. 2,955,155, 10-4-60, Cl. 178-6.
- Mayeran, William: See—
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- Mayeran, William, to The Singer Mfg. Co. Work trimming mechanisms for sewing machines. 2,925,794, 2-23-60, Cl. 112-122.
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- Mayers, Martin A., to Burns and Roe, Inc. Process for producing gas turbine feed. 2,958,298, 11-1-60, Cl. 110-28.



- Mayes, Fred M., to Sun Oil Co. Electrical prospecting method and apparatus. 2,922,101, 1-19-60, Cl. 324-1.
- Mayes, Fred M. Apparatus for impedance measurements. 2,923,880, 2-2-60, Cl. 324-57.
- Mayes, Fred M., to Sun Oil Co. Apparatus for impedance measurements. 2,929,020, 3-15-60, Cl. 324-57.
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- Mayes, Fred M., to Sun Oil Co. Tank gauge. 2,930,131, 3-29-60, Cl. 33-126.
- Mayes, Fred M., to Sun Oil Co. Pressure measuring apparatus. 2,942,473, 6-28-60, Cl. 73-388.
- Mayfield, Johnny W. Combined gunwale step plate and boat ladder adapter. 2,936,465, 5-17-60, Cl. 9-1.
- Mayfield, Manville J., to American Lava Corp. Cermet bodies. 2,961,325, 11-22-60, Cl. 106-39.
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- Mayhew, Frank. Metal reel and the like. 2,928,623, 3-15-60, Cl. 242-77.4.
- Mayhew, Henry G. Steering wheel switch mechanism for awakener alarm. 2,945,099, 7-12-60, Cl. 200-61.57.
- Mayhew, Ray W., R. O. Ruff, R. L. Vogelpohl, to Kimble Glass Co. Forming glass articles. 2,931,141, 4-5-60, Cl. 49-85.
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- Mayhew, Raymond L., and E. P. Williams, to General Aniline & Film Corp. Heat treated reaction products of N-alkylaminopropyl- $\alpha$ -hydroxybutyramides. 2,955,137, 10-4-60, Cl. 260-561.
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- Maylandt, Helmut, and E. Traub, to Robert Bosch, G.m.b.H. Self-healing capacitor. 2,934,687, 4-26-60, Cl. 317-258.
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- Maynard, Charles A., to Indiana General Corp. Mount for optical system component. 2,953,970, 9-27-60, Cl. 88-113.
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- Maynard, Harlan J. Method and apparatus for mist cooling cutting tools. 2,946,244, 7-26-60, Cl. 77-55.
- Maynard, John T., to A. O. Smith Corp. Liquid filled submersible motor. 2,938,131, 5-24-60, Cl. 310-87.
- Maynard, John T., to A. O. Smith Corp. Submersible motor-pump assembly. 2,939,400, 6-7-60, Cl. 103-87.
- Maynard, John T., to A. O. Smith Corp. Method of forming a power lead connection for plastic potted stator windings. 2,944,297, 7-12-60, Cl. 18-59.
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- Maynard, Meade J., to International Telephone and Telegraph Corp. Path recording system. 2,927,833, 3-8-60, Cl. 346-8.
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- Maynard, Theron W., to United States Steel Corp. Coil carrier. 2,958,492, 11-1-60, Cl. 248-119.
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- Mayne, Robert A. Blower wheel. 2,962,207, 11-29-60, Cl. 230-134.
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- Mayo, Edward L., to The Bishop and Babcock Mfg. Co. Automobile power brakes for manual or pedal operation. 2,931,179, 4-5-60, Cl. 60-54.5.
- Mayo, Edward L., to The Bishop and Babcock Mfg. Co. Power brake means for automobiles. 2,931,181, 4-5-60, Cl. 60-60.
- Mayo, Edward L. Automobile power brake means. 2,931,465, 4-5-60, Cl. 188-106.
- Mayo, John S., to Bell Telephone Laboratories, Inc. Direct coupled transistor logic circuits. 2,946,897, 7-26-60, Cl. 307-88.5.
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- Mayr, Ludwig, to Wolfgang Muth. Method of producing printing surfaces. 2,927,858, 3-8-60, Cl. 96-35.
- Mayr, Otmar, to Dr. Ing. h.c.F. Porsche K.G. Automatic stop mechanism for internal combustion engines. 2,937,628, 5-24-60, Cl. 123-41.15.
- Mayr, Otmar, to Firma Dr. Ing. h.c.F. Porsche K.G. Speed control arrangement for tractor-type vehicles. 2,950,794, 8-30-60, Cl. 192-3.
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- Mayurnik, George, to Aries Laboratories, Inc. Epoxy curing agent. 2,926,156, 2-23-60, Cl. 260-47.
- Mayurnik, George, to Aries Laboratories, Inc. Epoxy resin compositions. 2,934,520, 4-26-60, Cl. 260-47.
- Mayville Metal Products Co.: See—  
Forst, David D., and Merkl. 2,936,931.
- Mazar Barnett, Jose, to Filtox S.A. Cigarette holder. 2,955,602, 10-11-60, Cl. 131-207.
- Mazarakis, Arthur G., to United States Steel Corp. Apparatus for setting hot tops in ingot molds. 2,952,886, 9-20-60, Cl. 22-31.
- Maze, Glenn W.: See—  
McCormick, Francis A., and Maze. 2,958,882.
- Mazeika, Albert, to Milton Mfg. Co., Inc. Method of securing a hose nozzle or tube fitting to a hose end. 2,924,009, 2-9-60, Cl. 29-507.
- Mazer, Marshall, and Harry N. Vosmer, to The National Cash Register Co. Method of controlling apparatus from marks on record material. 2,950,049, 8-23-60, Cl. 235-61.11.
- Mazer, Marshall, and H. N. Vosmer, to The National Cash Register Co. Record member. 2,950,050, 8-23-60, Cl. 236-61.12.
- Mazer, Marshall, and H. N. Vosmer, to The National Cash Register Co. Readily removable marking composition for record material. 2,950,256, 8-23-60, Cl. 252-301.2.
- Mazoyer, Roger: See—  
Tourre, Louis, and Mazoyer. 2,963,189.
- Mazur, Erwin, to Fulmenawerk K.G. Franz Mueller. Steering gear, particularly for motor vehicles. 2,935,893, 5-10-60, Cl. 74-499.
- Mazur, Erwin, R. Mittelstrass, and H. Reiter, to Fulminawerk K.G. Franz Muller. Arrangement for controlling an auxiliary hydraulic motor, particularly a motor serving to augment the steering power in motor vehicles. 2,924,202, 2-9-60, Cl. 121-46.5.
- Mazur, Ferdinand J., to Libbey-Owens-Ford Glass Co. Rear view mirror assembly. 2,964,999, 12-20-60, Cl. 88-77.
- Mazur, Joseph,  $\frac{1}{4}$  to L. Austin, and  $\frac{1}{4}$  to A. Greenstein and H. Bruder. Visible file. 2,959,879, 11-15-60, Cl. 40-124.
- Mazur, Robert H., and J. A. Cella, to G. D. Searle & Co. 16(substituted methyl)pregnenolones and derivatives. 2,932,655, 4-12-60, Cl. 260-397.3.



- Mazura, Louis P., and L. B. Patterson, to Talon, Inc. Apparatus for feeding and orienting articles. 2,939,567, 6-7-60, Cl. 198-33.
- Mazza, Carlo: *See*—  
Lugli, Giuseppe, and Mazza. 2,930,425.
- Mazza, Harold, S. L. Cohen, and G. H. Schafer, to American Lithium Chemicals, Inc. Process for recovering alkali metal values from lepidolite. 2,940,820, 6-14-60, Cl. 23-30.
- Mazza, Lawrence L.: *See*—  
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- Mazza, Ralph O. Pressure retaining stopper. 2,950,834, 8-30-60, Cl. 215-95.
- Mazzarella, Daniel A., and W. J. Tarnacki, to Bendix Aviation Corp. Thermally-sensitive resistor. 2,937,354, 5-17-60, Cl. 338-22.
- Mazzarins, Janis: *See*—  
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- Mazzarins, Janis, to General Motors Corp. Tractor suspension having resiliently mounted equalizer bar. 2,936,841, 5-17-60, Cl. 180-954.
- Mazzeo, Frank J. Umbrella. 2,959,181, 11-8-60, Cl. 135-40.
- Mazzitelli, Frederick R., to Vertol Aircraft Corp. Convertiplane control system. 2,936,968, 5-17-60, Cl. 244-7.
- Mazzoni, Charles A., Jr.: *See*—  
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- Mazzoni, Chester J. Hair clipper. 2,941,293, 6-21-60, Cl. 30-201.
- Mazzoni, Giuseppe. Process of drying soap. 2,945,819, 7-19-60, Cl. 252-367.
- McAdam, Harry H.: *See*—  
Elam, Daniel W., Morrill, Robb, and McAdam. 2,954,144.
- McAdam, Harry H., and J. H. Karr. Direct current hermetic motor compressor. 2,931,927, 4-5-60, Cl. 310-67.
- McAdam, John C. Magnet game with target. 2,928,677, 3-15-60, Cl. 273-95.
- McAdam, John C., to International Electronic Research Corp. Heat dissipators for transistors. 2,964,688, 12-13-60, Cl. 317-234.
- McAdam, Will: *See*—  
Clark, William R., McAdam, and Moreland. 2,957,115.
- McAdams, Paul F., to Clark Equipment Co. Two-wheeled tractor. 2,940,533, 6-14-60, Cl. 180-12.
- McAdoo, Harold L. Dental impression tray. 2,924,011, 2-9-60, Cl. 32-17.
- McAdow, Walter R., to American-Marietta Co. Metallized coating compositions. 2,941,894, 6-21-60, Cl. 106-193.
- McAfee, Jerry, to Gulf Research & Development Co. Destructive hydrogenation process and apparatus. 2,944,961, 7-12-60, Cl. 208-108.
- McAleer, William J.: *See*—  
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- McAleer, William J., and T. H. Stoudt, to Merck & Co., Inc. Steroid production with dactylum dendroides. 2,954,326, 9-27-60, Cl. 195-51.
- McAllen, Robert G.: *See*—  
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- McAllister, Cornelius B. Polish rod shock absorber. 2,925,266, 2-16-60, Cl. 267-70.
- McAllister, Robert C. Animatable doll. 2,932,125, 4-12-60, Cl. 46-154.
- McAllister, Robert W. Refractory lime. 2,948,631, 8-9-60, Cl. 106-58.
- McAlpine, Charles H., K. G. McGowan, and R. D. Millenaar, to Winkler Machine Co. Machine for successively delivering stacked panels. 2,930,508, 3-29-60, Cl. 221-221.
- McAlpine, Roderick K.: *See*—  
Dempsey, Jack L., and McAlpine. 2,957,168.
- McAlpine, Vernon W.: *See*—  
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- Porter, Frederic E., McAlpine, and Nacker. 2,954,643.
- McAlvay, John C., to Webster Electric Co. Fuel unit. 2,966,118, 12-27-60, Cl. 103-3.
- McAnally, Robert W., to General Dynamics Corp. Actuating device. 2,924,404, 2-9-60, Cl. 244-121.
- McAneny, Ann L.: *See*—  
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- McAneny, Michael J., deceased (A. L. McAneny, administratrix), to L. M. Schott. Strap fastening device. 2,928,434, 3-15-60, Cl. 140-93.4.
- McArdle, Edward P.: *See*—  
Raech, Harry, Jr., and McArdle. 2,960,037.
- McAteer, Bernard G.: *See*—  
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- McAulay, Hubert J. Reserve fuel tank. 2,964,104, 12-13-60, Cl. 158-46.5.
- McAuley, James W., and E. L. Karlene, to Libbey-Owens-Ford Glass Co. Method and apparatus for surfacing glass sheets. 2,929,176, 3-22-60, Cl. 51-195.
- McAuliff, Dan: *See*—  
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- McAuslan, James H. L., and W. Nock, to Imperial Chemical Industries Ltd. Shaft-position determining apparatus. 2,944,157, 7-5-60, Cl. 250-233.
- McBain, John K., to W. C. Ritchie & Co. Method of making a spirally wound container. 2,943,540, 7-5-60, Cl. 93-94.
- McBean, Douglas M., and L. C. Tallman, to Douglas M. McBean, Inc. Accumulator. 2,940,587, 6-14-60, Cl. 198-220.
- McBean, Douglas M., and L. C. Tallman, to American Can Co. Carrier removal apparatus. 2,950,829, 8-30-60, Cl. 214-305.
- McBean, Douglas M., Inc.: *See*—  
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- McBrerty, Charles J.: *See*—  
Rezsek, Gerard, and McBrerty. 2,951,652.
- McBride, Clarence E. Heat insulating enclosure. 2,962,323, 11-29-60, Cl. 296-28.
- McBride, Daniel A., to United States of America, Navy. Cable cutter utilizing a hollow charge explosive. 2,920,532, 1-12-60, Cl. 89-1.
- McBride, Donald W., to The Vendo Co. Can punching and coffee brewing mechanism. 2,939,381, 6-7-60, Cl. 99-295.
- McBride, Frank A.: *See*—  
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- McBride, Jack L. Ship's ratguard. 2,950,700, 8-30-60, Cl. 114-221.
- McBride, John W., to Bantar, Inc. Power propelled water craft. 2,941,494, 6-21-60, Cl. 115-1.
- McBride, Joseph R., to A. B. Chance Co. Fuse cutout. 2,949,517, 8-16-60, Cl. 200-114.
- McBride, Lee F., to C. W. Fuelling. Pipe-treating apparatus. 2,928,357, 3-15-60, Cl. 104-138.
- McBride, Richard T., to E. I. du Pont de Nemours and Co. Coated polymeric thermoplastic dielectric film. 2,920,985, 1-12-60, Cl. 117-138.8.
- McBride, Richard T., to E. I. du Pont de Nemours and Co. Coated polymeric thermoplastic dielectric film. 2,921,869, 1-19-60, Cl. 117-138.8.
- McBrien, Roger W. Titration apparatus. 2,933,376, 4-19-60, Cl. 23-259.
- McBrien, Roger W. Laboratory clamp. 2,958,110, 11-1-60, Cl. 24-81.
- McBrien, William K., to Diamond Alkali Co. Vinyl halide polymer composition. 2,953,537, 9-20-60, Cl. 260-23.
- McBroom, James C., to F. Patty. Overrun control valve for ice cream dispensers. 2,951,504, 9-6-60, Cl. 137-606.
- McBurney, Charles H.: *See*—  
Richter, George A., Jr., McBurney, and Kine. 2,933,460.
- McBurney, Charles H., G. A. Richter, Jr., and B. E. Kine, to Rohm & Haas Co. Fibers, pellicles and the like of cross-linked addition polymers of alkoxymethyl vinyl sulfides. 2,933,479, 4-19-60, Cl. 260-79.7.
- McBurney, Charles H., and E. F. Meitzner, to Rohm & Haas Co. Cellulosic paper containing ion exchange resin and process of making the same. 2,955,067, 10-4-60, Cl. 162-164.
- McCabe, Edward J.: *See*—  
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- McCabe-Powers Body Co.: *See*—  
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- Balogh, Roy O. 2,965,191.
- Balogh, Roy O. 2,965,192.
- Hall, Thomas R. 2,936,848.
- McCabe, Reverend Joseph F.: *See*—  
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- McCaffery, Francis X., to General Foods Corp. Apparatus for cutting a frozen slab of edible flesh. 2,941,560, 6-21-60, Cl. 146-78.
- McCafferty, John H. Starting aid for foot races. 2,937,871, 5-24-60, Cl. 272-59.
- McCain, Cecil C., H. J. Slaughter, and B. L. Wright, to Western Electric Co., Inc. Apparatus for transferring articles in abutting relation to each other from one magazine into another magazine in spaced relationship. 2,942,392, 6-28-60, Cl. 53-246.
- McCain, William D., Jr.: *See*—  
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- McCain, William D., Jr., to Esso Research and Engineering Co. Chemicals coking quenching system. 2,943,994, 7-5-60, Cl. 208-48.
- McCall Corp.: *See*—  
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- McCall, David, to Mac & Lai Co. (Malaya) Ltd. Dried rubber latex sheeting and process for preparing same. 2,944,990, 7-12-60, Cl. 260-3.
- McCall, Fred, Jr. Basketball practice device. 2,939,705, 6-7-60, Cl. 273-1.5.
- McCall, Marvin A.: *See*—  
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- Wicker, Thomas H., Jr., McCall, and McConnell. 2,964,528.
- McCall, Marvin A., and R. L. McConnell, to Eastman Kodak Co. Organophosphorus compounds derived from phosphorothiolonates and epoxides. 2,921,086, 1-12-60, Cl. 260-161.
- McCall, Marvin A., and H. W. Coover, Jr., to Eastman Kodak Co. O,O-dialkyl S-[1-(2,2-dihaloethyl)ethyl] phosphorothiolonates. 2,945,054, 7-12-60, Cl. 260-461.
- McCall, Marvin A., and H. W. Coover, Jr., to Eastman Kodak Co. Emulsifiable self-polishing wax containing oxidized polyethylene and paraffin and process for preparing same. 2,952,649, 9-13-60, Cl. 260-28.5.
- McCall, Marvin A., and H. W. Coover, Jr., to Eastman Kodak Co. Stabilization of polyethylene. 2,956,982, 10-18-60, Cl. 260-45.85.
- McCall, Marvin A., and H. W. Coover, Jr., to Eastman Kodak Co. O,O-dialkyl S-[(dicyano methyl)alkyl] phosphorothiolonates. 2,957,007, 10-18-60, Cl. 260-382.5.



- McCall, Marvin A., H. W. Coover, Jr., and R. L. McConnell, to Eastman Kodak Co. O,O-dialkyl S-(2-cyano-haloalkyl) phosphorothiolonates. 2,957,019, 10-18-60, Cl. 260-461.
- McCall, Marvin A., and H. W. Coover, Jr., to Eastman Kodak Co. Process for preparing neutral phosphates. 2,960,529, 11-15-60, Cl. 260-461.
- McCall, Richard J., to Mack-Chicago Corp. Box. 2,942,768, 6-28-60, Cl. 229-16.
- McCall, Richard J. Chipboard box. 2,953,292, 9-20-60, Cl. 229-16.
- McCall, Thomas M., to Ford Motor Co. Seat belt retracting mechanism. 2,939,519, 6-7-60, Cl. 155-189.
- McCall, Thomas M., to Ford Motor Co. Seat belt retracting device. 2,964,100, 12-13-60, Cl. 155-189.
- McCallion, Henry, and J. A. Pope. Manufacture of twist or lace fabrics. 2,957,383, 10-25-60, Cl. 87-4.
- McCallum, Duncan I.: See—
- Schwartz, Daniel M., Hackett, and McCallum. 2,953,941.
- McCallum, James G.: See—
- Novak, Leo J., and McCallum. 2,956,039.
- McCallum, John, J. E. Clifford, and D. E. Semones, to Remington Arms Co., Inc. Primary cell. 2,929,860, 3-22-60, Cl. 136-154.
- McCallum, Neil H., Jr.: See—
- Greene, Joseph F., and McCallum. 2,947,615.
- McCandless, Robert W.: See—
- Peickil, Vasalie L., and McCandless. 2,932,535.
- McCann, Albert H. Helicopter. 2,936,970, 5-17-60, Cl. 244-17.11.
- McCann, Gerry. Beverage chiller and dispenser. 2,956,418, 10-18-60, Cl. 62-177.
- McCann, John J., to The Pot Spinning Corp. Drafting apparatus and method. 2,941,261, 6-21-60, Cl. 19-130.
- McCann, Robert J.: See—
- Janney, Thomas T., and McCann. 2,950,741.
- McCanse, James E., and A. J. Van Auwelaar, to Deere & Co. Bi-positionable seat. 2,946,373, 7-26-60, Cl. 155-80.
- McCants, James F., to Pan American Petroleum Corp. Preservative composition for cellulosic materials comprising heavy metal soaps. 2,951,789, 9-6-60, Cl. 167-38.5.
- McCardle, Arthur, Jr., and M. H. Shackelford, to General Electric Co. Afterburner combustion means. 2,944,399, 7-12-60, Cl. 60-39.82.
- McCarley, Lyndell T., to Abbott Laboratories. Tablet machine. 2,949,082, 8-16-60, Cl. 107-17.
- McCarrell, Stuart G., to Beltone Hearing Aid Co. Hearing aids. 2,962,562, 11-29-60, Cl. 179-107.
- McCarter, Ed R., to Jersey Production Research Co. Attenuation of seismic signals. 2,952,006, 9-6-60, Cl. 340-15.
- McCarthy, Donald O.: See—
- Likins, Merle, Strotman, and McCarthy. 2,946,829.
- McCarthy, George F.: See—
- Hatton, William, Haigh, McCarthy, and Gulnick. 2,964,591.
- Hatton, William, and McCarthy. 2,942,069.
- McCarthy, George F., and A. N. Gulnick, to International Telephone and Telegraph Corp. Coordinate switching unit. 2,942,068, 6-21-60, Cl. 179-27.54.
- McCarthy, James F.: See—
- Morrow, William J., and McCarthy. 2,964,720.
- McCarthy, John H., K. J. Mogk, and R. P. Van Zandt, to Caterpillar Tractor Co. Two-step gear reduction mechanism. 2,939,346, 6-7-60, Cl. 74-801.
- McCarthy, Joseph A.: See—
- Priebe, Erward L., and McCarthy. 2,946,660.
- McCarthy, Joseph A., and D. G. Lorimer, to Minnesota Mining and Mfg. Co. Coupling for reinforced resinous pipe. 2,962,305, 11-29-60, Cl. 285-112.
- McCarthy, Joseph V.: See—
- Neidle, Joel, and McCarthy. 2,948,209.
- McCarthy, Justin H. Holders for bibs and the like. 2,948,035, 8-9-60, Cl. 24-9.
- McCarthy, Norman A.: See—
- Lord, Richard J., and McCarthy. 2,930,374.
- McCarthy, Paul R.: See—
- Ambrose, Henry A., and McCarthy. 2,966,461.
- McCarthy, Raymond L., and J. M. Stone, to United States of America, Atomic Energy Commission. Low-loss cable and method of fabrication. 2,954,421, 9-27-60, Cl. 174-102.
- McCarthy, Vincent J., to The Salem Tool Co. Mining machine having independently operable skids. 2,935,309, 5-3-60, Cl. 262-26.
- McCarthy, William C.: See—
- Pottmeyer, Edward W., and McCarthy. 2,957,538.
- McCartney, Earl J., to Sperry Rand Corp. Object detection system. 2,951,160, 8-30-60, Cl. 250-83.3.
- McCartney, Earl J., to Sperry Rand Corp. Object detection and tracking system. 2,966,591, 12-27-60, Cl. 250-203.
- McCartney, William F., and J. Hanna, to Canada Packers Ltd. Process and apparatus for cleaning caked and imbedded matter from animal hides. 2,949,760, 8-23-60, Cl. 69-37.
- McCarthy, Clifford E.: See—
- Elmore, William C., and McCarthy. 2,934,273.
- McCarthy, Horace G., to Sperry Rand Corp. Spider load distributor. 2,951,328, 9-6-60, Cl. 56-377.
- McCarthy, Horace G., to Sperry Rand Corp. Rapid cleanout for manure spreader. 2,953,386, 9-20-60, Cl. 275-6.
- McCarthy, Horace G., to Sperry Rand Corp. Adjustable mower yoke. 2,953,402, 9-20-60, Cl. 287-92.
- McCarty, John: See—
- Schneider, William S. 2,942,760.
- McCarty, Lourdes V.: See—
- Biermann, William A., and McCarty. 2,928,407.
- Biermann, William A., and McCarty. 2,930,388.
- McCarty, Lourdes V., to Controls Co. of America. Anticipated mechanical thermostat. 2,933,256, 4-19-60, Cl. 236-9.
- McCarvell, John H.: See—
- Carlisle, Willis C., and McCarvell. 2,931,385.
- McCarvell, John H., and W. C. Carlisle. Gas lift method and apparatus. 2,948,232, 8-9-60, Cl. 103-232.
- McCary, Phillip H.: See—
- Hirsch, Joseph, and McCary. 2,942,557.
- McCashen, James F. Method of stripping leaves from tobacco stalks. 2,962,029, 11-29-60, Cl. 131-131.
- McCathron, Claude B., to General Motors Corp. Multiple speed switch mechanism. 2,950,367, 8-23-60, Cl. 200-80.
- McCauley, David A.: See—
- Hoff, Melvern C., and McCauley. 2,954,414.
- McCauley, David A., to Standard Oil Co. Copper fluoroborate-aromatic complexes and preparation thereof. 2,953,589, 9-20-60, Cl. 260-438.
- McCauley, Claudius R., to Marine Controls Laboratories. Dip tube supporting means. 2,921,606, 1-19-60, Cl. 138-47.
- McCauley, George W.: See—
- Richardson, Ambrose M., and McCauley. 2,934,075.
- McCauley Industrial Corp.: See—
- Burnham, Walter E. 2,945,542.
- McCauley, Raymond E. Beverage making machine. 2,954,145, 9-27-60, Cl. 222-129.4.
- McCauley, Wayne W. Flip-top package. 2,944,726, 7-12-60, Cl. 229-44.
- McCausland, Edward: See—
- McDonald, Eugene F., Jr. 2,920,604.
- McCaw, Warren W.: See—
- Mihal, Gust J., and McCaw. 2,962,107.
- McCawley, Frank X.: See—
- Dean, Reginald S., and McCawley. 2,951,794.
- Gullett, William W., and McCawley. 2,933,439.
- McClain, David H. Prow-shaped water sled with manually operated steering apparatus. 2,958,875, 11-8-60, Cl. 9-310.
- McClain, Harry W., to W. G. Craver. Pressure type carburetor. 2,939,776, 6-7-60, Cl. 48-180.
- McClain, Harry W. Vacuum operated bleeder control. 2,964,055, 12-13-60, Cl. 137-483.
- McClamroch, Harold H. Picker stick check. 2,920,660, 1-12-60, Cl. 139-163.
- McClean, Joseph F. Null circuits. 2,928,001, 3-8-60, Cl. 250-27.
- McClean, Joseph F. Filter network. 2,936,426, 5-10-60, Cl. 330-91.
- McCleary, Richard. Accelerator hold down device. 2,936,651, 5-17-60, Cl. 74-513.
- McCleery, James A.: See—
- Lorch, Hermann R., and McCleery. 2,948,647.
- McCiellan, John H. Guy wire bending tool. 2,939,493, 6-7-60, Cl. 140-123.
- McClellan, Marcus E., to Deere & Co. Tying mechanism for balers and the like. 2,926,599, 3-1-60, Cl. 100-22.
- McClellan, William R.: See—
- Cramer, Richard D., and McClellan. 2,933,522.
- McClelland, Alexander J., to The Warner & Swasey Co. Machine tool transmission control system. 2,933,936, 4-26-60, Cl. 74-364.
- McClelland, Alexander J., to The Warner & Swasey Co. Machine tool. 2,940,347, 6-14-60, Cl. 82-14.
- McClelland, Etheridge R., to Filper Corp. Fruit feed mechanism. 2,929,488, 3-22-60, Cl. 198-26.
- McGlenahan, William F. Valve. 2,959,186, 11-8-60, Cl. 137-360.
- McGlenon, Francis H. Photographic developing apparatus. 2,959,115, 11-8-60, Cl. 95-90.5.
- McClintock, Ross A., R. E. Thompson, and K. E. Waggner. Hydraulic release, safety tool joint. 2,940,730, 6-14-60, Cl. 255-28.
- McCloskey, Albert R., to Channing Corp. Method and apparatus for making antifriction bearing. 2,929,131, 3-22-60, Cl. 29-148.4.
- McCloskey, Ellsworth J., to The American Pulley Co. Back stops. 2,941,628, 6-21-60, Cl. 188-82.7.
- McCloud, George R., to McGraw-Edison Co. Load interrupter fuse cutout. Re. 24,847, 7-26-60, Cl. 200-114.
- McCloud, George R., to McGraw-Edison Co. Electrical contact for fuse cutout. 2,938,093, 5-24-60, Cl. 200-133.
- McCloud, George R., to McGraw-Edison Co. Load interrupter house fuse cutouts with tube drop-out. 2,951,923, 9-6-60, Cl. 200-114.
- McCloud, George R., to McGraw-Edison Co. Load interrupter housed fuse cutouts. 2,955,176, 10-4-60, Cl. 200-114.
- McCloud, George R., to McGraw-Edison Co. Load interrupter housed fuse cutouts. 2,956,134, 10-11-60, Cl. 200-114.
- McCloud, James R., to I-T-E Circuit Breaker Co. Pole unit mechanism. 2,945,110, 7-12-60, Cl. 200-150.
- McCluer, John D., to Thermoid Co. Flame retarding composition and fabric treated therewith. 2,948,641, 8-9-60, Cl. 117-126.
- McClung, Marjorie P. Therapeutic garment. 2,939,462, 6-7-60, Cl. 128-454.



- McClure, Charles M.: *See*—  
Daly, Lawrence E., and McClure. 2,940,887.
- McClure, Glenn T.: *See*—  
Newell, George K., McClure, and Hursen. 2,940,553.
- McClure, Glenn T., to Westinghouse Air Brake Co. Fluid pressure operated control valve device. 2,926,967, 3-1-60, Cl. 303-60.
- McClure, Glenn T., to Westinghouse Air Brake Co. Limit stop mechanism for rotatable shaft. 2,956,447, 10-18-60, Cl. 74-527.
- McClure, Glenn T., and T. F. Hursen, to Westinghouse Air Brake Co. Fluid pressure brake apparatus with improved charging control of auxiliary and control reservoirs. 2,923,577, 2-2-60, Cl. 303-60.
- McClure, Glenn T., and T. F. Hursen, to Westinghouse Air Brake Co. Fluid pressure brake apparatus with periodic acknowledgement type safety control. 2,961,274, 11-22-60, Cl. 303-19.
- McClure, Holmes H.: *See*—  
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- McClure, James N., to United States Steel Corp. Coke oven door. 2,965,550, 12-20-60, Cl. 202-248.
- McClure, James S.,  $\frac{1}{2}$  to R. T. Harding. Vacuum control device for generators. 2,924,722, 2-9-60, Cl. 290-40.
- McClure, Kenneth R., to W. J. Dickey. Self-locking shackle seal. 2,942,908, 6-28-60, Cl. 292-324.
- McClure, Lee C.: *See*—  
Patty, Harry R., Jr. 2,936,730.
- McClure, Marshall R., Jr.: *See*—  
McCoy, Frederic C., McClure, Woodie, and Murphey. 2,935,468.
- McClure, Reginald. Telephone protective device. 2,965,719, 12-20-60, Cl. 179-27.
- McClure, Robert E., to Sperry Rand Corp. Electron beam focusing structure. 2,925,508, 2-16-60, Cl. 313-84.
- McClure, Weldon E.: *See*—  
Fassauer, Arthur L., and McClure. 2,954,596.
- McClure, William L., to Sun Oil Co. Disengaging granular solids from lifting gas. 2,945,724, 7-19-60, Cl. 302-59.
- McClure, William L., to Sun Oil Co. Process and apparatus for converting hydrocarbons. 2,952,621, 9-13-60, Cl. 208-166.
- McClure, William L., to Sun Oil Co. Process and apparatus for contacting hydrocarbons with a granular catalyst. 2,952,622, 9-13-60, Cl. 208-167.
- McClure, William L., to Sun Oil Co. Controlling flow of granular solids. 2,952,623, 9-13-60, Cl. 208-167.
- McCluskey, Donald S., and H. N. Cottle, Jr., to Textron Electronics, Inc. Mounting system for the moving element of a vibration table exciter. 2,945,968, 7-19-60, Cl. 310-27.
- McClusky, Stanley A. Mechanical water-removing device. 2,947,011, 8-2-60, Cl. 15-317.
- McColl, Bruce J., to Clark Equipment Co. Log transporting vehicle. Re. 2,846, 7-19-60, Cl. 214-77.
- McColl, Bruce J., to Clark Equipment Co. Hydraulic system for vehicle. 2,936,587, 5-17-60, Cl. 60-51.
- McColl, George Q., to All America Cables and Radio Inc. Duplex telegraph synchronization system. 2,958,728, 11-1-60, Cl. 178-61.
- McColl, William, to Diamond Power Specialty Corp. Fluid heater cleaners. 2,932,053, 4-12-60, Cl. 15-317.
- McCollom, Kenneth A., to Phillips Petroleum Co. Temperature compensated transistor amplifier. 2,945,187, 7-12-60, Cl. 330-24.
- McCollum, Burton. Impact switch. 2,933,300, 4-19-60, Cl. 264-1.
- McCollum, Elmer V., and A. A. Rider. Purification of glutamine. 2,928,869, 3-15-60, Cl. 260-534.
- McCollum, Louis S.: *See*—  
Houston, Harry H., and McCollum. 2,956,893.
- McCollum, Melvin W. Tree harvesting apparatus. 2,948,311, 8-9-60, Cl. 143-32.
- McComb, Richard J. Railroad spring washer. 2,941,564, 6-21-60, Cl. 151-38.
- McCombie, Frederick W., to Megator Pumps and Compressors Ltd. Pumps of the air displacement type. 2,943,578, 7-5-60, Cl. 103-242.
- McCombie, Frederick W., to Megator Pumps & Compressors Ltd. Liquid strainers. 2,957,579, 10-25-60, Cl. 210-242.
- McCombs, Howard L., Jr., to The Bendix Corp. Speed ratio measuring apparatus. 2,949,781, 8-23-60, Cl. 73-507.
- McCombs, Howard L., to The Bendix Corp. Acceleration limiting device. 2,966,161, 12-27-60, Cl. 137-48.
- McConkey, George B., to Sun Oil Co. Transportation of normally gaseous fluids in pipe line system. 2,958,205, 11-1-60, Cl. 62-54.
- McConnaughey, Kenneth E. Bituminous emulsion. 2,941,893, 6-21-60, Cl. 106-170.
- McConnaughey, Paul W., to Mine Safety Appliances Co. Solvent extraction device. 2,941,870, 6-21-60, Cl. 23-259.
- McConnell, Wayne V.: *See*—  
Tamblyn, John W., and McConnell. 2,960,488.
- McConnell, David P. Method of and apparatus for electrostatically separating ore. 2,956,678, 10-18-60, Cl. 209-127.
- McConnell, Frank J.: *See*—  
Ahlfquist, Russell W., and McConnell. 2,930,646.
- McConnell, Frank J., to The American Hardware Corp. Emergency-exit lock. 2,962,889, 12-6-60, Cl. 70-92.
- McConnell, Gene F.: *See*—  
Carl, Louis H., Herndon, and McConnell. 2,930,207.
- McConnell, George T., to Tell-Tronics Products, Inc. Temperature measuring and indicating means. 2,919,580, 1-5-60, Cl. 73-362.
- McConnell, Howard M., to United States Steel Corp. Method for welding plate edges. 2,965,740, 12-20-60, Cl. 219-8.5.
- McConnell, Howard M., and R. J. Leppla, to Jack & Heintz, Inc. Circuit for sensing the highest phase voltage of a polyphase alternating current generator. 2,940,033, 6-7-60, Cl. 322-28.
- McConnell, Kenneth R., to Times Facsimile Corp. Facsimile systems and machines. 2,921,977, 1-19-60, Cl. 178-7.1.
- McConnell, Richard L.: *See*—  
Coover, Harry W., Jr., and McConnell. 2,940,961.
- Coover, Harry W., Jr., and McConnell. 2,947,775.
- Coover, Harry W., Jr., and McConnell. 2,952,666.
- McCall, Marvin A., Coover, and McConnell. 2,957,019.
- McCall, Marvin A., and McConnell. 2,921,086.
- Wicker, Thomas H., Jr., McCall, and McConnell. 2,964,528.
- McConnell, Richard L., and H. W. Coover, Jr., to Eastman Kodak Co. Phosphono-polyesters from 1,4-cyclohexanedi-methanol and polyester-urethanes therefrom. 2,926,145, 2-23-60, Cl. 260-2.
- McConnell, Richard L., and H. W. Coover, Jr., to Eastman Kodak Co. Phosphorothiolothionate derivatives of hydantoins. 2,928,841, 3-15-60, Cl. 260-309.5.
- McConnell, Richard L., and T. H. Wicker, Jr., to Eastman Kodak Co. Phosphorothiolothionates derived from esters of halogen-containing acids. 2,945,053, 7-12-60, Cl. 260-461.
- McConnell, Richard L., and H. W. Coover, Jr., to Eastman Kodak Co. Organophosphorus derivatives of 2,2-dimethyl-1,3-propanediol. 2,952,701, 9-13-60, Cl. 260-461.
- McConnell, Richard L., and H. W. Coover, Jr., to Eastman Kodak Co. Preparation of neutral phosphate esters. 2,960,528, 11-15-60, Cl. 260-461.
- McConnell, Wayne V.: *See*—  
Lappin, Gerald R., and McConnell. 2,964,494.
- McConnell, William M., to Taylor-Wilson Mfg. Co. Controls for pipe drifting machines. 2,922,944, 1-26-60, Cl. 318-286.
- McConnell, William M., to Taylor-Wilson Mfg. Co. Apparatus for attaching couplings. 2,941,284, 6-21-60, Cl. 29-240.
- McConnell, William M., to Taylor-Wilson Mfg. Co. Pipe handling apparatus. 2,959,268, 11-8-60, Cl. 198-19.
- McConnohie, Duane V., to M. S. Pump. Dispenser for hair-dressing liquids. 2,923,441, 2-2-60, Cl. 222-207.
- McConnohie, Duane V., to M. S. Pump. Dispenser for hair-dressing liquids. 2,950,030, 8-23-60, Cl. 222-189.
- McCord, Andrew T., and D. R. Spink, to The Carborundum Co. Process of treating metals. 2,921,836, 1-19-60, Cl. 23-88.
- McCord, Edgar R. and M. E. Trailer boat. 2,954,569, 10-4-60, Cl. 9-1.
- McCord, George P., to United States Rubber Co. All rubber tubeless tire valve. 2,936,017, 5-10-60, Cl. 152-427.
- McCord, George P., to United States Rubber Co. Mold connection and counter. 2,960,105, 11-15-60, Cl. 137-228.
- McCord, Miles E.: *See*—  
McCord, Edgar R. and M. E. 2,954,569.
- McCord, Tommy J., and W. Shive. 2-amino-3(beta-aminoethoxy)-propionic acid and its dihydrochloride salt. 2,959,614, 11-8-60, Cl. 260-534.
- McCordic, James R., to Chrysler Corp. Neutral push button transmission control and starter switch. 2,958,322, 11-1-60, Cl. 123-179.
- McCorkle, Willard H., to United States of America, Atomic Energy Commission. Neutronic reactor with accessible thimble and emergency cooling features. 2,926,127, 2-23-60, Cl. 204-193.2.
- McCormack, Alex A., to Penn Controls, Inc. Refrigeration system. 2,954,681, 10-4-60, Cl. 62-196.
- McCormack, Robert E.: *See*—  
Keller, Gregory H. 2,956,520.
- McCormack, Roger W.: *See*—  
Ward, Samuel L., and McCormack. 2,922,525.
- McCormack, William H.: *See*—  
Brown, Norman M., Jr., and McCormack. 2,955,761.
- McCormick, Clarence E., to Lee Rubber & Tire Corp., d.b.a. Republic Rubber Division. Method of forming flexible vacuum hose. 2,931,069, 4-5-60, Cl. 18-59.
- McCormick, Edward J., and W. F. Muller, Jr., to Johnson & Johnson. Display device. 2,929,498, 3-22-60, Cl. 206-79.
- McCormick, Francis A., and G. W. Maze, to Owens-Illinois Glass Co. Apparatus for cleaning corrugated partition strips. 2,958,882, 11-8-60, Cl. 15-77.
- McCormick, Francis H.: *See*—  
Jacobs, James W., and McCormick. 2,965,428.
- McCormick, Frederick S.: *See*—  
Lahti, Arvo A., Inshaw, and McCormick. 2,921,753.
- McCormick, Hamilton L., to General Motors Corp. Turbine blade locking. 2,963,271, 12-6-60, Cl. 253-77.
- McCormick, Hamilton L., to General Motors Corp. Turbine blade retention. 2,949,278, 8-16-60, Cl. 253-77.
- McCormick, Jerry R. D.: *See*—  
Miller, Philip A., and McCormick. 2,952,587.



- McCormick, Jerry R. D., N. O. Sjolander, and U. Hirsch, to American Cyanamid Co. Biological conversion of 5a(11a)-dehydrotetracyclines to broad-spectrum antibiotics. 2,965,546, 12-20-60, Cl. 195-80.
- McCormick, Jesse C. Means for regulating the depth a submarine device tows through water. 2,928,367, 3-15-60, Cl. 114-235.
- McCormick, John E.: *See*—
- Schriesheim, Alan, Gilbert, and McCormick. 2,966,535.
- McCormick, John E., and E. H. Westerlund, to Union Carbide Corp. Process for manufacture of molecular sieve adsorbents. 2,958,579, 11-1-60, Cl. 23-113.
- McCormick, John M.: *See*—
- Cooke, Charles C., and McCormick. 2,958,160.
- McCormick, Rayna H. Machine for drilling finger holes in bowling balls. 2,948,168, 8-9-60, Cl. 77-31.
- McCormick, Roy O. Filter mouthpiece for cigars and cigarettes. 2,919,699, 1-5-60, Cl. 131-173.
- McCormick, Thomas C. Push button electrical switch. 2,945,111, 7-12-60, Cl. 200-160.
- McCormick, William C. Method of correcting existing track and alignments and means for practicing it. 2,962,979, 12-6-60, Cl. 104-7.
- McCormick, William P. Printing machines. 2,950,673, 8-30-60, Cl. 101-118.
- McCorquodale Colour Display Ltd.: *See*—
- Sanderson, James C. 2,961,949.
- McCoskey, Walter, to Snyder Tool & Engineering Co. Milling cutter. 2,937,575, 5-24-60, Cl. 90-11.
- McCourt, William D.: *See*—
- Greenland, Leonard S., McCourt, and Edwards. 2,935,078.
- McCourt, William D., to H. M. Hobson, Ltd. Fuel supply systems for gas turbine engines. 2,954,039, 9-27-60, Cl. 137-34.
- McCowan, Lida L. Baby feeding utensil. 2,938,645, 5-31-60, Cl. 220-4.
- McCowen, Max C., to Eli Lilly and Co. Amebicidal compositions. 2,922,743, 1-26-60, Cl. 167-65.
- McCoy, Elizabeth F., and W. H. Peterson, to Wisconsin Alumni Research Foundation. Oligomycin and process of preparing the same. 2,927,057, 3-1-60, Cl. 167-65.
- McCoy, Frederic C., M. R. McClure, Jr., R. A. Woodle, and R. L. Murphey, to Texaco Inc. Selective solvent refining process and solvent recovery. 2,935,468, 5-3-60, Cl. 208-321.
- McCoy, George, C. E. Inman, and G. D. Kyker, to Pennsalt Chemicals Corp. Dehydrohalogenation of organic compounds. 2,955,142, 10-4-60, Cl. 260-650.
- McCoy, Rawley D.: *See*—
- Godet, Sidney, and McCoy. 2,964,645.
- McCoy, Rawley D., to Reeves Instrument Corp. Variable time delay apparatus. 2,966,641, 12-27-60, Cl. 333-29.
- McCoy, Robert E., to General Dynamics Corp. Motion transducer. 2,941,170, 6-14-60, Cl. 336-30.
- McCoy, Robert L.: *See*—
- Kaminski, Joseph, Jr., and McCoy. 2,930,839.
- Kaminski, Joseph, Jr., and McCoy. 2,937,225.
- Kaminski, Joseph, Jr., McCoy, and Nauman. 2,937,226.
- McCoy, Thomas A., to Caranda Machine Works. Feed control mechanism for article conveyors. 2,943,724, 7-5-60, Cl. 198-34.
- McCray, Alan A., to Jabsco Pump Co. Pump with flexible impeller and flexible annular cam. 2,933,046, 4-19-60, Cl. 103-117.
- McCracken, William M., to International Resistance Co. Package. 2,919,797, 1-5-60, Cl. 206-45.34.
- McCrary, Lola I. Liquid dribbler for toilet training. 2,947,091, 8-2-60, Cl. 35-17.
- McCreadle, Robert S., to Plast-O-Fab Circuits, Inc. Method of making a printed circuit. 2,955,351, 10-11-60, Cl. 29-155.5.
- McCready, Duane S. Package receiver for automobiles. 2,941,837, 6-21-60, Cl. 296-37.
- McCreary, Harold J., to General Telephone Laboratories, Inc. Relayless line circuit. 2,938,959, 5-31-60, Cl. 179-18.
- McCreary, Harold J., to Automatic Electric Laboratories, Inc. Magnetic memory apparatus. 2,941,189, 6-14-60, Cl. 340-174.
- McCreary, Harold J., to Automatic Electric Laboratories, Inc. Calling station detector. 2,955,166, 10-4-60, Cl. 179-18.
- McCreary, Harold J., to Automatic Electric Laboratories, Inc. Signal translation apparatus employing transistors. 2,963,578, 12-6-60, Cl. 250-20.
- McCreary, Raymond A.: *See*—
- Yost, Lloyd, Wilson, and McCreary. 2,940,039.
- McCreary, Robert M.: *See*—
- Dahl, Einar S., and McCreary. 2,955,583.
- McCreary, William E. Tissue dispenser. 2,942,795, 6-28-60, Cl. 242-55.53.
- McCreery, Albert J., to C. & M. Mfg. Co. Jewelry mounting support. 2,921,677, 1-19-60, Cl. 206-75.
- McCrone, Walter C., Jr.: *See*—
- Johnson, John, Blomquist, and McCrone. 2,959,587.
- McCrory, Rollin J.: *See*—
- McNinch, Joseph H., Jr., and McCrory. 2,937,513.
- McCrory, Rollin J., R. W. King, and D. G. Mark, to The Battelle Development Corp. Free-piston internal combustion apparatus. 2,959,159, 11-8-60, Cl. 123-7.
- McCrory, Rollin J., J. H. McNinch, Jr., and B. Underwood, to The Battelle Development Corp. Fuel injection apparatus. 2,964,026, 12-13-60, Cl. 123-65.
- McCuaig, Franklin D., and R. D. Misch, to United States of America, Atomic Energy Commission. Method and alloy for bonding to zirconium. 2,932,887, 4-19-60, Cl. 29-504.
- McCue, Allen P.: *See*—
- Bauer, William C., McCue, and Rule. 2,954,282.
- Gudmundsen, Austin. 2,964,073.
- Oehrli, John W. 2,958,234.
- McCulley, James M., J. Kiraly, and J. B. Harrison, to United States of America, Navy. Time and events recorder. 2,950,159, 8-23-60, Cl. 346-59.
- McCulloch Corp.: *See*—
- Doble, Abner. 2,949,013.
- Gudmundsen, Austin. 2,923,329.
- Gudmundsen, Austin. 2,924,110.
- Moore, Harold E., and Hazzard. 2,947,399.
- McCulloch Motors Corp.: *See*—
- Cardona, Carlos J., and Milde. 2,919,627.
- McCulloch, William J. G.: *See*—
- Seelbach, Charles W., and McCulloch. 2,925,392.
- Newberg, Raymond G., Miller, and McCulloch. 2,928,759.
- Rehner, John, Jr., and McCulloch. 2,936,271.
- McCulloch, William J. G., and L. B. Turner, to Esso Research and Engineering Co. Polyisobutylene compositions prepared with a condensation product of cyclohexanone with methyl cyclohexanone. 2,944,043, 7-5-60, Cl. 260-45.5.
- McCullough, Frank S., T. P. Goslin, and R. W. Clausing, to Streeter-Amet Co. Weighing conveyors. 2,954,969, 10-4-60, Cl. 265-27.
- McCullough, Hugh S., Jr., and J. M. Hall. Missile attitude control system. 2,965,334, 12-20-60, Cl. 244-14.
- McCullough, Jack A.: *See*—
- Eitel, William W., and McCullough. 2,952,769.
- McCullough, Jack A., G. F. Wunderlich, and P. D. Williams, to Eitel-McCullough, Inc. Method of making electron tubes. 2,935,783, 5-10-60, Cl. 29-25.16.
- McCullough, Jack A., G. F. Wunderlich, and P. D. Williams, to Eitel-McCullough, Inc. Electron tube and socket. 2,952,789, 9-13-60, Cl. 313-49.
- McCullough, James D., to The Babcock & Wilcox Co. Storage tank exposure protection covering. 2,931,211, 4-5-60, Cl. 72-14.
- McCullough, Otis J. Perforating gun. 2,960,008, 11-15-60, Cl. 89-1.
- McCullough, Robert F., to United States of America, Atomic Energy Commission. Production of ammonia and sulfur-bearing materials from ammonium sulfate. 2,927,001, 3-1-60, Cl. 23-193.
- McCullough, Russell H., to C-M Equipment Corp. Vignetting film printer. 2,955,520, 10-11-60, Cl. 95-75.
- McCullough, William E., to Bohn Aluminum & Brass Corp. Aluminum piston with aluminum alloy ring carrier. 2,956,846, 10-18-60, Cl. 309-14.
- McCully, Charles R., to Armour Research Foundation of Illinois Institute of Technology. Ion exchange material from bark and formaldehyde. 2,926,146, 2-23-60, Cl. 260-2.2.
- McCune, Homer W., to The Procter & Gamble Co. Sequestering composition containing a corrosion inhibitor. 2,921,908, 1-19-60, Cl. 252-110.
- McCune, John S., to Jersey Production Research Co. Method and apparatus for completing a well in a plurality of zones. 2,935,131, 5-3-60, Cl. 166-45.
- McCune, Robert F. Fork lift attachment for a crane. 2,941,685, 6-21-60, Cl. 214-671.
- McCurdy, Harry C., to The R. K. LeBlond Machine Tool Co. Tracer mechanism. 2,949,893, 8-23-60, Cl. 121-45.
- McCurdy, Horace L., to Valley Tow-Rite, Inc. Trailer hitch. 2,956,817, 10-18-60, Cl. 280-501.
- McCurdy, Richard M., and J. H. Prager, to Minnesota Mining and Mfg. Co. Polythiaalkylacrylates. 2,925,406, 2-16-60, Cl. 260-79.5.
- McCurdy, Robert J., to United States of America, Navy. Range marks generator. 2,951,205, 8-30-60, Cl. 328-66.
- McCurdy, William H.: *See*—
- Miller, Carl F., and McCurdy. 2,929,668.
- Miller, Carl F., Horner, McCurdy, and Quinn. 2,933,436.
- McCutchan, Arthur: *See*—
- Dickerson, John L., and McCutchan. 2,956,818.
- McCutchen, Charles W.: *See*—
- Dean, Lloyd G., and McCutchen. 2,950,236.
- McCutcheon, David C., and G. Miller. Electrical ignitor device for solid fuels. 2,938,988, 5-31-60, Cl. 219-32.
- McDaniel, Edgar L., and H. S. Young, to Eastman Kodak Co. Preparation of methyl methacrylate. 2,945,057, 7-12-60, Cl. 260-486.
- McDaniel, Henry L., Sr. Trailer brake. 2,956,648, 10-18-60, Cl. 188-112.
- McDaniel, Olin K.: *See*—
- Burns, Thomas S., and McDaniel. 2,957,891.
- McDaniel, Walter L.: *See*—
- Kivett, Jerome S., and McDaniel. 2,962,133.
- McDavitt, Murray: *See*—
- Babcock, Clarence L., and McDavitt. 2,961,328.
- McDavitt, Murray, and H. B. Vincent, to Owens-Illinois Glass Co. Banded hollow glass structural unit. 2,941,393, 6-21-60, Cl. 72-41.
- McDermott, Benjamin L. Heat transfer apparatus. 2,945,627, 7-19-60, Cl. 239-225.
- McDermott, Charles B., to Sterling Drug Inc. Multi-layered pill or tablet with indicating lamination. 2,921,001, 1-12-60, Cl. 167-82.
- McDermott Controls, Inc.: *See*—
- Rogoff, Mortimer. 2,926,299.



- McDermott, John P., to Esso Research and Engineering Co. Hydrocarbon oils having improved electrical properties. 2,951,751, 9-6-60, Cl. 52-5.
- McDermott, John P., and R. D. Closson,  $\frac{1}{2}$  to Esso Research and Engineering Co., and  $\frac{1}{2}$  to Ethyl Corp. Fungicidal compositions. 2,922,738, 1-26-60, Cl. 167-22.
- McDermott, James L. Vehicle washing apparatus. 2,960,707, 11-22-60, Cl. 15-21.
- McDermott, Martin A. Inventory storage container. 2,922,567, 1-26-60, Cl. 229-32.
- McDermott, Vincent. Squeeze bottle valve. 2,927,717, 3-8-60, Cl. 222-213.
- McDermott, William C.: See—
- Whisler, Paul A., and McDermott. 2,961,273.
- McDermut, Whitney. Coin holding greeting cards. 2,954,866, 10-4-60, Cl. 206-84.
- McDevitt, Patrick F.: See—
- Fessler, Frank. 2,958,570.
- McDiarmid, Neil H. Parachute release coupling. 2,933,340, 4-19-60, Cl. 294-83.
- McDonald, Alexander B., deceased; D. K. Higgins, administratrix. Basels for holding cards, photographs, or the like. 2,919,512, 1-5-60, Cl. 40-152.1.
- McDonald, Angus F.: See—
- Sauter, Erwin R., McDonald, and Charlesworth. 2,944,988.
- McDonald, Billy J. Headlight reflector for highways. 2,942,521, 6-28-60, Cl. 88-79.
- McDonald, Charles J.: See—
- Hollingsworth, Clinton A., and McDonald. 2,938,629.
- McDonald, David W.: See—
- Higgins, Thomas D., Jr., McDonald, and McLane. 2,956,029.
- McDonald, David W., to Monsanto Chemical Co. Polymerization inhibitor. 2,965,565, 12-20-60, Cl. 252-1.
- McDonald, David W., to Monsanto Chemical Co. Acylation of hydroxy nitriles. 2,965,669, 12-20-60, Cl. 260-465.4.
- McDonald, David W., and T. C. Singleton, to Monsanto Chemical Co. Acylation of hydroxy nitriles. 2,965,670, 12-20-60, Cl. 260-465.4.
- McDonald, Earl. Parking meter post construction. 2,945,659, 7-19-60, Cl. 248-156.
- McDonald, Edward F., and J. V. Vevirit, to McDonald Products Corp. Paper weight and article holder. 2,956,544, 10-18-60, Cl. 120-1.
- McDonald, Edward N.: See—
- James, Rolf E., and McDonald. 2,956,836.
- McDonald, Elton K.: See—
- McDonald, Jesse D. 2,956,600.
- McDougal, Emeline L. Fireman's ladder. 2,946,396, 7-26-60, Cl. 182-3.
- McDonald, Eugene F., Jr., deceased; E. M. Kinney and E. McCausland, executors. Remote control device. 2,920,604, 1-12-60, Cl. 116-137.
- McDonald, Frank A. Expansion compensator with anti-torque device. 2,931,669, 4-5-60, Cl. 285-45.
- McDonald, Frank A. Bellows-type expansion compensator with anti-torque guide. 2,958,550, 11-1-60, Cl. 285-301.
- McDonald, Frederick W., to A & W Products Inc. Apparatus for individual refrigeration of glass vessels. 2,959,940, 11-15-60, Cl. 62-458.
- McDonald, Frederick W., to A & W Products Inc. Refrigeration devices for individual glass vessels. 2,959,941, 11-15-60, Cl. 62-458.
- McDonald, Frederick W., to A & W Products Inc. Means for individual refrigeration of vessels. 2,959,942, 11-15-60, Cl. 62-526.
- McDonald, Harold: See—
- Anderson, Robert L., and McDonald. 2,924,618.
- McDonald, James E. High speed fish and shrimp trawl. 2,950,557, 8-30-60, Cl. 43-9.
- McDonald, Jesse D., deceased, by E. K. McDonald, administrator. Bun coring machines. 2,956,600, 10-18-60, Cl. 146-52.
- McDonald, John E., to Westinghouse Electric Corp. Gas reaction rotors. 2,935,245, 5-3-60, Cl. 230-114.
- McDonald, John H. Lawn mower sharpener. 2,928,215, 3-15-60, Cl. 51-173.
- McDonald Louis, to Kelite Corp. Metal coating compositions. Re. 24,875, 9-27-60, Cl. 148-6.15.
- McDonald, Michael F., Sr.: See—
- Stanley, Hugh E., Watkins, Stringer, and McDonald. 2,965,694.
- McDonald, Thomas H., and R. E. Dennis, to Vulcan-Cincinnati, Inc. Contact apparatus including sealing means. 2,939,771, 6-7-60, Cl. 23-283.
- McDonald Products Corp.: See—
- McDonald, Edward F., and Vevirit. 2,956,544.
- McDonnell, Edward E.: See—
- Fain, Jacob M., McDonnell, and Miller. 2,962,390.
- McDonnell, Francis R. M.: See—
- Davies, Thomas D., Hampson, McDonnell, and Schmerlaib. 2,955,905.
- McDonnell & Miller, Inc.: See—
- Kmieciak, Leopold J., and Stonich. 2,952,753.
- McDonnell, Richard J.: See—
- Gribble, Fred. 2,965,958.
- McDonnold, Le Roy, to General Motors Corp. Domestic appliance. 2,955,891, 10-11-60, Cl. 312-242.
- McDonough, James O., A. K. Susskind, H. P. Grossimon, and F. F. Lee, to Giddings & Lewis Machine Tool Co. Controls for a typewriter and associated apparatus. 2,963,137, 12-6-60, Cl. 197-1.
- McDonough, John J., to Scott & Williams, Inc. Multiple-feed circular knitting machines. 2,948,130, 8-9-60, Cl. 66-41.
- McDonough, Mildred J. Hair cutting accessory. 2,936,767, 5-17-60, Cl. 132-45.
- McDonough, Sidney L., to United States of America, Navy. Constant response time follow-up system. 2,963,224, 12-6-60, Cl. 235-196.
- McDorman, James A.: See—
- Clonis, Plouton G., and McDorman. 2,949,847.
- McDougall, Franklin M. Valve for refrigeration equipment. 2,939,473, 6-7-60, Cl. 137-115.
- McDougall, John A., to Ford Motor Co. Power window regulator. 2,947,569, 8-2-60, Cl. 296-44.
- McDougall, Robert I.: See—
- Lovett, John R., McDougall, and Winters. 2,955,950.
- McDougle, Joseph A. Garbage can racks. 2,929,512, 3-22-60, Cl. 211-71.
- McDowall, Charles J.: See—
- Atkinson, Robert P., Hoeltje, and McDowall. 2,951,337.
- Atkinson, Robert P., and McDowall. 2,964,132.
- Boyer, Floyd J., Harding, Irwin, McDowall, and Wente. 2,938,340.
- Larkin, Robert G., Dininger, and McDowall. 2,959,228.
- McDowell, Hugh. Timer control mechanism for longitudinally shiftable member. 2,930,239, 3-29-60, Cl. 74-3.52.
- McDowell, Hunter L.: See—
- Elder, Harry E., and McDowell. 2,956,198.
- McDowell, John R., to G. W. Dunham. Lay mechanism. 2,942,627, 6-28-60, Cl. 139-188.
- McDowell Mfg. Co.: See—
- Hempel, Gustav A. 2,925,989.
- Hempel, Gustav A. 2,925,990.
- Hempel, Gustav A. 2,925,991.
- Rickard, Clyde E. 2,925,992.
- Rickard, Clyde E. 2,962,314.
- McDowell, Richard H.: See—
- Merton, Robert R., and McDowell. 2,930,701.
- McDowell, Richard H., and J. L. Boyle, to Alginate Industries Ltd. Powered alginate jelly composition and method of preparing the same. 2,935,409, 5-3-60, Cl. 99-131.
- McDuffee, Robert B. Method and apparatus for soldering. 2,926,231, 2-23-60, Cl. 219-9.5.
- McDuffee, John K., to Western Electric Co., Inc. Method of making glass-to-metal seals. 2,955,385, 10-11-60, Cl. 49-81.
- McDuffie, Archie D., to General Motors Corp. Fuel injection system. 2,953,361, 9-20-60, Cl. 261-23.
- McDuffie, James W.: See—
- Nolt, Edwin B., Eberly, and McDuffie. 2,950,670.
- McDuffie, James W., to Sperry Rand Corp. Hay baler. 2,950,807, 8-30-60, Cl. 198-107.
- McDuffie, James W., to Sperry Rand Corp. Hay balers. 2,953,083, 9-20-60, Cl. 100-142.
- McDuffie, James W., to Sperry Rand Corp. Hay baler with pick-up latching means. 2,955,405, 10-11-60, Cl. 56-341.
- McDuffie, Orville W., to International Paper Co. Bag closure and method of opening bags. 2,934,255, 4-26-60, Cl. 229-66.
- McDunnah, Frederick A. Comb-back storage receptacles. 2,933,092, 4-19-60, Cl. 132-147.
- McDurmont, Walter R.: See—
- Nilsson, Nils L., and McDurmont. 2,964,585.
- McEachern, Alexander B., to Orenda Engines Ltd. Debris guard. 2,931,460, 4-5-60, Cl. 183-70.
- McEachern, Irvin D. Gathering attachments for combines. 2,929,185, 3-22-60, Cl. 56-20.
- McEachern, Irvin D. Grain gathering attachment for combines. 2,948,100, 8-9-60, Cl. 56-119.
- McEachern, Loyd R., to The American Mono Rail Co. Adjustable boot nozzle. 2,946,521, 7-26-60, Cl. 239-547.
- McElhinney, Eric M.: See—
- Kucera, Joseph B., and McElhinney. 2,958,530.
- McElhose, Robert T., to Edgewater Steel Co. Radius and concentricity gauge. 2,949,675, 8-23-60, Cl. 33-178.
- McElrath, Daniel P.: See—
- Pickett, George G., and McElrath. 2,958,501.
- McElrath, James P.: See—
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- McElroy, Albert D.: See—
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- McElroy, Albert D., to Callery Chemical Co. Preparation of boron trichloride. 2,943,916, 7-5-60, Cl. 23-205.
- McElroy, Allen G.: See—
- Bayard, Robert T., and McElroy. 2,965,780.
- McElroy, Clyde H. Polishing and grinding table. 2,949,908, 8-23-60, Cl. 125-30.
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- Allen, Louis B., McElroy, and Stein. 2,955,974.
- McElroy, George E., to Allen B. Du Mont Laboratories, Inc. Calibrator circuit. 2,933,729, 4-19-60, Cl. 343-113.
- McElvain, John A.,  $\frac{1}{2}$  to P. T. Applegarth. Inertia switch. 2,966,562, 12-27-60, Cl. 200-61.5.
- McElvany, James L. Pipe-laying apparatus. 2,921,543, 1-19-60, Cl. 111-5.



- McEney, Lawrence L. M. Razor and blade holder. 2,960,237, 11-15-60, Cl. 211-87.
- McEntee, Edward F.: *See—*  
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- McEntee, Frank J., Jr. Process and apparatus for continuous calcination of gypsum and the like. 2,953,365, 9-20-60, Cl. 263-21.
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- McEwen, William J.: *See—*  
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- McFadden, Ernest B.: *See—*  
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- McFadden, Ray E.: *See—*  
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- McFaddin, Ray D., to James Lees and Sons Co. Method of sewing binding tape to pile fabric. 2,949,086, 8-16-60, Cl. 112-267.
- McFadyen, William F.: *See—*  
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- McFall, John C., and P. R. Crookshank, to Eastman Kodak Co. Supersensitization of photographic silver halide emulsions. 2,933,390, 4-19-60, Cl. 96-100.
- McFarlan, Alden I. Air conditioning. 2,935,857, 5-10-60, Cl. 62-159.
- McFarland, Arthur E. and A. F. Combined high and low pressure pumping apparatus. 2,938,465, 5-31-60, Cl. 103-37.
- McFarland, Artie F.: *See—*  
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- McFarland, Douglas F. Transmission. 2,924,984, 2-16-60, Cl. 74-364.
- McFarland, Forest R., to General Motors Corp. Fluid supply system. 2,963,289, 12-6-60, Cl. 267-65.
- McFarland, Gerald B., to M. B. McFarland & Sons. Flap closure and opening means for containers or the like. 2,962,205, 11-29-60, Cl. 229-85.
- McFarland, Gerald B., to M. B. McFarland & Sons. Container construction. 2,964,233, 12-13-60, Cl. 229-73.
- McFarland, James L., to Lockheed Aircraft Corp. Quick release cable support clamp. 2,931,607, 4-5-60, Cl. 248-68.
- McFarland, John W., to E. I. du Pont de Nemours and Co. Process for the polymerization of alpha-olefins. 2,920,062, 1-5-60, Cl. 260-79.3.
- McFarland, M. B., & Sons: *See—*  
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- McFarland, Norman T., to M. I. Glass. Molding toy. 2,954,597, 10-4-60, Cl. 25-118.
- McFarland, Norman T., to M. I. Glass. Molding toy. 2,964,791, 12-20-60, Cl. 13-42.
- McFarland, Rolland, Jr., to Hills-McCanna Co. Valve diaphragm and method of making the same. 2,947,325, 8-2-60, Cl. 137-793.
- McFarland, William E. Current actuated sensing apparatus. 2,921,241, 1-12-60, Cl. 317-148.
- McFarlane, Arthur M., to Russier's, Inc. Machine for removing covers and contents from container. 2,946,470, 7-26-60, Cl. 214-304.
- McFarlane, John W., to Eastman Kodak Co. Filter computer. 2,960,267, 11-15-60, Cl. 235-64.7.
- McFarlane, William D., to Canadian Breweries Ltd. Treatment of brewer's wort. 2,939,791, 6-7-60, Cl. 99-48.
- McFaul, Gordon P.: *See—*  
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- McFee, Richard, to Bell Telephone Laboratories, Inc. Integrating accelerometer. 2,938,390, 5-31-60, Cl. 73-616.
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- McGabee, John C., to The B. F. Goodrich Co. Sewing machine. 2,955,552, 10-11-60, Cl. 112-2.
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- McGaughey, Patrick J. Recovery of elemental sulphur from sulphur bearing materials. 2,934,413, 4-26-60, Cl. 23-308.
- McGavern, Sanford A., Jr., and B. W. Campbell, to The Dayton Rubber Co. Extensible diaphragm fluid cylinder. 2,933,308, 4-19-60, Cl. 267-15.
- McGavern, Sanford A., Jr., and B. W. Campbell, to Dayco Corp. Telescoping fluid cylinder. 2,960,333, 11-15-60, Cl. 267-65.
- McGayhey, Robert E., and J. A. Triche, Jr., to International Business Machines Corp. Turntable mechanism. 2,962,240, 11-29-60, Cl. 242-55.18.
- McGeary, Robert K., and W. M. Justusson, to United States of America, Atomic Energy Commission. Heat treated U-Mo alloy. 2,926,113, 2-23-60, Cl. 148-32.
- McGeary, Robert K., to Westinghouse Electric Corp. Recovery of materials from fuel elements. 2,962,371, 11-29-60, Cl. 75-84.1.
- McGee, James D., to Electric & Musical Industries Ltd. Electron multipliers. 2,942,133, 6-21-60, Cl. 313-104.
- McGee, James D., and H. D. Evans, to National Research Development Corp. Electron image intensifying devices. 2,943,206, 6-28-60, Cl. 250-207.
- McGee, John V. Ladies hair clasp device. 2,924,228, 2-9-60, Cl. 132-46.
- McGee, Richard. Fastening device. 2,961,725, 11-29-60, Cl. 24-73.
- McGehee, Bobby L., to Boeing Airplane Co. Sound suppressor for jet engines. 2,959,917, 11-15-60, Cl. 60-35.6.
- McGhee, John D., to Minneapolis-Honeywell Regulator Co. Measuring apparatus. 2,942,185, 6-21-60, Cl. 324-78.
- McGinn, Leonard, to A. Donald, d.b.a. King Sales & Engineering Co. Carton package. 2,931,490, 4-5-60, Cl. 208-65.
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- McGillis, John J. and H. D. Methods and means for renovating corrosion-deteriorated tanks. 2,939,801, 6-7-60, Cl. 117-2.
- McGinley, William J., and W. T. Jensen, to Methode Mfg. Corp. Quick-detachable electric plug. 2,953,770, 9-20-60, Cl. 339-195.
- McGinn, John H. Ballistic particle size discriminator. 2,926,783, 3-1-60, Cl. 209-135.
- McGinn, John H. Ballistic particle size discriminator. 2,932,394, 4-12-60, Cl. 209-135.
- McGinnis, Thomas D., T. W. Mohle, and W. E. Nichols, to Turtle Back Pipe Co. Core apparatus for forming arched pipe. 2,929,125, 3-22-60, Cl. 25-128.
- McGinty, Robert L.: *See—*  
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- McGough, Catherine J.: *See—*  
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- McGowen, Harold E., Jr., and D. E. Daffin, to Camco, Inc. Sliding sleeve well tool. 2,949,963, 8-23-60, Cl. 166-224.
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- McGrath, John F., to Baldwin-Lima-Hamilton Corp. Pressure cell. 2,942,219, 6-21-60, Cl. 338-5.
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- McGrath, Joseph J., to Gulf Research & Development Co. Insecticidal composition comprising an acylated piperazine and a member of group of pyrethrin and allethrin. 2,955,071, 10-4-60, Cl. 167-24.
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- McGrath, Raymond V., to Chicago Bridge & Iron Co. Double wall pressure vessel. 2,955,723, 10-11-60, Cl. 220-20.5.
- McGrath, William L., to Carrier Corp. Purging arrangements for absorption refrigeration systems. 2,940,274, 6-14-60, Cl. 62-85.
- McGrath, William L., to Carrier Corp. Refrigeration system control. 2,944,411, 7-12-60, Cl. 62-196.
- McGrath, William L., to Carrier Corp. Air conditioner control. 2,952,990, 9-20-60, Cl. 62-163.
- McGrath, William L., to Carrier Corp. Refrigeration system having air flow varying means. 2,959,929, 11-15-60, Cl. 62-89.
- McGrath, William L., to Carrier Corp. Valve structure. 2,960,269, 11-15-60, Cl. 236-1.



- McGrath, William L., to Carrier Corp. Air conditioning system with reheating means. 2,961,844, 11-29-60, Cl. 62-173.
- McGrath, William L., to Carrier Corp. Air conditioning unit. 2,962,952, 12-6-60, Cl. 98-38.
- McGraw, Bernard K., and J. E. Robertson, to North American Aviation, Inc. Crossbearing gimbal. 2,938,459, 5-31-60, Cl. 102-49.
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- McGraw, George P., Jr., to Western Electric Co., Inc. Apparatus for producing printed wiring by metal vaporization. 2,948,261, 8-9-60, Cl. 118-49.
- McGraw, George P., Jr., to Western Electric Co., Inc. Device for shaping articles. 2,965,149, 12-20-60, Cl. 153-32.
- McGraw, Lora, to Glen Raven of California. Merchandise display device. 2,927,699, 3-8-60, Cl. 211-51.
- McGraw, Riley K.: See—
- Harper, Charles E., and McGraw. 2,940,264.
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- McGregor, Arvin D., to Holley Carburetor Co. Rotary perforator. 2,956,740, 10-18-60, Cl. 234-49.
- McGregor, Donald R.: See—
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- McGregor, John C., to Orenda Engines Ltd. Means for retaining bolts in position during assembly. 2,921,655, 1-19-60, Cl. 189-36.
- McGregor, Ralph, to General Motors Corp. Motor-compressor suspension. 2,929,552, 3-22-60, Cl. 230-235.
- McGregor, Ralph, to General Motors Corp. Refrigerating apparatus. 2,943,782, 7-5-60, Cl. 230-20.
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- McGriff, Stuart G., to Callery Chemical Co. Production of alkali metals. 2,930,689, 3-29-60, Cl. 75-66.
- McGuckin, Glenn M. System for measuring the use of a phonograph needle. 2,958,949, 11-8-60, Cl. 33-125.
- McGuigan, John H., to Bell Telephone Laboratories, Inc. Magnetic core shift register circuits. 2,942,241, 6-21-60, Cl. 340-174.
- McGuire, Thomas H., and W. E. Moss, to Wilson & Co., Inc. Separation of fatty oil substances. 2,952,696, 9-13-60, Cl. 260-419.
- McGuinness, Bernard A. Vehicle-parking facilities. 2,945,603, 7-19-60, Cl. 214-16.1.
- McGuire, George E.: See—
- Pharris, John A., and McGuire. 2,965,068.
- McGuire, George E., R. F. Uren, and F. G. Woodside, to L. A. Young Spring & Wire Corp. Hydraulically actuated derrick attachment for vehicles. 2,923,418, 2-2-60, Cl. 212-59.
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- Stogner, Joel M., and McGuire. 2,955,654.
- McGuire, John C. Method of making rattan furniture. 2,936,009, 5-10-60, Cl. 144-309.
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- McGuire, Thomas B., to Reed Research Inc. Electric display sign. 2,920,408, 1-12-60, Cl. 40-52.
- McGuire, William J., Jr., and L. R. Kern, to The Atlantic Refining Co. Increasing permeability of subsurface formations. 2,950,247, 8-23-60, Cl. 252-8.55.
- McGungile, Richard D.: See—
- Welkowitz, Walter, McGungile, and Palush. 2,937,292.
- McGungile, Richard D., to Gulfon Industries, Inc. Piezo-electric ultrasonic transducer. 2,947,886, 8-2-60, Cl. 310-8.3.
- McGurty, James A., J. F. Collins, and V. P. Calkins, to United States of America, Atomic Energy Commission. Oxidation resistant chromium alloy. 2,955,937, 10-11-60, Cl. 75-176.
- McHan, Brack B., to Calcium Carbonate Co. Putty powders and putty compositions made therefrom. 2,929,734, 3-22-60, Cl. 106-260.
- McHan, Brack B., to Calcium Carbonate Co. Putty powder and putty compositions made therefrom. 2,937,954, 5-24-60, Cl. 106-260.
- McHargue, William L., to West Point Mfg. Co. Reed positioning mechanism for terry looms. 2,947,327, 8-2-60, Cl. 139-27.
- McHenry, Charles W., to Northrop Corp. Honeycomb splice clamp. 2,952,282, 9-13-60, Cl. 144-297.
- McHenry, Warren B. Fence post clamp. 2,947,055, 8-2-60, Cl. 24-259.
- McHorse, H. B. Cable clamps. 2,942,316, 6-28-60, Cl. 24-135.
- McHugh, James: See—
- Abeel, Theodore E., Greenberg, and McHugh. 2,935,669.
- McIlvain, John G., and G. J. Wolfer, to Downingtown Paper Box Co. Series drive for web fed rotary printing machine. 2,942,543, 6-28-60, Cl. 101-181.
- McIlvaine, Douglas K.: See—
- Soreng, Edgar M., McIlvaine, and Beller. 2,938,384.
- McIlvaine, Oran T. Photo tubes and their manufacture. 2,922,216, 1-26-60, Cl. 29-25.13.
- McIlvaine, Oran T. Automatic headlight dimming apparatus. 2,928,025, 3-8-60, Cl. 315-83.
- McIlvaine, Oran T. Headlight dimming systems. 2,962,628, 11-29-60, Cl. 315-83.
- McIlvaine, Robert L., and A. G. Granath, to Herbert Simpson Corp. Multiple stage mixing apparatus. 2,943,801, 7-5-60, Cl. 241-124.
- McIlvin, Donald B., to United Shoe Machinery Corp. Hand-held automatic devices for driving headed fasteners. 2,956,282, 10-18-60, Cl. 1-18.
- McIlvried, Edwin J., to The Vaughn Machinery Co. Wire treating apparatus. 2,963,368, 12-20-60, Cl. 266-3.
- McIlwain, Knox, to Hazeltine Research, Inc. Code-setting device. 2,948,886, 8-9-60, Cl. 340-345.
- McIlwain, Samuel D., to Detroit Stamping Co. Portable toggle clamp with trigger release. 2,937,677, 5-24-60, Cl. 144-302.
- McInerney, John A., to United States of America, Atomic Energy Commission. Valve locking means. 2,922,615, 1-26-60, Cl. 251-89.
- McInerney, John A., to Crane Co. Swing check valve. 2,923,317, 2-2-60, Cl. 137-527.2.
- McInnes, William, to The Power-Gas Corp. Ltd. Valves. 2,947,511, 8-2-60, Cl. 251-203.
- McIntire, Christian H. Automobile signalling device. 2,939,108, 5-31-60, Cl. 340-127.



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- McIntosh, Claude H.: *See*—  
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- McIntosh, Claude H., and W. P. Ballard, to Texaco Inc. Fluid contact coking of hydrocarbon oils. 2,944,962, 7-12-60, Cl. 208-127.
- McIntosh, Garrett O.: *See*—  
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- McIntosh, Glen E.: *See*—  
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- McIntosh, Harold A., and J. W. Stockton; said Stockton assor, to said McIntosh. Air conditioning system. 2,964-298, 12-13-60, Cl. 257-267.
- McIntosh, James A.: *See*—  
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- Griset, Ernest J., Jr., and McIntosh. 2,924,000.
- McIntosh, Judson C. Body exercising device. 2,930,614, 3-29-60, Cl. 272-82.
- McIntosh Laboratories, Inc.: *See*—  
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- McIntosh, Ralph O.: *See*—  
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- McIntosh, Robert B., to The Euclid Crane & Hoist Co. Hoist load sensing device. 2,924,766, 2-9-60, Cl. 318-302.
- McIntosh, William A., to West Virginia Pulp and Paper Co. Foam producing composition. 2,958,658, 11-1-60, Cl. 252-3.
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- McIntyre, Brouwer D., and C. J. Smith, to Monroe Auto Equipment Co. Trailer suspension. 2,933,328, 4-19-60, Cl. 280-106.5.
- McIntyre, Daniel, and J. I. Morgan, to The Prime Mfg. Co. Adapter for portable gas tester. 2,958,219, 11-1-60, Cl. 73-4.
- McIntyre, James L.: *See*—  
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- McIntyre, James W., and J. F. Hechtman, to Kimberly-Clark Corp. Cohesive bonds. 2,962,404, 11-29-60, Cl. 154-46.
- McIntyre, Roy L. Means and method of television program recording. 2,960,567, 11-15-60, Cl. 178-6.6.
- McIntyre, William C.: *See*—  
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- McIntyre, William E., Jr., to E. I. du Pont de Nemours and Co. One-side film coating process. 2,933,417, 4-19-60, Cl. 117-111.
- McIntyre, William J. Animal scratcher and oiler. 2,945,474, 7-19-60, Cl. 119-157.
- McIntyre, William J. Salt and powder dispenser for animals. 2,966,136, 12-27-60, Cl. 119-53.5.
- McIvor, John H.: *See*—  
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- McKay, Alexander S.: *See*—  
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- Reynolds, Ralph C., and McKay. 2,965,753.
- McKay, Alexander S., to Texaco Inc. Method of tracing fluid streams. 2,932,741, 4-12-60, Cl. 250-43.5.
- McKay, Alexander S., to Texaco Inc. Radioactivity bore hole logging. 2,936,375, 5-10-60, Cl. 250-83.3.
- McKay, Alexander S., to Texaco Inc. Radioactivity analysis. 2,938,119, 5-24-60, Cl. 250-43.5.
- McKay, Arthur F.: *See*—  
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- Podessa, Ctirad, and McKay. 2,948,752.
- McKay, Arthur F., and C. Podessa, to Monsanto Canada Ltd. Stabilized phenol-formaldehyde resins. 2,937,159, 5-17-60, Cl. 260-59.
- McKay, Arthur F., and D. L. Garmaise, to Monsanto Canada Ltd. 3,4-dichlorobenzylisothiocyanate. 2,943,106, 6-28-60, Cl. 260-454.
- McKay, Dwight L., to Phillips Petroleum Co. Removal of reactant materials from a pressure vessel. 2,921,593, 1-19-60, Cl. 137-14.
- McKay, George R., and P. H. Settlege, to E. I. du Pont de Nemours and Co. Solid copolymer of propylene and bicyclo-(2,2,1)-2-heptene. 2,934,527, 4-26-60, Cl. 260-88.2.
- McKay, Gordon B.: *See*—  
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- McKay, John F., and O. C. Slotterbeck, to Esso Research and Engineering Co. Diisocyanate-conjugated diolefin foam product and method of preparing same. 2,921,039, 1-12-60, Cl. 260-2.5.
- McKay, John F., and A. H. Gleason, to Esso Research and Engineering Co. Stabilizing the viscosity of oxidized drying oils. 2,942,996, 6-28-60, Cl. 106-285.
- McKay Machine Co., The: *See*—  
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- McKay, Michael W.: *See*—  
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- McKay, Thomas L., H. L. Oliver, and R. J. Starriett, to Long-Lok Corp. Method of and apparatus for fabricating self-locking threaded fastening members. 2,956,293, 10-18-60, Cl. 10-2.
- McKean, Herbert B., L. K. Ross, J. W. Smith, and J. M. Willows, to Potlatch Forests Inc. Device for constructing laminated boards. 2,919,732, 1-5-60, Cl. 144-279.
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- McKechnie, Ian C., to Morse Corp. Electrically driven wheel assembly. 2,923,365, 2-2-60, Cl. 180-11.
- McKechnie, Ian C., to Elox Corp. of Michigan. Pulsed arc machining. 2,951,930, 9-6-60, Cl. 219-69.
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- Werner, Tage. 2,959,308.
- McKee Co., The: *See*—  
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- McKee, Dale W.: *See*—  
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- McKee Development Corp.: *See*—  
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- McKee, Donovan S., to Borg-Warner Corp. Well casing perforator. 2,925,775, 2-23-60, Cl. 102-20.
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- McKee, John S. Self-expanding mandrel for pile casings. 2,928,252, 3-15-60, Cl. 61-79.
- McKee, Kenneth R., to Technical Electronics Corp. Air-actuated electrical contact probe. 2,954,521, 9-27-60, Cl. 324-72.5.
- McKee, Laird C.: *See*—  
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- McKee, Ralph H., to McKee Development Corp. Screw press. 2,960,926, 11-22-60, Cl. 100-117.
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- McKeegan, Richard G. Portable cleaner for upholstery, walls and the like. 2,960,710, 11-22-60, Cl. 15-128.
- McKeehan, Bruce, and H. H. Redess. Split shot pliers with magazine handle. 2,920,514, 1-12-60, Cl. 81-15.
- McKeeney, Henry F., and W. F. Weber, to Sperry Rand Corp., Ford Instrument Co. Division. Airborne wind computer. 2,928,603, 3-15-60, Cl. 235-189.
- McKeever, Charles H., and H. R. Raterink, to Rohm & Haas Co. Process for preparing  $\alpha$ -cyanoacrylates. 2,926,188, 2-23-60, Cl. 260-465.4.
- McKeever, Charles H., and L. R. Freimiller, to Rohm & Haas Co. Manufacture of benzoic acid. 2,952,703, 9-13-60, Cl. 260-523.
- McKeever, Charles H., and R. N. Washburne, to Rohm & Haas Co. Process for the preparation of menthane diamine. 2,955,138, 10-4-60, Cl. 260-563.
- McKeggie, William A., to D. Napier & Son Ltd. Device for sensing the rate of change of flow of liquids. 2,956,576, 10-18-60, Cl. 137-100.
- McKeggie, William A., G. P. Dorey, T. E. Godden, E. H. Morris, and R. A. Cotton, to D. Napier & Son Ltd. and Rotol Ltd. Control systems for aircraft engines. 2,925-867, 2-23-60, Cl. 170-135.22.
- McKellar, John D. Fluid driven vibrator. 2,960,316, 11-15-60, Cl. 259-1.
- McKellip, Spencer W. Key switching and octave coupling mechanism. 2,941,433, 6-21-60, Cl. 84-1.01.
- McKelvey, Harold E.: *See*—  
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- McKenchnie, Ian C., to Elox Corp. of Michigan. Electro-hydraulic power feed. Re. 24,773, 2-2-60, Cl. 314-61.
- McKend, John E. R. Strapless apron. 2,955,292, 10-11-60, Cl. 2-48.
- McKenna, James F., to Pittsburgh Plate Glass Co. Water dispersible interpolymers. 2,941,968, 6-21-60, Cl. 260-23.
- McKenna, Philip M., to Kennametal, Inc. Cemented carbide drill rod pipe coupling having a replaceable wear element. 2,955,847, 10-11-60, Cl. 285-16.
- McKenna, Quentin H.: *See*—  
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- McKenney, Henry F.: *See*—  
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- McKenney, Henry F., to Sperry Rand Corp., Ford Instrument Co. Division. Feedback with half wave circuit. 2,923,877, 2-2-60, Cl. 323-89.
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- McKenney, Henry F., and V. H. Seliger, to Sperry-Rand Corp., Ford Instrument Co. Div. Precision altimeter for aircraft. 2,949,779, 8-23-60, Cl. 73-384.
- McKenney, Henry F., G. A. Lieske, J. M. Scutt, and R. W. Unold, to Sperry Rand Corp., Ford Instrument Co. Div. Ground position indicator system. 2,951,639, 9-6-60, Cl. 235-187.
- McKenzie, Clarence M. Anti-skid device. 2,919,738, 1-5-60, Cl. 152-228.



- McKenzie, Crystal A. Cigarette, cigar or pipe holder for golf bags, buggies or the like. 2,931,365, 4-5-60, Cl. 131-241.
- McKenzie, Donald E., to Atomic Energy of Canada Ltd. Decontamination of plutonium-aluminum alloy material. 2,934,424, 4-26-60, Cl. 75-84.1.
- McKenzie, Louis P., to Apartment Furniture Co. Relaxer. 2,947,009, 8-2-60, Cl. 8-327.
- McKenzie, Theodore R., to United States of America, Atomic Energy Commission. Strontium precipitation. 2,952,641, 9-13-60, Cl. 252-301.1.
- McKeon, Charles E.: See—
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- McKinlay, Donald, Jr., to The Bristol Co. Variable sensitivity measuring apparatus. 2,941,147, 6-14-60, Cl. 34-99.
- McKinley, Clyde, to Air Products Inc. Liquid explosive. 2,939,778, 6-7-60, Cl. 52-1.
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- Hawk, William M., Jr. and S. S. 2,932,105.
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- McKinley, Roe L. and J. M. 2,932,282.
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- McKinley, John K., B. F. Smith, and S. P. Dickens, to Texaco Inc. Process for production of calcium carbide and hydrogen. 2,950,956, 8-30-60, Cl. 23-208.
- McKinley, John K., B. F. Smith, and S. P. Dickens, to Texaco Inc. Coking oil with a fluidized bed of calcium oxide. 2,953,518, 9-20-60, Cl. 208-127.
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- McKinley, Roe L. and J. M. Fluid actuated systems for operating and locking control elements. 2,932,282, 4-12-60, Cl. 121-40.
- McKinney, Charles D., Jr., to Hercules Powder Co. Apparatus and method for continuous nitration. 2,951,866, 9-6-60, Cl. 260-467.
- McKinney, David S., and J. P. Fugassi, to American-Marietta Co., Stoner-Mudge Co. Division. Electrolytic polymerization of phenol. 2,961,384, 11-22-60, Cl. 204-14.
- McKinney, Robert M., and G. S. Reeder, Jr., to E. I. du Pont de Nemours and Co. Process for sulfating titaniferous material. 2,953,434, 9-20-60, Cl. 23-117.
- McKinnie, Roston C. Combination step-extension ladder. 2,962,111, 11-29-60, Cl. 182-22.
- McKinnis, Art C., to Union Oil Co. of California. Monodecarboxylation of trimellitic acid anhydride. 2,958,701, 11-1-60, Cl. 260-346.7.
- McKinnis, Art C., and W. D. Schaeffer, to Collier Carbon and Chemical Corp. Manufacture of polyethylene. 2,921,933, 1-19-60, Cl. 260-94.9.
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- McKusick, Blaine C., to E. I. du Pont de Nemours and Co. Initiation of polymerization by pre-irradiated solid carboxylic acids, amides and nitriles. 2,940,912, 6-14-60, Cl. 204-154.
- McKusick, Blaine C., to E. I. du Pont de Nemours and Co. Process for preparing carboxylic acids by irradiation. 2,940,913, 6-14-60, Cl. 204-154.
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- McLafferty, George H., to United Aircraft Corp. Supersonic inlet. 2,938,334, 5-31-60, Cl. 60-35.6.
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- Scharla-Nielsen, Hans, McRae, and McLamb. 2,925,477.
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- McLane, Stanley R.: See—
- Howard, William L., McLane, and Weintraub. 2,937,935.
- McLaren, Edward, to E. Ladenheim. Spark plug. 2,942,135, 6-21-60, Cl. 313-136.
- McLaren, Gordon A., to Shell Oil Co. Asphalt manufacture. 2,965,559, 12-20-60, Cl. 208-41.
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- McLaughlin, Eli H., to Libbey-Owens-Ford Glass Co. Hardware attaching means. 2,936,050, 5-10-60, Cl. 189-36.
- McLaughlin, George H., H. A. Harvey, W. O. Cartier, and W. A. Robinson, to Crossland Licensing Corp. Ltd. Method of geophysical prospecting. 2,931,974, 4-5-60, Cl. 324-8.
- McLaughlin, Hugh R. Cylinder flat bed printing machines. 2,958,276, 11-1-60, Cl. 101-270.
- McLaughlin, James A. Method for making form ties. 2,928,170, 3-15-60, Cl. 29-444.
- McLaughlin, James K., and W. F. Meredith, to Ajax Magnethermic Corp. Induction heating. 2,939,591, 6-7-60, Cl. 214-23.
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- McLaughlin, Robert L., L. O. Miller, and J. W. Schick, to Socony Mobil Oil Co., Inc. High energy chemical jet fuel. 2,964,393, 12-13-60, Cl. 52-5.
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- McLean, Daniel C., to American Cyanamid Co. Multi-stage adsorption of pentavalent vanadium values on anion exchange resins. 2,937,072, 5-17-60, Cl. 23-19.
- McLean, Daniel C., to American Cyanamid Co. Process for eluting pentavalent vanadium values from ion exchange resins. 2,937,073, 5-17-60, Cl. 23-19.
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- McLean, Douglas K.: See—
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- McLean, William B., to United States of America, Navy. Inertia arming switch. 2,928,347, 3-15-60, Cl. 102-702.
- McLean, William B., to United States of America, Navy. Release mechanism. 2,935,950, 5-10-60, Cl. 102-70.2.
- McLean, William B., to Dravo Corp. Bucket unloader. 2,954,879, 10-4-60, Cl. 212-84.
- McLean, William B., and B. R. Perry, said McLean assor. to said Perry. Apparatus for wire winding of tanks, tubes and the like. 2,953,310, 9-20-60, Cl. 242-7.
- McLearn, Herbert M., to American Machinery Corp. Container filling and weighing apparatus. 2,936,993, 5-17-60, Cl. 249-60.
- McLeland, Harold H., to Clay Equipment Corp. Barn-gutter cleaner. 2,966,256, 12-27-60, Cl. 198-224.
- McLellan, William H., to Consolidated Electrodynamics Corp. Galvanometer. 2,927,273, 3-1-60, Cl. 324-154.
- McLellan, William H., to Bell & Howell Co. Galvanometer. 2,936,419, 5-10-60, Cl. 324-154.
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- McLennan, Leo F. Display rack. 2,921,826, 1-19-60, Cl. 312-45.
- McLennan, Peter J. Shoe cleaning apparatus. 2,933,752, 4-26-60, Cl. 15-311.
- McLeod, Norman F., to Phillips Petroleum Co. Process for recovering polymers of 1-olefins from hydrocarbon solutions. 2,957,855, 10-25-60, Cl. 260-88.2.
- McLeod, Norman P. Serving tray. 2,948,391, 8-9-60, Cl. 206-81.
- McLeod, Paul W., to Deere & Co. Sod mulcher for grain drills. 2,924,189, 2-9-60, Cl. 111-80.
- McLeod, Stewart B., to Dura Corp. Hydraulic cylinder. 2,957,734, 10-25-60, Cl. 309-2.
- McLeod, Thomas S., to The Plessey Co. Ltd. Method and apparatus for producing quality controlled pulp molded articles. 2,963,397, 12-6-60, Cl. 162-198.
- McLerran, Archie R.: *See*—  
Thorson, Warren K., and McLerran. 2,946,561.
- McLoughlin, William G., to Hayes Aircraft Corp. High speed pay out reel. 2,950,876, 8-30-60, Cl. 242-128.
- McLouth Steel Corp.: *See*—  
Kibble, Edgar D. 2,925,691.
- McLucas, John L.: *See*—  
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- McLure, Carl B. Stage expansion reaction turbines. 2,945,619, 7-19-60, Cl. 230-116.
- McMahan, Durward B., to Welox, Inc. Opening and closing device for well bore caliper. 2,927,377, 3-8-60, Cl. 33-178.
- McMahan, John R.: *See*—  
Wrenshall, Charlton L., McMahan, and Ottke. 2,942,982.
- McMahan, Roy F., Sr. Fastening. 2,927,340, 3-8-60, Cl. 16-159.
- McMahon, Howard O.: *See*—  
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- McMahon, Howard O., to Arthur D. Little, Inc. Method and means for controlling temperatures adjacent living bodies. 2,938,356, 5-31-60, Cl. 62-3.
- McMahon, Howard O., to Arthur D. Little, Inc. Multiple-characteristic superconductive wire. 2,958,836, 11-1-60, Cl. 338-32.
- McMahon, James F., Jr., to Cleveland Fuel Equipment Co. Draft control. 2,965,731, 12-20-60, Cl. 200-83.
- McMahon, Martin E., to Phillips Petroleum Co. Waste water processing system. 2,930,753, 3-29-60, Cl. 210-21.
- McMahon, Stephen J., Jr. Key for container having tear strip. 2,963,196, 12-6-60, Cl. 220-52.
- McManamon, Dea T. Steering wheel power mechanism. 2,940,535, 6-14-60, Cl. 180-79.2.
- McManhon, Harry G. Predetermined torque release hand tool. 2,933,959, 4-26-60, Cl. 81-52.4.
- McManigal, Robert M.: *See*—  
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- McManis, Louis B., to Pan American Petroleum Corp. Seismic amplifier gain control. 2,935,697, 5-3-60, Cl. 330-145.
- McMann, John F.: *See*—  
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- McManus, Richard J., to United States of America, Army. Rubber crimping device. 2,956,471, 10-18-60, Cl. 86-39.
- McManus, Roger F. Bottom filler for welt shoes. 2,961,780, 11-29-60, Cl. 36-71.
- McMartin, James I., to The Fenn Mfg. Co. Tube drawing machine. 2,921,671, 1-19-60, Cl. 205-3.
- McMaster, David M. Multiple cultivator. 2,934,155, 4-26-60, Cl. 172-640.
- McMechen, William F., 1/2 to H. J. Jacobi. Convertible bridge and poker table tops. 2,943,902, 7-5-60, Cl. 312-285.
- McMeekin, Thomas B.: *See*—  
Kelgard, Erik, and McMeekin. 2,935,978.
- McMichael, James M., Jr., to United States of America, Navy. Range finder operator's seat. 2,937,692, 5-24-60, Cl. 155-88.
- McMichael, John D., to General Motors Corp. Cleaner silencer assembly. 2,954,091, 9-27-60, Cl. 181-33.
- McMichael, Robert G.: *See*—  
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- McMillan, Clarence L., and S. S. Snell. Mattress-attachable vibrator. 2,920,619, 1-12-60, Cl. 128-33.
- McMillan, Donald A.: *See*—  
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- McMillan, Edward B., and R. M. Redheffer. Dielectric walls for transmissions of electromagnetic radiation. 2,956,281, 10-11-60, Cl. 343-87.2.
- McMillan, Edwin M.: *See*—  
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- McMillan, Edwin M., to United States of America, Navy. Laminated acoustic window. 2,960,175, 11-15-60, Cl. 181-5.
- McMillan Industrial Corp.: *See*—  
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- McMillan, John C.: *See*—  
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- McMillan, Stephen L., and D. J. Massa, to General Electric Co. Room air conditioner condensate disposal. 2,961,843, 11-29-60, Cl. 62-150.
- McMillan, William L.: *See*—  
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- McMillan, Wilbur M., R. W. Lowrie, and E. J. Raser, to International Business Machines Corp. Magnetic core buffer storage. 2,946,985, 7-26-60, Cl. 340-174.
- McMinn, Talmage D., Jr.: *See*—  
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- McMinn, Talmage D., Jr., to Monsanto Chemical Co. Polymer removal. 2,944,952, 7-12-60, Cl. 204-180.
- McMullen, James W., and S. E. Wells, to Lombard Corp. Ring mill. 2,925,003, 2-16-60, Cl. 80-5.
- McMullen, John C., to The Carborundum Co. Spheroidal refractory material and method of making. 2,924,533, 2-9-60, Cl. 106-57.
- McMullen, Kenneth D. Bidet. 2,957,180, 10-25-60, Cl. 4-7.
- McMullen, Wesley W., to General Motors Corp. Air cleaner silencer assembly. 2,954,096, 9-27-60, Cl. 183-73.
- McMullin, Terence A. Radar systems. 2,922,155, 1-19-60, Cl. 343-6.5.
- McMurchie, Donald W.: *See*—  
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- McMurdie, John C.: *See*—  
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- McMurray, Charles A.: *See*—  
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- McMurray, George F.: *See*—  
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- McMurray, Herman J. Chain-tag fastener. 2,924,198, 2-9-60, Cl. 119-106.
- McMurray, Herman J. Rope tag fastener. 2,954,631, 10-4-60, Cl. 40-300.
- McMurtrey, Lawrence J., and C. M. Long, to Boeing Airplane Co. Flow deflector grid. 2,957,308, 10-25-60, Cl. 60-35.6.
- McNab, Inc.: *See*—  
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- McNabb, Harold S., Jr., and M. D. Voss, to Iowa State College Research Foundation, Inc. Method for analyzing the structure of solid objects. 2,962,591, 11-29-60, Cl. 250-83.
- McNabb, Louis A.: *See*—  
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- McNabb, Warren C.: *See*—  
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- McNair, Irving M., to Western Electric Co., Inc. Slowly recurring motion stoppage indicator. 2,941,195, 6-14-60, Cl. 340-259.
- McNair, Lloyd L. Ceiling suspension element. 2,957,279, 10-25-60, Cl. 50-468.
- McNally, Frank X.: *See*—  
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- McNally, Frank X., to Westinghouse Electric Corp. X-ray control apparatus. 2,942,114, 6-21-60, Cl. 250-95.
- McNally, Frederick A., to Jarrell-Ash Co. Spectrometer and means for shifting its spectral radiations relative to the focal plane. 2,941,443, 6-21-60, Cl. 88-14.
- McNally, Jack R. M., to Electrothermal Engineering Ltd. Non-inductive wound resistors. 2,937,355, 5-17-60, Cl. 338-62.
- McNally, James A., 1/2 to C. Pilcher. Anti-detonant system for internal combustion engines. 2,958,317, 11-1-60, Cl. 123-119.
- McNally, John M., to Colt's Patent Fire Arms Mfg. Co., Inc. Trigger operating means for a pistol. 2,943,412, 7-5-60, Cl. 42-69.
- McNally Pittsburg Mfg. Corp., The: *See*—  
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- McNally, Thomas J. Universal automobile repair lamp. 2,958,760, 11-1-60, Cl. 240-2.
- McNamara, Ambrose J., to I. Constant. Slide fastener. 2,960,740, 11-22-60, Cl. 24-205.11.
- McNamara, Bernard P.: *See*—  
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- McNamara, Russell E. Complete surface contact brake. 2,930,453, 3-29-60, Cl. 188-78.
- McNamara, Thomas V.: *See*—  
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- McNamara, Thomas V., and C. M. Perkins, to Fuller Mfg. Co. Change gear system. 2,943,719, 7-5-60, Cl. 192-3.5.
- McNamee, Bernard F., to Dressen-Barnes Corp. Inverter circuit. 2,929,013, 3-15-60, Cl. 321-35.
- McNamee, Bernard F., to Dressen-Barnes Corp. Transistorized voltage regulator. 2,962,651, 11-29-60, Cl. 323-22.
- McNaney, Joseph T., to General Dynamics Corp. Cathode ray character display system. 2,924,742, 2-9-60, Cl. 315-9.
- McNaney, Joseph T., to General Dynamics Corp. Electron beam generating means. 2,924,743, 2-9-60, Cl. 315-10.
- McNaney, Joseph T., to General Dynamics Corp. Character display unit. 2,925,526, 2-16-60, Cl. 315-21.
- McNaney, Joseph T., to General Dynamics Corp. Cathode ray tube apparatus. 2,939,982, 6-7-60, Cl. 313-86.
- McNaney, Joseph T., to General Dynamics Corp. Cathode-ray apparatus. 2,943,220, 6-28-60, Cl. 313-86.
- McNarry, Leon R., and J. P. Hobson, to National Research Council. Omegatron with orbit increment detection. 2,958,774, 11-1-60, Cl. 250-41.9.
- McNary, Billy D.: *See*—  
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- McNatt, Ralph D., to Borg-Warner Corp. Reversible refrigerating system. 2,938,361, 5-31-60, Cl. 62-117.
- McNaught, Robert P. Ore-collecting member for removing magnetizable particles from ore. 2,926,784, 3-1-60, Cl. 209-213.
- McNeil, Donald H.: *See*—  
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- McNeil, George R., and H. K. Palmer, to Whirlpool Corp. Solenoid operated lid latch system. 2,936,892, 5-17-60, Cl. 210-146.
- McNeil, Harry D., Jr., to Hercules Powder Co. Pentaerythritol ester lubricants. 2,961,406, 11-22-60, Cl. 252-56.
- McNeil, Kay B., to Time Saver Equipment, Inc. Marking gauge for use in pinch-pleating draperies. 2,929,146, 3-22-60, Cl. 33-137.
- McNeil Machine & Engineering Co., The: *See*—  
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Phinney, Donald G. 2,944,528.  
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Soderquist, Leslie E. 2,946,088.  
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- McNeill, Albert G., to Bachmann Bros., Inc. Display stand for sun glasses. 2,953,257, 9-20-60, Cl. 211-131.
- McNeill, James K., to International Harvester Co. Hydraulic ram attachments. 2,952,472, 9-13-60, Cl. 280-43.23.
- McNeill, John H., and A. W. Keight, to Celanese Corp. of America. Production of filaments of uneven denier. 2,932,850, 4-19-60, Cl. 18-8.
- McNeill, Walter I.: *See*—  
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- McNeill, Warren L. and W. I. Power driver for last pins. 2,955,290, 10-11-60, Cl. 1-1.
- McNeill, William, and H. B. Jonassen, to United States of America, Army. Reconstituted synthetic mica and its process of making. 2,936,218, 5-10-60, Cl. 23-110.
- McNelly, Henry W., Sr.: *See*—  
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- McNicholl, John G. Iron derivatives. 2,959,470, 11-8-60, Cl. 23-200.
- McNinch, Joseph H., Jr.: *See*—  
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- McNinch, Joseph H., Jr., and R. J. McCrory, to The Battelle Development Corp. Free-piston engine compressor. 2,937,513, 5-24-60, Cl. 62-323.
- McNulty, Joseph V., to I-T-E Circuit Breaker Co. Forced convection cooling for isolated phase bus. 2,953,623, 9-20-60, Cl. 174-16.
- McNulty, Patrick J. Collapsible metal ladder. 2,946,398, 7-26-60, Cl. 182-95.
- McNutt, Joseph P., III, to E. I. du Pont de Nemours and Co. Pin lock apparatus. 2,961,179, 11-22-60, Cl. 242-46.5.
- McNutt, Ralph L. Curved extension drill. 2,958,349, 11-1-60, Cl. 144-104.
- McNutt, Robert D., to International Business Machines Corp. Magnetic head for recording and reading binary data. 2,928,079, 3-8-60, Cl. 340-174.
- McOrlly, Joseph, to Edwin L. Wiegand Co. Electric heaters. 2,933,805, 4-26-60, Cl. 29-155.65.
- McPhail, William: *See*—  
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- McPhee, Joseph R., Jr., to Hazeltine Research, Inc. Chrominance-signal selection system. 2,947,807, 8-2-60, Cl. 178-5.4.
- McPherson, Alexander L.: *See*—  
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- McPherson, Ellen D.: *See*—  
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- McPherson, John K. and E. D. Aircraft locating device. 2,923,917, 2-2-60, Cl. 340-27.
- McPherson, Walter K., Jr.: *See*—  
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- McQuade, Donald W.: *See*—  
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- McQuarrie, Alexander M.: *See*—  
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- McQuarrie, Ernest B., and H. P. Andersen, to Cutter Laboratories. Process of treating lecithin for freeing it of its depressor factor. 2,931,818, 4-5-60, Cl. 260-403.
- McQue, Bernard: *See*—  
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- McQuilkin, Frederick T., to North American Aviation, Inc. Plug-type doors with integral steps. 2,931,599, 4-5-60, Cl. 244-129.
- McQuillen, Leo V.: *See*—  
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- McQuiston, Horace L. Signal light. 2,930,158, 3-29-60, Cl. 43-17.
- McRae, Daniel D.: *See*—  
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- McRae, Edwin C., to Ford Motor Co. Prefocused rear view mirror. 2,921,807, 1-19-60, Cl. 287-12.
- McRae, Edwin C., to Ford Motor Co. Variable speed drives. 2,945,482, 7-19-60, Cl. 123-41.11.
- McRae, Edwin C. Engine accessory drive. 2,953,039, 9-20-60, Cl. 74-752.
- McRae, Wayne A.: *See*—  
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- McRae, Wayne A., to Ionics, Inc. Vulcanization of nuclear alkyl substituted styrenes with organic peroxides. 2,950,503, 8-30-60, Cl. 18-57.
- McRae, Wayne A., and S. S. Alexander, to Ionics, Inc. Sulfonating reagent and method of making and using the same in the preparation of cation exchange membranes. 2,962,454, 11-29-60, Cl. 260-2.2.
- McRee, William, and D. W. Jensen. Mufflers for diesel trucks. 2,922,486, 1-26-60, Cl. 181-57.
- McRoberts, Charles E.: *See*—  
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- McRoberts, George M.: *See*—  
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- McRoskey, John W., to Wen-Mac Corp. Toy engine starting device. 2,946,327, 7-26-60, Cl. 123-185.
- McRoskey, John W., to Wen-Mac Corp. Flying toy. 2,949,693, 8-23-60, Cl. 46-75.
- McRuer, Duane T., R. J. Kulda, and A. R. Vogel, to Northrop Corp. Longitudinal stability augments. 2,958,483, 11-1-60, Cl. 244-77.
- McShan, Clarence H., to Pitometer Log Corp. Radar signal simulator. 2,922,157, 1-19-60, Cl. 343-17.7.
- McShan, Clarence H. Electromechanical transducer apparatus and systems embodying the same. 2,942,205, 6-21-60, Cl. 331-116.
- McShan, Clarence H. Electromechanical transducer apparatus and systems embodying the same. 2,950,477, 8-23-60, Cl. 331-116.
- McSharry, James J.: *See*—  
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- McSkimin, Herbert J.: *See*—  
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- McSkimin, Herbert J., to Bell Telephone Laboratories, Inc. Measurement of dynamic properties of materials. 2,966,058, 12-27-60, Cl. 73-67.7.
- McSparran, Joseph F.: *See*—  
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- McSwain, Lois: *See*—  
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- McSwain, Ralph W. Fishing casting gun. 2,924,211, 2-9-60, Cl. 124-11.
- McTear, James F. Toy blackboard easel. 2,941,774, 6-21-60, Cl. 248-197.
- McThomas, William D., to United States of America, Army. Revolving barrel gun with reciprocating barrels. 2,965,003, 12-20-60, Cl. 89-126.
- McVeigh, John R. Turbine wheel assembly. 2,950,082, 8-23-60, Cl. 253-39.15.
- McVey, Eugene S. Relaxation oscillator and integrator. 2,930,905, 3-29-60, Cl. 307-88.5.
- McVey, Eugene S., to United States of America, Navy. Voltage comparison circuit. 2,949,546, 8-16-60, Cl. 307-88.5.
- McVicar, James O., to General Motors Corp. Blower housing and drive lubricating means. 2,939,548, 6-7-60, Cl. 184-6.
- McWeeney, Robert J.: *See*—  
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- McWhirter, Eric M. S., to International Standard Electric Corp. Photographic control apparatus. 2,947,217, 8-2-60, Cl. 88-24.
- McWhorter, Cedric E., and J. S. Newton, to Goodman Mfg. Co. Cutting device for the continuous cutting of coal and the like. 2,955,810, 10-11-60, Cl. 262-33.
- McWhorter, Cullen J.: *See*—  
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- McWhorter, William E., to Owens-Illinois Glass Co. Shipping container for fragile irregularly shaped articles. 2,920,808, 1-12-60, Cl. 229-42.
- McWilliam, Robert W.: *See*—  
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- McWilliams, Arthur C. Interchangeable cutter head dry shaver. 2,933,809, 4-26-60, Cl. 30-41.5.
- McWilliams, Charles W.: *See*—  
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- McWilliams, James B., to Railway Maintenance Corp. Railroad track lining machine. 2,923,355, 3-15-60, Cl. 104-8.
- McWilliams, James B., to Railway Maintenance Corp., and Poor & Co. Rail flange lubricator. 2,929,466, 3-22-60, Cl. 184-3.
- McWilliams, James B., to Railway Maintenance Corp. Apparatus for spacing and straightening ties. 2,950,687, 8-30-60, Cl. 104-9.
- McWilliams, James B., and R. E. Franklin, to Railway Maintenance Corp. Railway track servicing machine. 2,925,048, 2-16-60, Cl. 104-17.
- Meacham, John W., and C. B. Turton, to General Electric Co. Plug-in busway system. 2,938,971, 5-3-61, Cl. 200-51.
- Mead Containers, Inc.: *See*—  
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- Mead Corp., The: *See*—  
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- Mead, Francis X.: *See*—  
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- Mead, Harry A., to Butter-Pak, Inc. Apparatus for producing food packages. 2,958,173, 11-1-60, Cl. 53-178.
- Mead, John A.: *See*—  
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- Mead, John M.: *See*—  
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- Mead Johnson & Co.: *See*—  
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- Mead, Milton S., to General Electric Co. Capacitor testing device. 2,961,606, 11-22-60, Cl. 324-60.
- Mead, Milton S., Jr., to General Electric Co. Radiation responsive system. 2,924,754, 2-9-60, Cl. 317-124.
- Mead Packaging, Inc.: *See*—  
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- Mead, Raynor. Nursing unit. 2,926,805, 3-1-60, Cl. 215-11.
- Mead, Raynor. Utensil adjustable cover. 2,964,212, 12-13-60, Cl. 220-37.
- Mead Specialties Co., Inc.: *See*—  
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- Mead, Theodore E., to Mead Specialties Co., Inc. Cam-equipped control device and drive therefor. 2,946,346, 7-26-60, Cl. 137-622.
- Mead, William H. Air-solids separation system for blast room. 2,935,820, 5-10-60, Cl. 51-8.
- Mead, William H. Dry honing device. 2,953,875, 9-27-60, Cl. 51-8.
- Mead, William H. Transfer valve. 2,956,840, 10-18-60, Cl. 302-55.
- Meador, T. John, and A. Bloom, to Sierra Engineering Co. Epidural needle. 2,952,256, 9-13-60, Cl. 128-221.
- Meador, Gordon R.,  $\frac{1}{4}$  to M. C. Miller and  $\frac{3}{4}$  to said Meador. Fluid distributing device. 2,946,520, 7-26-60, Cl. 239-490.
- Meador, Ralph E., to Gates Radio Co. Remote control system. 2,924,813, 2-9-60, Cl. 340-163.
- Meador, William R.: *See*—  
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- Meadors, Victor G., to Jersey Production Research Co. Waterflooding method of secondary recovery. 2,920,041, 1-5-60, Cl. 252-855.
- Meadows, Harley R.: *See*—  
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- Meadows, Harry M., and J. C. Steinmetz, to North American Aviation, Inc. Store ejection piston with gas return. 2,931,341, 4-5-60, Cl. 121-38.
- Meadows, Robert L. Tractor and low-bed trailer coupling. 2,953,396, 9-20-60, Cl. 280-423.
- Meadows, Stanley R.: *See*—  
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- Meagher, David R., and W. Mason, to Independent Iron Works, Inc. Bearing assembly for bridge structures. 2,945,248, 7-19-60, Cl. 14-16.
- Meagher, James E.: *See*—  
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- Meagher, James L., Jr., and E. A. Baril, to Plainfield Patents Corp. Flexible web reeling and guiding mechanisms. 2,947,057, 8-2-60, Cl. 26-66.
- Meaker Co., The: *See*—  
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 Finston, Victor. 2,928,519.  
 Finston, Victor, and Kostner. 2,928,402.
- Meakin, Edgar N. Pellet mill die assembly. 2,958,900, 11-8-60, Cl. 18-12.
- Meakin, Edgar N. Extrusion mill assembly. 2,961,700, 11-29-60, Cl. 18-12.
- Means, Dwight R., and W. E. Swisher, to Columbia-Southern Chemical Corp. Method of and means for storing chlorine. 2,963,874, 12-13-60, Cl. 62-50.
- Means, Vance I.: *See*—  
 Hibbard, Robert L., and Means. 2,922,544.
- Meares, Arthur R.: *See*—  
 Castelli, Charles, Meares, and Gershen. 2,929,541.
- Mears, Fred W., Heel Co., Inc.: *See*—  
 Joiner, Edgar E., and Szumski. 2,949,684.
- Measamer, Schubert G.: *See*—  
 Frank, George E., and Measamer. 2,953,682.
- Meat Packers Equipment Co.: *See*—  
 Hanson, Harold B. 2,940,585.
- Meats, William H., to Telehoist Ltd. Goods vehicle bodies. 2,953,558, 11-1-60, Cl. 296-57.
- Mebane, Alexander D.: *See*—  
 Schueler, Arthur W., Funk, and Mecklenborg. 2,948,804.
- Mebes, Karlheinz H.: *See*—  
 Von Mikusch-Buchberg, Johannes D., and Mebes. 2,923,719.
- Mebus, Henry R.: *See*—  
 Kleineberg, Paul E., and Mebus. 2,956,295.
- Mecatex S.A.: *See*—  
 Baudelot, Pierre, Bouffort, and Lala. 2,936,196.
- Mecham, Dale K.: *See*—  
 Copley, Michael J., Mecham, Weinstein, and Ferrel. 2,929,725.
- Mechanex Corp., The: *See*—  
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- Mechanical Handling Systems, Inc.: *See*—  
 Bishop, Leonard J. 2,956,514.  
 Bishop, Leonard J., Krammer, and Karlstrom. 2,934,195.  
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- Mechanical Pin Resetter Co., Ltd.: *See*—  
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 Scherzinger, Bruno L. 2,942,884.  
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- Mechanical Products, Inc.: *See*—  
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- Mechler, Gustave A.: *See*—  
 Gold, Anthony J., and Mechler. 2,938,274.
- Mecil Plating Equipment Co.: *See*—  
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- Mecklenborg, Lawrence W.: *See*—  
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- Meckum Engineering, Inc.: *See*—  
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- Mecorney, John W.: *See*—  
 Courter, Martin L., and Mecorney. 2,960,511.
- Mecorney, John W., to Shell Oil Co. Stabilized alpha, beta-unsaturated aldehydes. 2,939,882, 6-7-60, Cl. 260-601.
- Medal, Richard J., to Rauland-Borg Corp. Line voltage regulator transformer system. Re. 24,788, 3-8-60, Cl. 323-45.
- Medart, Fred, Mfg. Co.: *See*—  
 Murphy, Raymond J. 2,961,236.  
 Murphy, Raymond J. 2,965,193.
- Meddock, Alvin A., to The Bendix Corp. Pilot-type selector valve for hydraulic motors. 2,958,339, 11-1-60, Cl. 137-621.
- Mede, John J., to Trailmobile, Inc. Skylight structure for trailer vehicles. 2,921,814, 1-19-60, Cl. 296-137.
- Medearis, Paul A. Valve actuator. 2,942,620, 6-28-60, Cl. 137-590.
- Medearis, Paul A. Oil well drilling mud degassing equipment. 2,962,114, 11-29-60, Cl. 183-25.
- Medenus, Bernhard, to Klockner-Humboldt-Deutz Aktiengesellschaft. Slot-controlled two-stroke cycle internal combustion engine. 2,921,567, 1-19-60, Cl. 123-55.
- Meder, Heinz: *See*—  
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- Medert, Warren C., and H. R. Wonders, to Owens-Illinois Glass Co. Machine for decorating round surfaces. 2,920,556, 1-12-60, Cl. 101-38.
- Med Fabrik Chemische-Pharmazeutischer Präparate J. Carl Pfäfer: *See*—  
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- Medford, Albert E., and G. W. S. Griffith, to The General Electric Co. Ltd. Superheterodyne radio receivers. 2,965,752, 12-20-60, Cl. 250-20.
- Medford, Erskin L., Jr., to Halliburton Oil Well Cementing Co. Tubing latch. 2,961,047, 11-22-60, Cl. 166-123.
- Medlar, Lewis A.: *See*—  
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- Medo Apparategesellschaft m.b.H. & Co.: *See*—  
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- Medoff, Harry. Clutching device. 2,938,214, 5-31-60, Cl. 1-210.
- Medoff, Joseph L., to Burroughs Corp. Load switching circuit. 2,945,967, 7-19-60, Cl. 307-112.
- Medynski, Joseph. Necktie centralizing stitching machine. 2,958,301, 11-1-60, Cl. 112-199.
- Meeds, Irving L. Vertically adjustable horizontal lineal marking device. 2,936,470, 5-17-60, Cl. 15-131.05.
- Meehan, Donald E. Apparatus for constructing building walls. 2,964,821, 12-20-60, Cl. 25-131.
- Meehan, James A., Jr. Coal mining machine of the laterally cutting type. 2,933,294, 4-19-60, Cl. 262-19.
- Mechanite Metal Corp.: *See*—  
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- Meek, George W., to Lizenzia A.G. Spraying device for a cooling tower and the like. 2,919,861, 1-5-60, Cl. 239-261.
- Meek, Harold J., to Jaroco Engineering Co. Hatch cover. 2,940,410, 6-14-60, Cl. 114-202.
- Meek, James M., to United States of America, Army. Pellet accelerometer. 2,938,087, 5-24-60, Cl. 200-61.45.
- Meek, James M., and R. W. Warren, to United States of America, Army. Thermal fuze. 2,937,596, 5-24-60, Cl. 102-70.2.
- Meek, Kenneth N. Spring loaded ceiling support. 2,937,842, 5-24-60, Cl. 248-356.
- Meek, Merle M.: *See*—  
 Michaels, Norman, and Meek. 2,924,457.
- Meeker, David A.: *See*—  
 Allen, Kenneth C., and Meeker. 2,948,466.
- Meeker, William H., to Hickok Mfg. Co., Inc. Safety belt buckle. 2,933,795, 4-26-60, Cl. 24-230.



- Meeker, William H., to Hickok Mfg Co., Inc. Belt buckle assembly. 2,943,332, 7-5-60, Cl. 2—321.
- Meeks, Benjamin S., Jr.: *See—*  
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- Meeks, Robert C., P. D. Meister, and H. C. Murray, to The Upjohn Co. 1-dehydro-11-keto-progesterone and 17-acyloxy derivatives thereof. 2,952,693, 9-13-60, Cl. 260—397.45.
- Meerbott, William K.: *See—*  
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- Mees, Joseph, Jr., to United States of America. Transistor blocking oscillator. 2,936,383, 5-10-60, Cl. 307—88.5.
- Meese, George E., to General Electric Co. Method of making electric lamps. 2,951,735, 9-6-60, Cl. 316—20.
- Meess, Jack D.: *See—*  
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- Meffert, Walter, to Demag-Elektrometallurgie G.m.b.H. Furnace electrode holding means. 2,921,108, 1-12-60, Cl. 13—16.
- Mefina S.A.: *See—*  
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- Megator Pumps & Compressors Ltd.: *See—*  
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McCombie, Frederick W. 2,957,579.
- Megert, Karl A., Jr., and J. V. Line, 1/4 to W. Coffee. Out-board motor. 2,943,593, 7-5-60, Cl. 115—18.
- Meginnis, George B., to General Motors Corp. Method and apparatus for stripping casting. 2,942,311, 6-28-60, Cl. 22—1.
- Megkenstock, John W., to Meckum Engineering, Inc. Conduit connection having alignment means. 2,929,645, 3-22-60, Cl. 285—238.
- Megson, Frederic H.: *See—*  
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- Meguerian, Garbis H., to Standard Oil Co. Process for oxidation of mercaptans to disulfides. 2,927,137, 3-1-60, Cl. 260—608.
- Mehalick, John R., to Carrier Corp. Condensate disposal. 2,959,030, 11-8-60, Cl. 62—280.
- Mehalick, John R., to Carrier Corp. Air conditioning apparatus. 2,959,036, 11-8-60, Cl. 62—427.
- Mehalick, John R., and E. R. Izzo, to Carrier Corp. Heat transfer device. 2,948,515, 8-9-60, Cl. 257—137.
- Mehalick, John R., and H. J. Tyler, to Carrier Corp. Air conditioning unit construction. 2,959,037, 11-8-60, Cl. 62—429.
- Mehlretter, Charles L.: *See—*  
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- Mehner, Raymond S. Artificial fishing lure construction. 2,940,204, 6-14-60, Cl. 43—42.09.
- Mehrabi-Nejad, Shabriar, and A. C. De Grunigen, to American Cyanamid Co. Tablet coating. 2,949,402, 8-16-60, Cl. 167—82.
- Mehta, Minoo D., and D. M. Brown, to Beecham Research Laboratories Ltd. Basic esters and salts thereof. 2,928,843, 3-15-60, Cl. 260—326.3.
- Meier, Georg. Ball point pen with ink container of plastic material. 2,934,038, 4-26-60, Cl. 120—42.03.
- Meier, George D.: *See—*  
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- Meier, John W.: *See—*  
Covington, Edward R., and Meier. 2,950,218.
- Meier, John W., to United Aircraft Corp. Nickel plated propeller blade. 2,959,229, 11-8-60, Cl. 170—159.
- Meier, John W., to E. I. du Pont de Nemours and Co. Process for coating hydrophilic films. 2,961,340, 11-22-60, Cl. 117—64.
- Meier, Konrad: *See—*  
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- Meier, Lothar: *See—*  
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- Meier, Vincent, to United States of America, Navy. Inflatable aircraft engine shields. 2,962,184, 11-29-60, Cl. 220—24.5.
- Meier, Walter: *See—*  
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- Meier Electric and Machine Co., Inc.: *See—*  
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- Meierhofer, Friedrich: *See—*  
Heimlicher, Paul, and Meierhofer. 2,950,805.
- Meighan, William A. Bundle raft with quick detachable fittings. 2,961,671, 11-29-60, Cl. 9—15.
- Meighen, Arthur D., and O. W. Chandler, to Houston Chemical Corp. Heat exchange compositions. 2,960,473, 11-15-60, Cl. 252—75.
- Meijer, Gerrit: *See—*  
Nagelkerke, Willem, and Meijer. 2,938,599.
- Meijer, Roelf J., to North American Philips Co., Inc. Thermodynamic reciprocating apparatus. 2,951,334, 9-6-60, Cl. 60—24.
- Meijer, Roelf J., to North American Philips Co., Inc. Thermodynamic reciprocating apparatus. 2,959,019, 1-8-60, Cl. 62—6.
- Meijer, Roelf J., to North American Philips Co., Inc. Hot-gas reciprocating engine. 2,963,854, 12-13-60, Cl. 60—24.
- Meijer, Roelf J., to North American Philips Co., Inc. Thermodynamic reciprocating apparatus. 2,963,871, 12-13-60, Cl. 62—6.
- Meijer Drees, Jan, to Nederlands Instituut voor Vliegtuigontwikkeling. Ramjet for a rotating member such as a rotor or propeller of an aircraft. 2,946,191, 7-26-60, Cl. 60—39.35.
- Meikle, James B.: *See—*  
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- Meili, Ernst, T. Lampart, and H. Derfler to Cerberus G.m.b.H. Device for the determination of changes in the composition of gas. 2,963,600, 12-6-60, Cl. 313—1.
- Meiller, F. X.: *See—*  
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- Meilleur, Joseph H., deceased, by M. Meilleur, administrator. Combination back rest. 2,935,118, 5-3-60, Cl. 155—43.
- Meilleur, Mary: *See—*  
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- Meinke, Edward: *See—*  
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- Meinel, Karl, to Wacker-Chemie G.m.b.H. Method of producing acrylic nitrile. 2,920,100, 1-5-60, Cl. 260—465.9.
- Meinen, Mathias J., to Universal-Cyclops Steel Corp. Production of aluminum containing iron base alloys. 2,930,690, 3-29-60, Cl. 75—129.
- Meiners, Alfred F., and F. V. Morriss, to Ethyl Corp. Manufacture of organoaluminum compounds. 2,962,513, 11-29-60, Cl. 260—448.
- Meiners, Edwin P., and G. A. Schurman, to California Research Corp. Seismic prospecting method. 2,923,366, 2-2-60, Cl. 181—5.
- Meiners, Elmo R.: *See—*  
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- Meinhard, Günter, and W. Benzell, to Dehydag, Deutsche Hydrierwerke G.m.b.H. Method of producing a pearly luster in shampoo concentrates. 2,950,254, 8-23-60, Cl. 252—152.
- Meininger, Fritz: *See—*  
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- Meinshausen, Gerhard, to Huttenwerk Rheinhausen Aktiengesellschaft. Driving device for guiding rolled wire into a coiler. 2,955,731, 10-11-60, Cl. 226—4.
- Meirowitz, Richard L., to Sperry Rand Corp. Temperature compensated limiter circuits. 2,927,223, 3-1-60, Cl. 307—88.5.
- Meisel, Harry, to Corn Products Co. Process for sizing. 2,965,518, 12-20-60, Cl. 117—139.5.
- Meisel, Herbert R.: *See—*  
Ollendorf, Joel, and Meisel. 2,965,962.
- Meisen, Hans. Lifting sling composed of steel cables. 2,960,365, 11-15-60, Cl. 294—74.
- Meisen, Hans. Protective elements displaceable on a lifting sling. 2,965,407, 12-20-60, Cl. 294—74.
- Meisinger, Elmer H., and V. J. Merlo, to Dixie Products, Inc. Toggle linkage. 2,943,497, 7-5-60, Cl. 74—106.
- Meissner, John F. Material crushing and grinding means and method. 2,962,229, 11-29-60, Cl. 241—5.
- Meissner, Kurt, to Mikroholz G.m.b.H. Veneer, and method of cutting the same. 2,942,636, 6-28-60, Cl. 144—326.
- Meissner, Milton F., to Olin Mathieson Chemical Corp. Landing mat. 2,922,344, 1-26-60, Cl. 94—11.
- Meissner, Scott C. Floral gift photograph and sympathy card folder. 2,948,977, 8-16-60, Cl. 40—158.
- Meissner, William E., to American Viscose Corp. Flexible sack contents extractor. 2,921,718, 1-19-60, Cl. 222—103.
- Meister, Albert A., to Bagcraft Corp. of America. Paper slipper. 2,943,403, 7-5-60, Cl. 36—9.
- Meister, Albert A., to Bagcraft Corp. of America. Bag construction. 2,962,157, 11-29-60, Cl. 206—46.
- Meister, George, and N. F. Cerulli, to Westinghouse Electric Corp. Method for manufacturing incandescent lamps. 2,921,827, 1-19-60, Cl. 316—12.
- Meister, George, and N. F. Cerulli, to Westinghouse Electric Corp. Incandescent lamp. 2,922,065, 1-19-60, Cl. 313—116.
- Meister, George, W. J. Monahan, and L. C. Werner, to Westinghouse Electric Corp. Incandescent lamp. 2,963,611, 12-6-60, Cl. 313—116.
- Meister, Gerard W.: *See—*  
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- Meister, Harry G., Jr., to Hyster Co. Straddle carrier having grapples. 2,959,310, 11-8-60, Cl. 214—392.
- Meister, Jack B.: *See—*  
Leghorn, Kenneth M., and Meister. 2,928,120.
- Meister, Martin, W. Luck, and G. Mauthe, to Farbenfabriken Bayer Aktiengesellschaft. Process for tanning leather with water-insoluble condensation product of a phenol formaldehyde and carboxylic acid. 2,955,013, 10-4-60, Cl. 8—94.24.
- Meister, Peter D.: *See—*  
Meeks, Robert C., Meister, and Murray. 2,952,693.  
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- Meister, Peter D., and H. C. Murray, to The Upjohn Co. Intermediates to make 3-beta, 14 beta-dehydroxy-20(22)-cardenolide (digitoxigenin). 2,930,791, 3-29-60, Cl. 260—239.57.
- Meister, William K., to Hoover Ball & Bearing Co. Handle assembly for flush tank. 2,942,276, 6-28-60, Cl. 4—67.
- Meitzner, Erich F.: *See—*  
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- Meixell, Oliver S., to International Telephone and Telegraph Corp. Amplifier system. 2,920,230, 1-5-60, Cl. 315-22.
- Meixell, Oliver S., to International Telephone and Telegraph Corp. Radio direction finding system. 2,928,089, 3-8-60, Cl. 343-113.
- Meixell, Oliver S., R. L. Whittle, and N. J. Cafarelli, Jr., to International Telephone and Telegraph Corp. Radio signal separator system. 2,962,714, 11-29-60, Cl. 343-114.5.
- Meixner, Alfred, to Voigtlander A.G. Focal plane shutter for photographic cameras. 2,921,510, 1-19-60, Cl. 95-55.
- Meixner, Alfred, to Voigtlander A.G. Shutter for photographic cameras. 2,950,665, 8-30-60, Cl. 95-55.
- Meixner, Raymond P., to Sperry Rand Corp. Tuning apparatus for klystron oscillators. 2,941,115, 6-14-60, Cl. 315-5.21.
- Meixner, Wilhelm: *See—*  
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- Mekelburg, Earl F., to Square D Co. Device with phase shiftable voltage pick-off point. 2,935,578, 5-3-60, Cl. 200-25.
- Meksula, Bernard. Portable container for fishing tackle and other uses. 2,936,066, 5-10-60, Cl. 206-16.
- Mela, Joseph. Self-contained envelope opener. 2,954,916, 10-4-60, Cl. 229-86.
- Mela, Maschinenbau und Reparatur Hans Stinnes: *See—*  
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- Melamed, Nathan T., to Westinghouse Electric Corp. Television pickup tube. 2,929,866, 3-22-60, Cl. 178-5.4.
- Melamed, Sidney: *See—*  
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Souder, Louis C., and Melamed. 2,955,055.
- Melamed, Sidney, to Rohm & Haas Co. Aromatic acid amides of aminoalkyl vinyl ethers and their polymers. 2,920,063, 1-5-60, Cl. 260-85.5.
- Melamed, Sidney, to Rohm & Haas Co. Process of preparing 2-methyl oxazolidine-3-carboxylic esters. 2,920,075, 1-5-60, Cl. 260-244.
- Melandri, Max M.: *See—*  
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- Melanson, William A.: *See—*  
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- Melas, Constantine M.: *See—*  
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- Melbourne, A.: *See—*  
Marmont, George H., and Melbourne. 2,929,623.
- Melby, Lester R., to E. I. du Pont de Nemours and Co. 2-amino-3-(arylimino)-1,1,3-tricyanopropenes and process of preparation. 2,926,187, 2-23-60, Cl. 260-465.
- Melcher, Doris D.: *See—*  
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- Melcher, Martin: *See—*  
Shecter, George O., and Hirsch. 2,948,971.
- Melchior, Frederick C. Venturi-flow muffler. 2,926,743, 3-1-60, Cl. 181-47.
- Melchior, Frederick C. Carburetor. 2,926,893, 3-1-60, Cl. 261-36.
- Melchor, Jack L.: *See—*  
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- Melchor, Jack L., and P. H. Vartanian, Jr., to Sylvania Electric Products Inc. Traveling wave tube. 2,951,963, 9-6-60, Cl. 315-3.5.
- Melchore, James A., to American Cyanamid Co. Process for preparing thermoplastic polymers. 2,931,793, 4-5-60, Cl. 260-93.5.
- Meldahl, Waldemar J., to J. I. Case Co. Earth working implement and power lift mechanism therefor. 2,964,114, 12-13-60, Cl. 172-487.
- Melenic, John A. Vibrator starter for pulse jet engines. 2,919,547, 1-5-60, Cl. 60-39.14.
- Melgaard, Oscar C.: *See—*  
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- Melgaard, Oscar C., to Wright Mfg. Co. Louver control for air conditioning grille. 2,948,211, 8-9-60, Cl. 98-40.
- Melges, Frederick J. Letter weigher. 2,933,304, 4-19-60, Cl. 265-53.
- Melhart, Leonard J. Magnetic blowout switch. 2,936,390, 5-10-60, Cl. 313-306.
- Melik, John S., and H. Erickson, to Sinclair Refining Co. Vapor phase dehydrogenation reactions and catalysts used in promoting them. 2,932,673, 4-12-60, Cl. 260-666.
- Melln Tool Co., Inc.: *See—*  
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- Mell, Alfred L.: *See—*  
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- Mellam, Leo L., to Flexi-Van, Inc. Apparatus for storing trailer bodies. 2,929,520, 3-22-60, Cl. 214-15.
- Mellam, Leo L., to Flexi-Van, Inc. Freight handling system. 2,933,052, 4-19-60, Cl. 105-368.
- Mellam, Leo L., to Flexi-Van, Inc. Railway car for transporting trailer bodies. 2,933,053, 4-19-60, Cl. 105-368.
- Mellan, Ibert, and R. Gumbinner, to Polychrome Corp. Pre-sensitized printing plate and method for preparing same. 2,946,683, 7-26-60, Cl. 96-75.
- Mellbin, Bertil F. H. Plant for dyeing or other wet-treatment of textile material. 2,951,356, 9-6-60, Cl. 68-8.
- Mellberg, Frank H., 1/2 to H. A. Mellberg. Underground storage tank filler neck and closure cap construction. 2,954,895, 10-4-60, Cl. 220-40.
- Mellberg, Harry A.: *See—*  
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- Mellema, Jack H.: *See—*  
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- Mellema, Raymond L. Engraver switch. 2,929,144, 3-22-60, Cl. 33-23.
- Mellen, Edward J., Jr., R. J. De Fassel, and J. M. Webb; said De Fassel and said Webb, assors. to said Mellen. Method of making and drying shell-type refractory molds. 2,932,864, 4-19-60, Cl. 22-196.
- Mellen, Walter R. Toroidal aircraft. 2,927,746, 3-8-60, Cl. 244-12.
- Mellinger, John C., to The Maytag Co. Unbalance switch for centrifugal extractors. 2,957,959, 10-25-60, Cl. 200-61.76.
- Mello, Harry, to Interessengemeinschaft Mello-Ruder. Ruders for ships. 2,961,987, 11-29-60, Cl. 114-162.
- Mellon, Patrick R. Ash trays. 2,950,722, 8-30-60, Cl. 131-238.
- Mellott, Hayes R.: *See—*  
Mellott, John S. and H. R. 2,948,313.
- Mellott, John S. and H. R. Sawmill log turner. 2,948,313, 8-9-60, Cl. 143-103.
- Melman, George & Co.: *See—*  
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- Melman, George J., and L. S. Epstein, to George Melman & Co. Conductive overshoe. 2,958,012, 10-25-60, Cl. 317-2.
- Melnick, Daniel, and C. M. Gooding, to Corn Products Co. Frying oils. Re. 24,791, 3-8-60, Cl. 99-118.
- Melnick, Daniel, and C. M. Gooding, to Corn Products Co. Highly nutritional margarine. 2,921,855, 1-19-60, Cl. 99-122.
- Melnick, Daniel, and F. H. Luckmann, to Corn Products Co. Margarine and method for producing same. 2,955,039, 10-4-60, Cl. 99-122.
- Melnor Industries, Inc.: *See—*  
Rinkewich, Isaac R. 2,937,813.
- Melone, Gaetano: *See—*  
Vecchi, Alberto, and Melone. 2,931,809.
- Melpar, Inc.: *See—*  
Asten, William P. 2,920,209.  
Camp, Glenn D. 2,926,243.  
Fry, Henry J. 2,960,693.  
Hazel, Herbert K. 2,947,447.  
Hurvitz, Hyman. 2,962,712.  
Kelleher, Kenneth S., and Morrow. 2,935,745.  
Kelleher, Kenneth S., and Parker. 2,946,999.  
Lawson, Axel A., and Hazel. 2,924,199.  
Ritt, Paul E., Jr., and Sayers. 2,959,525.  
Withers, James C., and Ritt. 2,929,766.
- Melter, Florence G.: *See—*  
Eimerman, Gustave F. 2,943,856.
- Melton, Andrew E.: *See—*  
Murphy, Bynum E., Brewer, and Melton. Re. 24,811.
- Melton, Donald F., to United States of America, Navy. Air sampling device. 2,943,490, 7-5-60, Cl. 73-421.5.
- Melton, James O., to The Geograph Co. Retrieving mechanism. 2,959,371, 11-8-60, Cl. 242-107.3.
- Meltz, Robert R.: *See—*  
Morgan, Coleman P., and Meltz. 2,933,466.
- Meltzer, Jack. Shoe having spring-activated sectional sole structure. 2,922,235, 1-26-60, Cl. 36-13.
- Meltzer, Jack. Shoe provided with toe thong. 2,928,191, 3-15-60, Cl. 36-8.5.
- Meltzer, Jack. Shoe heel and sole assembly and method. 2,936,534, 5-17-60, Cl. 36-24.5.
- Meltzer, Jack. Shoe provided with resiliently yieldable element. 2,957,253, 10-25-60, Cl. 36-11.5.
- Meltzer, Jacques: *See—*  
Uhlenbroek, Jan H., and Meltzer. 2,954,319.
- Meltzer, Robert I., to Warner-Lambert Pharmaceutical Co. Dialkylaminoalkoxyphenyl ketone derivatives. 2,921,092, 1-12-60, Cl. 260-566.
- Meltzer, Robert I., to Warner-Lambert Pharmaceutical Co. Process for preparing thyroxine analogs. 2,954,399, 9-27-60, Cl. 260-519.
- Meltzer, Robert J.: *See—*  
Brumley, Corwin H., and Meltzer. 2,950,391.
- Melville, Francis L., 1/2 to Leonard J. Buck, Inc. Process of preparing chromic oxide. 2,921,838, 1-19-60, Cl. 23-145.
- Melville, Alexander: *See—*  
Parker, Charles S., and Melville. 2,919,484.
- Melville, William, and K. Saxl, to Imperial Chemical Industries Ltd. Apparatus and process for rolling metal. 2,932,852, 4-19-60, Cl. 18-9.
- Melville Shoe Corp.: *See—*  
Cignoli, Guido H. 2,931,513.
- Melvin, Gordon L., H. J. Scherr, and S. Jacobson. Coin counting and wrapping device. 2,955,399, 10-11-60, Cl. 53-213.
- Melvin, Myron F.: *See—*  
Frey, Cleon F., and Melvin. 2,948,787.
- Memphis Metal Mfg. Co., Inc.: *See—*  
Small, Leroy J. 2,950,514.  
Small, Leroy J., and Mason. 2,957,472.
- Menard, Clifford G., to Heald Machine Co. Clamp for internal grinding machine. 2,951,320, 9-6-60, Cl. 51-236.
- Menard, Louis F. A. Soil testing apparatus. 2,957,341, 10-25-60, Cl. 73-84.
- Menasco Mfg. Co.: *See—*  
Maltby, Lewis J. 2,933,270.  
Maltby, Lewis J. 2,933,271.  
Wheeler, Walter G., Van Camp, Wood, and Lawson. 2,944,449.



- Mencimer, Myron E. Dry process beneficiation apparatus. 2,928,542, 3-15-60, Cl. 209-45.
- Mendel, Herbert D. Pallet for handling materials. 2,919,875, 1-5-60, Cl. 248-120.
- Mendel, John T.: *See*—  
Cutler, Cassius C., and Mendel. 2,925,520.
- Mendelsohn, Meyer, and C. Horowitz, to Yardney International Corp. Electric battery structure. 2,956,100, 10-11-60, Cl. 136-146.
- Mendelsohn, Meyer, and F. Solomon, to Yardney International Corp. Inter-electrode separators and process for making same. 2,964,584, 12-13-60, Cl. 136-146.
- Mendelsohn, Morris A.: *See*—  
Frost, Lawrence W., and Mendelsohn. 2,945,829.
- Mendelsohn, Walter B. Wallpaper display book. 2,955,363, 10-11-60, Cl. 35-50.
- Mendelson, Myron J., and M. Shiohitz, to The National Cash Register Co. Computer input data control system. 2,922,989, 1-26-60, Cl. 340-174.
- Mendenhall, Charles A., to Bendix Aviation Corp. Two-stage starting system for internal combustion engines. 2,925,810, 2-23-60, Cl. 123-179.
- Mendez-Llamozas, Juan D. Apparatus for transforming energy of compressed gas into jet pulses to provide a propelling force. 2,923,124, 2-2-60, Cl. 60-35.5.
- Mendleson, Myron J., A. Doig, Jr., and R. E. Sprague, to The National Cash Register Co. Computer data merging system. 2,947,976, 8-2-60, Cl. 340-174.
- Mendoza Quijano, Roberto: *See*—  
Gonzalez Arias, Benigno, and Mendoza Quinjano. 2,931,893.
- Ménégoz, Charles D., and A. J. Galy, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Process and apparatus for the production of metals by dissociation of their carbides. 2,931,719, 4-5-60, Cl. 75-10.
- Meneley, William E., and J. J. Denham, to Shand and Jurs Co. Level control apparatus. 2,936,626, 5-17-60, Cl. 74-2.
- Menendez, Raymond C. Cleaning machine. 2,944,272, 7-12-60, Cl. 15-50.
- Menge, Eberhard: *See*—  
Leich, Karl, and Menge. 2,954,924.
- Menghini, William B. Frankfurter skinning apparatus. 2,951,579, 10-4-60, Cl. 17-1.
- Mengis, Albin J., to Wolf Brothers, Inc. Method and apparatus for applying patches to a moving web. 2,958,437, 11-1-60, Cl. 216-25.
- Menke, Edward W. Method of coating objects. 2,962,389, 11-29-60, Cl. 117-54.
- Menke, Joseph F., to Company Brinro Ltd. Electrical fuses for missiles, particularly rocket missiles. 2,961,963, 11-29-60, Cl. 102-70.2.
- Menke, Joseph F., and E. H. Doeringhaus. Electrical pellet primer. 2,920,569, 1-12-60, Cl. 102-70.2.
- Menke, Warren W., to Sperry Rand Corp. Impedance matching structure for slow wave device of microwave tube. 2,953,709, 9-20-60, Cl. 315-3.5.
- Menke, Wilhelm, to NSM-Apparatebau G.m.b.H. Record changer. 2,921,794, 1-19-60, Cl. 274-10.
- Menke, Lawrence H., 1/4 to C. J. P. M. Fredriksen. Outlet box. 2,957,598, 10-25-60, Cl. 220-36.
- Menkel, Gary G., to Design Center, Inc. Feed mechanism. 2,961,137, 11-22-60, Cl. 226-53.
- Menn, Jacob J., and E. G. Wallace, to Shell Development Co. Stabilization of alkyl phenol compounds. Re. 24,834, 6-7-60, Cl. 260-624.
- Mennings, Hubert A., to Allis-Chalmers Mfg. Co. Shell mold. 2,919,479, 1-5-60, Cl. 22-131.
- Menold, Frederick W.: *See*—  
Bonnett, Horace W., and Menold. 2,955,662.
- Menoni, Rene A. Flexible tool. 2,949,753, 8-23-60, Cl. 64-15.
- Menough, Paul S. Carrier for articles being heat treated. 2,945,605, 7-19-60, Cl. 214-18.
- Menown, Hugh: *See*—  
Lake, Ronald E., and Menown. 2,953,716.
- Mensing, Hans-Jürgen, and G. Kohrig. Folded carton type pack. 2,930,517, 3-29-60, Cl. 229-14.
- Mentes, Alexander G. Apparatus for automatically leveling material in the building of roads and the like. 2,922,345, 1-26-60, Cl. 94-46.
- Mentley, Max B., to National Broach & Machine Co. Gear finishing with lead correction. 2,945,424, 7-19-60, Cl. 90-1.6.
- Mentley, Max B., Z. Kokorzycki, and D. W. Daniel, to National Broach & Machine Co. Grinder with compensating trimming mechanism. 2,944,373, 7-12-60, Cl. 51-5.
- Mentzer, Elizabeth M.: *See*—  
Mueller, Herman H. 2,949,307.  
Mueller, Herman H. 2,949,310.  
Mueller, Herman H. 2,957,367.
- Menzel, Donald H.: *See*—  
Houle, Robert E., Menzel, and Robb. 2,930,545.
- Menzel, Donald H. High temperature bearing and the like. 2,966,381, 12-27-60, Cl. 308-77.
- Menzel, Wolfgang A., to United States of America, Navy. Voltage divider. 2,954,517, 9-27-60, Cl. 323-74.
- Menzi, Karl, F. Oesterlein, and B. Ruetimeyer, to Ciba Ltd. New complex metal compounds of monoazo-dyestuffs. 2,929,809, 3-22-60, Cl. 260-146.
- Menzi, Robert: *See*—  
Mohler, Hermann, and Menzi. 2,953,456.
- Menzimer, Lisle W.: *See*—  
Allen, Edwin L. 2,939,166.  
Allen, Edwin L. 2,943,879.  
De Vito, Angelo R., and Allen. 2,931,677.  
Heron, Robert S. 2,921,332.
- Meohas, Isaac R. Disposable razor. 2,952,910, 9-20-60, Cl. 30-53.
- Meola, Edward F. Pick for metallic stringed instruments. 2,961,912, 11-29-60, Cl. 84-392.
- Meopta Prerov, narodni podnik: *See*—  
Kfeminsky, Frantisek. 2,929,296.
- Meray, Horvath, to Canadian Curtiss-Wright Ltd. Remote radiography camera. 2,965,761, 12-20-60, Cl. 250-106.
- Mercanti, Enrico P.: *See*—  
Glomb, Frank A., Acton, and Mercanti. 2,951,398.
- Mercatanti, Louis F., to Fedders-Quigan Corp. Air conditioning systems. 2,935,007, 5-3-60, Cl. 98-39.
- Mercer, Bert M. Hair trimmers. 2,959,853, 11-15-60, Cl. 30-31.
- Mercer Engineering Co.: *See*—  
Kramer, Daniel E. 2,949,750.
- Mercer, Frank B., to Plastic Textile Accessories Ltd. Production of net-like structures. 2,919,467, 1-5-60, Cl. 18-12.
- Mercer, George H.: *See*—  
Eidson, Gordon R. and B. G., and Mercer. 2,953,084.
- Mercer, Neil H.: *See*—  
Huggins, John A., and Mercer. 2,938,832.
- Mercer, Robert C.: *See*—  
Slayter, Games, Warden, and Mercer. 2,927,621.
- Mercer, William R., to ACF Industries, Inc. Piston operated valve. 2,936,996, 5-17-60, Cl. 251-31.
- Mercereau, Elie A. Applicator roller assembly. 2,964,769, 12-20-60, Cl. 15-128.
- Merchant, Charles J., to H. W. Giles. Toy musical instrument and actuating mechanism therefor. 2,964,988, 12-20-60, Cl. 84-101.
- Merchant, Chester O., to Swanson Tool & Machine Products, Inc. Indexing machine. 2,921,478, 1-19-60, Cl. 74-112.
- Merchant, Chester O., to Swanson-Erie Corp. Turret indexing machine for lamp base fillers and the like. 2,941,553, 6-21-60, Cl. 141-145.
- Merchant, Marvin. Retractable trailer hitch. 2,929,643, 3-22-60, Cl. 280-491.
- Merchants National Bank of Boston, The: *See*—  
Hauser, Ernst A. 2,951,087.
- Merchants Poultry Co.: *See*—  
Ciandolo, Lawrence and P. C. 2,957,198.
- Mercier, Carl E., to Allis-Chalmers Mfg. Co. Method and structure for encapsulating electric apparatus. 2,950,339, 8-23-60, Cl. 174-102.
- Mercier, Henry, to Ateliers de Constructions Electriques de Charleroi. Multiplex telecommunication system. 2,937,238, 5-17-60, Cl. 179-15.
- Mercier, Jean. Pressure accumulator. 2,919,718, 1-5-60, Cl. 138-30.
- Mercier, Jean. Pressure reducer. 2,920,647, 1-12-60, Cl. 137-505.18.
- Mercier, Jean, to G.M.E. Corp. Sealing means for movable panels. 2,923,266, 2-2-60, Cl. 114-201.
- Mercier, Jean. Pressure device. 2,924,244, 2-9-60, Cl. 138-30.
- Mercier, Jean. Pressure device. 2,931,392, 4-5-60, Cl. 138-30.
- Mercier, Jean. Closure valve for the outlet port of a pressure accumulator. 2,932,320, 4-12-60, Cl. 138-30.
- Mercier, Jean. Pressure accumulator. 2,932,321, 4-12-60, Cl. 138-30.
- Mercier, Jean. Closure valve for the outlet port of a pressure accumulator. 2,932,322, 4-12-60, Cl. 138-30.
- Mercier, Jean. Shock absorber. 2,934,332, 4-26-60, Cl. 267-8.
- Mercier, Jean. Locking ring for pressure accumulator. 2,936,787, 5-17-60, Cl. 138-30.
- Mercier, Jean. Pressure device. 2,947,326, 8-2-60, Cl. 138-30.
- Mercier, Jean. Bladder construction for pressure vessels. 2,959,194, 11-8-60, Cl. 138-30.
- Mercier, Jean. Stabilizing hydraulic follow-up system. 2,964,270, 12-13-60, Cl. 244-80.
- Mercier, Jules, to Les Usines de Melle (Societe Anonyme). Process for hydrolyzing lower aliphatic esters and separation of resulting products. 2,936,321, 5-10-60, Cl. 260-541.
- Merck & Co., Inc.: *See*—  
Arth, Glen E., Poots, and Sarett. 2,934,532.  
Arth, Glen E., Poots, and Sarett. 2,949,472.  
Arth, Glen E., Poots, and Sarett. 2,958,698.  
Arth, Glen E., Poots, and Sarett. 2,958,699.  
Arth, Glen E., Poots, and Sarett. 2,958,700.  
Bailey, George A., and Hirschmann. 2,932,640.  
Benzing, Walter C. 2,921,834.  
Bernhauer, Konrad, and Friedrich. 2,937,167.  
Beutel, Ralph H., and Klemchuk. 2,956,080.  
Beyler, Roger E. 2,954,386.  
Bolhofer, William A. 2,928,854.  
Brink, Norman G., and Lewis. 2,957,809.  
Chaiet, Louis. 2,923,705.  
Chaiet, Louis. 2,945,766.  
Chamberlin, Earl M., and Chamerda. 2,931,807.  
Chamberlin, Earl M., and Utne. 2,946,811.  
Chamerda, John M., and Erickson. 2,933,509.



- Merck & Co., Inc.: *See*—Continued  
 Chemerda, John M., Hirschmann, and Steinberg. 2,951,074.  
 Chemerda, John M., and Jacob. 2,953,580.  
 Chemerda, John M., and Schoenewaldt. 2,923,708.  
 Chemerda, John M., Tull, and Fisher. 2,939,873.  
 Christensen, Burton G., Chemerda, and Hirschmann. 2,941,996.  
 Christensen, Burton G., and Hirschmann. 2,933,494.  
 Christensen, Burton G., and Hirschmann. 2,938,916.  
 Christensen, Burton G., Hirschmann, and Putter. 2,932,657.  
 Clark, Robert L., and Pessolano. 2,933,503.  
 Clark, Robert L., and Pessolano. 2,953,598.  
 Cutler, Frank A., Jr., and Fisher. 2,962,501.  
 Day, John T. 2,932,656.  
 Dulaney, Eugene L., McAleer, and Stoudt. 2,960,434.  
 Folkers, Karl A., and Hoffman. 2,962,519.  
 Garber, John D., and Jones. 2,929,823.  
 Garber, John D., and Reynolds. 2,956,922.  
 Graber, Robert F., and Snoddy. 2,957,013.  
 Graber, Robert F., and Wendler. 2,952,692.  
 Harman, Robert E., and Brink. 2,929,845.  
 Hinkley, David F. 2,937,169.  
 Hinkley, David F., and Singleton. 2,966,499.  
 Hirschmann, Ralph F., and Miller. 2,924,612.  
 Holly, Frederick W., Wagner, Walton, and Hoffman. 2,924,616.  
 Jones, Robert E., and Robinson. 2,933,516.  
 Kollonitsch, Janos, Tull, and Weinstock. 2,944,070.  
 Krsek, George. 2,942,011.  
 Krsek, George, Metcalf, and Pines. 2,944,939.  
 Krsek, George R. 2,921,946.  
 McAleer, William J., and Stoudt. 2,954,326.  
 Merritt, James M. 2,921,410.  
 Miller, Ian M. 2,960,446.  
 Miller, Ian M., and Rosenblum. 2,939,822.  
 Miller, Richard, and Hirschmann. 2,964,540.  
 Novello, Frederick C. 2,952,680.  
 Novello, Frederick C. 2,957,883.  
 Novello, Frederick C. 2,961,463.  
 Novello, Frederick C. 2,965,655.  
 Novello, Frederick C. 2,965,656.  
 Novello, Frederick C. 2,965,675.  
 O'Neill, Robert C., and Basso. 2,951,010.  
 Pessolano, Arsenio A., and Clark. 2,944,071.  
 Pfister, Karl, III. 2,966,492.  
 Pfister, Karl, III, and Pessolano. 2,947,753.  
 Pfister, Karl, III, and Weijlard. 2,966,491.  
 Pollak, Peter L. 2,948,733.  
 Poos, George I., and Sarett. 2,933,492.  
 Poos, George I., and Sarett. 2,933,493.  
 Richter, John W., Ayer, and Brink. 2,957,807.  
 Sarett, Lewis H. 2,931,806.  
 Sarett, Lewis H. 2,943,978.  
 Sarett, Lewis H. 2,949,453.  
 Sarett, Lewis H. 2,950,281.  
 Sarett, Lewis H., and Beyer. 2,922,797.  
 Shunk, Clifford H., and Folkers. 2,935,508.  
 Shunk, Clifford H., and Folkers. 2,938,025.  
 Shunk, Clifford H., and Folkers. 2,945,059.  
 Shunk, Clifford H., and Richter. 2,946,781.  
 Sletzinger, Meyer. 2,929,815.  
 Sletzinger, Meyer, and Gaines. 2,940,968.  
 Sletzinger, Meyer, and Karady. 2,951,075.  
 Sletzinger, Meyer, Ruyle, and Gaines. 2,964,541.  
 Sprague, James M., and Engelhardt. 2,951,082.  
 Stammer, Charles H. 2,945,064.  
 Stammer, Charles H. 2,966,509.  
 Taub, David, Hoffsommer, and Wendler. 2,935,511.  
 Taub, David, Hoffsommer, and Wendler. 2,958,702.  
 Taub, David, and Wendler. 2,942,012.  
 Taub, David, and Wendler. 2,966,504.  
 Taub, David, Wendler, and Snoddy. 2,942,010.  
 Thiele, Elizabeth H. 2,965,543.  
 Walton, Edward. 2,938,900.  
 Walton, Edward, and Spencer. 2,966,484.  
 Weijlard, John, and Pfister. 2,966,490.  
 Wendler, Norman L. 2,950,297.  
 Wilson, Evelyn H., and Tishler. 2,933,515.  
 Wilson, Evelyn H., and Tishler. 2,957,892.  
 Wolf, Frank J. 2,938,899.
- Merck, E., Aktiengesellschaft: *See*—  
 Mannhardt, Heinz-Jürgen, and Metz. 2,950,226.  
 Zima, Otto, and Von Werder. 2,927,926.
- Merck, E., Aktiengesellschaft, Darmstadt: *See*—  
 Seitz, Georg, and Kritzer. 2,947,751.  
 Zima, Otto, and Jacobi. 2,945,877.  
 Zima, Otto, and Jacobi. 2,946,802.
- Merckling, Nicholas G.: *See*—  
 Anderson, Arthur W., and Merckling. 2,953,531.
- Merc-O-Tronic Instruments Corp.: *See*—  
 Schafer, Arthur W. 2,938,161.
- Mercurio, Sam A.: *See*—  
 MacIntosh, John R., and Mercurio. 2,963,833.
- Mercury Engineering Corp.: *See*—  
 Baumgartner, John R. 2,930,319.  
 Baumgartner, John R. 2,942,765.  
 Baumgartner, John R. 2,963,965.  
 Baumgartner, John R., and Zernov. 2,929,317.  
 Baumgartner, John R., and Zernov. 2,929,572.
- Mercury International Research Co.: *See*—  
 Doud, Forrest B. 2,957,567.
- Merdinian, George K., to Eitel-McCullough, Inc. Klystron tube. 2,949,559, 8-16-60, Cl. 315-546.  
 Meredith, Mike, Hoe. 2,931,445, 4-5-60, Cl. 172-375.  
 Meredith, Francis M. P.: *See*—  
 Lister, Leslie, and Meredith. 2,952,624.  
 Meredith, Frederick W., and D. W. Righton, to Smiths America Corp. Safety devices for automatic pilots. 2,960,283, 11-15-60, Cl. 244-77.  
 Meredith, Henry H., Jr.: *See*—  
 Cornell, Hampton G., and Meredith. 2,947,578.  
 Meredith, Henry H., Jr., and R. R. Die, to Jersey Production Research Co. Christmas tree by-pass. 2,927,642, 3-8-60, Cl. 166-75.  
 Meredith, Mary N. Bedding element. 2,928,107, 3-15-60, Cl. 5-352.  
 Meredith Publishing Co.: *See*—  
 Stone, Wilfred H. 2,939,646.  
 Meredith, William F.: *See*—  
 Harris, William M., Linnell, and Meredith. 2,934,416.  
 McLaughlin, James K., and Meredith. 2,939,391.  
 Meredith, William G. Parking antenna. 2,957,059, 10-18-60, Cl. 200-6144.  
 Merel, Wolfgang, to Bendix Aviation Corp. Phase sensitive amplifier. 2,941,093, 6-14-60, Cl. 307-38.5.  
 Merendino, Salvatore, to The Yale and Towne Mfg. Co. Toothbrush holder. 2,956,851, 10-18-60, Cl. 312-207.  
 Mereness, Lowell H. Manually releasable closure for containers. 2,936,095, 5-10-60, Cl. 220-55.7.  
 Mergen, Joseph M.: *See*—  
 Hall, John L., Mergen, and Elliott. 2,944,387.  
 Hadley, William A., and Robbins. 2,948,203.  
 Mergen, Joseph M., and R. K. Tiedeman, to Curtiss-Wright Corp. Mechanical automatic propeller feathering. 2,924,281, 2-9-60, Cl. 170-160.13.  
 Mergenthaler Linotype Co.: *See*—  
 Bechtold, Edwin W. 2,942,538.  
 Corrado, Victor M., and Robbins. 2,923,215.  
 Corrado, Victor M., and Walker. 2,923,212.  
 Gorrill, William S. 2,923,214.  
 Grube, Wolfgang O. 2,923,213.  
 Walker, Richard K. 2,959,111.  
 Mergler, Harry W. Digital control system for machine tools. 2,922,940, 1-26-60, Cl. 318-162.  
 Merhib, Charles P.: *See*—  
 Mann, Charles W., and Merhib. 2,942,463.  
 Merian, Ernest, to Sandoz A.G. Process for the dyeing of polyester fibers. 2,955,902, 10-11-60, Cl. 8-55.  
 Merian, Ernest, B. J. R. Nicolaus, and O. Senn, to Sandoz A.G. Water-insoluble styryl dyestuffs. 2,936,319, 5-10-60, Cl. 260-465.  
 Meriaux, Joseph: *See*—  
 Buffet, Jean, and Meriaux. 2,956,337.  
 Merion, Howard D., and R. M. Biggs, Jr., to American Viscose Corp. Tube spinning. 2,919,464, 1-5-60, Cl. 18-8.  
 Merit Co., The: *See*—  
 Tortorella, Frank J. 2,961,527.  
 Meriwether, Lewis S., to American Cyanamid Co. Linear polymers. 2,961,330, 11-22-60, Cl. 106-285.  
 Merkel, Hans, to Siemens-Schuckertwerke Aktiengesellschaft. Method and apparatus for producing spectrally pure gallium. 2,927,853, 3-8-60, Cl. 75-84.  
 Merkel, Stephen L.: *See*—  
 Hugel, Henry M., and Merkel. 2,937,328.  
 Merker, Leon, to National Lead Co. Method of making monocrySTALLINE calcium titanate. 2,936,216, 5-10-60, Cl. 23-51.  
 Merker, Leon, to National Lead Co. Method for the preparation of monocrySTALLINE aluminum titanate. 2,942,941, 6-28-60, Cl. 23-51.  
 Merker, Leon, to National Lead Co. Preparation of alkaline earth metal titanates. 2,964,413, 12-13-60, Cl. 106-39.  
 Merker, Robert L., to Dow Corning Corp. Tinalkylsilalkyl organosilicon compounds. 2,920,060, 1-5-60, Cl. 260-46.5.  
 Merker, Robert L., to Dow Corning Corp. Preparation of acryloxyalkyl substituted siloxanes. 2,922,806, 1-26-60, Cl. 260-448.2.  
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- Merrell, Hollis B.: *See*—  
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- Merrell, Richard L., to General Motors Corp. Reversible refrigerating system. 2,937,505, 5-24-60, Cl. 62—160.
- Merrell, Wm. S., Co., The: *See*—  
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- Merriam, Frank, Jr., and A. M. Pentland, to Ford Motor Co. Starter motor. 2,923,830, 2-2-60, Cl. 290—38.
- Merriam, Frederic C., and E. I. Hammer, to United Shoe Machinery Corp. Surgical dressings. 2,949,443, 8-16-60, Cl. 260—80.5.
- Merriam, James E. Rear view device. 2,942,522, 6-28-60, Cl. 88—86.
- Merrick, Llewellyn S.: *See*—  
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- Merrick, Wallace N. Methods of deheading shrimp. 2,955,317, 10-11-60, Cl. 17—45.
- Merrick, Wallace N. Shrimp deheading machine. 2,958,896, 11-8-60, Cl. 17—2.
- Merrick, Wallace N. Shrimp sorting, deveining and splitting machine. 2,960,719, 11-22-60, Cl. 17—2.
- Merrifield, Dudley B.: *See*—  
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- Merrifield, Dudley B., to Monsanto Chemical Co. Metal stabilizers for rubber. 2,954,356, 9-27-60, Cl. 260—23.7.
- Merrill, Bushnell D.: *See*—  
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- Merrill, Frank W. Rotors for permanent magnet type synchronous motors. 2,927,229, 3-1-60, Cl. 310—162.
- Merrill, Howard E.: *See*—  
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- Merrill, Ian N. Diaphragm valves. 2,948,504, 8-9-60, Cl. 251—258.
- Merrill, John B., to General Dynamics Corp. Transistor temperature regulator. 2,932,714, 4-12-60, Cl. 219—20.
- Merrill, John B., to General Dynamics Corp. Transistor gain control. 2,941,153, 6-14-60, Cl. 330—23.
- Merrill, Leslie C., to International Telephone and Telegraph Corp. Glow lamp. 2,952,793, 9-13-60, Cl. 313—217.
- Merrill, Patterson D., to M. B. Skinner Co. Sectional anchor ring for bell joint clamp. 2,923,561, 2-2-60, Cl. 285—413.
- Merrill, Patterson D., and H. T. Waite, Jr., to M. B. Skinner Co. Fitting for tapping steel walled members. 2,950,637, 8-30-60, Cl. 77—37.
- Merrill, Richard E.: *See*—  
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- Merrill, Robert M.: *See*—  
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- Merrill, Stewart H., E. M. Robertson, and H. C. Staehle, to Eastman Kodak Co. Light-sensitive compositions and their use in photomechanical processes. 2,948,610, 8-9-60, Cl. 96—33.
- Merrill, William D. Typewriter mechanism. 2,940,576, 6-14-60, Cl. 197—17.
- Merrimac Research and Development Corp.: *See*—  
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- Merriman Bros., Inc.: *See*—  
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- Fox, William P. 2,956,780.
- Wayson, Andrew J. 2,936,565.
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- Merriman, Helen R., to The Martin Co. Honeycomb sandwich panel structure and method of making same. 2,952,579, 9-13-60, Cl. 154—127.
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- Merritt, A. Jay, and L. Freedman, to U.S. Vitamin Corp. Method for the selective extraction of water soluble complex mixtures of biologically active flavonoid substances. 2,952,674, 9-13-60, Cl. 260—210.
- Merritt, Earl L. Rotatable plug connector. 2,941,177, 6-14-60, Cl. 339—8.
- Merritt, George W., and J. J. Yuhas, to United States of America, Air Force. Flexible duct mounting. 2,931,672, 4-5-60, Cl. 285—160.
- Merritt, Henry E., to Wharton Engineers (Elstree) Ltd. Apparatus for paying out and winding in cables, wires, ropes and the like. 2,947,494, 8-2-60, Cl. 242—156.
- Merritt, James A., to Coast Mfg. and Supply Co. Coupler and method of joining conduits. 2,930,634, 3-29-60, Cl. 285—21.
- Merritt, James M., to Merck & Co., Inc. Cotton seed treatment and composition, using gibberellin and fungicide. 2,921,410, 1-19-60, Cl. 47—58.
- Merritt, John W. Radiation survey method. 2,947,870, 8-2-60, Cl. 250—83.
- Merritt, Philip E., and C. M. Steele, to General Electric Co. Automatic reading system. 2,924,812, 2-9-60, Cl. 340—149.
- Merritt, Thomas W., and C. A. Thomas, to Babson Bros. Co. Valve. 2,949,276, 8-16-60, Cl. 251—146.
- Marrow Machine Co., The: *See*—  
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- Pierce, Bernard N. 2,931,328.
- Merry, Albert B., and P. F. Hastings. Reversible earth working tiller. 2,943,687, 7-5-60, Cl. 172—125.
- Merry, Clayton B., to Clayton B. Merry Equipment, Inc. Trail grader. 2,953,863, 9-27-60, Cl. 37—108.
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- Mertes, Joseph V., to Pittsburgh Plate Glass Co. Securing cores in brush channel elements. 2,932,051, 4-12-60, Cl. 15—182.
- Mertes, Thomas S., to Sun Oil Co. Hydrocarbon conversion. 2,925,376, 2-16-60, Cl. 208—96.
- Mertes, Thomas S., to Sun Oil Co. Two stage heavy oil coking process. 2,943,995, 7-5-60, Cl. 208—53.
- Mertes, Thomas S., to Sun Oil Co. Separation of polyolefins from liquid media. 2,946,777, 7-26-60, Cl. 260—93.7.
- Mertes, Thomas S., to Sun Oil Co. Purification of polyolefins. 2,957,859, 10-25-60, Cl. 260—93.7.
- Mertes, Thomas S., and R. V. N. Powelson, to Sun Oil Co. Removing traces of moisture from hydrocarbons with solid sodium particles. 2,927,950, 3-8-60, Cl. 260—676.
- Merther, Kenneth L.: *See*—  
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- Merting, Karl, E. L. Rowell, and W. E. Craver, Jr., to Craver Industries, Inc. Adjustable roll shaft bearing assembly. 2,942,506, 6-28-60, Cl. 80—55.
- Merton, Robert R., and R. H. McDowell, to Alginate Industries Ltd. Powdered alginate jelly composition and method of preparing the same. 2,930,701, 3-29-60, Cl. 99—131.
- Mertz, Clyde W., to Phillips Petroleum Co. Evaporation process control by variation in process material dielectric constant. 2,931,433, 4-5-60, Cl. 159—47.
- Mertz, Lyle C., and K. L. Nordstrom, to General Mills, Inc. Flour milling process. 2,941,730, 6-21-60, Cl. 241—9.
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- Mertzweiler, Joseph K., to Esso Research and Engineering Co. Removal of metal contaminants from polymers. 2,921,057, 1-12-60, Cl. 260—93.7.
- Mertzweiler, Joseph K., to Esso Research and Engineering Co. Olefin polymerization. 2,962,491, 11-29-60, Cl. 260—94.9.
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- Merz, Francesco, deceased; Maria, Mario, and Marina Merz, heirs, to Curtiss-Wright Corp. Tire for vehicles, composed of two concentric annular chambers. 2,925,845, 2-23-60, Cl. 152—339.
- Merz, Maria: *See*—  
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- Merz, Paul L., to United States Rubber Co. Preparation of p-nitrodiphenylamine. 2,927,943, 3-8-60, Cl. 260—576.
- Merz, Rudolf, to Crosman Arms Co., Inc. Magazine gun. 2,940,438, 6-14-60, Cl. 124—11.
- Mescher, Harold E., and W. E. Heyer, to Pacific Scientific Co. Quenching apparatus. 2,954,789, 10-4-60, Cl. 134—57.
- Mescher, Harold E., and S. O. Rosensson, to Pacific Scientific Co. Load handling apparatus. 2,954,997, 10-4-60, Cl. 294—110.
- Meserole, Robert H., to Johns-Manville Corp. Resilient insulated edge construction for thermal insulating blankets. 2,960,196, 11-15-60, Cl. 189—34.
- Meserve, Forrest C., and M. F. Smith, to Micro Machinery Products, Inc. Machine for slitting tires. 2,924,267, 2-9-60, Cl. 157—13.
- Mesh, Theodore J.: *See*—  
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- Mesh, Theodore J., to Gilbert & Barker Mfg. Co. Temperature measuring apparatus. 2,965,822, 12-20-60, Cl. 318—28.
- Meshberg, Philip. Receptacle for containing and dispensing a substance under pressure. 2,931,540, 4-5-60, Cl. 222—394.
- Mesl, Phillip J. Folding toothbrush with a positive latch. 2,948,009, 8-9-60, Cl. 15—144.
- Meskat, Walter, and J. Pawlowski, to Farbenfabriken Bayer Aktiengesellschaft. Screw conveyor. 2,948,922, 8-16-60, Cl. 18—12.
- Mesojedec, John. Egg sheller. 2,962,067, 11-29-60, Cl. 146—2.
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- Messen-Jaschin, G.A.: *See*—  
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- Messer, Albert S., to The Dow Chemical Co. Color fast synthetic textile fibers from vinyl lactam polymer-containing acrylonitrile polymers. 2,922,692, 1-26-60, Cl. 8-74.
- Messer, Albert S., to The Dow Chemical Co. Acrylonitrile-vinyl lactam polymer blend textiles light stabilized by treatment with hydroxyl ammonium sulfate and sulfuric acid and products produced thereby. 2,922,693, 1-26-60, Cl. 8-115.5.
- Messer, Albert S., and A. R. Wirth, to The Dow Chemical Co. Reserving agent for acrylonitrile polymer base fibers. 2,931,698, 4-5-60, Cl. 8-21.
- Messer, Paul J., to Lambert Brake Corp. Surface generating machine. 2,959,108, 11-8-60, Cl. 90-11.
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- Messerli, Hans. Garment structure and method of manufacturing the same. 2,931,202, 4-5-60, Cl. 69-22.
- Messerli, Walter. Devices for the controlled dispensation of a liquefied gas from a pressure container. 2,941,376, 6-21-60, Cl. 62-55.
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- Messerschmidt, Sebastian. Ball grinding machines. 2,964-886, 12-20-60, Cl. 51-130.
- Messier, Joseph A. A. Peg board bracket. 2,933,277, 4-19-60, Cl. 248-223.
- Messier, Joseph A. A. Bent wire staying devices for article support. 2,957,671, 10-25-60, Cl. 248-223.
- Messick, Kirwan Y.: *See*—  
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- Messick, Kirwan Y., 1/2 to F. G. Campbell. Automobile hoists. 2,955,718, 10-11-60, Cl. 214-16.1.
- Messina, Frank J., to Westinghouse Electric Corp. Voltage regulation circuits. 2,932,765, 4-12-60, Cl. 315-27.
- Messina, Ralph P., to Colgate-Palmolive Co. Liquid antiperspirant composition. 2,955,983, 10-11-60, Cl. 167-90.
- Messing, Hjalmar S., to American Defibrator, Inc. Grinding device for the breaking down of wood fibres. 2,931,586, 4-5-60, Cl. 241-256.
- Messing, Joseph A.: *See*—  
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- Messing, Joseph A., to I-T-E Circuit Breaker Co. Electric receptacle. 2,942,224, 6-21-60, Cl. 339-21.
- Messner, Ernst, to Farbenfabriken Bayer Aktiengesellschaft. Tetrakisazo dyestuffs. 2,960,497, 11-15-60, Cl. 260-157.
- Messner, Arthur E.: *See*—  
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- Messner, Georg, to Oronzio De Nora Impianti Elettrochimici. Mercury cathode electrolytic cell. 2,951,026, 8-30-60, Cl. 204-221.
- Messner, Harlan A., and H. B. Osborn, Jr., to The Ohio Crankshaft Co. Induction heating of canned goods. 2,945,935, 7-19-60, Cl. 219-10.41.
- Messner, John E.: *See*—  
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- Mesta Machine Co.: *See*—  
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- Mestre, Andre, to Office National d'Etudes et de Recherches Aeronautiques, O.N.E.R.A. Continuous flow thermal machines and in particular in ram-jets and turbo-jets. 2,927,427, 3-8-60, Cl. 60-39.82.
- Mestre, Luis. Collating machine. 2,936,168, 5-10-60, Cl. 270-58.
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- Metal Pumping Services, Inc.: *See*—  
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- Metallurgical Development Co.: *See*—  
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- Metcalf, Eric, and H. Cook, to Rolls-Royce Ltd. Aircraft control systems. 2,945,649, 7-19-60, Cl. 244-77.
- Metcalf, Guy E., Jr. Coaxial cable splicer. 2,923,806, 2-2-60, Cl. 219-57.
- Metcalf, Harry G. Live bait container with automatic closure. 2,923,086, 2-2-60, Cl. 43-55.
- Metcalf, Herbert E.: *See*—  
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- Metcalf, Herbert E., deceased; C. R. Metcalf, administratrix. Rotary actuator. 2,946,229, 7-26-60, Cl. 74-89.
- Metcalf, Herbert E., deceased; C. R. Metcalf, administratrix of said H. E. Metcalf. Electromagnetic axial and rotary actuator. 2,951,381, 9-6-60, Cl. 74-89.
- Metcalf, James F.: *See*—  
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- Metcalf, Philip A., to Orenda Engines Ltd. Work stand and loading apparatus. 2,930,492, 3-29-60, Cl. 214-1.
- Metcalf, Richard R.: *See*—  
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- Metcalfe, Kenneth, to Universal-Cyclops Steel Corp. Method of making cold worked and aged products which are substantially free of objectionable lamellar constituent from precipitation hardenable ferrous base alloys. 2,957,790, 10-25-60, Cl. 148-123.
- Metcalfe, Paul V. Escutcheon for a sprinkler head. 2,946,329, 7-26-60, Cl. 126-317.
- Metcalfe, Richard L. and V. E. Heat-treating furnace for particulate solids. 2,932,498, 4-12-60, Cl. 263-21.
- Metcalfe, Richard T., and E. T. Chrobak. Ski having a foamed plastic body portion. 2,920,898, 1-12-60, Cl. 280-11.13.
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- Metelli, Francesco, to Italo Rizzleri. Socket and plug connection for electric circuits. 2,926,327, 2-23-60, Cl. 339-41.
- Meters Ltd.: See—  
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- Methode Mfg. Corp.: See—  
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- Métivier, Jean, to Societe des Usines Chimiques Rhone-Poulenc. 2-thiocyanomethyl benzothiazole and corresponding 5-chlorobenzothiazole and benzoxazole. 2,932,649, 4-12-60, Cl. 260-304.
- Métivier, Jean, to Societe des Usines Chimiques Rhone-Poulenc. Phosphorus esters. 2,943,974, 7-5-60, Cl. 167-22.
- Métivier, Jean, to Societe des Usines Chimiques Rhone-Poulenc. New Phosphoric esters. 2,943,975, 7-5-60, Cl. 167-22.
- Métivier, Jean, and R. Boesch, to Societe des Usines Chimiques Rhone-Poulenc. 4-chloro-2-hydroxymethylphenoxycetic acid and its derivatives. 2,927,940, 3-8-60, Cl. 260-473.
- Metoff, Boris G. Sanding tool. 2,930,164, 3-29-60, Cl. 51-34.
- Mettraller, William J., to Esso Research and Engineering Co. Product stream in quenching conversion system. 2,927,890, 3-8-60, Cl. 208-162.
- Mettraller, William J., to Esso Research and Engineering Co. Solids system for transfer line coking of residua. 2,944,007, 7-5-60, Cl. 208-127.
- Mettraller, William J., and W. D. McCain, Jr., to Esso Research and Engineering Co. Feed injector for coking for chemicals. 2,952,619, 9-13-60, Cl. 208-157.
- Metro, Stephen, to Parsons Engineering Corp. Dust collector cup. 2,952,332, 9-13-60, Cl. 183-43.
- Metron Instrument Co.: See—  
Simons, Sanford L., Floyd, and Carlsen. 2,957,322.
- Metropolitan-Vickers Electrical Co. Ltd.: See—  
Haine, Michael E., and Mulvey. 2,926,254.  
Haine, Michael E., and Mulvey. 2,950,390.  
Haine, Michael E., and Mulvey. 2,951,157.  
Hamilton, Andrew. 2,960,632.  
Jones, Thomas C., and Mulvey. 2,958,776.  
Kilner, William N., and Tudge. 2,950,403.  
London, Joseph C., and Garland. 2,930,249.  
Neville, Sidney. 2,934,182.  
Quarmbv, Eric, and Richardson. 2,928,984.  
Raine, Thomas, and Robinson. 2,924,518.  
Shannon, James F., and Fulton. 2,961,078.  
Sutherland Donald M., Proctor, Jobbins, and Kearney. 2,964,661.
- Metruilis, Immaculata A. Trojan horse toy. 2,925,686, 2-23-60, Cl. 46-241.
- Metsger, Charles S.: See—  
Gilbert, Samuel, and Metzger. 2,939,324.
- Metten, Theo, to Farbenfabriken Bayer Aktiengesellschaft. Cylindrical ampoule with injection needle. 2,954,029, 9-27-60, Cl. 128-218.
- Mettetal, Bert. Throttle control valve for model engine. 2,921,568, 1-19-60, Cl. 123-107.
- Mettetal, Donald, Jr., to O. B. Anderson. Lubricating apparatus. 2,946,328, 7-26-60, Cl. 123-196.
- Mettler, Erhard: See—  
Rapp, Walter E. 2,950,100.
- Metz, Anthony J.: See—  
Boitscha, Herbert E., and Metz. 2,966,015.
- Metz, Harald: See—  
Mannhardt, Heinz-Jürgen, and Metz. 2,950,226.
- Metz, Heinrich. Process for producing an aqueous liquid-containing yeast preparation. 2,940,910, 6-14-60, Cl. 195-97.
- Metz, Weldon L.: See—  
Derr, Willard A., and Metz. 2,962,702.  
Derr, Willard A., and Metz. 2,965,851.
- Metzgar Conveyor Co.: See—  
Metzgar, Robert H. 2,931,477.
- Metzgar, Robert H., to Metzgar Conveyor Co. Ball and plastic housing assembly. 2,931,477, 4-5-60, Cl. 193-35.
- Metzger, Benjamin A.: See—  
Shafer, Homer J., and Metzger. 2,961,003.
- Metzger, Horst: See—  
Von Schickh, Otto, and Metzger. 2,945,885.
- Metzger, Horst, and O. Flieg, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Fungicides. 2,954,314, 9-27-60, Cl. 167-22.
- Metzger, John A., to Stanley Knight Corp. Dispensing apparatus. 2,934,243, 4-26-60, Cl. 222-145.
- Metzger, Matt F., to General Electric Co. Laundry machine. 2,961,860, 11-29-60, Cl. 68-12.
- Metzger, Melvin R. Vacuum type valve-equipped containers. 2,927,722, 3-8-60, Cl. 229-62.5.
- Metzger, Melvin R. Valve-equipped containers. 2,946,502, 7-26-60, Cl. 229-62.5.
- Metzger, Romain: See—  
Abraham, Paul, and Metzger. 2,945,582.  
Abraham, Paul P., and Metzger. 2,932,811.
- Metzger, Sidney: See—  
Kihn, Harry, Barnette, and Metzger. 2,955,264.
- Metzger, Sidney, to Radio Corp. of America. Multiplex modulation communication system. 2,925,469, 2-16-60, Cl. 179-15.
- Metzger, Sidney, to Radio Corp. of America. Printer. 2,930,847, 3-29-60, Cl. 178-23.
- Metzger, Sidney, to International Telephone and Telegraph Corp. Pulse signalling system. 2,945,094, 7-12-60, Cl. 179-15.
- Metzger, William J., to National Malleable and Steel Castings Co. Car coupler. 2,922,532, 1-26-60, Cl. 213-151.
- Metzger, William J., to National Malleable and Steel Castings Co. Car coupler. 2,931,518, 4-5-60, Cl. 213-151.
- Metzger, William J., to National Malleable and Steel Castings Co. Coupler and yoke connection. 2,932,410, 4-12-60, Cl. 213-70.
- Metzger, William J., to National Malleable and Steel Castings Co. Car coupler. 2,935,211, 5-3-60, Cl. 213-100.
- Metzger, William J., to National Malleable and Steel Castings Co. Car coupler. 2,940,610, 6-14-60, Cl. 213-100.
- Metzger, William J., to National Malleable and Steel Castings Co. Car coupler. 2,948,414, 8-9-60, Cl. 213-127.
- Metzger, William J., to National Malleable and Steel Castings Co. Car coupler. 2,948,415, 8-9-60, Cl. 213-144.
- Metzger, William J., to National Malleable and Steel Castings Co. Car coupler. 2,948,416, 8-9-60, Cl. 213-151.
- Metzger, William J., to National Malleable and Steel Castings Co. Car coupler. 2,951,597, 9-6-60, Cl. 213-100.
- Metzger, William J., to National Malleable and Steel Castings Co. Buffer mechanism for railway vehicles. 2,951,598, 9-6-60, Cl. 213-221.
- Metzger, William J., to National Malleable and Steel Castings Co. Car coupler. 2,956,694, 10-18-60, Cl. 213-100.
- Metzger, William J., to National Malleable and Steel Castings Co. Transitional coupling device. 2,956,695, 10-18-60, Cl. 213-112.
- Metzger, William J., to National Malleable and Steel Casting Co. Coupling mechanism for railway vehicles. 2,959,299, 11-8-60, Cl. 213-112.
- Metzger, William J., to National Malleable and Steel Castings Co. Transitional coupling mechanism. 2,959,300, 11-8-60, Cl. 213-112.
- Metzger, William J., to National Malleable and Steel Castings Co. Car coupler. 2,963,174, 12-6-60, Cl. 213-100.
- Metzler, Charles L., and W. H. Dennerlein, to The Gillette Co. Safety razor set case. 2,925,905, 2-23-60, Cl. 206-16.
- Metzler, Charles L., W. H. Dennerlein, and L. B. Bernstein, to The Gillette Co. Safety razor set case. 2,948,388, 8-9-60, Cl. 206-16.
- Metzler, Charles L., and J. D. Wark, to The Gillette Co. Display rack. 2,954,878, 10-4-60, Cl. 211-184.
- Metzler, Kurt. Dobby drive with shed delaying motion for broad power looms. 2,937,667, 5-24-60, Cl. 139-66.
- Metzler, Kurt. Loom for weaving multiple-ply fabrics. 2,939,489, 6-7-60, Cl. 139-104.
- Metzmeier, Erwin, and T. Friese, to Aktien-Gesellschaft "Weser." Shaft elongation and flexure measuring arrangement. 2,961,872, 11-29-60, Cl. 73-133.
- Metzner, Albert W., and W. C. Boesch, to The Standard Register Co. Strip feeding device. 2,923,543, 2-2-60, Cl. 271-2.3.
- Metzner, Albert W., A. J. Denges, and H. F. Ross, to The Standard Register Co. Manifold forms and processes of making them. 2,964,337, 12-13-60, Cl. 282-21.
- Metzner, Robert B., to Wheeling Steel Corp. Mechanical motion. 2,959,967, 11-15-60, Cl. 74-56.
- Meucci, William J. Weedless hook. 2,932,114, 4-12-60, Cl. 43-43.6.
- Meuer, George J., to Cutler-Hammer, Inc. Electric switch. 2,942,087, 6-21-60, Cl. 200-157.
- Meulendyk, John W., to Pneumo Dynamics Corp. Flow force compensated valve. 2,964,023, 12-13-60, Cl. 121-46.5.
- Meulien, Henri L. P.: See—  
Bertin, Jean H., Turinetti, Meulien, and Bauger. 2,949,734.
- Meulnart, André. Fishing reel carrying a removable spool. 2,942,799, 6-28-60, Cl. 242-84.2.
- Meunier, Alfred C.: See—  
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- Meunier, Gaston, and C. Bruant; said Bruant assor, to "Societe Alsacienne de Constructions Mecaniques." Compensated sonic echo ranging system. 2,965,876, 12-20-60, Cl. 340-3.
- Meurer, Siegfried, to Maschinenfabrik Augsburg-Nürnberg A.G. Internal combustion engine and method of operating it. 2,921,566, 1-19-60, Cl. 123-32.
- Meurer, Siegfried, to Maschinenfabrik Augsburg-Nürnberg A.G. Air compression for self-ignition engines. 2,925,070, 2-16-60, Cl. 123-32.
- Meurer, Siegfried, to Maschinenfabrik Augsburg-Nürnberg A.G. Internal combustion engine. 2,939,439, 6-7-60, Cl. 123-32.



- Meurer, Siegfried, to Maschinenfabrik Augsburg-Nurnberg, A.G. Piston. 2,942,591, 6-28-60, Cl. 123-32.
- Meurer, Siegfried, to Maschinenfabrik Augsburg-Nurnberg A.G. Internal combustion engine. 2,942,592, 6-28-60, Cl. 123-32.
- Mensel, Jerome A., and R. A. Brunn, to The Baltimore Spice Co. Meat curing composition. 2,942,989, 6-28-60, Cl. 99-222.
- Meusy, Eugene E., to Baso Inc. Valve. 2,919,884, 1-5-60, Cl. 251-86.
- Meusch, Adolf, to Wallram Hartmetall G.m.b.H. Briquette mold. 2,932,551, 4-12-60, Cl. 18-47.
- Mey, Helmut: *See*—
- Koch, Gerard, Mey, and Muller. 2,932,227.
- Meyer, Adolf L. Collet stop. 2,965,381, 12-20-60, Cl. 279-46.
- Meyer, Albert, to The Baldwin Piano Co. Key switching system for electrical musical instruments. 2,959,693, 11-8-60, Cl. 307-105.
- Meyer, Amel R., to Union Tank Car Co. Welding shielding and control device. 2,945,943, 7-19-60, Cl. 219-147.
- Meyer, Amel R., to Union Tank Car Co. Welding tool manipulator for tank construction and tools for the same. 2,960,053, 11-15-60, Cl. 113-134.
- Meyer, Barthold F., to General Motors Corp. Circuit controller. 2,966,559, 12-27-60, Cl. 200-6.
- Meyer, Barthold F., and N. Toruk, to General Motors Corp. Closure latch. 2,950,138, 8-23-60, Cl. 292-229.
- Meyer, Carl L.: *See*—
- Hassler, Kenneth E., Heiks, and Meyer. 2,942,158.
- Meyer, Clarence B. F. Combo-trolley-bench. 2,933,113, 4-19-60, Cl. 143-47.
- Meyer, Cletus: *See*—
- Maley, Joseph P., and Scott. 2,930,533.
- Meyer, Curtis E., J. A. Fancher, and P. E. Schurr, to The Upjohn Co. Phosphate emulsifying agent and process of preparing same. 2,945,869, 7-19-60, Cl. 260-403.
- Meyer, Delbert H.: *See*—
- Adams, Chester E., and Meyer. 2,951,100.
- Meyer, Delbert H., and D. E. Burney, to Standard Oil Co. Process for the purification of an aromatic dicarboxylic acid lower alkyl ester. 2,938,837, 5-31-60, Cl. 202-57.
- Meyer, Earl W., Jr., and C. J. Dunne, to The Electric Auto-Lite Co. Ignition systems. 2,963,624, 12-6-60, Cl. 315-209.
- Meyer, Earl W., Jr., J. G. Naborowski, and R. J. Latorre, to The Electric Auto-Lite Co. Ignition system. 2,966,615, 12-27-60, Cl. 315-206.
- Meyer, Edwin W., and S. J. Circle, to The Glidden Co. Paper coating compositions and process. 2,932,589, 4-12-60, Cl. 117-156.
- Meyer, Engelbert A., to General Motors Corp. Stud retaining spring clip. 2,936,668, 5-17-60, Cl. 85-36.
- Meyer, Engelbert A., to General Motors Corp. Fastening device. 2,949,986, 8-23-60, Cl. 189-88.
- Meyer, Engelbert A., to General Motors Corp. Fastener device. 2,959,259, 11-8-60, Cl. 189-88.
- Meyer, Enrico, to Officine Galileo Societa per Azioni. Apparatus for the production of high vacuum, especially in metal evaporation vacuum pumps. 2,954,156, 9-27-60, Cl. 230-69.
- Meyer, Ferdinand: *See*—
- Krzikalla, Hans, Meyer, and van Taack-Trakranen. 2,954,360.
- Meyer, Franklin, to Servomechanisms, Inc. Accelerometer. 2,948,152, 8-9-60, Cl. 73-514.
- Meyer, Fred, of California, Inc.: *See*—
- Meyer, Fred J. 2,941,591.
- Meyer, Fred J., to Fred Meyer of California, Inc. Fireplace screen construction. 2,941,591, 6-21-60, Cl. 160-38.
- Meyer, Fred J., Jr. Swimming pool cover. 2,958,872, 11-8-60, Cl. 4-172.
- Meyer, Friedrich, to Ebauches S.A. Winding and setting mechanism for hermetically closable watches. 2,919,537, 1-5-60, Cl. 58-68.
- Meyer, Friedrich, to Ebauches S.A. Alarm-clock. 2,921,148, 1-12-60, Cl. 200-35.
- Meyer, Friedrich, to Felsa S.A. Overwind preventer for timepiece. 2,948,108, 8-9-60, Cl. 58-83.
- Meyer, Friedrich, to Ebauches S.A. Device in time meters for limiting at two determined end positions the motion of a member movable in two opposite directions. 2,949,170, 8-16-60, Cl. 185-43.
- Meyer, Friedrich, to Ebauches S.A. Timepiece with alarm mechanism. 2,966,027, 12-27-60, Cl. 58-80.
- Meyer, Frederick J. Paint roller tongs. 2,961,683, 11-29-60, Cl. 15-236.
- Meyer, Fritz, to AGFA Aktiengesellschaft. Flashlight synchronization device. 2,933,025, 4-19-60, Cl. 95-11.5.
- Meyer, Geo. J., Mfg. Co.: *See*—
- Carter, Sidney T. 2,920,738.
- Carter, Sidney T. 2,925,931.
- Carter, Sidney T. 2,936,060.
- Carter, Sidney T. 2,940,630.
- Carter, Sidney T. 2,946,472.
- Meyer, George L. N. 2,966,252.
- Meyer, George L. N., to Geo. J. Meyer Mfg. Co. Infeed conveyors. 2,966,252, 12-27-60, Cl. 198-32.
- Meyer, Hans, to Daimler-Benz Aktiengesellschaft. Chain driving mechanism. 2,953,930, 9-27-60, Cl. 74-216.5.
- Meyer, Hans and K. Inflatable structure. 2,939,467, 6-7-60, Cl. 135-1.
- Meyer, Hans R.: *See*—
- Gordon, Bernard M., and Meyer. 2,935,704.
- Meyer, Harry A., and H. J. Langlois, to American Radiator & Standard Sanitary Corp. Automatic reversing turbine pump. 2,961,967, 11-29-60, Cl. 103-96.
- Meyer, Harry G. P., to Kabo, Inc. Girdle. 2,930,380, 3-29-60, Cl. 128-561.
- Meyer, Heinrich: *See*—
- Breuers, Theo P. C., and Meyer. 2,947,539.
- Meyer, Henry L.: *See*—
- Wilhelm, Fred R., and Meyer. 2,941,411.
- Meyer, Henry L., to The Cleveland Trencher Co. Excavating machine. 2,940,189, 6-14-60, Cl. 37-97.
- Meyer, Henry L., and A. J. Di Liddo, to The Cleveland Trencher Co. Sloper mechanism for excavating machines. 2,940,190, 6-14-60, Cl. 37-97.
- Meyer, Henry L., and J. W. Spring, to The Cleveland Trencher Co. Excavating machine. 2,956,355, 10-18-60, Cl. 37-97.
- Meyer, John A.: *See*—
- Gradisar, Albin A., Gutman, and Meyer. 2,933,655.
- Meyer, John K. Tobacco pellet or cartridge. 2,937,648, 5-24-60, Cl. 131-3.
- Meyer, Kenneth H.: *See*—
- Hunt, Nathan C., and Meyer. 2,966,168.
- Meyer, Kurt: *See*—
- Meyer, Hans and K. 2,939,467.
- Pajenkamp, Horst, Russ, zur Strassen, Meyer, and Rausch. 2,945,688.
- Rausch, Hans, Meyer, and Lintermanns. 2,941,881.
- Meyer, Kurt, to Dravo Corp. Calcining or like process. 2,923,539, 2-2-60, Cl. 263-53.
- Meyer, Kurt, to Metallgesellschaft Aktiengesellschaft. Process for providing sintering bed pellets. 2,934,421, 4-26-60, Cl. 75-3.
- Meyer, Lester E. Automatic weigher for cattle feed. 2,942,835, 6-28-60, Cl. 249-33.
- Meyer, Lester E. Automatic weigher for cattle feed and the like. 2,942,836, 6-28-60, Cl. 249-33.
- Meyer, Lester L., and R. L. Tobacco cutter. 2,933,875, 4-26-60, Cl. 56-27.5.
- Meyer, Louis A. Box forming machine. 2,957,395, 10-25-60, Cl. 93-49.
- Meyer, Ludwig J., to Hazemay G.m.b.H. Hammer crush rotor. 2,958,474, 11-1-60, Cl. 241-192.
- Meyer, Marvin: *See*—
- Chillson, Charles W., Meyer, and Lawrence. 2,930,187.
- Knapp, George P., Robbins, Meyer, and Zwack. 2,957,655.
- Meyer, Marvin, to Curtiss-Wright Corp. Pump control systems. 2,944,488, 7-12-60, Cl. 103-16.
- Meyer, Maurice A.: *See*—
- Cole, Addison D., Heaton, and Meyer. 2,920,283.
- Meyer, Maurice A., to Laboratory For Electronics, Inc. Signal modulating apparatus. 2,920,289, 1-5-60, Cl. 332-16.
- Meyer, Maurice A., to Laboratory For Electronics, Inc. Microwave power dividers. 2,941,166, 6-14-60, Cl. 333-9.
- Meyer, Maurice A., to Laboratory For Electronics, Inc. All-pass network amplifier. 2,946,016, 7-19-60, Cl. 330-69.
- Meyer, Maurice A., to Laboratory For Electronics, Inc. Balanced modulator. 2,962,675, 11-29-60, Cl. 332-47.
- Meyer Mfg. Co. Ltd.: *See*—
- Cheng, Wing G. 2,934,635.
- Meyer, Otto G. Telescopic girder for shuttering work. 2,951,564, 9-6-60, Cl. 189-37.
- Meyer, Owen A., and S. J. Andreasen. Rotary pump housing and bearing mounts. 2,957,428, 10-25-60, Cl. 103-126.
- Meyer, Raymond W.: *See*—
- Finger, Joseph S., and Meyer. 2,948,950.
- Meyer, Richard C. Tape recorders. 2,938,731, 5-31-60, Cl. 274-11.
- Meyer, Robert, and D. Pillon, to Societe des Usines Chimiques Rhone-Poulenc. Method of preparing hydrazine sulphate from benzophenone-azine. 2,931,707, 4-5-60, Cl. 23-117.
- Meyer, Robert E., and J. A. Barlock, to United Aircraft Corp. Afterburner igniter. 2,929,211, 3-22-60, Cl. 60-39.82.
- Meyer, Robert F.: *See*—
- Hoeftle, Milton L., and Meyer. 2,949,466.
- Meyer, Robert J. Wall insert for setting bathroom fixtures. 2,930,505, 3-29-60, Cl. 220-18.
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- Meyer, Lester L. and R. L. 2,933,875.
- Meyer, Rudolph, to Maschinen & Apparatebau K. Laier. Immersion type vibrator for consolidating concrete. 2,940,326, 6-14-60, Cl. 74-87.
- Meyer, Steven W.: *See*—
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- Meyer, Wilfried, to Patent-Treuhand-Gesellschaft fur elektrische Gluhlampen m.b.H. Gas- or vapor-filled electric discharge lamps. 2,945,146, 7-12-60, Cl. 313-113.
- Meyer, William H.: *See*—
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- Meyer, William H., to General Steel Castings Corp. Railway truck. 2,928,358, 3-15-60, Cl. 105-192.



- Meyercord Co., The: See—  
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- Meyer, Paul: See—  
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- Meyer, Paul, to Siemens & Halske Aktiengesellschaft. Electron beam focusing device. 2,922,910, 1-26-60, Cl. 313-84.
- Meyerhardt, Dagobert, deceased; R. E. G. Schaller, administrator. Structural units for upholstery purposes. 2,954,074, 9-27-60, Cl. 155-179.
- Meyer-Hartwig, Eberhard. Electrical semi-conductors and method of manufacture. 2,958,936, 11-8-60, Cl. 29-182.5.
- Meyrhoef, Carl E., to Lewyt Corp. Vacuum cleaner assembly. 2,937,395, 5-24-60, Cl. 15-323.
- Meyrhoef, Carl E., to Lewyt Corp. Vacuum cleaner nozzle. 2,961,639, 11-29-60, Cl. 15-371.
- Meyrhofer, Dietrich: See—  
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- Meyrhofer, Dietrich, to Radio Corp. of America. Semiconductor devices and methods of making them. 2,956,217, 10-11-60, Cl. 317-235.
- Meyrhofer, Albert J.: See—  
 Lincoln, Andrew J., Lund, and Meyerhoff. 2,943,300.
- Meyerhoff, Albert J., to Burroughs Corp. Balanced logical magnetic circuits. 2,925,500, 2-16-60, Cl. 307-88.
- Meyerhoff, Albert J., and J. O. Paivinen, to Burroughs Corp. Magnetic transfer circuits. 2,952,007, 9-6-60, Cl. 340-174.
- Meyer-Jagenberg, Günther, to Jagenberg-Werke AKT.-Ges. Cell structures for use in filling and closing containers. 2,933,869, 4-26-60, Cl. 53-201.
- Meyers, Cornelius W. Material handling apparatus. 2,966,016, 12-27-60, Cl. 53-861.
- Meyers, Douglas C., to Shell Oil Co. Multi-channel recording system. 2,961,286, 11-22-60, Cl. 346-50.
- Meyers, F. E., & Bro. Co., The: See—  
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- Meyers, Harold S., to Waldorf Paper Products Co. Package supports. 2,946,455, 7-26-60, Cl. 211-49.
- Meyers, Harvard P. Combination stroller and swing. 2,961,248, 11-22-60, Cl. 280-31.
- Meyers, James E.: See—  
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- Meyers, Leo J., to Best Metal Kraft, Inc. Railing and support means therefor. 2,963,275, 12-6-60, Cl. 256-70.
- Meyers, Loren J.: See—  
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- Meyers, Raymond I.: See—  
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- Meyers, Raymond I., to The Bendix Corp. Aircraft automatic pitch control system. 2,964,263, 12-13-60, Cl. 244-77.
- Meyers, Richard A., to Bundy Tubing Co. Tube scarfing device. 2,959,842, 11-15-60, Cl. 29-98.
- Meyers, Richard K.: See—  
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- Meyers, Robert E., to Bendix Aviation Corp. Reaction limiting control valve. 2,934,089, 4-26-60, Cl. 137-622.
- Meyers, Robert L. Heating and hot water boiler. 2,937,625, 5-24-60, Cl. 122-33.
- Meyers, Stanley T., to Bell Telephone Laboratories, Inc. Shift register interstage coupling circuitry. 2,923,839, 2-2-60, Cl. 307-88.5.
- Meyers, Stanley T., to Bell Telephone Laboratories, Inc. Transistor switching and regenerative pulse amplifier circuit. 2,933,692, 4-19-60, Cl. 330-18.
- Meynig, Robert E. Constant tubing pressure choke. 2,955,614, 10-11-60, Cl. 137-505.13.
- Meyrick, Thomas J.: See—  
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- Mical, William, and D. E. Kramer, to Kramer Trenton Co. Heat exchange system of compression type with air cooled or evaporative condenser and method of operating the same. 2,934,911, 5-3-60, Cl. 62-117.
- Micale, Angelo. Pinking attachment for sewing machines. 2,933,058, 4-19-60, Cl. 112-122.
- Micallef, Lewis A.: See—  
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- Micallef, Lewis A. Pressure discharge can. 2,937,791, 5-24-60, Cl. 222-95.
- Michael, Amos J. Toy fire chief. 2,935,816, 5-10-60, Cl. 46-99.
- Michael, Arthur B., to Fansteel Metallurgical Corp. Columbi-tantalum binary alloys. 2,957,764, 10-25-60, Cl. 75-174.
- Michael, Johannes, to Nordischer Maschinenbau, Rud. Baader. Method of conveying fish past the tools of a fish dressing machine. 2,961,696, 11-29-60, Cl. 17-45.
- Michael-Lohs, Egbert. Protective working glove. 2,942,442, 6-28-60, Cl. 66-174.
- Michael, Louis S. Glove device usable with arctic type handwear for handling tools. 2,941,214, 6-21-60, Cl. 2-161.
- Michael, Ralph A., J. A. Newkirk, and W. E. Preston. Magnetic dust traps or filters. 2,937,710, 5-24-60, Cl. 183-7.
- Michael, Stanley, to Soundtronic Corp. of America. Pick-up for musical instruments. 2,927,167, 3-1-60, Cl. 179-179.
- Michaels, Adlai E., and N. V. Hakala, to Esso Research and Engineering Co. Lubricating oil additive compatibility improver. 2,936,284, 5-10-60, Cl. 252-33.4.
- Michaels, Clyde D.: See—  
 Gordon, Neil D., and Michaels. 2,951,575.
- Michaels, Eugene C.: See—  
 Rebernack, Adolph, and Michaels. 2,961,676.
- Michaels, Edwin B., and M. U. Cohen, to Stamford Chemical Co. Methods and apparatus for dry cleaning. 2,949,336, 8-16-60, Cl. 8-142.
- Michaels, Eugene C. Valve with repair means. 2,924,232, 2-9-60, Cl. 137-315.
- Michaels, Eugene C. Packing assembly for valves. 2,924,233, 2-9-60, Cl. 137-315.
- Michaels, Joseph, 3rd, and J. J. Hajjar. Article rack. 2,927,696, 3-8-60, Cl. 211-27.
- Michaels, Norman, and M. M. Meek. Appliance for use by bowlers. 2,924,457, 2-9-60, Cl. 273-54.
- Michaels, Raymond J., Jr.: See—  
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- Zaugg, Harold E., and Michaels. 2,932,843.
- Zaugg, Harold E., and Michaels. 2,961,442.
- Zaugg, Harold E., Michaels, and Glenn. 2,940,992.
- Michaels, Raymond J., Jr., and H. E. Zaugg, to Abbott Laboratories. Piperazine derivatives. 2,925,420, 2-16-60, Cl. 260-268.
- Michaels, Raymond J., Jr., and H. E. Zaugg, to Abbott Laboratories. Carbinol amines. 2,946,793, 7-26-60, Cl. 260-268.
- Michaelsen, John D.: See—  
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- Michaelson, Forest K.: See—  
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- Watson, Dighton L., and Michaelson. 2,948,624.
- Michaely, Genevieve J. Cleaning device for fabrics. 2,963,728, 12-13-60, Cl. 15-138.
- Michalchik, Michael: See—  
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- Werle, Donald K., and Michalchik. 2,939,802.
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- Michalik, Anthony J.: See—  
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- Michalik, Eugene J.: See—  
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- Michalik, Frank, 50% to E. J. Michalik. Sewing stand. 2,933,224, 4-19-60, Cl. 223-107.
- Michalko, Benjamin, to Union Carbide Corp. Method for shaping thermoplastic fabrics. 2,924,852, 2-16-60, Cl. 18-56.
- Michalko, Benjamin, to Union Carbide Corp. Apparatus for shaping thermoplastic fabrics. 2,942,297, 6-28-60, Cl. 18-19.
- Michalko, Edward: See—  
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- Michalko, Edward, J. Hoekstra, and R. M. Smith, to Universal Oil Products Co. Method for manufacturing catalysts. 2,927,088, 3-1-60, Cl. 252-466.
- Michalowski, Conrad M., and I. Silverman, to Pekay Machine & Engineering Co., Inc. Mixer-muller construction. 2,920,361, 1-12-60, Cl. 22-89.
- Michals, Dean J. Connector for electrical conductors. 2,964,726, 12-13-60, Cl. 359-149.
- Michalsky, Peter. Clothes holder. 2,947,052, 8-2-60, Cl. 24-139.
- Michel, Albert, to Sehon & Cie. Gesellschaft mit beschränkter Haftung. Control valves for two-stage pumps, especially in hydraulic presses. 2,957,419, 10-25-60, Cl. 103-11.
- Michel, David D. Dispensing apparatus. 2,957,610, 10-25-60, Cl. 222-394.
- Michel, Emory B.: See—  
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- Michell, Robert A.: See—  
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- Caloiero, John, Michellini, and Rocchi. 2,958,422.
- Caloiero, John, Michellini, and Rocchi. 2,958,423.
- Michell, William P., to Dana Corporation. Torsional vibration dampener. 2,945,367, 7-19-60, Cl. 64-27.
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- Michels, Julian G., to The Norwich Pharmacal Co. 1-(5-nitrofurfurylideneamino)-2-imidazolidinethione. 2,920,074, 1-5-60, Cl. 260-240.
- Michels, Lawrence, to Gilfillan Bros. Inc. Selectively operable strobe marking circuit. 2,962,709, 11-29-60, Cl. 343-11.
- Michels, Lawrence S., to Gilfillan Bros. Inc. Variable range marking circuit with signal modulation for display identification. 2,937,339, 5-17-60, Cl. 328-189.



- Michelsen, Frederick E., and W. Laikam, to E. R. Schmelser, d.b.a. T. G. Schmelser Co. Earthsurfacing implement. 2,925,870, 2-23-60, Cl. 172-146.
- Michelson, Carlyle, to United States of America, Atomic Energy Commission. Electromagnetic release mechanism. 2,952,802, 9-13-60, Cl. 317-165.
- Michener, Harold D., and J. C. Lewis, to United States of America, Agriculture. Preservation process with alkyl guanidines. 2,934,438, 4-26-60, Cl. 99-150.
- Michener, Harold D., and J. C. Lewis, to United States of America, Agriculture. Preservation process with diepoxybutane. 2,934,439, 4-26-60, Cl. 99-150.
- Michetti, Anthony, to I-T-E Circuit Breaker Co. Circuit breaker handle lock. 2,937,248, 5-17-60, Cl. 200-44.
- Michie, John S.: *See*—  
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- Michiel, Joseph. Dispensing device for merchandise. 2,937,742, 5-24-60, Cl. 206-44.12.
- Michiels, Franciscus M.: *See*—  
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- Michiels, Marie-Jose S., R. P. J. G. Thiebaut, and G. A. Philpot, to Eastman Kodak Co. Photosensitive polymers and their applications in photography. 2,956,878, 10-18-60, Cl. 96-33.
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- Michigan Chrome and Chemical Co.: *See*—  
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- Michigan Magnetics, Inc.: *See*—  
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- Michlin, William, to Philco Corp. Semiconductor apparatus. 2,942,166, 6-21-60, Cl. 317-234.
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- Mick, Stanley H., to General Motors Corp. Split engine. 2,919,686, 1-5-60, Cl. 123-127.
- Mick, Stanley H., to General Motors Corp. Economy control for split engine. 2,930,368, 3-29-60, Cl. 123-127.
- Mick, Stanley H., to General Motors Corp. Fuel cut-off mechanism for fuel injection system. 2,954,019, 9-27-60, Cl. 123-119.
- Mick, Stanley H., to General Motors Corp. Split engine. 2,954,022, 9-27-60, Cl. 123-127.
- Mick, Stanley H., and J. Zimmerman, to General Motors Corp. Fuel injection diaphragm mechanism. 2,938,545, 5-31-60, Cl. 137-784.
- Mickenberg, Jesse. Slip-on plastic cover for steel head bands. 2,954,442, 9-27-60, Cl. 179-156.
- Mickey, John R. Onboard motor tilting device. 2,927,552, 3-8-60, Cl. 115-41.
- Mickler, Malcolm P., Jr. Crate. 2,964,217, 12-13-60, Cl. 220-97.
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- Middaugh, Jack K., and W. R. Young, Jr., to Bell Telephone Laboratories, Inc. Automatic data reader. 2,927,730, 3-8-60, Cl. 235-61.9.
- Middendorf, William H., to The Wadsworth Electric Mfg. Co., Inc. Circuit breaker. 2,934,620, 4-26-60, Cl. 200-88.
- Middendorf, William H., to The Wadsworth Electric Mfg. Co., Inc. Bi-directionally releasable circuit breaker. 2,934,624, 4-26-60, Cl. 200-116.
- Middendorf, William H., to The Wadsworth Electric Mfg. Co., Inc. Counter-directionally releasable circuit breaker. 2,944,128, 7-5-60, Cl. 200-116.
- Middendorf, William H., to The Wadsworth Electric Mfg. Co., Inc. Multipole circuit breaker. 2,956,133, 10-11-60, Cl. 200-88.
- Middents, John R. Variable display panel support. 2,954,126, 9-27-60, Cl. 211-176.
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- Middlebrooks, Clarence E., Jr. Drive control means for a turbo-compressor unit. 2,963,863, 12-13-60, Cl. 60-39.75.
- Middle, Joel R. Mixing means for livestock feeding apparatus. 2,941,505, 6-21-60, Cl. 119-51.
- Middle, Alexander G., to Ford Motor Co. Valve gear. 2,943,612, 7-5-60, Cl. 123-90.
- Middlestadt, Fred J. Universal locating fixture. 2,941,303, 6-21-60, Cl. 33-174.
- Middlestadt, Fred J. Precision light aperture arrangement. 2,964,998, 12-20-60, Cl. 88-61.
- Middlestadt, William F. Joint cutting machine. 2,935,981, 5-10-60, Cl. 125-14.
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- Middleton, William J., to E. I. du Pont de Nemours and Co. Penta-substituted pyrroles. 2,961,447, 11-22-60, Cl. 260-313.
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- Miesse, Carlton B., Jr., to Harris-Intertype Corp. Lithographic printing, 2,937,594, 5-24-60, Cl. 101-426.
- Miessen, Walter, to Firma A. Monforts. Rotatable mounting for napping rollers, 2,923,998, 2-9-60, Cl. 26-33.
- Miessler, Paul W., Sr., to The Hankins Container Co. Container for lamp bulbs or the like, 2,940,653, 6-14-60, Cl. 229-39.
- Miessner, Benjamin F., to The Wurlitzer Co. Clamping and control apparatus for reed generators used in electronic music instruments, 2,919,616, 1-5-60, Cl. 84-1.04.
- Miessner, Benjamin F., to The Wurlitzer Co. Tone generating apparatus, 2,932,231, 4-12-60, Cl. 84-1.14.
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- Mignonac, Georges, and P. J. A. Bourbon, to Compagnie Francaise des Matieres Colorantes. Process for the production of aldehydes, 2,945,862, 7-19-60, Cl. 260-297.
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- Mignone, Tomaso, to S.A.R.O.M. Societa Azionaria Raffinazione Olii Minerali. Apparatus for extraction by the double solvent method, 2,953,501, 9-20-60, Cl. 196-14.52.
- Miguez, Jose. Drying rack for dishes and tableware, 2,936,898, 5-17-60, Cl. 211-41.
- Mihailovic, Zivko, and A. Rimsky, to Centre National de la Recherche Scientifique. Electrostatic focussing device, 2,958,799, 11-1-60, Cl. 313-57.
- Mihal, Gust J., and W. W. McCaw, to Deere & Co. Protective element for tractor radiator and mounting therefor, 2,962,107, 11-29-60, Cl. 180-68.
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- Mihalek, Emery, and C. Szyper, to Hershey Mfg. Co. Varying device for dispensing machines, 2,932,976, 4-19-60, Cl. 74-96.
- Mihalyi, Joseph. Golf bag and seat carrying cart, 2,941,814, 6-21-60, Cl. 280-42.
- Mihelich, Edward L., to United States Steel Corp. Method of making 9.10-phenanthraquinone, 2,930,742, 3-29-60, Cl. 204-158.
- Mihina, Joseph S., to G. D. Searle & Co. 6-oxygenated 17a-carboxy (ethyl/vinyl)-3a,5-cyclo-5a-androstan-17-ol lactones, 2,932,642, 4-12-60, Cl. 260-239.57.
- Mihlsten, Richard S. Vehicle tire cooling device, 2,934,124, 4-26-60, Cl. 152-153.
- Mihram, Russell G., and L. H. Garrett, to Halliburton Oil Well Cementing Co. Method of fracturing, 2,951,535, 9-6-60, Cl. 166-42.
- Mika, John P., and H. K. Hughes, to Celanese Corp. of America. Solutions of organic acid esters of cellulose, 2,925,353, 2-16-60, Cl. 106-198.
- Mikami, Harry M., to E. J. Lavino and Co. Synthetic refractory chrome composition, 2,965,505, 12-20-60, Cl. 106-50.
- Mikel, Harold R.: See—  
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- Mikulis, Benjamin M.: See—  
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- Mikulis, Benjamin M., and H. W. Wegener, to Sanders Associates, Inc. Method of laminating conductors to thermoplastic materials, 2,964,436, 12-13-60, Cl. 154-2.21.
- Mikulas, William, to Conmar Products Corp. Slide fasteners, 2,937,427, 5-24-60, Cl. 24-205.15.
- Milam, Charles R.: See—  
 Howard, George C., and Milam, 2,965,171.
- Milam, Hinman S. Apparatus for measuring rate of flow and oil and water production of wells, 2,936,618, 5-17-60, Cl. 73-194.
- Milam, Joseph E., W. E. Makris, and R. E. McGreevy, to Columbia-Southern Chemical Corp. Method of controlling alkane oxychlorination process, 2,952,714, 9-13-60, Cl. 260-662.
- Milani, Louis, Foods, Inc.: See—  
 Cahn, Frank J., 2,948,622.
- Milani, Virgil. Process of preparing a dry ravioli product, 2,950,978, 8-30-60, Cl. 99-199.
- Milavec, Frank. Louvre, 2,962,137, 11-29-60, Cl. 189-63.
- Milazzo, Joseph S.: See—  
 Kirby, Ben H., Bernard, and Milazzo, 2,964,531.  
 Studer, Paul A., and Milazzo, 2,937,209.
- Milbank Mfg. Co., Inc.: See—  
 Waldrop, Robert F., 2,931,879.  
 Waldrop, Robert F., 2,947,967.
- Milberger, Ernest C., to The Standard Oil Co. Thickened lubricant and process for preparing the same, 2,945,809, 7-19-60, Cl. 252-28.
- Milberger, Ernest C., to The Standard Oil Co. Thickened lubricant containing a carbinoxyminosilane, 2,961,402, 11-22-60, Cl. 252-28.
- Milberger, Ernest C., and W. P. Kinneman, Jr., to The Standard Oil Co. Wire-drawing lubricating composition, 2,948,681, 8-9-60, Cl. 252-33.4.
- Milbourne, Benjamin K., 1/2 to W. S. Clayton, Jr. Venetian blind cleaner, 2,941,232, 6-21-60, Cl. 15-377.
- Milbrodt, Alden H.: See—  
 Wurzbarger, Paul D., and Milbrodt, 2,958,544.
- Milde, Norman H.: See—  
 Cardona, Carlos J., and Milde, 2,919,627.
- Milenkovic, Veljko, J. Sturas, and C. Dubosque, Jr., to American Machine and Foundry Co. Drive and brake, 2,940,563, 6-14-60, Cl. 192-5.
- Milentz, Charles A. Wrench having spring-closed and lever-locked pivotal jaws, 2,937,550, 5-24-60, Cl. 81-91.
- Miles, Alfred: See—  
 Kurtz, Henry J., and Miles, 2,948,797.



- Miles, Elburt S., to Phillips Petroleum Co. Pressurized storage container and method of operating same. 2,928,249, 3-15-60, Cl. 61-5.
- Miles, Ewell C., to Pittsburgh Plate Glass Co. Windshield glass. 2,924,485, 2-9-60, Cl. 296-84.
- Miles, George E., to Phillips Petroleum Co. Extrusion of solid rocket grains. 2,952,876, 9-20-60, Cl. 18-30.
- Miles, George N.: *See*—
- MacCracken, Calvin D., and Miles. 2,949,679.
- Miles, George N., to Jet-Heat, Inc. Sump pump. 2,935,029, 5-3-60, Cl. 103-272.
- Miles, John F.: *See*—
- Engelberger, Joseph F., Miles, and Walker. 2,960,070.
- Miles, John H., and O. B. Elliott. Sewing machine motor control. 2,920,257, 1-5-60, Cl. 318-266.
- Miles, John R., to Chicago Aerial Industries, Inc. Symmetrical optical system for binocular viewing devices. 2,925,751, 2-23-60, Cl. 88-1.
- Miles Laboratories, Inc.: *See*—
- Croxall, Willard J., and Mellema. 2,960,508.
- Fancher, Otis E. 2,931,832.
- Slager, James E. 2,960,510.
- Slager, James E., and Dawson. 2,960,452.
- Snyder, Eric G., and Gagan. 2,922,749.
- Miles, Melvin L. Door seals. 2,954,591, 10-4-60, Cl. 20-69.
- Miles, Raymond C., and J. G. Rubenson, to Cutler-Hammer, Inc. Gear sorting. 2,962,166, 11-29-60, Cl. 209-88.
- Miles, Vivian S.: *See*—
- Moser, Robert C. 2,933,074.
- Mileschuk, Joseph. Fish lure. 2,922,246, 1-26-60, Cl. 43-42.6.
- Millette, Kenneth A.: *See*—
- Vaughan, Christine U., Bond, and Millette. 2,945,584.
- Miley, Hunter, to L. Sonneborn Sons, Inc. Apparatus for thermal decomposition of sludges. 2,929,689, 3-22-60, Cl. 23-261.
- Miley, Hunter, H. Sonneborn III, G. Schindler, and F. W. Breth, to L. Sonneborn Sons, Inc. Process for thermal decomposition of sulfuric acid sludges. 2,929,683, 3-22-60, Cl. 23-177.
- Miley, Hunter, H. Sonneborn III, and F. W. Breth, to L. Sonneborn Sons, Inc. Process for thermal decomposition of sulfuric acid sludges. 2,929,684, 3-22-60, Cl. 23-177.
- Milhem, James. Trailer apparatus. 2,958,432, 11-1-60, Cl. 214-84.
- Miljk, Rudolf. Conveyors. 2,923,398, 2-2-60, Cl. 198-92.
- Milko Products Ltd.: *See*—
- Bissell, Ray H. 2,949,363.
- Milla, Joseph,  $\frac{1}{4}$  to M. Barrios, and  $\frac{1}{4}$  to C. Barrios. Handy wire splicer. 2,949,939, 8-23-60, Cl. 140-115.
- Millar, Gordon H., to Ford Motor Co. Free piston engine. 2,925,073, 2-16-60, Cl. 123-46.
- Millar, Ronald L., and S. B. Radlove, to The Glidden Co. Process for preparing esters of epoxidized copolymer drying oils, and resulting products. 2,921,947, 1-19-60, Cl. 260-410.6.
- Millard, Richard J., to Sprague Electric Co. Electrolytic device. 2,936,514, 5-17-60, Cl. 29-25.31.
- Millenaar, Richard D.: *See*—
- McAlpine, Charles H., McGowan, and Millenaar. 2,930,508.
- Miller, Aaron, to Kelco Co. Composition and method for improving frozen confections. 2,935,406, 5-3-60, Cl. 99-136.
- Miller, Aaron, to Kelco Co. Composition and method for improving frozen confections. 2,935,410, 5-3-60, Cl. 99-136.
- Miller, Aaron, and F. E. Corley, to Kelco Co. Alginate containing appetite depressant. 2,935,447, 5-3-60, Cl. 167-55.
- Miller, Abba. Folding high chair. 2,935,122, 5-3-60, Cl. 155-131.
- Miller, Abe, to Miller Laundry Machinery Co. Bottom dump divided slings for laundry extractors. 2,963,311, 12-6-60, Cl. 294-69.
- Miller, Abe, and E. Mack, to Miller Laundry Machinery Co. Load forming and sling loading cart. 2,932,528, 4-12-60, Cl. 280-79.2.
- Miller, Albert A., to Self-Changing Gears Ltd. Epicyclic change speed gearing. 2,929,272, 3-22-60, Cl. 74-759.
- Miller, Albert A., to Self-Changing Gears Ltd. Automatic change speed gears. 2,950,632, 8-30-60, Cl. 74-720.
- Miller, Alexander A., to General Electric Co. Polyolefins. 2,945,792, 7-19-60, Cl. 204-154.
- Miller, Alf W.: *See*—
- Bisceglia, Dominic T., and Miller. 2,956,456.
- Miller, Alfred H.: *See*—
- Walters, Emmett L., and Miller. 2,948,991.
- Miller, Alfred J.: *See*—
- Rath, Howard G., Miller, and Kratz. 2,925,170.
- Royer, Stanley H., Miller, and Calaman. 2,935,303.
- Miller, Alfred L.: *See*—
- Baldwin, Francis P., Miller, and Robison. 2,943,664.
- Brodkey, Robert S., and Miller. 2,936,295.
- Brodkey, Robert S., and Miller. 2,955,094.
- Fusco, James V., Robison, and Miller. 2,962,474.
- Hunter, Edward A., Segura, Small, and Miller. 2,944,038.
- Newberg, Raymond G., Miller, and McCulloch. 2,928,759.
- Miller, Alfred P.: *See*—
- Richardson, Philip, and Miller. 2,929,943.
- Miller, Alvin L. Locatable louver operator. 2,952,052, 9-13-60, Cl. 20-62.
- Miller, Anthony P., to Achilles Corp. Method and apparatus for producing perforated cigarettes. 2,924,223, 2-9-60, Cl. 131-24.
- Miller, Anthony R. Pill-counting apparatus. 2,941,652, 6-21-60, Cl. 198-30.
- Miller, Arthur E.: *See*—
- Bondra, John J., Smith, and Miller. 2,922,632.
- Miller, Arthur E., and N. C. Koester, to Scott Aviation Corp. System for automatically presenting a breathing mask to a person in an emergency. 2,931,355, 4-5-60, Cl. 128-142.
- Miller, Arthur F.: *See*—
- Foreman, Robert W., and Miller. 2,941,019.
- Miller, Arthur H.: *See*—
- Samburoff, Serge N., and Miller. 2,954,733.
- Miller, Arthur R.: *See*—
- Gannon, Thomas P., Miller, and Crook. 2,954,200.
- Miller, Bertrand J., to Zenith Radio Corp. Wave-signal translating circuits. 2,939,916, 6-7-60, Cl. 179-15.
- Miller, Boyd C. Apparatus for and method of heat-treating articles. 2,928,158, 3-15-60, Cl. 25-142.
- Miller, Burton F., to Hughes Aircraft Co. High-speed printer. 2,935,016, 5-3-60, Cl. 101-93.
- Miller, Calvin Q., and W. W. Ranson, to E. I. du Pont de Nemours, and Co. Coloring matter for ball-pen inks. 2,950,285, 8-23-60, Cl. 260-314.5.
- Miller, Calvin Q., and W. W. Ranson, to E. I. du Pont de Nemours, and Co. Basic dye salts of polysulfonated phthalocyanines and process of producing the same. 2,950,286, 8-23-60, Cl. 260-314.5.
- Miller, Carl D., to The Cooper Bessemer Corp. Resilient coupling. 2,944,844, 7-12-60, Cl. 287-53.
- Miller, Carl D., to Fairchild Engine and Airplane Corp. Tire folding method. 2,955,635, 10-11-60, Cl. 152-330.
- Miller, Carl F., and W. H. McCurdy, to Westinghouse Electric Corp. Electron discharge device. 2,929,668, 3-22-60, Cl. 316-19.
- Miller, Carl F., C. E. Horner, W. H. McCurdy, and D. R. Quinn, to Westinghouse Electric Corp. Grid electrodes for electron discharge devices. 2,933,436, 4-19-60, Cl. 204-11.
- Miller, Carl S., and D. G. Kimble, to Minnesota Mining and Mfg. Co. Thermoprinting apparatus. 2,958,778, 11-1-60, 250-65.
- Miller, Carlos C., Jr.: *See*—
- Adams, Paul R., Speen, and Miller. 2,940,318.
- Miller, Carlton W., to United States of America, Navy. Parallax computation apparatus. 2,919,849, 1-5-60, Cl. 235-61.
- Miller, Carroll E., to Cone Automatic Machine Co., Inc. Pick-off spindle chucking mechanism. 2,937,030, 5-17-60, Cl. 279-75.
- Miller, Carroll T.: *See*—
- Ames, James L., and Miller. 2,941,985.
- Miller, Charles, and P. Romanelli, to Ram Domestic Products Co. Door-operated safety device for automotive acceleration systems. 2,942,680, 6-28-60, Cl. 180-82.
- Miller, Charles A., Jr.: *See*—
- Hansen, Ralph C., and Miller. 2,940,402.
- Miller, Charles C., Jr., and A. J. Ricci, to Altoscan Co. Captive rotary wing aircraft and control system. 2,948,489, 8-9-60, Cl. 244-17.17.
- Miller, Charles D., to J. I. Case Co. Power take-off spreader. 2,956,808, 10-18-60, Cl. 275-6.
- Miller, Charles E., to Olin Mathieson Chemical Corp. Ammunition. 2,953,990, 9-27-60, Cl. 102-42.
- Miller, Charles J. Carton. 2,965,280, 12-20-60, Cl. 229-37.
- Miller, Charles W.: *See*—
- Onksen, George W., Miller, Griner, Martin, and Skinner. 2,937,250.
- Miller, Charles W., and G. W. Onksen, to General Motors Corp. Light responsive control system. 2,934,676, 4-26-60, Cl. 315-83.1.
- Miller, Clair E.: *See*—
- Anderson, Walter L., and Miller. 2,960,779.
- Miller, Claire: *See*—
- Sardeson, Robert, and Miller. 2,934,000.
- Miller, Clarence D., and J. N. Pirok, to Chicago Bridge & Iron Co. Elevated storage tank. 2,961,118, 11-22-60, Cl. 220-18.
- Miller, Clarence H., to Machine Products Corp. Layout fixture. 2,921,376, 1-19-60, Cl. 33-174.
- Miller, Clark O. Rack for washing machine. 2,935,207, 5-3-60, Cl. 211-74.
- Miller, Claude R. Method of preparing cooked frozen rice. 2,938,802, 5-31-60, Cl. 99-193.
- Miller, Coleman J., to Westinghouse Electric Corp. Saturating filter network. 2,922,035, 1-19-60, Cl. 250-27.
- Miller, Coleman J., to Westinghouse Electric Corp. Radiation suppression circuit. 2,929,924, 3-22-60, Cl. 250-17.
- Miller Co., The: *See*—
- Pascucci, Ernest. 2,946,881.
- Pascucci, Julio A. 2,939,669.
- Pascucci, Julio A. 2,966,325.
- Pascucci, Julio A. and E. B. 2,954,201.
- Miller, Dale W.: *See*—
- Covert, Calvin C., and Miller. 2,924,940.
- Kessler, James R., Miller, and Skinner. 2,949,159.
- Miller, Daniel B., to Miller Electric Co. Electric cord connector. 2,953,768, 9-20-60, Cl. 339-131.



- Miller, Daniel R.: See—  
Martinnelli, Raymond C., and Miller. 2,948,516.
- Miller, David. Hat display stand. 2,963,166, 12-6-60, Cl. 211-32.
- Miller, David R., and G. Brown, to Bendix Aviation Corp. Control system controlling one output variable and providing limits for other outputs. 2,941,359, 6-21-60, Cl. 60-39.28.
- Miller, David T. A., to Joseph Lucas (Industries) Ltd. Valves for controlling re-heat fuel on air-craft. 2,938,341, 5-31-60, Cl. 60-39.28.
- Miller, Dean O. Fuel distributing mechanism. 2,963,200, 12-6-60, Cl. 222-26.
- Miller, Don E.: See—  
Schumacher, Rolf A., and Miller. 2,954,229.
- Miller, Donald B. Meter mark-card device. 2,964,374, 12-13-60, Cl. 346-17.
- Miller, Donald F., to E. I. du Pont de Nemours and Co. Chain link. 2,923,999, 2-9-60, Cl. 26-61.
- Miller, Donald L., to Bendix Aviation Corp. Engine starter drives. 2,936,629, 5-17-60, Cl. 74-9.
- Miller, Donald L., to Bendix Aviation Corp. Dental type of overrunning clutch transmission. 2,939,562, 6-7-60, Cl. 192-104.
- Miller, Donald M.: See—  
Gray, Wilna R. 2,954,000.
- Miller, Earl E., and A. C. Rehm, to James Heddon's Sons. Device for coupling rods. 2,937,041, 5-17-60, Cl. 287-117.
- Miller, Earle C., to Riley Stoker Corp. Steam temperature control. 2,947,239, 8-2-60, Cl. 122-479.
- Miller, Earle C., to Riley Stoker Corp. Fly ash separation. 2,949,099, 8-16-60, Cl. 122-235.
- Miller, Earle C., C. A. Stone, and H. Hansen, to Riley Stoker Corp. Apparatus for burning refuse fuel. 2,925,055, 2-16-60, Cl. 110-105.
- Miller, Edgar S.: See—  
Oberholtz, Lester E., and Miller. 2,959,175.
- Miller, Edith J. B., to Desarco Corp. Color harmony selection assembly. 2,938,281, 5-31-60, Cl. 35-28.3.
- Miller, Edsel L.: See—  
Kirk, James C., and Miller. 2,928,867.  
Kirk, James C., and Miller. 2,932,677.
- Miller, Edward H., to General Electric Co. Double reheat compound turbine powerplant. 2,955,429, 10-11-60, Cl. 60-73.
- Miller, Edward S., to Sherwood Electronic Laboratories, Inc. Stereophonic sound system. 2,922,848, 1-26-60, Cl. 179-100.1.
- Miller, Edward S., and R. M. Grodinsky, to Sherwood Electronic Laboratories, Inc. Power amplifier. 2,934,714, 4-26-60, Cl. 330-134.
- Miller Electric Mfg. Co.: See—  
Miller, Daniel B. 2,953,768.  
Mulder, Allan C. 2,924,750.  
Mulder, Allan C. 2,960,626.
- Miller, Elmer L.: See—  
Folkins, Hillis O., Lucas, and Miller. 2,951,887.  
Folkins, Hillis O., and Miller. 2,937,214.  
Folkins, Hillis O., and Miller. 2,951,872.  
Folkins, Hillis O., and Miller. 2,951,873.  
Folkins, Hillis O., Miller, and Lucas. 2,925,453.  
Folkins, Hillis O., Miller, and Lucas. 2,943,128.  
Folkins, Hillis O., Miller, and O'Malley. 2,921,024.
- Miller, Elmer L., and H. O. Folkins, to The Pure Oil Co. Process and catalyst for the isomerization of n-paraffins. 2,935,544, 5-3-60, Cl. 260-683.65.
- Miller, Elmer L., and H. O. Folkins, to The Pure Oil Co. Process and catalyst for isomerizing normal paraffins. 2,943,129, 6-28-60, Cl. 260-683.68.
- Miller, Elmer L., and H. O. Folkins, to The Pure Oil Co. Upgrading hydrocarbon oils in the presence of hydrogen with a tungsten oxide, molybdenum oxide on silica-alumina catalyst composite. 2,964,463, 12-13-60, Cl. 208-110.
- Miller, Emery P., to Ransburg Electro-Coating Corp. Method of electrostatically coating by causing coalescence of coating droplets. 2,920,982, 1-12-60, Cl. 117-93.
- Miller, Ernest C. C. Refuse handling apparatus. 2,941,679, 6-21-60, Cl. 214-83.36.
- Miller, Ervan H. Temporary power and lighting system. 2,928,064, 3-8-60, Cl. 339-21.
- Miller, Ervan H. Fishing sinker. 2,945,324, 7-19-60, Cl. 43-44.97.
- Miller, Ervin R.: See—  
Cartwright, Bert W., Iavelli, and Miller. 2,932,990.
- Miller, Floyd F.: See—  
Wolfe, John S. B., and Miller. 2,953,556.
- Miller, Floyd F., and D. S. Conner, to Goodrich-Gulf Chemicals, Inc. Method of removing heavy metal catalyst from olefinic polymers by treatment with an aqueous solution of a complexing agent. 2,953,554, 9-20-60, Cl. 260-94.3.
- Miller, Floyd F., and D. S. Conner, to Goodrich-Gulf Chemicals, Inc. Solvent separation treatment of olefin hydrocarbon polymers. 2,953,555, 9-20-60, Cl. 260-94.7.
- Miller, Francis G., to Republic Aviation Corp. Engine dolly. 2,921,784, 1-19-60, Cl. 269-112.
- Miller, Francis J. Impregnating liquids with gas. 2,927,028, 3-1-60, Cl. 99-49.
- Miller, Frank B., C. R. Foltz, and J. J. Smith, to Mueller Co. Fire valve and apparatus for replacing parts thereof. 2,937,657, 5-24-60, Cl. 137-328.
- Miller, Frank E., Jr.: See—  
Allen, Richard C., and Miller. 2,950,671.
- Miller, Frank G., to General Foods Corp. Baking powder. 2,933,396, 4-19-60, Cl. 99-95.
- Miller, Fred B., to Evans Products Co. Freight car wall straightener. 2,939,507, 6-7-60, Cl. 153-48.
- Miller, Fred P.: See—  
Case, Carlton L., Harkey, and Miller. 2,944,421.
- Miller, Frederick E.: See—  
Kohl, Arthur L., and Miller. 2,926,751.  
Kohl, Arthur L., and Miller. 2,926,753.  
Redemann, Clio E., and Miller. 2,926,752.
- Miller, Frederick J., to General Foods Corp. Process for producing quick cooking cereal product. 2,930,697, 3-29-60, Cl. 99-80.
- Miller, Frederick W. Congelation apparatus. 2,945,361, 7-19-60, Cl. 62-355.
- Miller, Frederick W. Disposable frosted vessel. 2,952,133, 9-13-60, Cl. 62-1.
- Miller, George, to Barton Instrument Corp. Adjustment for valve closure of differential pressure responsive mechanism. 2,928,425, 3-15-60, Cl. 137-786.
- Miller, George, deceased (E. G. Klein, executrix of said G. Miller), to H. Miller. Carburetor gas saving device. 2,955,615, 10-11-60, Cl. 137-589.
- Miller, George A.: See—  
Neros, Clifford A., and Miller. 2,951,101.
- Miller, George A., and R. H. Lasco, to Diamond Alkali Co. Chemical process for preparing trichloro-bis (chlorophenyl) ethane. 2,932,672, 4-12-60, Cl. 260-649.
- Miller, George A., and C. A. Neros, to Diamond Alkali Co. Chemical composition and process. 2,964,572, 12-13-60, Cl. 260-651.
- Miller, George B., deceased (by L. M. Miller, executrix), Internal combustion jet propulsion engine having a retracted pressure wave engine control device. 2,948,113, 8-9-60, Cl. 60-35.6.
- Miller, George B., and R. D. Rynders, to Racine Hydraulics & Machinery, Inc. Solenoid controlled valve. 2,930,947, 3-29-60, Cl. 317-191.
- Miller, George M. Light transmitting device. 2,921,552, 1-19-60, Cl. 116-114.
- Miller, George P., and C. W. Musser, to United States of America, Army. Electric generator control means. 2,929,936, 3-22-60, Cl. 290-1.
- Miller, Gerald A., and R. L. Walters, to The Colorado Fishing Rod Holder Co. Fishing rod holder. 2,954,909, 10-4-60, Cl. 224-5.
- Miller, Gladys D.: See—  
Harkenrider, Robert J. 2,927,827.  
Harkenrider, Robert J., Mizell, and Berch. 2,943,378.
- Miller, Glen W.: See—  
Conley, John, and Miller. 2,930,407.
- Miller, Gustave: See—  
Jaros, Robert L. 2,925,235.  
McCutcheon, David C., and Miller. 2,938,988.  
Shaw, Mary A. 2,953,242.  
Tyle, John A. 2,962,018.
- Miller, Harold: See—  
Miller, George. 2,955,615.
- Miller, Harold A., and L. M. Greenstein, to Francis Earle Laboratories, Inc. Nacreous pigment and process of preparing same. 2,950,981, 8-30-60, Cl. 106-194.
- Miller, Harold E.: See—  
Picking, Howard M., Jr., and Miller. 2,964,349.
- Miller, Harold J., to P. B. Bell, deceased; H. J. Miller and A. H. Connolly, Jr., executors. Exercising machines. 2,924,456, 2-9-60, Cl. 272-79.
- Miller, Harold L., to Vemco Products, Inc. Rotary limit switch. 2,951,920, 9-6-60, Cl. 200-47.
- Miller, Harold M., to Whitin Machine Works. Stop motion for winding machine. 2,930,538, 3-29-60, Cl. 242-38.
- Miller, Harold N.: See—  
Flan, Anthony, and Miller. 2,938,677.
- Miller, Harry, and G. F. Jude, to Sperry Rand Corp. Longitudinal axis control system for aircraft. 2,936,134, 5-10-60, Cl. 244-77.
- Miller, Harry B., to Cle vite Corp. Composite electro-mechanical transducer. 2,930,912, 3-29-60, Cl. 310-26.
- Miller, Harry C., Co.: See—  
Enikeieff, Oleg C. 2,921,141.  
Enikeieff, Oleg C. 2,963,576.
- Miller, Harry C. Combination lock. 2,925,726, 2-23-60, Cl. 70-333.
- Miller, Harry C., to Sargent & Greenleaf, Inc. Dial and spindle assembly. 2,951,358, 9-6-60, Cl. 70-332.
- Miller, Harry C., and F. J. Gregory, to The Kingfisher-Bristol Co. Archery bow and string. 2,921,572, 1-19-60, Cl. 124-23.
- Miller, Harry C., and F. J. Gregory, to The Kingfisher-Bristol Co. Tapered line. 2,933,798, 4-26-60, Cl. 28-81.
- Miller, Harry F.: See—  
Bach, John W., Peet, and Miller. 2,944,511.
- Miller, Harry H. Hose clamp. 2,963,305, 12-6-60, Cl. 285-114.
- Miller, Harry J., to L. M. Williams. Method and apparatus for removing valve lifter units from internal combustion engines. 2,943,385, 7-5-60, Cl. 29-213.
- Miller, Harvey: See—  
Du Boff, Philip, and Miller. 2,946,458.



- Miller, Henry, to The Allbright-Nell Co. Knife sharpening apparatus for rotary knives having involute contours. 2,933,865, 4-26-60, Cl. 51-249.
- Miller, Henry C.: *See*—  
Hoover, Fred W., and Miller. 2,933,475.
- Miller, Henry F. Can puncturing device. 2,936,521, 5-17-60, Cl. 30-10.
- Miller, Henry G., Jr., to Hickory Dyeing & Winding Co., Inc. Centrifugal space dyeing machine and method. 2,922,696, 1-26-60, Cl. 8-155.1.
- Miller, Henry J.: *See*—  
Thall, Earle S., and Miller. 2,928,925.
- Miller, Henry T., to Collins Radio Co. Sequential electronic switch. 2,955,201, 10-4-60, Cl. 250-27.
- Miller, Herman, Inc.: *See*—  
Eames, Charles, Albinson, and Bauer. 2,956,618.
- Miller, Herman J., G. A. Phillips, and J. J. Hebel, to Worlds-best Industries, Inc. Clothes stand. 2,921,763, 1-19-60, Cl. 248-121.
- Miller, Hermann. Shavers. 2,952,907, 9-20-60, Cl. 30-34.
- Miller Hoff, Inc.: *See*—  
Raddin, Harry A., and Johnson. 2,930,078.
- Miller, Howard C., to Morton Salt Co. Noncaking rock salt composition. 2,947,603, 8-2-60, Cl. 23-89.
- Miller, Howard J. Game apparatus. 2,926,914, 3-1-60, Cl. 273-95.
- Miller Hydro Co.: *See*—  
Nussbaum, Herbert H. 2,966,251.
- Miller, I., & Sons, Inc.: *See*—  
Zuckerman, Merwin. 2,955,366.
- Miller, Ian M., to Merck & Co., Inc. Process for preparing hydroxybenzimidazole by fermentation. 2,960,446, 11-15-60, Cl. 195-114.
- Miller, Ian M., and C. Rosenblum, to Merck & Co., Inc. Production of vitamin B<sub>12</sub> using delta-aminolevulinic acid. 2,939,822, 6-7-60, Cl. 195-96.
- Miller, Ivan K., to E. I. du Pont de Nemours and Co. Extruding a ferrocyanide containing viscose into a nickel salt containing bath. 2,960,385, 11-15-60, Cl. 18-54.
- Miller, J. Carter. Rotary actuator. 2,936,737, 5-17-60, Cl. 121-38.
- Miller, James A., to Borg-Warner Corp. Transmission. 2,923,178, 2-2-60, Cl. 74-761.
- Miller, James A., to Clark Equipment Co. Six speed planetary transmission. 2,929,271, 3-22-60, Cl. 74-759.
- Miller, James A., to Clark Equipment Co. Planetary reversing mechanism. 2,959,987, 11-15-60, Cl. 74-792.
- Miller, James E., and W. A. Bird, to The Bendix Corp. Contact identifying device. 2,953,744, 9-20-60, Cl. 324-66.
- Miller, James L.: *See*—  
Torre, Alton J., and Miller. 2,922,838.
- Miller, James R., to Esso Research and Engineering Co. Heavy duty lubricating oil. 2,954,344, 9-27-60, Cl. 252-33.4.
- Miller, Jerome F.: *See*—  
Lanier, Reginald S., Merrell, and Miller. 2,926,936.
- Miller, John A.: *See*—  
Show, William A., Wilkatis, and Miller. 2,955,535.
- Miller, John C.: *See*—  
Mann, Leonard J., and Miller. 2,928,258.
- Miller, John D. India bearing electroluminescent panel and method of manufacture. 2,922,912, 1-26-60, Cl. 313-108.
- Miller, John D. Printed circuit board. 2,923,860, 2-2-60, Cl. 317-101.
- Miller, John E.: *See*—  
Bowerman, Hulie E., Miller, and Jacoby. 2,926,976.
- Miller, John E., to United States Steel Corp. Packing for cylinder liners. 2,943,895, 7-5-60, Cl. 309-3.
- Miller, John G., and R. H. Rex, to Owens-Illinois Glass Co. Method of forming plastic containers. 2,953,817, 9-27-60, Cl. 18-55.
- Miller, John H.: *See*—  
Alsop, Richard G., Lindvig, and Miller. 2,962,760.
- Miller, John H., to Daystrom, Inc. Multi-range A.C. ammeter. 2,922,110, 1-19-60, Cl. 324-115.
- Miller, John S.: *See*—  
Arkoosh, George T., Miller, and Cullor. 2,936,893.
- Miller, John W., to Minneapolis-Honeywell Regulator Co. Automatic pilot. 2,929,585, 3-22-60, Cl. 244-77.
- Miller, Joseph A., to Minneapolis-Honeywell Regulator Co. Tension controller. 2,944,747, 7-12-60, Cl. 242-45.
- Miller, Joseph E., deceased, by Northern Trust Co., to Press Seal Gasket Corp. Gasket and pipe end construction for bell and spigot pipe. Re. 24,799, 3-15-60, Cl. 285-230.
- Miller, Joseph F., to J. W. Flansberg. Dispensing device for toothpicks and the like. 2,923,437, 2-2-60, Cl. 221-266.
- Miller, Joseph N.: *See*—  
Jackes, Stanley F., and Miller. 2,951,675.
- Miller, Joseph P., R. L. Allen, and H. C. True, to General Motors Corp. Turbomachine stator assembly. 2,955,800, 10-11-60, Cl. 253-78.
- Miller, Kay, to J. I. Case Co. Torque-converter seal. 2,935,860, 5-10-60, Cl. 64-9.
- Miller, Kenneth H.: *See*—  
Gilman, Stanley F., and Miller. 2,959,017.
- Miller, Kenneth C.: *See*—  
Irwin, William W., Andersen, and Miller. 2,957,737.
- Miller, Labron W.: *See*—  
Stamler, William B., and Miller. 2,948,235.
- Miller Laundry Machinery Co.: *See*—  
Miller, Abe. 2,963,311.
- Miller, Abe, and Mack. 2,932,528.
- Miller, Lawrence O.: *See*—  
McLaughlin, Robert L., Miller, and Schick. 2,963,855.
- McLaughlin, Robert L., Miller, and Schick. 2,964,393.
- Miller, Leon, to United States of America, Army. Antenna reflector assembly. 2,953,400, 9-20-60, Cl. 287-1.
- Miller, Leon A.: *See*—  
Douglass, Harry H., Miller, and Berger. 2,922,950.
- Miller, Lester M.: *See*—  
Pearce, George C., and Miller. 2,965,095.
- Miller, Lester M., to General Motors Corp. Heat transfer unit. 2,932,491, 4-12-60, Cl. 257-256.
- Miller, Lettice M.: *See*—  
Miller, George B. 2,948,113.
- Miller, Lloyd E., and H. J. Baldwin. Tool trays. 2,922,684, 1-26-60, Cl. 311-21.
- Miller, Louis D., and E. A. Dymacek, to Radio Corporation of America. Pickup tube assembly. 2,951,962, 9-6-60, Cl. 313-89.
- Miller, Louis E., to General Electric Co. Limiting amplifier. 2,952,816, 9-13-60, Cl. 330-135.
- Miller Lubricator Co.: *See*—  
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- Harkenrider, Robert J. 2,936,198.
- Miller, Marcell J., and C. J. Makeham, to The Liberty Steel Chest Corp. Latch for tool boxes and the like. 2,953,404, 9-20-60, Cl. 292-3.
- Miller, Marsden L.: *See*—  
Oppenheim, Ben J., Sapoff, and Miller. 2,935,712.
- Miller, Mary L., to American Cyanamid Co. Preparation of block copolymers. 2,940,952, 6-14-60, Cl. 260-45.5.
- Miller, Mary L., to American Cyanamid Co. Polymerization of acrylonitrile in aqueous solution containing a perchlorate salt. 2,963,457, 12-6-60, Cl. 260-29.6.
- Miller, Maurice. Motor wiring connector. 2,922,054, 1-19-60, Cl. 310-71.
- Miller, Meral O., and J. L. Matheny; said Millor assor. of 25% to T. R. Snider, and 1% to Western Inventors. Muffler and collector ring assembly for radial engines. 2,936,845, 5-17-60, Cl. 181-40.
- Miller, Meral O., J. L. Matheny, and R. L. Scott. Combination sound-deadening and gas-purifying apparatus. 2,938,593, 5-31-60, Cl. 181-46.
- Miller, Meredith, and D. R. McGregor, to E. I. du Pont de Nemours & Co. Process of casting and stretching film. 2,920,352, 1-12-60, Cl. 18-57.
- Miller, Merle R. Carpet securing strips. 2,941,234, 6-21-60, Cl. 16-16.
- Miller, Murray. Spring operated toilet seat mechanism. 2,954,565, 10-4-60, Cl. 4-251.
- Miller, Myron. Solution finding multifactor combination selector. 2,934,264, 4-26-60, Cl. 235-88.
- Miller, Myron A., to Electro-Chem Mfg. Co., Inc. Anodizing process and system. 2,920,018, 1-5-60, Cl. 204-56.
- Miller, Myron C.: *See*—  
Meador, Gordon R. 2,946,520.
- Miller, Nairn L., and H. J. Hammerly, to General Electric Co. Electric circuit breaker. 2,922,004, 1-19-60, Cl. 200-88.
- Miller, Nicholas, to The Dole Valve Co. Air conditioner control. 2,964,966, 12-20-60, Cl. 74-483.
- Miller, Norman G., to Phillips Petroleum Co. Vacuum treatment of liquids. 2,920,039, 1-5-60, Cl. 208-361.
- Miller, Norman H. Multiple lift. 2,938,595, 5-31-60, Cl. 182-129.
- Miller, Norman T.: *See*—  
Di Maio, Vincent, and Miller. 2,949,953.
- Miller, Omer E., to The Porta Soft Co. Regeneration system for liquid-treating apparatus. 2,935,196, 5-3-60, Cl. 210-104.
- Miller Outdoor Advertising Products Co., Inc.: *See*—  
Miller, William N., Jr. 2,948,976.
- Miller, Paul E.: *See*—  
Bruni, John G., and Miller. 2,949,031.
- Gates, John W., Jr., and Miller. 2,956,880.
- Miller, Peter J., to Toledo Heater Co. Apparatus for producing tube bends. 2,936,019, 5-10-60, Cl. 153-48.
- Miller, Philip, to Walter Kilde Nuclear Laboratories, Inc. Method and apparatus for predicting the residual life of adsorption beds. 2,951,156, 8-30-60, Cl. 250-43.5.
- Miller, Philip, to Associated Nucleonics, Inc. System for ventilating confined spaces. 2,957,402, 10-25-60, Cl. 98-38.
- Miller, Philip A., and J. R. D. McCormick, to American Cyanamid Co. Biological transformation of anhydrotetracyclines to 5a(11a)-dehydrotetracyclines. 2,952,587, 9-13-60, Cl. 195-80.
- Miller-Picking Corp.: *See*—  
Picking, Howard M., Jr., and Miller. 2,964,349.
- Miller and Poston Mfg. Co.: *See*—  
Hinz, Walter W., Stansbury, Parkison, and Boutwell. 2,925,849.
- Miller Pottery Engineering Co.: *See*—  
Miller, Vincent P. 2,938,636.
- Miller, Ralph C. Series-parallel pump. 2,957,426, 10-25-60, Cl. 103-106.
- Miller, Ralph L.: *See*—  
Clark, Malcolm A., Miller, and Sears. 2,922,843.
- Miller, Ralph L., to Bell Telephone Laboratories, Inc. Determination of pitch frequency of complex wave. 2,927,969, 3-8-60, Cl. 179-15.55.



- Miller, Ralph L., to Bell Telephone Laboratories, Inc. Wave transmission system. 2,953,644, 9-20-60, Cl. 179-15.55.
- Miller, Ralph L., and C. J. Ford, to The Goodyear Tire & Rubber Co. Life raft. 2,933,739, 4-26-60, Cl. 9-11.
- Miller, Ray E., 12½% to J. D. Givnan, and 12½% to J. D. Givnan, Jr. Radio alarm for parking meters. 2,937,269, 5-17-60, Cl. 250-17.
- Miller, Raymond G., and C. H. Hocking, to Lovell Mfg. Co. Wringer with clothes rinsing device. 2,949,024, 8-16-60, Cl. 68-22.
- Miller, Reuben V.: *See*—
- Ollig, John L., Miller, Hirsch, and Westerholm. 2,927,324.
- Ollig, John L., Westerholm, Miller, and Hirsch. 2,953,787.
- Miller, Richard: *See*—
- Hirschmann, Ralph F., and Miller. 2,924,612.
- Miller, Richard, and R. F. Hirschmann, to Merck & Co., Inc. 9 $\alpha$ -fluoro-4'-3,20-diketo-11,21-bis-oxygenated-17-hydroxy-alloepregnene 3-semicarbazones and processes of preparing them. 2,964,540, 12-13-60, Cl. 260-397.45.
- Miller, Richard D., to Bowmar Instrument Corp. Gear head. 2,936,644, 5-17-60, Cl. 74-421.
- Miller, Richard D., to Lennox Industries, Inc. Electronic sequencer control circuits. 2,958,755, 11-1-60, Cl. 219-20.
- Miller, Richard K.: *See*—
- Sweet, Amos D., and Miller. 2,928,495.
- Miller, Richard R. Radar interference suppressor which cancels noise signals above adjustable level. 2,936,451, 5-10-60, Cl. 343-17.1.
- Miller, Richard R. Pulse echo system signal simulator for testing and analyzing indicator units. 2,965,897, 12-20-60, Cl. 343-17.7.
- Miller, Robert A.: *See*—
- Brown, William J., Miller, and Taris. 2,946,852.
- Miller, Robert A. Folding table with interlocking legs. 2,929,666, 3-22-60, Cl. 311-83.
- Miller, Robert E., to The Journal Co. Conveyor and work-piece stop mechanism. 2,942,715, 6-28-60, Cl. 198-19.
- Miller, Robert E., to Monsanto Chemical Co. Chlorophenoxy acetates of iodosobenzene and herbicidal compositions and methods employing the same. 2,949,353, 8-16-60, Cl. 71-26.
- Miller, Robert E., and L. Schleicher, to The National Cash Register Co. Heat and pressure responsive record material. 2,929,736, 3-22-60, Cl. 117-36.
- Miller, Robert H., to International Harvester Co. Reversible disk plow with abutment to limit lateral swing. 2,935,142, 5-3-60, Cl. 172-221.
- Miller, Robert H., and G. G. Ward, to International Harvester Co. Two-way plow. 2,927,650, 3-8-60, Cl. 172-211.
- Miller, Robert K., to E. I. du Pont de Nemours and Co. Chemical compound and process. 2,923,645, 2-2-60, Cl. 117-139.4.
- Miller, Robert K., to E. I. du Pont de Nemours and Co. Process for the preparation of diphenylamines. 2,924,620, 2-9-60, Cl. 260-576.
- Miller, Robert L.: *See*—
- Hochstein, Francis A., and Miller. 2,920,998.
- Phillips, Leonard R., and Miller. 2,922,580.
- Miller, Robert L., to Minneapolis-Honeywell Regulator Co. Electrical measuring apparatus. 2,941,146, 6-14-60, Cl. 324-83.
- Miller, Robert S.: *See*—
- Buls, Vernon W., and Miller. 2,923,745.
- Miller, Robert W.: *See*—
- Van Beckum, William G., and Miller. 2,926,115.
- Miller, Roland E.: *See*—
- Podlesak, Harry G., Kraft, and Miller. 2,919,990.
- Podlesak, Harry G., Kraft, and Miller. 2,951,324.
- Podlesak, Harry G., Kraft, and Miller. 2,951,325.
- Miller, Roland E., and R. G. Rudnik, to National Dairy Products Corp. Packaging apparatus. 2,923,114, 2-2-60, Cl. 53-112.
- Miller, Ruby E., to H. R. Lott. Overcasting presser foot for zig-zag sewing machines. 2,950,696, 8-30-60, Cl. 112-235.
- Miller, Rudolph R., Jr., to Dresser Industries, Inc. Retrieval bridging plug. 2,940,524, 6-14-60, Cl. 166-182.
- Miller, Sarah. Pail holder. 2,936,926, 5-17-60, Cl. 220-85.
- Miller, Sol: *See*—
- Fain, Jacob M., McDonnell, and Miller. 2,962,390.
- Miller, Solomon L.: *See*—
- Buschert, Robert C., and Miller. 2,964,689.
- Miller, Stewart E.: *See*—
- Kohman, Girard T., Miller, Rose, and Young. 2,966,643.
- Miller, Stewart E., to Bell Telephone Laboratories, Inc. Nonreciprocal attenuator. 2,924,794, 2-9-60, Cl. 333-81.
- Miller, Stewart E., to Bell Telephone Laboratories, Inc. Frequency-selective wave coupling system. 2,929,032, 3-15-60, Cl. 333-73.
- Miller, Stewart E., to Bell Telephone Laboratories, Inc. Multi-mode automatic tracking antenna system. 2,931,033, 3-29-60, Cl. 343-703.
- Miller, Stewart E., to Bell Telephone Laboratories, Inc. Selective mode filters. 2,940,057, 6-7-60, Cl. 333-73.
- Miller, Stewart E., to Bell Telephone Laboratories, Inc. Nonreciprocal attenuator. 2,946,025, 7-19-60, Cl. 333-24.
- Miller, Stewart E., to Bell Telephone Laboratories, Inc. Broad-band electromagnetic wave coupler. 2,948,864, 8-9-60, Cl. 333-10.
- Miller, Stewart E., to Bell Telephone Laboratories, Inc. Wave guide with polarized ferrite element. 2,951,220, 8-30-60, Cl. 333-24.
- Miller, Theodore, C. P. Conley, and A. Nelkin, to United States of America, Navy. Guided missile control device. 2,961,190, 11-22-60, Cl. 244-14.
- Miller, Theodore A., and T. A. Miller, Jr. Mold with self-trimming portion. 2,923,032, 2-2-60, Cl. 18-39.
- Miller, Theodore A., and T. A. Miller, Jr. Method of rotationally molding hollow articles having internally formed reinforcement from plastisol. 2,959,820, 11-15-60, Cl. 18-58.3.
- Miller, Theodore A., Jr.: *See*—
- Miller, Theodore A., and T. A. Miller, Jr. 2,923,032.
- Miller, Theodore A., and T. A. Miller, Jr. 2,959,820.
- Miller, Thomas G.: *See*—
- Nelson, Jerry A., Miller, and Smeltz. 2,958,613.
- Nelson, Jerry A., Miller, and Smeltz. 2,959,611.
- Miller, Thomas M., C. M. Parsons, and E. L. Bernero, ½ to said Miller, ½ to said Parsons, and ½ to said Bernero. Cradle. 2,936,464, 5-17-60, Cl. 5-109.
- Miller, Thomas V., and C. E. Peters. Bait holding fish hook assembly. 2,926,453, 3-1-60, Cl. 43-44.6.
- Miller, Verle A.: *See*—
- Finnegan, Larry P., and Miller. 2,961,348.
- Miller, Victor A.: *See*—
- Greenlee, William B., and Miller. 2,941,081.
- Greenlee, William B., and Miller. 2,943,204.
- Miller, Victor A., to North American Aviation, Inc. Fixed beam scanner. 2,939,962, 6-7-60, Cl. 250-203.
- Miller, Victor F., to Bell Telephone Laboratories, Inc. Portable welding tool. 2,929,913, 3-22-60, Cl. 219-78.
- Miller, Vincent P., to Miller Pottery Engineering Co. Automatic transfer for use in making pottery ware. 2,938,636, 5-31-60, Cl. 214-1.
- Miller, Walter A.: *See*—
- Cook, Stephen O., and Miller. 2,955,318.
- Miller, Walter J.: *See*—
- Ladd, Conrad M., and Miller. 2,938,848.
- Miller, Walter L., H. S. Preiser, and S. Tudor. Cathodic protection of metal containers for liquids. 2,941,935, 6-21-60, Cl. 204-196.
- Miller, Walter M., to Tidewater Oil Co. Fluid coking. 2,946,741, 7-26-60, Cl. 208-127.
- Miller, Walter S.: *See*—
- Kershaw, Harold, Dowling, and Miller. 2,933,829.
- Kershaw, Harold, Dowling, and Miller. 2,958,142.
- Miller, Walter S., to American Bosch Arma Corp. Method of parameter stabilization of semiconductor devices. 2,922,215, 1-26-60, Cl. 29-25.3.
- Miller, Ward: *See*—
- Dekan, George J. 2,948,851.
- Miller, Wendell S. Electronic gang switches. 2,965,883, 12-20-60, Cl. 340-166.
- Miller, Wilbur: *See*—
- Stiefel, Rudy C., and Miller. 2,932,816.
- Miller, Wilbur A.: *See*—
- Andrews, Frederick W., Miller, and Ludwig. 2,935,985.
- Miller, William, to American Machine & Foundry Co. Electrical arc suppressor. 2,958,808, 11-1-60, Cl. 317-11.
- Miller, William H., to Cook Electric Co. Pressure responsive actuator. 2,955,618, 10-11-60, Cl. 137-777.
- Miller, William H., and R. F. Jones. Pictorial display type air-navigation system. 2,959,779, 11-8-60, Cl. 343-6.
- Miller, William J.: *See*—
- Sieber, Charles B. 2,956,438.
- Miller, William N., Jr., to Miller Outdoor Advertising Products Co., Inc. Billboard construction. 2,948,976, 8-16-60, Cl. 40-125.
- Miller, William N., Jr., to Shop-O-Rama, Inc. Projection display apparatus. 2,966,094, 12-27-60, Cl. 88-16.2.
- Miller, William R.: *See*—
- Schneider, William S. 2,942,760.
- Miller, William T. Liquid polymers of polyunsaturated fluorolefins. 2,951,096, 8-30-60, Cl. 260-648.
- Miller Wrapping & Sealing Machine Co.: *See*—
- Arvidson, Bengt A. 2,948,177.
- Arvidson, Bengt A. 2,954,654.
- Millers Falls Co.: *See*—
- Hollien, Richard R. 2,934,113.
- Millet, Francois. Mechanical device for casting bait and similar purposes. 2,933,845, 4-26-60, Cl. 43-19.
- Milleville, Bertram J., to Edward Valves, Inc. Valve operating mechanism. 2,942,495, 6-28-60, Cl. 74-625.
- Millhiser Bag Co., Inc.: *See*—
- Golden, Bertie C. 2,962,989.
- Millhoff, Ohio Co., to The Nye Rubber Co. Mold opening device. 2,958,897, 11-8-60, Cl. 18-2.
- Millhouse, Murray S.: *See*—
- Wall, James R., and Millhouse. 2,958,516.
- Millich, Thomas L. Sheet folding apparatus and method. 2,962,945, 12-6-60, Cl. 93-49.
- Millidge, Alfred F.: *See*—
- Lawson-Hall, Griffiths, and Millidge. 2,926,191.
- Milligan, Thomas W., to Standard Railway Equipment Mfg. Co. Vehicle body heated floor construction. 2,925,301, 2-16-60, Cl. 296-28.
- Milligan, Winfred O.: *See*—
- Camp, Eliza Q., Milligan, and Shmidl. 2,932,676.
- Millikan, Allen F.: *See*—
- Crosby, Gifford W., Millikan, and Brennan. 2,948,682.



- Millikan, Allen F., and E. T. Fronczak, to The Pure Oil Co. Method of preparing zinc mercaptides and method of preparing a grease containing zinc mercaptides. 2,963,434, 12-6-60, Cl. 252-42.7.
- Milliken, Clair W. Feeder. 2,951,464, 9-6-60, Cl. 119-51.5.
- Milliken, Thomas H., Jr.: *See*—  
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Cornelius, Edward B., Milliken, and Mills. 2,945,823.
- Milliken, Thomas H., Jr., to Houdry Process Corp. Decomposition of ammonium sulfate. 2,926,070, 2-23-60, Cl. 23-167.
- Millikin, Arnold S., to The Jaeger Machine Co. Screed structure. 2,948,202, 8-9-60, Cl. 94-45.
- Millington, Alfred F., and H. B. Dickie, to Novi Equipment Co. Flexible conduit coupling. 2,964,968, 12-20-60, Cl. 74-501.
- Millington, John H., to Westinghouse Electric Corp. Automatic transfer unit. 2,932,376, 4-12-60, Cl. 198-19.
- Million, Orville R.: *See*—  
Wiltshire, Elmore L., and Million. 2,966,150.
- Millipore Filter Corp.: *See*—  
Cotton, Richard A. 2,944,017.  
Kenyon, Walter W. 2,944,134.  
Poitras, Edward J. 2,923,669.
- Milliron, Hilbert,  $\frac{1}{2}$  to P. Felix and  $\frac{1}{2}$  to W. J. Ruano. Pipe lifting tool. 2,923,569, 2-2-60, Cl. 294-106.
- Mills, Edwin G., to Texas Instruments Inc. Transistor transducer. 2,958,786, 11-1-60, Cl. 250-232.
- Mills, Glenn D. Process for cleaning pipe lines. 2,932,593, 4-12-60, Cl. 134-22.
- Mills, Walter T., to General Electric Co. Mount structure for electron discharge devices. 2,937,306, 5-17-60, Cl. 313-261.
- Millman, Clinton: *See*—  
Marshall, Charles T. 2,955,884.
- Millman, Clinton, to S. N. Goldman. Roller bumpers for telescoping carts. 2,935,330, 5-3-60, Cl. 280-33.99.
- Millner, Tivadar: *See*—  
Tury, Pal and Millner. 2,962,400.
- Millner, Tivadar, and J. Neugebauer, to Egyesult Izzolampas Villamosági Reszvenytársaság. Manufacture of metal articles from tungsten metal powder. 2,948,609, 8-9-60, Cl. 75-214.
- Mills, Terence W., to Rotax Ltd. Screw and nut mechanisms. 2,933,941, 4-26-60, Cl. 74-441.
- Milloit, Henry A., to Perfection Mica Co. Electrical connector. 2,958,724, 11-1-60, Cl. 174-88.
- Mills, Aubrey R. Die casting machines. 2,946,102, 7-26-60, Cl. 22-94.
- Mills, Aubrey R., to Die Casting Machine Tools Ltd. Ammunition for toy guns. 2,950,680, 8-30-60, Cl. 102-41.
- Mills, Burton L., to Clark Equipment Co. Disengaging spring means for fluid clutches. 2,935,169, 5-3-60, Cl. 192-35.
- Mills, Charles L., Jr., to Monsanto Chemical Co. Hair spray composition containing lower alkyl half ester of an ethylene-maleic anhydride copolymer, alcohol and propellant and process for making. 2,957,838, 10-25-60, Cl. 260-208.
- Mills, Charles F., Jr.: *See*—  
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- Mills, Charles W. Tape or film clip. 2,928,538, 3-15-60, Cl. 206-53.
- Mills, Daisy T.: *See*—  
Cochrane, John, and Mills. 2,928,108.
- Mills, Donald C., to Federal Pacific Electric Co. Circuit breakers. 2,943,168, 6-28-60, Cl. 200-87.
- Mills, Edward K., Jr. Trouser hanging cabinet. 2,966,387, 12-27-60, Cl. 312-278.
- Mills, Emmett R. Automatic wiper for rotary blade. 2,949,801, 8-23-60, Cl. 83-168.
- Mills, George A.: *See*—  
Cornelius, Edward, Milliken, and Mills. 2,945,823.  
Erner, William E., Mills, and Smith. 2,953,575.
- Mills, Harold J.: *See*—  
Renick, Robert C., and Mills. 2,928,045.
- Mills, Henry L. Alternating current welding transformer. 2,931,967, 4-5-60, Cl. 323-51.
- Mills, Ivor W., to Sun Oil Co. Partial oxidation of alkyl aromatics. 2,920,106, 1-5-60, Cl. 260-524.
- Mills, Ivor W., to Sun Oil Co. Polymerization of gaseous olefins by means of a catalyst consisting essentially of pyrophoric iron and oxygen. 2,925,408, 2-16-60, Cl. 260-88.2.
- Mills, Ivor W., to Sun Oil Co. Fuel compositions. 2,932,560, 4-12-60, Cl. 44-76.
- Mills, Ivor W., to Sun Oil Co. Preparation and use of acid activated clay. 2,949,421, 8-16-60, Cl. 203-299.
- Mills, Ivor W., and W. A. Gallup, to Sun Oil Co. Polymerization of gaseous olefins by means of a catalyst consisting essentially of an oxygen treated bauxite. 2,928,814, 3-15-60, Cl. 260-88.2.
- Mills, J. C. Stalk gathering attachment for combines. 2,942,399, 6-28-60, Cl. 56-169.
- Mills, Jack: *See*—  
Cochran, James E., Jr., Gerzon, and Mills. 2,963,482.
- Mills, Jack, to Eli Lilly and Co. Novel phenethyl-substituted piperazines. 2,927,924, 3-8-60, Cl. 260-268.
- Mills, Jack, to Eli Lilly and Co. N-[ $\beta$ -(3,4-dichlorophenyl)- $\beta$ -hydroxyethyl]-isopropylamine and salts. 2,938,921, 5-31-60, Cl. 260-570.6.
- Mills, Jack, and R. C. Rathbun, to Eli Lilly and Co. Therapeutic processes employing aminobenzodioxane medicaments. 2,922,744, 1-26-60, Cl. 167-65.
- Mills, James, Ltd., Executors of: *See*—  
Rigby, Hugh J. M. 2,954,169.
- Mills, John E.: *See*—  
Chauvin, Bernard, and Mills. 2,956,381.
- Mills, Justin W., Jr., to The Bastian-Blessing Co. Quick coupling. 2,935,338, 5-3-60, Cl. 284-19.
- Mills, Kenneth R.: *See*—  
Wicklitz, John E., and Mills. 2,964,506.
- Mills, King L., Jr.: *See*—  
Johnson, Paul H., and Mills. 2,963,527.
- Mills, Leon B. Action toy. 2,921,406, 1-19-60, Cl. 46-104.
- Mills, Lindley E. Heat pump. 2,963,875, 12-13-60, Cl. 62-112.
- Mills, Lon. Curb edging plows. 2,931,444, 4-5-60, Cl. 172-13.
- Mills, Michael J., and R. L. Parry, to W. L. Parry. Dual purpose articles of clothing. 2,959,789, 11-15-60, Cl. 2-93.
- Mills, Robert L.: *See*—  
Platt, William C. Poston, and Mills. 2,938,028.
- Mills, Walter B., to Sylvania Electric Products, Inc. Strip transmission line switch. 2,946,024, 7-19-60, Cl. 333-7.
- Mills, Walter P.: *See*—  
Atkinson, John R., Booth, Johnson, and Mills. 2,944,870.  
Atkinson, John R., Booth, Johnson, and Mills. 2,944,871.
- Mills, William, to Olin Mathieson Chemical Corp. Ethylene carbonates. 2,924,608, 2-9-60, Cl. 260-340.2.
- Millsbaugh, Louise N.: *See*—  
Nordell, Carl H. 2,963,156.
- Milltronics Ltd.: *See*—  
Daniel, Stewart W. 2,925,549.  
Daniel, Stewart W. 2,929,878.  
Weston, David, and Daniel. 2,922,587.
- Millunzi, Peter T., to P. R. Mallory & Co., Inc. Micro-miniature relay. 2,957,965, 10-25-60, Cl. 200-102.
- Milmore, Oswald H., to Shell Oil Co. Fluctuating data recorder. 2,965,431, 12-20-60, Cl. 346-33.
- Milne, Bruce L., to Carpenter Paper Co. School bank book. 2,927,803, 3-8-60, Cl. 282-25.
- Milne, David T., to American Viscose Corp. Stable cellulose ether compositions and method for producing the same. 2,947,645, 8-2-60, Cl. 106-170.
- Milne, Gordon: *See*—  
Carpenter, Thomas J., and Milne. 2,922,914.
- Milne, Roy H., to General Motors Corp. Weather strip assembly. 2,938,249, 5-31-60, Cl. 20-69.
- Milner, Ernest: *See*—  
Carlisle, Denis R., and Milner. 2,959,003.
- Milochik, Stephen W. Method for detecting underground radioactive deposits. 2,933,923, 4-26-60, Cl. 73-154.
- Milone, Charles R., M. C. Shaffer, and F. S. Leutner, to The Goodyear Tire & Rubber Co. Copolyesters. 2,965,613, 12-20-60, Cl. 260-75.
- Milprint, Inc.: *See*—  
Farrell, Daniel E. 2,929,724.  
Hultkrans, Paul B. 2,940,861.  
Hultkrans, Paul B., Griem, and Davis. 2,955,941.  
Parks, George J. 2,939,956.  
Scion, Robert R., and Bock. 2,932,575.
- Milsco Mfg. Co.: *See*—  
Galbraith, Donald C. 2,961,033.
- Milster, Arthur N., to Wagner Electric Corp. Ratio changer. 2,920,451, 1-12-60, Cl. 60-54.5.
- Milton, Kirby M., and T. F. Murray, Jr., to Eastman Kodak Co. Gelatin coating compositions. 2,960,404, 11-15-60, Cl. 96-94.
- Milton, Leonard, and J. S. Lory, to The Filtron Co., Inc. Control device. 2,955,179, 10-4-60, Cl. 200-142.
- Milton Mfg. Co., Inc.: *See*—  
Mazeika, Albert. 2,924,009.  
Price, Milton. 2,924,100.
- Milton, Robert H.: *See*—  
Milton, Thomas W. and R. H. 2,919,599.  
Milton, Thomas W. and R. H. 2,933,019.
- Milton, Robert M., and D. W. Breck, to Union Carbide Corp. Dehydrohalogenation of halo-substituted hydrocarbon. 2,920,122, 1-5-60, Cl. 260-677.
- Milton, Thomas W. and R. H. Remote control mechanism for automotive accessories. 2,919,599, 1-5-60, Cl. 74-479.
- Milton, Thomas W. and R. H. Rear view mirrors. 2,933,019, 4-19-60, Cl. 88-93.
- Milwaukee Faucets, Inc.: *See*—  
Hartmann, Gilbert L. 2,920,861.
- Milzer, Daniel C., Jr.: *See*—  
Keating, Ethel M., and Milzer. 2,935,928.
- Mims, Bruce L., to The Barden Corp. Thrust-shock-protected low-torque radial ball bearing. 2,919,963, 1-5-60, Cl. 308-219.
- Minami, Masatsugu. Edge-gluer. 2,961,020, 11-22-60, Cl. 144-279.
- Minami, Yoshitada,  $\frac{1}{2}$  to Tokyo Shibaura Denki Kabushiki Kaisha (known as Tokyo Shibaura Electric Co., Ltd.). Method and apparatus for automatically boiling rice. 2,952,764, 9-13-60, Cl. 219-44.
- Minard, Everett S., to Chemetron Corp. Pocket fill can filling machine. 2,922,444, 1-26-60, Cl. 141-142.
- Minch, Frank C.: *See*—  
Barr, Aaron C., Gorman, Minch, O'Connor, and Weaver. 2,953,324.  
Eaton, William J., and Minch. 2,925,969.



- Minch, Frank C., to Houdaille Industries, Inc. Two-stage steering control system for aircraft nosewheel. 2,953,323, 9-20-60, Cl. 244-50.
- Minckler, Leon S., Jr.: *See—*  
Cottle, Delmer L., Minckler, and Lemiszka. 2,962,482.
- Minckler, Leon S., Jr., H. F. Strohmayr, E. L. Stogryn, and P. A. Argabright, to Esso Research and Engineering Co. Propylene polymers oils. 2,935,542, 5-3-60, Cl. 260-683.15.
- Minckler, Leon S., Jr., D. L. Cottle, and L. T. Eby, to Esso Research and Engineering Co. Composition comprising rubbery halogenated copolymer and a comminuted metal and process of vulcanizing same. 2,941,975, 6-21-60, Cl. 260-41.5.
- Minckler, Leon S., Jr., D. L. Cottle, and T. Lemiszka, to Esso Research and Engineering Co. Vulcanizable composition comprising halogenated butyl rubber and stannous chloride and method of vulcanizing same. 2,965,600, 12-20-60, Cl. 260-41.5.
- Minder, Peter M., to McGraw-Edison Co. Protection for shunt capacitor banks. 2,931,950, 4-5-60, Cl. 317-12.
- Minder, Peter M., to McGraw-Edison Co. Capacitor bank. 2,951,981, 9-6-60, Cl. 323-122.
- Minder, Robert J.: *See—*  
Fowler, Frank E., and Minder. 2,941,698.
- Mindes, Barry M., to International Telephone and Telegraph Corp. Radio diversity receiving system. 2,955,199, 10-4-60, Cl. 250-20.
- Mindheim, Daniel J.: *See—*  
Lindemann, Howard C., and Mindheim. 2,919,624.
- Mindick, Morris, and H. I. Patzelt, to Nalco Chemical Co. Production of ion selective permeable membrane and composition therefor. 2,957,206, 10-25-60, Cl. 18-57.
- Mine Safety Appliances Co.: *See—*  
Austin, Harry W. 2,931,042.  
Austin, Harry W. 2,964,753.  
Austin, Harry W. 2,964,754.  
Bub, Robert A. 2,943,700.  
Curran, Thomas R. 2,962,722.  
Green, Daniel A. 2,943,213.  
Hohos, Edward J., and Richard. 2,947,279.  
Holzwarth, Henry A., Wetherell, and Wark. 2,956,474.  
Jacobson, Moses G. 2,940,041.  
Jacobson, Moses G. 2,965,842.  
Jacobson, Moses G., and De Luca. 2,939,827.  
Leffler, Charles L., Jr. 2,956,562.  
Lewis, Howard B. 2,943,454.  
Mausteller, John W. 2,943,034.  
McConaughy, Paul W. 2,941,870.  
Plantz, Charles A., and Stanford. 2,942,952.  
Richard, James A. 2,926,380.  
Schneider, John H. 2,928,496.  
Schoener, Allen G. 2,934,767.  
Schoener, Allen G. 2,941,209.  
Silverman, Leslie. 2,939,545.  
Stanford, Evelyn C., and Plantz. 2,963,351.  
Temple, Robert and E. E. 2,956,283.  
Temple, Stanley A., E. E., and R. 2,930,042.  
Temple, Stanley A., E. E., and R. 2,936,455.  
Voss, Donald J., and Theodore. 2,921,318.  
Voss, Donald J., and Theodore. 2,956,916.  
Windsor, Frederick N., and Green. 2,926,683.  
Yant, William P., Hollobaugh, and Strange. 2,921,497.
- Mine and Smelter Supply Co.: *See—*  
Wales, Jess P. 2,950,869.
- Mineah, Lawrence E., to Coast Pro-Seal & Mfg. Co. Sliding door latch mechanism. 2,928,689, 3-15-60, Cl. 292-113.
- Mineck, Fred. Wheel alignment testing machine. 2,953,857, 9-27-60, Cl. 33-203.12.
- Minella, A., Plumbing Supplies: *See—*  
Minella, Angelo. 2,930,049.
- Minella, Angelo, to A. Minella Plumbing Supplies. Toilet tank, bowl, and adapter connection. 2,930,049, 3-29-60, Cl. 4-63.
- Miner, Carroll R., to General Electric Co. Variable speed transmission. 2,936,630, 5-17-60, Cl. 74-10.5.
- Miner, Joseph C.: *See—*  
Seitz, John A., Jr. 2,953,016.
- Miner, Keith H., to Dresser Industries, Inc. Apparatus for identifying fluids passing through a formation testing tool. 2,920,267, 1-5-60, Cl. 324-2.
- Miner, Keith H., to Dresser Industries, Inc. Sidewall sampler. 2,928,658, 3-15-60, Cl. 255-1.4.
- Miner, Richard Y.: *See—*  
Abt, Clifford F., Miner, and Spitalny. 2,949,824.
- Miner, Richard Y., and Q. J. Evans, to American Bosch Arma Corp. Ordnance calculating apparatus. 2,922,572, 1-26-60, Cl. 235-61.5.
- Miner, Robert G. Refrigeration apparatus with remote re-adjustable load limit control. 2,955,436, 10-11-60, Cl. 62-211.
- Miner, W. H., Inc.: *See—*  
Danielson, Vernon S. 2,946,462.  
Danielson, Vernon S. 2,953,260.  
Danielson, Vernon S. 2,958,429.  
Mulcahy, Harry W., and Holm. 2,940,609.
- Miner, Walter A., to International Telephone and Telegraph Corp. Telegraphic system delay network. 2,954,422, 9-27-60, Cl. 178-2.
- Minera, Salvador A. Shoe with movable counter. 2,920,402, 1-12-60, Cl. 36-58.6.
- Minera, Salvador A. Lubricant dispenser. 2,925,147, 2-16-60, Cl. 184-45.
- Minera, Salvador A. Temperature actuated lubricating device. 2,954,845, 10-4-60, Cl. 184-37.
- Minera, Salvador A. Lubricant dispenser. 2,959,250, 11-8-60, Cl. 184-37.
- Mineral Processing Corp.: *See—*  
Pagnotti, Joseph R., and Barron. 2,949,190.  
Pagnotti, Joseph R., and Barron. 2,954,870.
- Minerals & Chemicals Corp. of America: *See—*  
Albert, Charles G. 2,941,923.  
Albert, Charles G., and Wilcox. 2,948,632.  
Duke, James B. 2,920,832.  
Gary, Wright W. 2,925,393.  
Greene, Ernest W., and Allegrini. 2,941,959.  
Grim, Ralph E. 2,945,768.  
Haden, Walter L., Jr. 2,933,420.  
Haden, Walter L., Jr. 2,941,906.  
Powell, Manly J., and Cecil. 2,944,986.  
Specht, Charles A. 2,938,818.  
Wheeler, Peyton. 2,953,474.
- Minerals & Chemicals Philipp Corp.: *See—*  
Robinson, Alfred J. 2,960,478.  
Sawyer, Edgar W., Jr. 2,962,418.
- Minervini, Tony U. Accordion operating upon an electrical musical instrument. 2,932,232, 4-12-60, Cl. 84-171.
- Minett, Herbert H. B., and K. W. Course, to D. Napier & Son Ltd. Fuel injection pumps for internal combustion engines. 2,961,971, 11-29-60, Cl. 103-154.
- Minetti, Emile. Game. 2,950,114, 8-23-60, Cl. 273-99.
- Ming Chih, Chen, to General Mills, Inc. Manufacture of regenerated cellulose sponge material. 2,927,034, 3-1-60, Cl. 106-122.
- Minger, Forest R., and W. R. Bennett, to The Dow Chemical Co. Removal of impurities from caustic soda solutions. 2,958,585, 11-1-60, Cl. 23-184.
- Minges, John V., to Badger Mfg. Co. Reinforcing ring for expansion joint and method of making same. 2,930,116, 3-29-60, Cl. 29-454.
- Mingo, Cyran D., to Waldorf Paper Products Co. Cutting rule and perforated line. 2,956,465, 10-18-60, Cl. 83-660.
- Miniature Precision Bearings, Inc.: *See—*  
Barnard, Theodore P. 2,932,965.  
Kelly, Winton J. 2,936,199.  
Kelly, Winton J. 2,936,200.  
Sloan, John R. 2,942,350.
- Minich, Arthur, to Heyden Newport Chemical Corp. Dietetic compositions. 2,962,419, 11-29-60, Cl. 167-81.
- Minick, Dean K., to Capitol Products Corp. Window frame structure. 2,953,824, 9-27-60, Cl. 20-11.
- Minicucci, Peter, Jr.: *See—*  
Cotter, Richard A., and Minicucci. 2,960,297.
- Minimax Ltd.: *See—*  
Gough, Edward J. 2,927,044.
- Minisci, Francesco, to Societa Generale per l'Industria Mineraria e Chimica. Process for preparing 10-amino-decanoic acid and its esters, and new products thereof. 2,956,066, 10-11-60, Cl. 260-404.
- Minister of National Defense, Her Majesty the Queen in right of Canada, as represented by the: *See—*  
Tyas, James P. I. 2,933,717.
- Minister of Supply, Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland as represented by the: *See—*  
Ashwood, Peter F., and Crosse. 2,930,186.  
Childs, Anthony F., and Williams. 2,957,017.  
Howell, Alun R. 2,930,544.  
Howell, Alun R. 2,940,689.  
Shaw, Ronald A. 2,939,649.
- Ministry of Agriculture (The Institute for Fibres and Forest Products): *See—*  
Levin, Menachem. 2,923,596.
- Mink, Donald H. Snap switch. 2,951,129, 8-30-60, Cl. 200-67.
- Mink, Leon D.: *See—*  
Kauffman, Floyd L., and Mink. 2,936,240.
- Minke, Charles M., to United States of America, Navy. Integrator for recording ballistics. 2,924,964, 2-16-60, Cl. 73-35.
- Minkema, William H.: *See—*  
Paschall, Eugene F., and Minkema. 2,965,632.
- Minkolein Co., The: *See—*  
Von Baumann, Elizabeth. 2,954,325.
- Minkow, Julius M., to City Paper Box Co., Ltd. Pressure applying machine for use in paper box making. 2,941,452, 6-21-60, Cl. 93-36.3.
- Minneapolis-Honeywell Regulator Co.: *See—*  
Adams, Robert P. 2,935,698.  
Adams, Robert P. 2,964,694.  
Ainsworth, Frank W. 2,953,162.  
Ainsworth, Frank W. 2,953,163.  
Ammon, Roscoe A. 2,927,320.  
Ammon, Roscoe A. 2,940,045.  
Anderson, John E. 2,944,203.  
Arneson, Leif. 2,930,017.  
Aske, Leonard E. 2,929,946.  
Bailey, William R. 2,963,906.  
Baldwin, Harold R. 2,925,241.  
Bancroft, John W. 2,949,011.  
Barthel, Roy W. 2,949,514.  
Bauleke, Maynard P. 2,961,326.  
Baxter, Vernon A., Jr. 2,950,077.  
Beard, Richard B. 2,927,888.  
Beard, Richard B. 2,928,276.  
Beard, Richard B., and Hartz. 2,960,678.  
Beck, Kenneth H. 2,947,875.



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Beck, Kenneth H. 2,947,916.  
 Beck, Roland D. 2,933,132.  
 Bergeson, Raymond L. 2,948,146.  
 Berggren, Lloyd E., Schneider, and Sorensen. 2,943,448.  
 Berry, Henry W. 2,950,429.  
 Bersinger, Everitt V. 2,941,399.  
 Beveridge, Harold N. 2,956,718.  
 Blackett, James C. 2,954,679.  
 Blumer, Donald R. 2,930,015.  
 Bonnell, Charles R. 2,919,857.  
 Bretol, Remus N. 2,953,326.  
 Bretol, Remus N. 2,953,733.  
 Bulleyment, Keith J. 2,938,174.  
 Burgwin, Stephen L. 2,964,950.  
 Burgwin, Stephen L., Gale, and Goodman. 2,928,281.  
 Burton, Robert V. 2,954,050.  
 Busse, Francis A., Flannery, and Stone. 2,964,684.  
 Campe, William T., and Ensign. 2,924,692.  
 Campe, William T., and Heinrich. 2,935,653.  
 Carlson, William L., Jr. 2,923,855.  
 Carlson, William L., Jr. 2,944,127.  
 Carlson, William L., Jr. 2,953,166.  
 Carlson, William L., Jr., and Exner. 2,948,118.  
 Chase, Thomas W. 2,957,654.  
 Ciscel, Benjamin H. 2,946,542.  
 Ciscel, Benjamin H. 2,953,329.  
 Claussen, Delmar W. 2,945,181.  
 Cloud, Harold A., and McGoldrick. 2,935,009.  
 Coffey, Charles D. 2,965,352.  
 Conley, George R., Rebne, and Wagner. 2,964,953.  
 Cunnen, James M. 2,951,132.  
 Currie, Courtland B. 2,925,221.  
 Currie, Courtland B., and Sidaris. 2,929,557.  
 Dean, Gordon W. 2,954,204.  
 Deerfield, Alan J., and Marsh. 2,966,113.  
 Demay, Peter P. 2,939,486.  
 De Sautels, Albert N. 2,925,559.  
 Devaud, Albert J. Re. 24,850.  
 Devaud, Albert J., and Eng. 2,954,265.  
 Dever, John A. 2,931,763.  
 Deziel, Fred T. 2,924,270.  
 Deziel, Fred T. 2,955,650.  
 Di Vette, Randolph E. 2,921,584.  
 Di Vette, Randolph E. 2,954,738.  
 Dodge, Frederick D. 2,944,558.  
 Dungan, Robert H. 2,960,747.  
 Eckhardt, Homer D. 2,955,783.  
 Ehrenberg, Gustave. 2,938,536.  
 Ehret, Robert J. 2,926,307.  
 Ehret, Robert J. 2,964,693.  
 Eller, Harold E. 2,939,472.  
 Elwell, Donald F. 2,960,875.  
 Ensign, Angus C., Jr., and Heinrich. 2,956,446.  
 Fenity, Robert D., and Janssen. 2,955,942.  
 Firm, Walter G. 2,946,115.  
 Franzel, Richard M. 2,945,165.  
 Fulcher, Charles A., Heuser, Roberts, Rynearson, and Waldhauer. 2,954,691.  
 Gelles, Abraham J. 2,946,009.  
 Gille, Willis H. 2,938,435.  
 Giuliano, Paul S. 2,959,365.  
 Grogan, Edward C. 2,923,307.  
 Grogan, Edward C. 2,949,922.  
 Guterma, Sadia S. 2,950,686.  
 Hall, Edward O., and Bates. 2,927,593.  
 Hamelink, William B. 2,924,720.  
 Hammell, Allan K. 2,955,781.  
 Hanson, Henry L. 2,927,999.  
 Hartz, Harry J. 2,950,729.  
 Hawkins, Royal R., and Rudolf. 2,939,285.  
 Higgins, Stephens P., Jr., and Drinker. 2,920,639.  
 Hildenbrandt, August J., Jr. 2,952,502.  
 Horne, James K. 2,919,708.  
 Hose, Robert H. 2,930,834.  
 Hudson, Kenneth C. 2,944,199.  
 Jamieson, John R. 2,931,617.  
 Jensen, James L. 2,959,726.  
 Jensen, James L. 2,965,833.  
 Johanson, Roy K. 2,940,462.  
 Johnson, Elmer T. 2,950,398.  
 Johnston, Donald C., and Wilson. 2,960,294.  
 Johnston, Donald C., and Wilson. 2,965,888.  
 Kautz, Murrell F. 2,953,929.  
 Keeler, Robert J. 2,944,767.  
 Kessel, Benjamin. 2,934,271.  
 Ketchum, James R. 2,937,528.  
 Keyser, Allen H. 2,935,077.  
 Keyser, Allen H. 2,942,927.  
 Keyt, Ferris G. 2,952,425.  
 King, William R. 2,954,541.  
 Klein, Edward J. 2,959,053.  
 Kluge, Robert D. 2,953,675.  
 Kodis, Robert D. 2,957,163.  
 Kolm, Harvard B., Jr. 2,926,696.  
 Kunz, Walden H. 2,959,060.  
 Kutzler, Robert J. 2,929,583.  
 La Hue, Philip M. 2,928,282.  
 Lang, Elliot R. 2,925,544.  
 Loeber, John A. 2,946,989.  
 Long, William J. 2,947,244.  
 Longland, Donald T. 2,934,698.  
 Loveland, Roger S. 2,928,645.  
 Lundquist, Peter P., and Rusler. 2,942,806.

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Markusen, David L. 2,931,901.  
 Maupin, Joseph T. 2,922,897.  
 McGhee, John D. 2,942,185.  
 Miller, John W. 2,929,585.  
 Miller, Joseph A. 2,944,747.  
 Miller, Robert L. 2,941,146.  
 Mobarry, John W. 2,944,195.  
 Mobarry, John W. 2,960,584.  
 Modie, Joseph C. 2,950,054.  
 Moore, Warren, Jr. 2,920,214.  
 Moses, Adrian J. 2,962,648.  
 Mott, Richard C. 2,946,344.  
 Muse, Grant H., Jr. 2,934,996.  
 Myer, Jay L. 2,941,395.  
 Nauheimer, Robert R. 2,939,485.  
 Nessell, Clarence W. 2,949,234.  
 Newbold, William F. 2,944,218.  
 Newbold, William F. 2,949,775.  
 Newbold, William F. 2,959,960.  
 Newbold, William F. 2,966,631.  
 Newbold, William F., Power, and Parnell. 2,932,782.  
 Newbold, William F., and Werme. 2,937,369.  
 Nickells, Stanley W. 2,922,614.  
 Nickells, Stanley W. 2,936,997.  
 Nomura, Kaworu C. 2,921,362.  
 Olson, Elwyn H. 2,966,073.  
 Parnell, John. 2,920,282.  
 Patchell, Thomas A. 2,935,660.  
 Patchell, Thomas A. 2,946,012.  
 Patchell, Thomas A. 2,947,915.  
 Perkins, Corles M. 2,960,284.  
 Pesek, Clarence T., and Riesgraf. 2,964,951.  
 Petrie, Edgar H. 2,960,638.  
 Petry, Eduard C. 2,934,888.  
 Pinckaers, Balthasar H. 2,920,252.  
 Pinckaers, Balthasar H. 2,926,296.  
 Pinckaers, Balthasar H. 2,945,133.  
 Pinckaers, Balthasar H. 2,947,950.  
 Pinckaers, Balthasar H. 2,956,168.  
 Pollack, Hyman. 2,956,184.  
 Popowsky, William J. 2,938,173.  
 Popowsky, William J. 2,966,630.  
 Prescott, Robert S. 2,952,772.  
 Raasch, Floyd D. 2,950,469.  
 Robinson, William J. 2,934,900.  
 Robinson, William J. 2,965,886.  
 Rock, Kingsley C. 2,935,650.  
 Rohmann, Charles P. 2,947,169.  
 Roka, Edward G., and Severson. 2,929,972.  
 Rosholt, Gordon T. 2,939,673.  
 Rote, William A., Mathews, and Burgarella. 2,932,799.  
 Rudolf, John J., Jr., and Fillmore. 2,962,645.  
 Rudolf, John J., Jr., and Sanderson. 2,941,140.  
 Russell, Marvin E. 2,937,509.  
 Schaberg, Johannes G. 2,925,569.  
 Schuck, Oscar H. 2,948,149.  
 Schurr, Karl. 2,952,424.  
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 Mino, Guido, and S. Kaizerman. Process for polymerizing a vinylidene monomer in an inert organic solvent and with certain reactive reducing agents. 2,922,775, 1-26-60, Cl. 260-45.5.  
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- Mishcon, Lester, and A. A. Agulnek, to Supreme Knitting Machine Co., Inc. Dual cam track knitting apparatus. 2,941,383, 6-21-60, Cl. 66-38.
- Mishelevich, Benjamin, and S. H. Tsiang, to Westinghouse Air Brake Co. Railway car counting system. 2,964,617, 12-13-60, Cl. 246-122.
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- Mita, Shigeru, and S. Hayashi, to Tokyo Shibaura Electric Co., Ltd. Transceiver switching system using a traveling wave tube and magnetic gyrator. 2,934,638, 4-26-60, Cl. 250-13.
- Mitacek, Bill, to Phillips Petroleum Co. Prevention of filter plugging utilizing an improved jet engine fuel. 2,952,121, 9-13-60, Cl. 60-35.4.
- Mitchel, Edward W., to The Torcontrol Co. Multistage predetermined torque release wrench. 2,952,176, 9-13-60, Cl. 81-52.4.
- Mitchell, Abraham J., to The Mitchell-Bradford Chemical Co. Method and composition for blackening metal articles. 2,960,420, 11-15-60, Cl. 148-6.24.
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- Mitchell, Darrell L., to Ex-Cell-O Corp. Device for setting and locking magnetic transducer heads associated with a magnetic data storage device. 2,965,886, 12-20-60, Cl. 340-174.1.
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- Mitchell, David W., to American Mollerizing Corp. Method and means of coating objects with aluminum. 2,953,473, 9-20-60, Cl. 117-51.
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- Mitchell, Drury K., Jr., to United States of America, Navy. Closure device. 2,959,319, 11-8-60, Cl. 220-24.5.
- Mitchell, Edward, to Texaco Inc. Internal combustion engine. 2,958,314, 11-1-60, Cl. 123-32.
- Mitchell, Edward C. Outboard motor lock. 2,955,453, 10-11-60, Cl. 70-58.
- Mitchell, Garland W., and B. B. Sapp, to The M & S Safety Co., Inc. Restraining device. 2,949,761, 8-23-60, Cl. 70-16.
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- Mitchell, Harold H., to I-T-E Circuit Breaker Co. Circuit breaker tank. 2,959,655, 11-8-60, Cl. 200-150.
- Mitchell, Harry A., J. C. Knop, and J. Piber, to The Fulton Co. Retractable wheel assemblage. 2,965,392, 12-20-60, Cl. 280-150.5.
- Mitchell, Harvey H., to National Lock Co. Polygonal bolt head forming punch. 2,939,160, 6-7-60, Cl. 10-26.
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- Mitchell, John H., to Mar Hook Equipment, Inc. Universal hook. 2,964,347, 12-13-60, Cl. 294-83.
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- Mitchell, Michael E., to Bell Telephone Laboratories, Inc. Phase shift voltage comparator. 2,957,981, 10-25-60, Cl. 250-27.
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- Mitchell, Ollie B., to The Emerson Electric Mfg. Co. Demodulation system. 2,958,079, 10-25-60, Cl. 343-7.3.
- Mitchell, Orrin J., to Union Steel Chest Corp. Utility cabinet. 2,926,978, 3-1-60, Cl. 312-108.
- Mitchell, Orville, to John E. Mitchell Co. Regulator for flow-responsive refrigeration valve. 2,966,044, 12-27-60, Cl. 62-217.
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- Mitchell, Reid L., to Rayonier Inc. Viscose process and products produced thereby. 2,952,508, 9-13-60, Cl. 18-54.
- Mitchell, Reid L., J. W. Berry, and W. H. Wadman, to Rayonier Inc. Viscose process. 2,937,922, 5-24-60, Cl. 18-54.
- Mitchell, Reid L., J. W. Berry, and W. H. Wadman, to Rayonier Inc. Viscose process. 2,942,931, 6-28-60, Cl. 18-54.
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- Mitchell, Robert E., and S. K. Webster. Electronic sound transmitting device. 2,950,357, 8-23-60, Cl. 179-107.
- Mitchell, Robert M.: *See*—  
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- Mitchell, Robert M., W. F. Junker, and A. H. Torongo, Jr., to National Brewing Co. Bottle case. 2,935,221, 5-3-60, Cl. 220-4.
- Mitchell, Ruth D. Drag rake for cutting and raking underwater growth. 2,961,817, 11-29-60, Cl. 56-8.
- Mitchell, Sherrill L., and G. W. Crosnoe. Curtain track. 2,920,696, 1-12-60, Cl. 160-347.
- Mitchell, Sidney, and D. V. Edwards, to R.F.D. Co. Ltd. Valve containing a self-inflating article. 2,959,278, 11-8-60, Cl. 206-46.



- Mitchell, Wallace F., to E-Z Packaging Corp. Packaging machines and method of packaging. 2,931,149, 4-5-60, Cl. 53-29.
- Mitchell, Walter, to Johnston, Allen & Co. Ltd. Power-driven sewing machines and stop motion devices therefor. 2,940,407, Cl. 112-219.
- Mitchell, Walter A., Jr.: *See*—  
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- Mitchell, Walter G., to Thor Power Tool Co. Pressure regulator valve mechanism for air tools. 2,923,306, 2-2-60, Cl. 137-37.
- Mitchell, Walter G., to Thor Power Tool Co. Power balancer. 2,958,509, 11-1-60, Cl. 254-168.
- Mitchell, William, to Mitchell Accessories, Inc. Expansile rug. 2,920,411, 1-12-60, Cl. 41-10.
- Mitchell, William, to Mitchell Accessories, Inc. Washable rug. 2,920,412, 1-12-60, Cl. 41-10.
- Mitchell, William. Shadow line deep pile material. 2,942,326, 6-28-60, Cl. 23-78.
- Mitchell, William H., to Westinghouse Electric Corp. Lubricating oil return system for sleeve bearings. 2,945,729, 7-19-60, Cl. 308-132.
- Mitchell, William H., and J. P. Fluid-pressure feed mechanism. 2,964,013, 12-13-60, Cl. 121-38.
- Mitchell, William J.: *See*—  
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Hight, David A., and Mitchiner. 2,953,216.
- Mitchko, Michael. Coin bag closing and sealing means. 2,952,956, 9-20-60, Cl. 53-135.
- Mitick, Stanley R., Jr., to General Electric Co. Thermostatic switch. 2,953,664, 9-20-60, Cl. 200-122.
- Mitra, Arun K., and C. G. Pitkin, to Lewis-Howe Co. Production of aluminum acetylsalicylate. 2,959,606, 11-8-60, Cl. 260-448.
- Mitrovich, Milenko, to Chance Vought Aircraft, Inc. Retractable landing gear for aircraft. 2,963,246, 12-6-60, Cl. 244-102.
- Mitrovich, Milenko, and N. V. S. Mumford, to Chance Vought Aircraft, Inc. Shock wave inducing and controlling mechanism. 2,950,594, 8-30-60, Cl. 60-35.6.
- Mitsubishi Kasei Kogyo Kabushiki Kaisha: *See*—  
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- Mittag, Fritz, and H. Ringhandt, to International Standard Electric Corp. Data sensing arrangement. 2,943,814, 7-5-60, Cl. 243-16.
- Mittag, Fritz H., to International Standard Electric Corp. Arrangements for selectively actuating control devices by means of a movable magnet. 2,927,253, 3-1-60, Cl. 317-137.
- Mittag, Hermann, to Robert Bosch, G.m.b.H. Generator regulating apparatus with diode. 2,927,261, 3-1-60, Cl. 322-25.
- Mittag, Hermann, and K. Paule, to Robert Bosch, G.m.b.H. Regulating apparatus for generators. 2,958,033, 10-25-60, Cl. 322-25.
- Mittag, Walter P., to M. J. Voith G.m.b.H., Maschinenfabrik. Web control device. 2,938,720, 5-31-60, Cl. 271-2.6.
- Mitteldorf, Arthur J., and D. O. Landon, to Spex Industries, Inc. Spectroscopic arc chamber. 2,929,953, 3-22-60, Cl. 313-231.
- Mittelstaedt, Georg S. Jet reaction and return flow propulsion means. 2,931,170, 4-5-60, Cl. 60-35.6.
- Mittelstrass, Rudolf: *See*—  
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- Mitter, Laurence J., to General Motors Corp. Domestic appliance. 2,931,687, 4-5-60, Cl. 312-323.
- Mittleman, Albert, to Buchanan Electrical Products Corp. Container. 2,939,621, 6-7-60, Cl. 229-17.
- Mittlieder, Jacob. Chair. 2,952,302, 9-13-60, Cl. 155-105.
- Mittman, David: *See*—  
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- Mitzenmacher, Joseph. Confection. 2,929,721, 3-22-60, Cl. 99-137.
- Mitzl, John: *See*—  
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- Mitzl, Joseph, 1/2 to J. Mitzl. Coll spring assembly for supporting a motor. 2,934,297, 4-26-60, Cl. 248-26.
- Miwa, Thomas K., C. R. Smith, Jr., and T. L. Wilson, to United States of America, Agriculture. Preparation of decanolic acid from cuphea ilavea seed. 2,964,546, 12-13-60, Cl. 260-415.
- Mixer, Robert Y.: *See*—  
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- Mixing Equipment Co., Inc.: *See*—  
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- Mixson, Larou. Apparatus for recording egg production. 2,934,393, 4-26-60, Cl. 346-25.
- Miya, Kenichi, T. Sasaki, and S. Matsushita, to Kokusai Denshin Denwa Kabushiki Kaisha. Electric direction finder. 2,955,285, 10-4-60, Cl. 343-121.
- Miyachi, Kiyochi. Sandal. 2,947,095, 8-2-60, Cl. 36-11.5.
- Miyahara, Akimtu: *See*—  
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- Miyake, Akira: *See*—  
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- Miyashiro, James J.: *See*—  
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- Miyazawa, Isamu: *See*—  
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- Mize, William E., to Institutional Industries, Inc. Frame structure for folding wheel chair. 2,930,429, 3-29-60, Cl. 155-30.
- Mizell, Louis R.: *See*—  
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- Mizelle, Ned W.: *See*—  
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- Mizler, Maurice, to Laboratoires Delagrangre Societe d'Applications Pharmacodynamiques. Derivative of theophylline-7-acetic acid. 2,942,000, 6-21-60, Cl. 260-253.
- Mizuhara, Yosuke M., and M. E. Wolfe, to Eitel-McCullough, Inc. Detachable cooler for electron tubes. 2,958,797, 11-1-60, Cl. 313-21.
- Mizzoni, Renat H., to Ciba Pharmaceutical Products, Inc. 1-(4-isopentyloxy-phenyl)-3-[4-(2-pyridyl)-phenyl]-2-thiourea and therapeutically useful acid addition salts. 2,923,712, 2-2-60, Cl. 260-294.8.
- Mizzoni, Renat H., to Ciba Pharmaceutical Products, Inc. Bis quaternary ammonium compounds of beta amino ethyl  $\beta'$  amino- $\alpha$ -methylpropionates. 2,934,538, 4-26-60, Cl. 260-294.3.
- Mizzoni, Renat H., to Ciba Pharmaceutical Products, Inc. Certain 1,3-diphenyl-2-thioureas. 2,949,454, 8-16-60, Cl. 260-240.
- Mizzoni, Renat H., to Ciba Pharmaceutical Products, Inc. Certain 2-phenyl-imino-3-phenyl-thiazolines. 2,949,456, 8-16-60, Cl. 260-240.
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- Mizzoni, Renat H., to Ciba Pharmaceutical Products Inc. Certain bis-(alkylaminomethyl)-pyridines. 2,963,486, 12-6-60, Cl. 260-296.
- Mravsky, Abraham I.: *See*—  
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- Moats, Gail B.: *See*—  
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- Mobarry, John W., to Minneapolis-Honeywell Regulator Co. Electromagnetic actuator. 2,944,195, 7-5-60, Cl. 317-184.
- Mobarry, John W., to Minneapolis-Honeywell Regulator Co. Thermal overload device. 2,960,584, 11-15-60, Cl. 200-88.
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- Bunge, Wilhelm, Windemuth, and Mielke. 2,952,665.
- Ebneht, Harold, and Falk. 2,948,928.
- Hoppe, Peter. 2,947,307.
- Hoppe, Peter, and Paffrath. 2,927,876.
- Kindel, Georg S., and Reuter. 2,954,254.
- Klaue, Erich, and Bayer. 2,946,768.
- Marshall, William W., III. 2,957,203.
- Möller, Friedrich, Müller, Hoppe, and Braun. 2,941,967.
- Müller, Erwin, and Braun. 2,961,428.
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- Pfirsche, Johannes. 2,953,590.
- Reuter, Franz G. 2,949,895.
- Reuter, Franz G., and Kindel. 2,954,251.
- Reuter, Franz G., Kindel, and Ulderup. 2,952,486.
- Reuter, Franz G., and Ulderup. 2,951,053.
- Schellenberg, Wolf-Dietrich, and Bartl. 2,948,706.
- Tischbein, Wilhelm. 2,929,737.
- Ulderup, Jurgen, and Reuter. 2,958,526.
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- Windemuth, Erwin, Bunge, and Bayer. 2,954,365.
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- Möbelfabrik Ernst Kaufmann K.G.: *See*—  
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- Moberg, Sigurd M., to E. J. Brooks Co. Multibar seal. 2,926,944, 3-1-60, Cl. 292-315.
- Moberly, Floyd C., and T. M. Smith, Jr. Jack and anchor therefor. 2,954,603, 10-4-60, Cl. 29-236.
- Mobile Aerial Towers, Inc.: *See*—  
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- Mobley, George A.: *See*—  
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- Mock, Frank C., to The Bendix Corp. Valve. 2,952,275, 9-13-60, Cl. 137—625.42.
- Mock, Frank C., to The Bendix Corp. Fuel supply pump for prime movers. 2,957,421, 10-25-60, Cl. 103—38.
- Mock, Frank C., to The Bendix Corp. Fuel feed and exhaust nozzle control for gas turbine engines. 2,958,186, 11-1-60, Cl. 60—35.6.
- Mock, Frank C., to The Bendix Corp. Density compensating device for fuel systems. 2,960,271, 11-15-60, Cl. 236—92.
- Mock, Henry W., to Union Carbide Corp. Block-resisting polyethylene film compositions. 2,956,035, 10-11-60, Cl. 260—23.
- Mock, Henry W., and W. A. Haine, to Union Carbide Corp. Non-blocking polyethylene compositions. 2,938,879, 5-31-60, Cl. 260—32.6.
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- Goldenhar, Leonard E., Mockrin, and Doorley. 2,965,231.
- Mod, Robert R.: *See—*
- Skaun, Ewald L., Mod, and Magne. 2,951,859.
- Mod, William A., C. W. Becker, and E. L. Carlson, to The Dow Chemical Co. Process for producing large sodium bicarbonate crystals. 2,926,995, 3-1-60, Cl. 23—64.
- Modcraft Co., Inc.: *See—*
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- Fidel, Nellie. 2,925,854.
- Model, Ernst, and J. Bindler, to J. R. Geigy, A.G. 5,6-dichlorobenzoxazolinone-2 and 5,6-dichlorobenzothiazolinone-2. 2,922,794, 1-26-60, Cl. 260—304.
- Model Plastic Corp.: *See—*
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- Modern Aids, Inc.: *See—*
- Phillips, Sam J., and Oestreicher. 2,943,621.
- Modern American Products, Inc.: *See—*
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- Modern Engraving and Machine Co.: *See—*
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- Modern Hydraulics, Inc.: *See—*
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- Mason, George. 2,944,821.
- Modern Products, Inc.: *See—*
- Beard, Leslie R. 2,926,395.
- Modes, Edward E.: *See—*
- Aligno, Joseph M., and Modes. 2,950,055.
- Modes, Walter. Separated outboard motor for boats. 2,955,562, 10-11-60, Cl. 115—35.
- Modica, Dominic C. Fish hook setter. 2,932,109, 4-12-60, Cl. 43—15.
- Modie, Joseph C., to Minneapolis-Honeywell Regulator Co. Electrical computing apparatus. 2,950,054, 8-23-60, Cl. 235—196.
- Modigliani, Piero, to Johns-Manville Corp. Method of forming a multi-layer mat of intercrossed filaments. 2,964,439, 12-13-60, Cl. 154—90.
- Modine, Arthur B., to Modine Mfg. Co. Heat exchange structure. 2,965,357, 12-20-60, Cl. 257—130.
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- Burton, James C. 2,959,401.
- Huggins, Homer D. 2,933,291.
- Modine, Arthur B. 2,965,357.
- Simpelaar, Clyde S. 2,959,400.
- Spieth, Benjamin, and Nesbitt. 2,963,083.
- Modrey, Henry J. Plug for an electrical connector. 2,923,909, 2-2-60, Cl. 339—61.
- Modrey, Henry J. Carrier, especially for radioactive loads. 2,948,383, 8-9-60, Cl. 198—179.
- Modrey, Henry J. Support structure for supporting articles on perforated sheet material. 2,952,343, 9-13-60, Cl. 189—36.
- Modrey, Henry J. Support structure for supporting articles on perforated sheet material. 2,965,874, 12-20-60, Cl. 339—176.
- Modrin, Louis, to L'Auxiliaire de l'Industrie et des Mines Auxim. Control valves having fluid-tight distributor members, particularly for vehicle braking circuits. 2,944,566, 7-12-60, Cl. 137—620.
- Moe, George, R. D. Schultz, J. L. Shepherd, and T. M. Cromwell, to Aerojet-General Corp. Method of preparing tetra-*lower alkyl* diborane compounds. 2,944,951, 7-12-60, Cl. 204—165.
- Moe, Hal K.: *See—*
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- Moe, Inzall L. Leveling device for concrete screeds. 2,932,487, 4-12-60, Cl. 254—104.
- Moe, James. Casting weights for fishing lines. 2,934,850, 5-3-60, Cl. 43—43.11.
- Moe, William West, and J. G. Jordan, to Time, Inc. Four color reproducing method and apparatus. 2,947,805, 8-2-60, Cl. 178—5.2.
- Moebius, Frederick C., to Teletype Corp. Telegraph transmitter. 2,960,572, 11-15-60, Cl. 178—81.
- Moeker, Norman A., to Whirlpool Corp. Vacuum cleaner. 2,941,822, 6-21-60, Cl. 285—7.
- Moede, Jerome A., to E. I. du Pont de Nemours and Co. Purification of silver nitrate solutions. 2,940,828, 6-14-60, Cl. 23—102.
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- Moehring, William D., and C. F. Murphy, to Michigan Magnetics, Inc. Colinear double channel magnetic recorder and reproducer head. 2,931,864, 4-5-60, Cl. 179—100.2.
- Moehring, William D. Magnetic head assembly. 2,950,355, 8-23-60, Cl. 179—100.2.
- Moell, Hans, and O. Schlichting, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. 1,4- and 1,5-cyclo-octanolone and process of preparing by oxidation of cyclo-octane. 2,927,135, 3-1-60, Cl. 260—586.
- Moeller, August, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Flotation process. 2,950,818, 8-30-60, Cl. 209—166.
- Moeller, Calvin E. Child's seat for automobiles. 2,954,070, 9-27-60, Cl. 155—11.
- Moeller, Frank C., to Adolph Gottscho, Inc. Can marking machine. 2,935,933, 5-10-60, Cl. 101—44.
- Moeller, John D., and T. R. Scarff, to General Motors Corp. Gas driven hydraulic actuator. 2,942,553, 6-28-60, Cl. 103—49.
- Moeller & Neumann G.m.b.H.: *See—*
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- Neumann, Karl. 2,946,248.
- Neumann, Karl, and Blinn. 2,934,968.
- Moeller, Robert E., and J. M. Stogner, to Halliburton Oil Well Cementing Co. Feeding and counting system for injecting balls into a flow stream. 2,961,046, 11-22-60, Cl. 166—75.
- Moeller, William C., and L. A. Smith, deceased (by L. R. Smith, L. A. Smith Jr., F. D. Smith, and M. L. Smith, heirs), to Parmelee Pharmaceutical Co. Continuous process for internally reinforcing salt tablets. 2,955,982, 10-11-60, Cl. 167—82.
- Moelter, Gregory M., to Celanese Corp. of America. Treatment of filamentary materials. 2,947,595, 8-2-60, Cl. 8—151.2.
- Moeltzner, Ernst F. W., to Landis Machine Co. Method of rolling workpieces. 2,937,547, 5-24-60, Cl. 80—61.
- Moeltzner, Ernst F. W., and K. Liedtke, to Landis Machine Co. Apparatus for feeding and rolling workpieces. 2,944,450, 7-12-60, Cl. 80—66.
- Moeltzner, Ernst F. W., and J. Hübl, to Landis Machine Co. Thread rolling apparatus and control means therefor. 2,953,953, 9-27-60, Cl. 80—6.
- Moen, Alfred M. Anti-syphoning fitting. 2,940,464, 6-14-60, Cl. 137—218.
- Moen, Alfred M. Pressure balanced valve structure. 2,943,792, 7-5-60, Cl. 236—12.
- Moen, Alfred M. Valve structure. 2,949,933, 8-23-60, Cl. 137—625.17.
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- Moes, Geert: *See—*
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- Moesch, John. Paper clip. 2,926,405, 3-1-60, Cl. 24—66.
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- Rinaldo, Carl W., and Smith. 2,919,691.
- Moffatt, Clinton D. Golf practice device. 2,929,632, 3-22-60, Cl. 273—185.
- Moffatt, Dillon W. Lamp. 2,945,946, 7-19-60, Cl. 240—47.
- Moffatt, Robert A., to Sperry Rand Corp. Electro-hydraulic servo control valve. 2,936,783, 5-17-60, Cl. 137—623.
- Moffett, Le Roy, and E. D. Goodale, to United States of America, Army. Antenna. 2,932,026, 4-5-60, Cl. 343—708.
- Moffett, Robert B.: *See—*
- Heinzelman, Richard V., and Moffett, and Aspergren. 2,933,495.
- Heinzelman, Richard V., Moffett, and Aspergren. 2,933,496.
- Moffett, Robert B., H. G. Kolloff, and W. B. Bass, to The Upjohn Co. 2-furfurylpropionyl urea and 2-furfurylbutyryl urea. 2,961,449, 11-22-60, Cl. 260—347.3.
- Moffitt, Morris R. Leg exercising device. 2,952,459, 9-13-60, Cl. 272—57.
- Mog, Henry V., and E. C. Pinsenschaum, to American Brake Shoe Co. Powder consolidating press. 2,927,499, 3-8-60, Cl. 86—20.
- Mogard, Bror R. Underlay for puzzles etc. used for educational purposes. 2,954,616, 10-4-60, Cl. 35—48.
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- Mogulescu, Jack H., and I. L. Koons, to Consolidated Cigar Corp. Knock-down display support. 2,934,215, 4-26-60, Cl. 211-126.
- Mohan, William L.: See—
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- Rice, Walter A. 2,944,413.
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- Mohaupt, Henry H. Propellant chamber means. 2,923,204, 2-2-60, Cl. 89-1.
- Mohaupt, Henry H., to Welex, Inc. Shaped charge assembly and gun. 2,947,250, 8-2-60, Cl. 102-20.
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- Mohle, Theodore W.: See—
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- Van der Grinten, Willem J., and Mohler. 2,928,890.
- Mohler, Harvey H. Article of adjustable furniture. 2,954,819, 10-4-60, Cl. 155-106.
- Mohler, Hermann, and R. Menzi, to Cyklus Ltd. Water protein soluble concentrate and method of producing the same. 2,953,456, 9-20-60, Cl. 99-14.
- Mohler, Robert D., to Motorola, Inc. Voltage regulated power supply. 2,932,783, 4-12-60, Cl. 323-22.
- Mohler, Robert D., and E. Bauman. Telephone apparatus. 2,938,082, 5-24-60, Cl. 179-84.
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- Clausi, Adolph S., and Mohlie. 2,954,296.
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- Heraeus, Wilhelm H., and Mohn. 2,954,496.
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- Mohr, Reinhard: See—
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- Wibelhaus, Ralph F., and Mohr. 2,946,424.
- Mohrenstein, Alexander. Device for balancing grinding wheels during their rotation. 2,930,169, 3-29-60, Cl. 51-169.
- Mohring, Gustav, to Famatex G.m.b.H. Metal pin rack for fabric stretching machines. 2,935,779, 5-10-60, Cl. 26-62.
- Mohring, Gustav, to Famatex G.m.b.H. Machine for the tightening and drying of current strips of textile material. 2,951,275, 9-6-60, Cl. 26-60.
- Mohring, Gustav, to Famatex G.m.b.H. Device for the manufacture of undulated sheets of textile material. 2,961,735, 11-29-60, Cl. 26-57.
- Mohrlock, Hugo F., Jr., to General Dynamics Corp. Actuator device. 2,924,403, 2-9-60, Cl. 244-121.
- Moir, Vincent J., to The International Vibration Co. Road working machine. 2,951,427, 9-6-60, Cl. 94-48.
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- Mojoanner, Albert B., to The Kartridg Pak Co. Rotary filling machine. 2,949,941, 8-23-60, Cl. 141-141.
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- Mokvist, Nils V.: See—
- Johansson, Fritz A., Mokvist, Elvander, and Aminoff. 2,941,648.
- Molat, Joseph H. High and low liquid level gauge. 2,921,470, 1-19-60, Cl. 73-311.
- Molded Rubber Products Corp.: See—
- Ahlefeld, Edwin H., Jr., and Spengler. 2,958,095.
- Moles, Oliver W.: See—
- Gendvil, Leonard W., Moles, and Palmer. 2,936,269.
- Molex Products Co.: See—
- Krehbiel, John H. 2,938,190.
- Molho, Darius, to Lipha. 2-(alpha-naphthyl)-1,3-diketohydrindene. 2,938,925, 5-31-60, Cl. 260-590.
- Molins, Desmond W., to Molins Machine Co. Ltd. Manufacture of mouthpiece cigarettes. 2,955,600, 10-11-60, Cl. 131-94.
- Molins, Desmond W., to Molins Machine Co. Ltd. Manufacture of composite mouthpieces for cigarettes. 2,957,285, 10-23-60, Cl. 53-28.
- Molins, Desmond W., to Molins Machine Co. Ltd. Apparatus for collecting or arranging cigarettes. 2,965,215, 12-20-60, Cl. 198-33.
- Molins, Desmond W., G. F. Pembroke, and H. Williams, to Molins Machine Co. Ltd. Cigarette-making machinery. 2,919,531, 1-5-60, Cl. 53-236.
- Molins, Desmond W., and G. F. W. Powell, to Molins Machine Co. Ltd. Machines for manipulating cut tobacco. 2,925,818, 2-23-60, Cl. 131-21.
- Molins, Desmond W., G. F. W. Powell, and F. Pocock, to Molins Machine Co. Ltd. Measuring devices using radioactive materials. 2,931,906, 4-5-60, Cl. 250-83.3.
- Molins, Desmond W., and T. Rowlands, to Molins Machine Co. Ltd. Manufacture of composite mouthpiece cigarettes. 2,935,069, 5-3-60, Cl. 131-94.
- Molins, Desmond W., and F. F. Ruau, deceased (by C. M. Ruau, executrix), to Molins Machine Co. Ltd. Apparatus for feeding and laminating strip material in desired spaced relationship. 2,958,365, 11-1-60, Cl. 154-36.
- Molins, Desmond W., T. Rowlands, and S. Byrne, to Molins Machine Co. Ltd. Manufacture of mouthpiece cigarettes. 2,963,026, 12-6-60, Cl. 131-94.
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- Chalmers, John W., and Jackson. 2,922,342.
- Hillman, James G. E. 2,919,529.
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- Mason, James A. 2,957,508.
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- Pembroke, George F. 2,925,697.
- Pocock, Frederick, and Best. 2,952,262.
- Powell, Gordon F. 2,945,497.
- Powell, Gordon F. W. 2,920,207.
- Powell, Gordon F. W. 2,938,520.
- Powell, Gordon F. W. 2,959,679.
- Rowlands, Tom. 2,942,606.
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- Mollitor, Charles H., and R. W. Wolfe, to Union Carbide Corp. Adjustable overhead lift truck guard. 2,962,179, 11-29-60, Cl. 214-670.
- Moll, Robert, to Societe Anonyme Mipsa. Adjustable stop means for the control shaft of a machine tool. 2,923,105, 2-2-60, Cl. 51-165.
- Moll, Theodore. Velocipede frame construction. 2,937,035, 5-17-60, Cl. 280-282.
- Molla, Charles P. Fiberglass seat knockdown metal framed chair. 2,938,575, 5-31-60, Cl. 155-191.
- Molla, Pietro, to S.A.F.F.A.-S.p.A. Fabbriche Fiammiferi ed Affini. Method and joint for forming tubes from corrugated material. 2,934,466, 4-26-60, Cl. 154-83.
- Molla, Pietro, to S.A.F.F.A. Societa per Azioni Fabbriche Fiammiferi ed Affini. Continuous automatic machine for providing a permanent curvature on the extreme edges of covers for book matches with snap closure. 2,958,901, 11-8-60, Cl. 18-19.
- Molla, Pietro, to S.A.F.F.A. S.p.A. Fabbriche Fiammiferi ed Affini. Automatic continuous machine for manufacturing thread-like shank matches. 2,964,077, 12-13-60, Cl. 144-51.
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- Nyrop, Johan E., Høhne, and Møller. 2,920,830.
- Moller, Christian M.: See—
- Christoffersen, Hans J., and Moller. 2,928,760.
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- Boehner, Ludwig G., and Moller. 2,958,885.
- Möller, Fredrik A., and J. Lolkema, to Naamlooze Vennootschap W. A. Scholten's Chemische Fabriken. Method of stabilizing soil with an aqueous solution of a cold water swelling starch and a resin. 2,957,834, 10-25-60, Cl. 260-172.
- Möller, Friedrich, E. Muller, P. Hoppe, and G. Braun, to 1/2 to Farbenfabriken Bayer Aktiengesellschaft and 1/2 to Mobay Chemical Co. Production of polyurethane foam using catalysts containing aliphatically bound ether oxygen atom and a tertiary amino group. 2,941,967, 6-21-60, Cl. 260-2.5.
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- Mollick, Milton, to American Machine and Metals, Inc. Instruments. 2,919,713, 1-5-60, Cl. 137-85.
- Mollick, Milton, and E. D. Haigler, to American Machine and Metals, Inc. Instruments. 2,932,973, 4-19-60, Cl. 73-418.



- Molloy, Thomas E., and J. D. Walters, to Woodward Iron Co. Pipe molding machine and method. 2,948,933, 8-16-60, Cl. 22-36.
- Molling, Friedrich K., to C. Zeiss. Illuminating device for microscopes. 2,959,097, 11-8-60, Cl. 88-40.
- Molnar, George, to The Taylor-Winfield Corp. Flying multiple spot welder and actuating means therefor. 2,923,810, 2-2-60, Cl. 219-87.
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- Molnar, Nicholas M. 3-(1'-( $\alpha$ -naphthyl)3'-oxo-butyl) 4-hydroxy coumarin and salts thereof. 2,932,652, 4-12-60, Cl. 260-343.2.
- Molnar, Peter, Jr. Trailer break-away switch. 2,928,912, 3-15-60, Cl. 200-61.19.
- Molner, Stanley, E. R. John, and H. J. A. Rimoldi. Psychological testing apparatus. 2,928,189, 3-15-60, Cl. 35-22.
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- Molstedt, Byron V., to Esso Research and Engineering Co. Transporting and classifying fluid solids. 2,959,284, 11-8-60, Cl. 209-138.
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- Momberg, James W., F. A. Gall, and W. Krzeslewski, to The Singer Mfg. Co. Canister type vacuum cleaners. 2,930,446, 3-29-60, Cl. 183-37.
- Momberg, James W., and F. A. Gall, to The Singer Mfg. Co. Vacuum cleaners with cord reels. 2,937,396, 5-24-60, Cl. 15-323.
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- Momberg, James W., E. W. Taylor, and J. H. Burnett, to The Singer Mfg. Co. Thyatron control of A.C. motors. 2,960,644, 11-15-60, Cl. 318-207.
- Mombur, Georges. Spinning reels. 2,966,314, 12-27-60, Cl. 242-84.21.
- Momchilov, Joseph M., and C. V. Staller. Spring suspension means. 2,935,313, 5-3-60, Cl. 267-20.
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- Monaco, George C. Apparatus for applying paste to a comestible wafer. 2,923,257, 2-2-60, Cl. 107-1.
- Monaghan, Patrick H., to Jersey Production Research Co. Apparatus for measuring temperatures. 2,934,956, 5-3-60, Cl. 73-358.
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- Moncrieff, Alexander D. F., to Michigan Tool Co. Loading mechanism. 2,946,264, 7-26-60, Cl. 90-1.6.
- Moncrieff, Alexander D. F., to Michigan Tool Co. Hobbing machine. 2,950,655, 8-30-60, Cl. 90-4.
- Moncrieff, Alexander D. F., to Michigan Tool Co. Gear cutting device. 2,962,799, 12-6-60, Cl. 29-95.
- Moncrieff, Leslie J., to British Celanese Ltd. Film-dispensing apparatus. 2,954,910, 10-4-60, Cl. 225-20.
- Mondine, Remy E. R. Vertically adjustable folding table. 2,938,632, 5-31-60, Cl. 211-147.
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- Mones, Arthur H., to Hogan Faximile Corp. Electrolytic recording medium. 2,953,505, 9-20-60, Cl. 204-2.
- Mongan, William T., and E. C. Heine, Jr. Stressed structural unit. 2,961,802, 11-29-60, Cl. 50-52.
- Mongello, Thomas, to United States of America, Navy. Automatic indicating target. 2,934,546, 4-26-60, Cl. 273-102.2.
- Monier, Theodore L. Paint brush scraper. 2,943,761, 7-5-60, Cl. 220-90.
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- Alizon, Etienne, and Monin. 2,946,896.
- Burstow, Pierre, and Monin. 2,954,508.
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- Monnot, Georges, and R. Vichnievsky, to Institut Français du Pétrole des Carburants et Lubrifiants. Operation of compression ignition type internal combustion engines. 2,960,079, 11-15-60, Cl. 123-32.
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- Monroe, Roger F., to The Dow Chemical Co. Corrosion inhibition. 2,952,509, 9-13-60, Cl. 21—2.5.
- Monroe, Roger F., and A. W. Anderson, to The Dow Chemical Co. 2-hydroxy-3-chloroalkyl ethers of acetylenic alcohols. 2,946,825, 7-26-60, Cl. 260—611.
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- Hardy, Edgar E. 2,923,729.
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- Harman, Marion W., and D'Amico. 2,961,446.
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- Hedrick, Ross M. 2,953,544.
- Higgins, Thomas D., Jr., McDonald, and McLane. 2,956,029.
- Hill, Rutherford B., and Leeper. 2,955,100.
- Hochwalt, Carroll A. 2,935,481.
- Holberg, Arnold J., and Cowger. 2,923,638.
- Huffman, Clarence W. 2,957,874.
- Hughes, Lawrence J., and McMinn, Jr. 2,964,578.
- Hughes, Roy A. 2,965,671.
- Johns, Iral B. 2,962,356.
- Johnson, John H. 2,938,016.
- Johnson, William K., and Patton. 2,938,049.
- Kern, Roland J. 2,926,160.
- Kleyn, John G. 2,921,907.
- Klugh, Bethune G. 2,961,411.
- Kosmin, Milton. 2,965,651.
- Kraich, William B., and Dean. 2,958,572.
- Leeper, Harold M., and Merrifield. 2,930,777.
- Lewis, John T., and Weeks. 2,941,952.
- Lewis, Norman J. 2,946,720.
- Lindstrom, Mary D., and Barkhoff. 2,962,465.
- Lovett, Gordon H. 2,947,777.
- Ludvik, George F. 2,954,318.
- Makin, Earle C., Jr. 2,957,547.
- Makin, Earle C., Jr. 2,966,532.
- Malowan, John E., and Nielsen. 2,949,385.
- Marotta, Ralph, and Martinson. 2,927,863.
- Martin, Richard H., Jr. 2,957,857.
- McDonald, David W. 2,965,565.
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- McDonald, David W., and Singleton. 2,965,670.
- McMinn, Talmage D., Jr. 2,944,952.
- Merrifield, Dudley B. 2,954,356.
- Miller, Robert E. 2,949,353.
- Mills, Charles L., Jr. 2,957,838.
- Montgomery, Stewart R. 2,966,507.
- Mortimer, George A. 2,920,067.
- Murray, James G. 2,945,871.
- Nemphos, Speros P. 2,956,960.
- Nickerson, Ralph F. 2,927,083.
- Nielsen, Morris L. 2,961,466.
- Nisbet, William R., and Agee. 2,928,886.
- Ott, John B. 2,945,013.
- Patrick, Tracy M., Jr., and Erickson. 2,926,173.
- Payne, John H., Jr., and Nelson. 2,964,415.
- Prill, Erhard J. 2,957,802.
- Prill, Erhard J. 2,965,686.
- Prill, Erhard J., and Wygant. 2,965,674.
- Queeny, Edgar M. 2,947,269.
- Quinn, John F., and Terpstra. 2,945,063.
- Reetz, Theodor. 2,935,518.
- Reinhard, Raymond H., and Fox. 2,951,831.
- Robinson, Warr D., and Sullivan. 2,963,408.
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 Santmyer, Philip H. 2,945,781.  
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 Sargent, Neil A., and Davis. 2,925,127.  
 Saul, George A. 2,961,445.  
 Schauer, Paul J. 2,941,947.  
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- Monsanto Chemicals Ltd.: *See*—  
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- Monsees, Claude E., and F. H. Cooper, to Sperry Rand Corp.  
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- Monson Equipment Co., Inc.: *See*—  
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- Monson, Harry O., to United States of America, Atomic Energy Commission. Power breeder reactor. 2,961,393,  
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- Monson, John M. Sheep-shearing table. 2,960,966, 11-22-60, Cl. 119-103.
- Monson, Leon A., to E. I. du Pont de Nemours and Co.  
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- Monson, Louis T., and F. W. Jenkins, to Petrolite Corp.  
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- Monson, Louis T., to Petrolite Corp. Process for breaking emulsions of the oil-in-water class. 2,964,478, 12-13-60, Cl. 252-331.
- Monson, Oscar P., to Monson Equipment Co., Inc. Valve. 2,923,318, 2-2-60, Cl. 137-454.6.
- Monson, Oscar P., to Monson Equipment Co., Inc. Valve. 2,935,293, 5-3-60, Cl. 251-316.
- Monson, Walter T.: *See*—  
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- Montagna, Amelio E., and L. V. McQuillen, to Union Carbide Corp. Production of organic acids from aldehydes. 2,930,801, 3-29-60, Cl. 260-345.7.
- Montagna, Amelio E., D. G. Kubler, and J. J. Brezinski, to Union Carbide Corp. Alkoxyhydroxy substituted carboxylic acids and their esters and production thereof. 2,939,880, 6-7-60, Cl. 260-484.
- Montagna, Amelio E., D. G. Kubler, and J. J. Brezinski, to Union Carbide Corp. Aliphatic tetrahydropranyl ether-esters and process for making same. 2,953,577, 9-20-60, Cl. 260-345.8.
- Montagna, Amelio E., and D. H. Hirsh, to Union Carbide Corp. Preparation of unsaturated ethers. 2,962,534, 11-29-60, Cl. 260-614.
- Montagnon, Jean, to "Societe Nouvelle Pica." Apparatus for adding a chemical to a liquid. 2,964,052, 12-13-60, Cl. 137-99.5.
- Montague, Charles H., to Owens-Illinois Glass Co. Sound muffling device. 2,958,390, 11-1-60, Cl. 181-57.
- Montague, Frank W., and S. A. Fountain brush. 2,920,333, 1-12-60, Cl. 15-139.
- Montague, Susan A.: *See*—  
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- Montana, Alfred L., to United States of America, Army. Side cam magazine catch for firearms. 2,956,363, 10-18-60, Cl. 42-50.
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- Monteil, Jean A. Mechanical system for replacing alternate mechanical units. 2,935,027, 5-3-60, Cl. 103-125.
- Montel, Marc, to Centre Nationale de la Recherche Scientifique. Anastigmatic catoptric device. 2,941,078, 6-14-60, Cl. 250-53.
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- Montgomery, Eldwin C., H. N. Dean, and C. H. Cowley, to Libbey-Owens-Ford Glass Co. Apparatus for forming openings in multiple sheet glazing units. 2,964,878, 12-20-60, Cl. 49-1.
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- Montgomery, Henry T.: *See*—  
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- Montgomery, Jesse S., and W. C. Hutton, to Fluid Power Corp. Hydraulic power gripping apparatus. 2,923,192, 2-2-60, Cl. 81-53.
- Montgomery, John A., to Lakeside Engineering Corp. Settling tank with agitating vanes. 2,959,290, 11-8-60, Cl. 210-528.
- Montgomery, John R., and R. H. Sherman, Jr., to Dictaphone Corp. Tape record machine. 2,958,476, 11-1-60, Cl. 242-55.12.
- Montgomery Printing Co., The: *See*—  
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- Montgomery, Richard B.: *See*—  
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- Montgomery, Stewart R., to Monsanto Chemical Co. 1,3-bis-pentaalkyldisiloxanylialkylene) ureas. 2,966,507, 12-27-60, Cl. 260-448.2.
- Monti, Anthony, and N. R. Pike, to American Molasses Co. Icings and method of preparing them and cold-water soluble agar and carrageen gums for said icings. 2,963,373, 12-6-60, Cl. 99-131.
- Montooth, George A., to Brunswick Corp. Ball and pin handling mechanism. 2,961,237, 11-22-60, Cl. 273-43.
- Montrose, Frank L. Telephone attachment. 2,952,740, 9-13-60, Cl. 179-6.
- Montrose-Oster, Louis E. W., to Pollopos Patents Ltd. Ship stabilizing equipment. 2,958,305, 11-1-60, Cl. 114-124.
- Montross, Charles F., F. E. Woodward, and F. Wuerth, to General Aniline & Film Corp. Continuous method for the manufacture of solid esters. 2,920,088, 1-5-60, Cl. 260-410.9.



- Montross, Robert C., to Square D Co. Electric circuit. 2,955,244, 10-4-60, Cl. 318-331.
- Montz, Roy J. Tube adapter with variably adjustable inter-electrode rheostat. 2,960,605, 11-15-60, Cl. 250-16.
- Mooberry, David D., to E. I. du Pont de Nemours and Co. Finishing fabrics. 2,920,980, 1-12-60, Cl. 117-65.
- Moo-Cow Group Ltd.: See—
- Abdela, Frederick. 2,950,532.
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- Pfeffer, William E., and Gombert. 2,954,526.
- Moodey, Hannah C., to Radio Corp. of America. Plural beam gun. 2,957,106, 10-18-60, Cl. 315-13.
- Moodie, William C., Sr., to Calculagraph Co. Ticket printing device. 2,963,968, 12-13-60, Cl. 101-407.
- Moody, Charles W., J. R. Neff, W. F. M. Gray, and C. J. Kettler, to General Electric Co. Method of making a joint in a wound magnetic core. 2,947,065, 8-2-60, Cl. 29-155.57.
- Moody, Dale M.: See—
- Green, William G., and Moody. 2,939,830.
- Moody, Herbert H., to Continental Oil Co. Method for plotting seismic data. 2,941,184, 6-14-60, Cl. 340-15.
- Moody, Norman F., and C. D. Florida; said Florida assor. to Her Majesty the Queen in Right of Canada. Bistable semiconductor circuit. 2,945,134, 7-12-60, Cl. 307-88.5.
- Moog Industries, Inc.: See—
- Scheublein, William A., Jr., and Dumpis. 2,954,993.
- Moog Servocontrols Inc.: See—
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- Moog, William C., Jr. 2,920,650.
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- Moog Valve Co., Inc.: See—
- Geyer, Lewis H. 2,964,059.
- Moog, William C., Jr., to Moog Servocontrols Inc. Valve bushing. 2,920,650, 1-12-60, Cl. 137-622.
- Moog, William C., Jr., to Moog Servocontrols, Inc. Electro-hydraulic servo valve with pressure repeating power amplification. 2,931,343, 4-5-60, Cl. 121-46.5.
- Moog, William C., Jr., and L. H. Geyer, to Moog Servocontrols, Inc. Servo valve producing output differential pressure independent of flow rate. 2,931,389, 4-5-60, Cl. 137-623.
- Mooi, John: See—
- Thomas, Owen H., and Mooi. 2,952,721.
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- Williams, Alexander W., Beckman, and Mook. 2,966,409.
- Moon, Albert I., Jr., and V. E. Goodman, to General Dynamics Corp. Multiple stage load indicator. 2,927,458, 3-8-60, Cl. 73-141.
- Moon, Daisy. Device for serving cool drinks. 2,926,508, 3-1-60, Cl. 62-457.
- Moon, Dick A. Antislipping device. 2,956,351, 10-18-60, Cl. 36-7.7.
- Moon, Edward W., 3rd, and C. P. Toscano, to American Optical Co. Adjustable screens for picture projection. 2,942,517, 6-28-60, Cl. 88-28.9.
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- Hann, Melvin M., Moon, and Carlson. 2,942,421.
- Moon, Sterling C., to The Jeffrey Mfg. Co. Conveyor idler stand. 2,927,681, 3-8-60, Cl. 198-184.
- Moon, Sterling C., to The Jeffrey Mfg. Co. Mining machine having means for cutting side wall holes for roof timbers. 2,945,686, 7-19-60, Cl. 262-7.
- Moon, Sterling C., to The Jeffrey Mfg. Co. Hitch for mobile conveyor. 2,948,552, 8-9-60, Cl. 280-447.
- Moon, Volney W., 50% to C. Pace, Jr. Boat brake or drag. 2,928,365, 3-15-60, Cl. 114-145.
- Moonal, George E., to The Babcock & Wilcox Co. Gas recirculation method and apparatus for superheat control with gas fan static control. 2,939,436, 6-7-60, Cl. 122-479.
- Mooney, Philip F., and J. E. Smith, to James Lees and Sons Co. Tufted pile fabric. 2,928,099, 3-15-60, Cl. 2-278.
- Mooney, James J., Jr.: See—
- Tuck, Robert M., and Mooney. 2,929,270.
- Mooney, Laurence R., to Sten-C-Lab Inc. Stencil applicator. 2,919,642, 1-5-60, Cl. 101-125.
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- Mooney, Melvin, and T. L. Ether, to United States Rubber Co. Method of providing pneumatic tires with an anti-skid coating. 2,921,918, 1-19-60, Cl. 260-27.
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- Ropp, Richard C., and Mooney. 2,965,785.
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- Mooney, Ronald B., to Imperial Chemical Industries Ltd. Filtration of titanium containing effluents. 2,964,189, 12-13-60, Cl. 210-80.
- Mooney, Stuart, to Double Envelope Corp. Combination circular and envelope. 2,954,154, 9-27-60, Cl. 229-70.
- Mooneyham, James D., and H. L. King, to Liberal Tool Co., Inc. Well tubing cleaning apparatus. 2,929,454, 3-22-60, Cl. 166-174.
- Moons, Hugo, to International Standard Electric Corp. Method of baring electric ribbon cables. 2,958,615, 11-1-60, Cl. 134-9.
- Moor, D. W., Rubber Corp.: See—
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- Stoudenheimer, Richard G., and Moor. 2,946,895.
- Moore, Albert N. Horn ring or button light dimmer. 2,957,992, 10-25-60, Cl. 207-10.
- Moore, Alexander M., H. A. De Wald, R. D. Westland, Q. R. Bartz, H. W. Dion, and S. A. Fusari, to Parke, Davis & Co. 6-diazo-5-oxonorleucine. 2,965,633, 12-20-60, Cl. 260-239.
- Moore, Alexander M., and H. A. De Wald, to Parke, Davis & Co. Norleucine derivatives and process for producing same. 2,965,634, 12-20-60, Cl. 260-239.
- Moore, Alexander M., and H. A. De Wald, to Parke, Davis & Co. Norleucine derivatives and process for producing same. 2,965,635, 12-20-60, Cl. 260-239.
- Moore, Alexander M., and H. A. De Wald, to Parke, Davis & Co. Norleucine derivatives and process for producing same. 2,965,636, 12-20-60, Cl. 260-239.
- Moore, Alfred A. Collapsible container and dispensing holder therefor. 2,944,706, 7-12-60, Cl. 222-105.
- Moore, Benjamin, & Co.: See—
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- Moore, Buford O. Magnetic device for applying antiskid chains. 2,920,516, 1-12-60, Cl. 81-15.8.
- Moore Business Forms, Inc.: See—
- Sornberger, George E. 2,926,025.
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- Moore, Cecil L., to Engineering & Research Lab. Service Co. Variable flow pump. 2,955,541, 10-11-60, Cl. 103-120.
- Moore, Cecil S. Fence post driver. 2,958,201, 11-1-60, Cl. 61-74.
- Moore, Charles B., Jr., to General Mills, Inc. Solar engine balloon altitude control. 2,931,597, 4-5-60, Cl. 244-97.
- Moore, Charles C.: See—
- Gregory, James B., Emerson, and Moore. 2,965,086.
- Moore, Clifford J. Boat protective device. 2,940,414, 6-14-60, Cl. 114-219.
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- Moore, Robert D. 2,952,787.
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- Moore, Junius T., Jr. 2,962,253.
- Moore, Collins C. Harvesting wagon. 2,924,344, 2-9-60, Cl. 214-75.
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- Moore, David W., and O. F. Kuhlman, to Servomechanisms Inc. Film resistor element. 2,926,325, 2-23-60, Cl. 338-308.
- Moore, Donald D., to May Bros. Mfg. Co., Inc. Wheel support with pneumatic clamping means. 2,962,065, 11-29-60, Cl. 144-288.
- Moore, Donald G., to United States of America, Navy. Airborne radar system. 2,939,131, 5-31-60, Cl. 343-7.4.
- Moore Drop Forging Co.: See—
- Vose, Robert W. 2,944,452.
- Vose, Robert W. 2,948,915.
- Moore, Dwight M., and H. Field, Jr., to General Dynamics Corp. (Convair Division). Temperature indicator. 2,932,971, 4-19-60, Cl. 73-356.
- Moore, Earl K.: See—
- Quenneville, Raymond N., and Moore. 2,920,790.
- Moore, Earl K., to United Aircraft Corp. Fuel supply for gas generator. 2,924,935, 2-16-60, Cl. 60-39.14.
- Moore, Edgar S., to Calmore-Buffalo, Inc. Screw delivering attachment for power-operated screwdriver. 2,922,447, 1-26-60, Cl. 144-32.
- Moore, Edwin L., to General Motors Corp. Battery hold-down adapter. 2,947,374, 8-2-60, Cl. 180-68.5.
- Moore, Ezra L., to Arvin Industries, Inc. Crank-rod for an article of foldable furniture. 2,964,097, 12-13-60, Cl. 155-119.
- Moore, Frances P. Optical pointer. 2,957,389, 10-25-60, Cl. 88-24.
- Moore, Francis C., and C. F. Rohn, to Press Pallet Inc. Heater for animal pens. 2,963,565, 12-6-60, Cl. 219-19.
- Moore, Francis K.: See—
- Springer, Edward M., and Moore. 2,936,706.
- Moore, Frank H., Jr.: See—
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- Moore, Fulton M., to Cambridge Wire Cloth Co. Material handling basket. 2,962,273, 11-29-60, Cl. 263-47.
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- Blumberg, Richard, and Moore. 2,941,087.
- Moore, George A. Telescopic self-sealing containers. 2,936,944, 5-17-60, Cl. 229-34.
- Moore, George C., Co.: See—
- Siciliano, Samuel F. 2,960,855.
- Moore, George E.: See—
- Strock, Donald V., Moore, Schmidt, and Wadleck. 2,919,741.
- Moore, George F., and T. Beer, to Tennessee Corp. Process of manufacturing Di-ammonium phosphate. 2,963,359, 12-6-60, Cl. 71-41.
- Moore, George R.: See—
- Levine, Charles A., Skiens, and Moore. 2,947,774.
- Moore, Glen F. Composition for stopping leaks in pipes and plumbing fittings. 2,925,350, 2-16-60, Cl. 106-33.
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- Moore-Handley Hardware Co., Inc.: *See*—  
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- Moore, Harold E., and H. I. Hazzard, to McCulloch Corp. Centrifugally actuated friction clutch. 2,947,399, 8-2-60, Cl. 192—105.
- Moore, Harrington. Method of making a setscrew. 2,927,332, 3-8-60, Cl. 10—10.
- Moore, Harry H., R. H. F. Stresau, C. A. Axelsson, and D. M. Stearns. Depth charge firing mechanism. 2,961,954, 11-29-60, Cl. 102—7.
- Moore, Harry O., to Silabert Corp. Electrically operable stapler. 2,947,002, 8-2-60, Cl. 1—3.
- Moore, Harry O., to Silabert Corp. Apparatus for puncturing containers. 2,959,852, 11-15-60, Cl. 30—4.
- Moore, Harry W.: *See*—  
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- Moore, Harry W. Multiple coil winding machine. 2,942,793, 6-28-60, Cl. 242—13.
- Moore, Harry W. Armature winding and transfer machine. 2,947,427, 8-2-60, Cl. 214—1.
- Moore, Harry W. Apparatus for and method of winding stator coils. 2,953,309, 9-20-60, Cl. 242—1.1.
- Moore, Harry W. Balancing machine. 2,953,923, 9-27-60, Cl. 73—466.
- Moore, Henry T. Work table with selective rotating tool. 2,930,418, 3-29-60, Cl. 144—1.
- Moore, Herbert C., and H. L. Trautmann, to Electro-Way Corp. Dishwashing apparatus. 2,956,579, 10-18-60, Cl. 137—218.
- Moore, Howard H., Jr., and W. H. Dietz, to Camco, Inc. Check valve. 2,949,929, 8-23-60, Cl. 137—516.29.
- Moore, Howard H., Jr., and W. H. Dietz, to Camco, Inc. Check valve. 2,949,930, 8-23-60, Cl. 137—516.29.
- Moore, James E., to United States of America, Atomic Energy Commission. Single-step conversion of  $UO_2$  to  $UF_4$ . 2,944,873, 7-12-60, Cl. 23—14.5.
- Moore, James G.: *See*—  
Kohlins, William D., Moore, and Montgomery. 2,953,199.
- Moore, John A.: *See*—  
Bowtell, James N., and Moore. 2,935,825.
- Moore, John A., and R. W. Lees, to Ingersoll-Rand Co. Wire coiling device. 2,927,741, 3-8-60, Cl. 242—7.
- Moore, John R., and D. G. Soergel, to North American Aviation, Inc. Integrated aircraft and fire control autopilot. 2,933,980, 4-26-60, Cl. 89—1.
- Moore, John W., to Columbia-Southern Chemical Corp. Purification of hydrogen peroxide. 2,919,975, 1-5-60, Cl. 23—207.
- Moore, John W., to Columbia-Southern Chemical Corp. Novel flotation process. 2,921,879, 1-19-60, Cl. 209—166.
- Moore, Joseph E., to United States of America, Agriculture. Dyeing and chemical modification of keratins. 2,933,365, 4-19-60, Cl. 8—127.6.
- Moore, Joseph E., to United States of America, Agriculture. Modification of keratins with sulphones and related compounds. 2,955,016, 10-4-60, Cl. 8—128.
- Moore, Joseph E., and C. E. Pardo, Jr., to United States of America, Agriculture. Shrinkproofing of protein fibers with polyalkyleneimines. 2,925,317, 2-16-60, Cl. 8—127.6.
- Moore, Joseph M. Combination clasp and initial holders for watch bands. 2,954,622, 10-4-60, Cl. 40—21.
- Moore, Junius T., Jr., to The Moore Co. Apparatus for storing clothing and other articles. 2,962,253, 11-29-60, Cl. 243—320.
- Moore, Lawrence A., to The Black-Clawson Co. Paper machinery. 2,954,082, 9-27-60, Cl. 162—264.
- Moore, Lawrence E. Valve lifter for diesel motors. 2,940,166, 6-14-60, Cl. 29—219.
- Moore, Lawrence K. Method of and apparatus for opening plugged pipe in a well bore. 2,935,130, 5-3-60, Cl. 166—44.
- Moore, Lee C., Corp.: *See*—  
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Woolslayer, Homer J., Jenkins, Maxwell, and Born. 2,963,123.
- Moore, Lorenzo D., and W. G. Cole, to Ferro Corp. Apparatus for making bonded fibrous glass mats. 2,925,117, 2-16-60, Cl. 154—29.
- Moore, Louis D., Jr.: *See*—  
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- Moose, Louis F., to Bell Telephone Laboratories, Inc. High frequency apparatus. 2,937,316, 5-17-60, Cl. 315—43.
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- Moore, Marvin G. Apparatus for forming a helix. 2,939,506, 6-7-60, Cl. 153—2.
- Moore, Marvin G. Dispensing device. 2,962,191, 11-29-60, Cl. 222—29.
- Moore, Marvin L., to Diamond Alkali Co. Crucible for analytic purposes having a rotary covervalving arrangement. 2,961,228, 11-22-60, Cl. 263—48.
- Moore, Maxwell M., and J. D. Douglas, to General Controls Co. Adjustable potentiometer constructions. 2,961,626, 11-22-60, Cl. 338—143.
- Moore, Michael J., to Burroughs Corp. Binary magnetic counter with one core per stage. 2,930,029, 3-22-60, Cl. 340—174.
- Moore, Norman H., to Fibreboard Paper Products Corp. Carton with snap-lock closure. 2,944,727, 7-12-60, Cl. 229—45.
- Moore, Otis E. Swage shaper. 2,953,948, 9-27-60, Cl. 76—51.
- Moore Products Co.: *See*—  
Clements, Thomas W. 2,953,657.  
Kirk, David B. 2,953,917.
- Moore, Ralph G. D.: *See*—  
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- Moore, Ralph T., to The American Monorail Co. Shielded collector shoe and bus bar. 2,958,743, 11-1-60, Cl. 191—23.
- Moore, Raymond H., to United States of America, Atomic Energy Commission. Fission product removal from organic solutions. 2,936,318, 5-10-60, Cl. 260—461.318.
- Moore, Raymond H., to United States of America, Atomic Energy Commission. Fused salt process for recovery of values from used nuclear reactor fuels. 2,948,586, 8-9-60, Cl. 23—14.5.
- Moore, Rector, to Bender Motor Co. Automobile automatic spark advancing means. 2,965,081, 12-20-60, Cl. 123—117.
- Moore, Robert A. Secondary refrigeration system. 2,942,434, 6-28-60, Cl. 62—208.
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- Moore, Robert C.: *See*—  
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- Moore, Robert D., to Moore Co. Motor for contra rotating fans. 2,952,787, 9-13-60, Cl. 310—157.
- Moore, Robert L., to Aerol Co., Inc. Caster swivel control device. 2,960,717, 11-22-60, Cl. 16—21.
- Moore, Robert L., to Aerol Co., Inc. Wheel hub seal. 2,962,329, 11-29-60, Cl. 308—187.1.
- Moore, Stanley C., to Drilco Oil Tools, Inc. Orienting apparatus. 2,953,350, 9-20-60, Cl. 255—1.6.
- Moore, Theodore R., to Olin Mathieson Chemical Corp. Paper making machine. 2,951,784, 9-6-60, Cl. 162—212.
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- Moore, Thomas M.: *See*—  
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- Moore, Victor C., to General Motors Corp. Transmission. 2,919,607, 1-5-60, Cl. 74—688.
- Moore, Victor C., to General Motors Corp. Transmission. 2,939,340, 6-7-60, Cl. 74—677.
- Moore, Victor C., to General Motors Corp. Transmission. 2,959,985, 11-15-60, Cl. 74—740.
- Moore, Vincent, to Curtiss-Wright Corp. Lightweight compressor or turbine structure. 2,938,705, 5-31-60, Cl. 253—39.
- Moore, Walter R., to Shell Oil Co. Gasoline composition. 2,961,309, 11-22-60, Cl. 44—72.
- Moore, Warren, Jr., to Minneapolis-Honeywell Regulator Co. Condition responsive relay means. 2,920,214, 1-5-60, Cl. 307—88.5.
- Moore, William F.: *See*—  
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- Moore, William H. Magnesium bearing cast iron. 2,922,713, 1-26-60, Cl. 75—130.
- Moore, William H., to Meehanite Metal Corp. Process for the production of nodular cast iron. 2,933,385, 4-19-60, Cl. 75—130.
- Moore, William H. Baseball batting device. 2,942,883, 6-28-60, Cl. 273—26.
- Moore, William H., and H. L. Gerald. Piston skirt knurling tool. 2,945,406, 7-19-60, Cl. 80—5.1.
- Moore, William T. Guide means for phonograph needle. 2,955,827, 10-11-60, Cl. 274—13.
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- Moorhead, Seth B., Jr., to United States of America, Navy. Variable velocity pneumatic gun system. 2,960,977, 11-22-60, Cl. 124—11.
- Moorman, Earl F., and J. Valence, to International Harvester Co. Process of determining the deposit characteristics of antifreeze solutions. 2,931,219, 4-5-60, Cl. 73—53.
- Moorman, Joseph W., to The Lummus Co. Catalytic dehydrogenation apparatus. 2,962,362, 11-29-60, Cl. 23—288.
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- Moorman, Robert W.: *See*—  
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Gordon, Leon B., and Moote. 2,927,086.



- Mora, Grato, to Omes Ltd. Manufacture of turbine rotors. 2,952,902, 9-20-60, Cl. 29—156.8.
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- Lear, Earl B., and Moracco. 2,940,532.
- Moran, Albert L., to E. I. du Pont de Nemours and Co. Fluoroelastomers. 2,951,832, 9-6-60, Cl. 260—87.5.
- Moran, Arnold J., Jr., 20% to M. Stella. Necktie holder. 2,946,106, 7-26-60, Cl. 24—49.
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- Campbell, Francis K. 2,950,392.
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- Moran, Harold J., to Switlik Parachute Co., Inc. Rip cord handle and rip cord assembly. 2,961,205, 11-22-60, Cl. 244—149.
- Moran, Harold J., to Switlik Parachute Co., Inc. Barrel clip and rip cord assembly. 2,965,944, 12-27-60, Cl. 24—205.11.
- Moran, James G. Cap closure. 2,966,286, 12-27-60, Cl. 222—553.
- Moran, Jesse N., to Phillips Petroleum Co. Apparatus for and method of extruding plastic materials. 2,944,287, 7-12-60, Cl. 18—14.
- Moran, John H. Orthopedic brace. 2,963,020, 12-6-60, Cl. 128—80.
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- Van Dorn, Horace B., and Moran. 2,947,196.
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- Moraney, William F., to Lawson Products, Inc. Knitted fabrics. 2,946,211, 7-26-60, Cl. 66—200.
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- Hemminger, Charles E., and Morbeck. 2,934,492.
- Huntley, Allan R., Morbeck, and May. 2,937,989.
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- Mörch, Arne S. Method of drying lumber and a dry kiln for carrying the method into effect. 2,951,294, 9-6-60, Cl. 34—225.
- Mordhorst, Gerald D., and K. R. Leonard, to Beech Aircraft Corp. Method of liquefying helium. 2,932,173, 4-12-60, Cl. 62—9.
- More, Arthur R., to H. W. Wallace & Co. Ltd. Method of and means for packaging articles. 2,924,051, 2-9-60, Cl. 53—26.
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- Morehead, Enoch W. Water lifting device. 2,956,511, 10-18-60, Cl. 103—211.
- Morehouse, David W., to International Minerals & Chemical Corp. Dryer for granular materials. 2,932,904, 4-19-60, Cl. 34—176.
- Morehouse, Edward L., to Union Carbide Corp. Organosilicon acylamino compounds and process for producing the same. 2,928,858, 3-15-60, Cl. 260—448.8.
- Morehouse, Edward L., to Union Carbide Corp. Organosilicon acylamino compounds and process for producing the same. 2,929,829, 3-22-60, Cl. 260—448.2.
- Morehouse, Edward L., to Union Carbide Corp. Dithiocarbamyl-containing silicon compounds. 2,938,046, 5-24-60, Cl. 260—448.2.
- Morehouse, Patricia A., to The H. W. Gossard Co. Combination garment. 2,929,380, 3-22-60, Cl. 128—432.
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- Morelli, Gino W., to Speer Carbon Co. Electrode connecting nipple and method. 2,941,829, 6-21-60, Cl. 287—127.
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- Morelock, Oliver J., to Daystrom Inc. Electron tube tester. 2,926,302, 2-23-60, Cl. 324—23.
- Moren, Robert E., to Western Electric Co., Inc. Circuit for adjusting symmetrical band-pass systems. 2,945,177, 7-12-60, Cl. 324—57.
- Moreno, Miguel G., to The Procter & Gamble Co. Machine to deposit or feed premiums into containers. 2,930,174, 3-29-60, Cl. 53—235.
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- Moreton, Douglas H., to Douglas Aircraft Co., Inc. Functional fluid and lubricant. 2,933,449, 4-19-60, Cl. 252—49.9.
- Moreton, Douglas H., to Douglas Aircraft Co., Inc. Fire-resistant functional fluid and lubricant composition. 2,934,501, 4-26-60, Cl. 252—78.
- Moretti, Louis J., and W. N. Nakajima, to American Cyanamid Co. Flame-proofing nylon with thiourea containing resin. 2,922,726, 1-26-60, Cl. 117—137.
- Morey, Glen H., to Linton-Summit Coal Co. Metal clad heating strip with ribbon element. 2,939,099, 5-31-60, Cl. 338—243.
- Morey, Glen H., to Linton-Summit Coal Co. Electrical heating tape and method of making. 2,952,001, 9-6-60, Cl. 338—210.
- Morey, Glen H., to Templeton Coal Co., Inc. Electric heating element. 2,966,648, 12-27-60, Cl. 338—259.
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- Morey, Richard F., Jr.: *See—*
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- Morey, Russell H.: *See—*
- Streich, Charles A., and Morey. 2,930,387.
- Morey, Sigmund M., and S. L. Casella, to Morey Machinery Co., Inc. Power transmission for milling and the like machines. 2,949,795, 8-23-60, Cl. 74—750.
- Morf, Ernest. Watch. 2,925,706, 2-23-60, Cl. 58—59.
- Morf, Ernest. Flexible metallic wrist-watch band. 2,937,798, 5-24-60, Cl. 224—4.
- Morf, Ernest. Power unit for watches. 2,942,409, 6-28-60, Cl. 58—46.
- Morf, Ernest. Watertight wrist-watch case. 2,951,333, 9-6-60, Cl. 58—90.
- Morf, Ernest. Watch glass for a shaped case. 2,959,912, 11-15-60, Cl. 58—91.
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- Morgan, Adolph R., to Radio Corp. of America. Electrostatic microphone circuits. 2,920,140, 1-5-60, Cl. 179—1.
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- Morgan, Arthur I., Jr., and J. M. Randall, to United States of America, Agriculture. Dehydration of lacteal fluids. 2,934,441, 4-26-60, Cl. 99—201.
- Morgan, Arthur I., Jr., and L. F. Glnette, to United States of America, Agriculture. Continuous process of dehydrating fruit and vegetable juices. 2,955,046, 10-4-60, Cl. 99—206.
- Morgan, Arthur I., Jr., and L. F. Glnette, to United States of America, Agriculture. Dehydration of fruit and vegetable juices. 2,955,943, 10-11-60, Cl. 99—206.
- Morgan, Carrel B., to Specialties Development Co. Quick acting valve operating mechanism. 2,943,706, 7-5-60, Cl. 185—40.
- Morgan, Charles C., Jr. Boundary layer heat transfer calorimeter. 2,935,874, 5-10-60, Cl. 73—362.
- Morgan, Clarence R.: *See—*
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- Morgan, Coleman P., and R. R. Meltz, 50% to Bendix Aviation Corp., and 50% to Vulcanized Rubber and Plastics Co. Oil resistant rubber-like material containing a butadiene-acrylonitrile copolymer and calcined magnesias. 2,933,466, 4-19-60, Cl. 260—23.7.
- Morgan, Conrad J. Portable sound suppressors for aircraft jet engines. 2,949,164, 8-16-60, Cl. 181—36.
- Morgan, Conrad J. Portable sound suppressor for aircraft jet engines. 2,957,537, 10-25-60, Cl. 181—56.
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- Kneass, Strickland, Jr. 2,951,457.
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- Rich, Charles A., Jr. 2,955,002.
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- Morgan Development Laboratories, Inc.: *See—*
- Morgan, Porter S. 2,955,509.
- Morgan, Donald W., to Sanberg-Serrell Corp. Linear measurement device with thermal compensation. 2,942,460, 6-28-60, Cl. 73—147.
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- Morgan, Gerard E., Jr.: *See—*
- Rappleyea, Frederick A., and Morgan. 2,929,102.
- Morgan, Gerard E., Jr., to John T. Riddell, Inc. Nose guard for helmets. 2,939,149, 6-7-60, Cl. 2—3.
- Morgan, George H. Insect-proof enclosures. 2,943,634, 7-5-60, Cl. 135—1.
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- Morgan, Herbert L., to Hycon Mfg. Co. Applicator adjustment mechanism. 2,958,271, 11-1-60, Cl. 95—89.
- Morgan, Hugh M., to Foundry Services International Ltd. Production of castings and ingots. 2,937,425, 5-24-60, Cl. 22—215.
- Morgan, Jack L., to Yates-American Machine Co. Radiator protector device. 2,966,339, 12-27-60, Cl. 257—1.
- Morgan, James I.: *See—*  
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- Morgan, James I., to The Prime Mfg. Co. Check-bleed valve. 2,940,470, 6-14-60, Cl. 137—496.
- Morgan, James W., to W. D. Keith. Card holding attachments for tables. 2,926,918, 3-1-60, Cl. 273—150.
- Morgan, John C., R. W. Wampler, J. D. Ryan, and P. T. Mattimore, to Libbey-Owens-Ford Glass Co. Multiple glass sheet glazing units. 2,925,633, 2-23-60, Cl. 20—56.5.
- Morgan, John E. H., and G. D. Drotsky. Threshing machines for field crops. 2,924,056, 2-9-60, Cl. 56—66.
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- Morgan, John M., Jr., to The Cincinnati Milling Machine Co. Tracing apparatus. 2,937,577, 5-24-60, Cl. 90—62.
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- Morgan, Leonard P., to North American Philips Co., Inc. Electric gating and the like. 2,951,951, 9-6-60, Cl. 307—88.5.
- Morgan, Manuel E., A. D. Peithman, and E. R. Carman. Football shoulder pad. 2,953,789, 9-27-60, Cl. 2—2.
- Morgan, Mervyn, to Marconi's Wireless Telegraph Co. Ltd. Radio speed indicating installations for aircraft. 2,921,303, 1-12-60, Cl. 343—8.
- Morgan, Mervyn, and W. O. Agar, to Marconi's Wireless Telegraph Co. Ltd. Indicators for aircraft drift, ground speed and distance run. 2,923,001, 1-26-60, Cl. 343—9.
- Morgan, Myles. Zipper actuator. 2,939,193, 6-7-60, Cl. 24—205.15.
- Morgan, Myles, to Morgan Construction Co. Reeling apparatus. 2,924,445, 2-9-60, Cl. 266—6.
- Morgan, Myles, and E. R. Comtois, to Morgan Construction Co. Cooling bed ston. 2,924,132, 2-9-60, Cl. 80—42.
- Morgan, Paul W., to E. I. du Pont de Nemours and Co. Process of improving the dye receptivity in mechanically stressed solid polymers. 2,955,324, 10-11-60, Cl. 18—47.5.
- Morgan, Porter S., to Morgan Development Laboratories, Inc. Reflector for praxinoscopic devices. 2,955,509, 10-11-60, Cl. 88—16.
- Morgan, Raymond. Gaseous electron tube. 2,925,510, 2-16-60, Cl. 313—93.
- Morgan, Raymond E., to General Electric Co. Magnetic amplifiers. 2,938,159, 5-24-60, Cl. 323—89.
- Morgan, Raymond E., to General Electric Co. Magnetic amplifier. 2,948,844, 8-9-60, Cl. 323—89.
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- Morgan, Samuel P., Jr.: *See—*  
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- Morgan, Sidney C. Ice-scraping tool. 2,946,076, 7-26-60, Cl. 15—236.
- Morgan, Thomas P. Slipper type article of footwear. 2,926,434, 3-1-60, Cl. 36—11.
- Morgan, Walter L., II, to United States of America, Navy. Magnetic memory and switching circuit. 2,946,047, 7-19-60, Cl. 340—174.
- Morgan, Wayne F.: *See—*  
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- Morgan, Willard L., to Owens-Corning Fiberglass Corp. Reinforcement of metal. 2,953,849, 9-27-60, Cl. 29—419.
- Morgan, Willard W. Sample thief construction. 2,958,222, 11-1-60, Cl. 73—424.
- Morgan, William F. Pistons for internal combustion engines. 2,964,364, 12-13-60, Cl. 309—9.
- Morgan, William T.: *See—*  
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- Morgan, William V.: *See—*  
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- Morgan, William W., to Atomic Energy of Canada Ltd. Processing of nitrate solutions containing thorium and uranium<sup>233</sup>. 2,943,923, 7-5-60, Cl. 23—312.
- Morganite Inc.: *See—*  
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- Morgen, Henry: *See—*  
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- Morgenstern, David M. Vacuum feeding and degasifying means for die casting apparatus. 2,955,335, 10-11-60, Cl. 22—73.
- Morgenthaler, Frederick W.: *See—*  
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- Morglia, James V., to United Aircraft Corp. Acid etch inspection process. 2,959,471, 11-8-60, Cl. 23—230.
- Morhardt, Charles H. Golf putting apparatus. 2,957,697, 10-25-60, Cl. 273—177.
- Mori, Yoshinobu, to Citizen Watch Co., Ltd. Camera shutter. 2,923,218, 2-2-60, Cl. 95—11.5.
- Moriarty, John M.: *See—*  
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- Morice, Elton K.: *See—*  
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- Morich, Gloria M. Combination foundation garment and brassiere. 2,946,333, 7-26-60, Cl. 128—482.
- Morier, Henri: *See—*  
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- Morin, George G. Concrete pouring bucket. 2,956,832, 10-18-60, Cl. 294—69.
- Morin, George G. Concrete pouring bucket. 2,956,833, 10-18-60, Cl. 294—69.
- Morin, Gerard R., to Cormier Hosiery Mills, Inc. Circular knitting machine with jacks under selected needles. 2,954,686, 10-4-60, Cl. 66—48.
- Morin, Joseph A., to Textile Development and Machinery Ltd. Pick motion for looms. 2,924,248, 2-9-60, Cl. 139—142.
- Morin, Joseph R.: *See—*  
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- Morin, Louis H., to Coats & Clark, Inc. Apparatus for applying labels to moulded spool bodies. 2,922,192, 1-26-60, Cl. 18—19.
- Morin, Louis H. Non-jamming slider. 2,922,210, 1-26-60, Cl. 24—205.15.
- Morin, Louis H., to Coats & Clark, Inc. Molded plastic spools. 2,922,596, 1-26-60, Cl. 242—118.7.
- Morin, Louis H., to Coats & Clark, Inc. Plastic traveler with reinforce insert. 2,926,485, 3-1-60, Cl. 57—125.
- Morin, Louis H., to Coats & Clark, Inc. Molded plastic spool. 2,926,866, 3-1-60, Cl. 242—118.4.
- Morin, Louis H. Center ledge scoop with widely spaced opposed coupling surfaces. 2,942,317, 6-28-60, Cl. 24—205.13.
- Morin, Louis H., to Coats & Clark, Inc. Plastic traveler with wear resistant roller. 2,942,407, 6-28-60, Cl. 57—125.
- Morin, Louis H., to Coats & Clark, Inc. Rimmed plastic spool. 2,944,757, 7-12-60, Cl. 242—118.4.
- Morin, Louis H. Jam-freeing slider. 2,949,653, 8-23-60, Cl. 24—205.15.
- Morin, Louis H. Reversible action automatic lock slider. 2,953,831, 9-27-60, Cl. 24—205.14.
- Morin, Louis H., to Coats & Clark, Inc. Method of forming and trimming molded cored plastic products. 2,958,904, 11-8-60, Cl. 18—47.5.
- Morin, Louis H., to Coats & Clark, Inc. Molded plastic spool for label attachment. 2,958,972, 11-8-60, Cl. 40—309.
- Morin, Louis H., to Coats & Clark, Inc. Core units for producing moulded spool bodies. 2,961,708, 11-29-60, Cl. 18—45.
- Morin, Louis H., to Coats & Clark, Inc. Method of producing rimmed, labeled, plastic spools. 2,961,715, 11-29-60, Cl. 18—59.
- Morin, Louis H., to Coats & Clark, Inc. Method for securing labels to spool ends. 2,961,717, 11-29-60, Cl. 18—59.
- Morin, Louis H. Method for making bottom stops for cable separable fasteners. 2,961,757, 11-29-60, Cl. 29—408.
- Morin, Louis H., to Coats & Clark, Inc. Plastic traveler with dual wear insert members. 2,961,826, 11-29-60, Cl. 57—125.
- Morin, Louis H. Hold-open hinge. 2,964,781, 12-20-60, Cl. 16—140.
- Morin, Louis H., to Coats & Clark, Inc. Travelers with wear resistant inserts. 2,966,026, 12-27-60, Cl. 57—125.
- Morin, Richard D.: *See—*  
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- Morin, Richard D., J. B. Fishel, and A. E. Bearse, to The Ohio Oil Co. Separation of aromatic hydrocarbons from nonaromatic hydrocarbons utilizing a lactam-water solvent. 2,933,448, 4-19-60, Cl. 208—324.
- Morin, Richard D., J. B. Fishel, and A. E. Bearse, to The Ohio Oil Co. Separation of hydrocarbon mixtures to recover aromatic hydrocarbons utilizing lactone-water solvents. 2,963,429, 12-6-60, Cl. 208—324.
- Morison, Jack R., to Lenkurt Electric Co., Inc. Electrical circuit structure and method for manufacturing same. 2,958,926, 11-8-60, Cl. 29—155.5.
- Morisuye, Masanobu: *See—*  
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- Morita, Yoshinori. Gear pump. 2,965,039, 12-20-60, Cl. 103—126.
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- Moriya, Saburo M. Means for removing para-magnetic particles from fluids. 2,951,586, 9-6-60, Cl. 210—223.
- Moriya, Saburo M. Apparatus for producing mechanically aerated concrete. 2,956,790, 10-18-60, Cl. 259—171.
- Moriya, Saburo M., and Y. Asakawa. Apparatus for the ionization of electrons of flowable materials. 2,928,276, 2-23-60, Cl. 313—153.
- Mork, George W., to Bucyrus-Erie Co. Hydraulically-operated dipper. 2,927,706, 3-8-60, Cl. 214—138.
- Mork, Ralph G.: *See—*  
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- Morkoski, James, to International Harvester Co. Hay crusher with automatic roll positioner. 2,932,143, 4-12-60, Cl. 56—1.
- Morkoski, James, to International Harvester Co. Tooth bar mounting for side delivery rakes. 2,934,883, 5-3-60, Cl. 56—377.



- Morkoski, James, A. G. Evans, and E. A. Harden, to International Harvester Co. Latch means for two-way plow. 2,943,689, 7-5-60, Cl. 172-227.
- Morlan, Erwin A.: *See*—  
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- Morlan, Erwin A., to Hughes Tool Co. Improved cone-type bit. 2,965,184, 12-20-60, Cl. 175-356.
- Morley, Arnold W., A. R. Mortimer, and A. L. Davies, to D. Napier & Son Ltd. Jet propulsion unit comprising an axial flow air compressor. 2,932,944, 4-19-60, Cl. 60-35.6.
- Morley, Clifford D., to American Steel Foundries. Twin barrel friction draft gear. 2,925,924, 2-23-60, Cl. 213-32.
- Morley, Fred H., Jr.: *See*—  
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- Morley, Frederick W. W.: *See*—  
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- Morley, Frederick W. W., to Rolls-Royce Ltd. Jet noise suppressor nozzle. 2,944,624, 7-12-60, Cl. 181-51.
- Morley, Frederick W. W., and K. A. Basford, to Rolls-Royce Ltd. Fuel systems of gas turbine engines. 2,939,522, 6-7-60, Cl. 158-36.4.
- Morley, Frederick W. W., N. H. Kent, and L. J. Pratt, to Rolls-Royce Ltd. Gas-turbine engines with load balancing means. 2,966,296, 12-27-60, Cl. 230-116.
- Morley, Orville A.: *See*—  
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- Morling, Roy W., to International Harvester Co. Flexible vehicle framework and running gear. 2,931,664, 4-5-60, Cl. 280-106.
- Moro, Antonio, to F.lli Boretelli S.p.A. Apparatus for indicating speed on rectilinear scales in tachometers, particularly for self-propelled vehicles. 2,961,230, 11-22-60, Cl. 264-13.
- Moro-Lin, Joseph J., Constant portion liquid dispenser. 2,943,767, 7-5-60, Cl. 222-207.
- Morone, Joseph P., Jr.: *See*—  
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- Morong, William H., Jr., to General Electric Co. Light load device for induction watt-hour meter. 2,947,942, 8-2-60, Cl. 324-137.
- Morosini, Achille, to Imatex Industria Macchine Tessili S.R.L. Device for driving the healds in looms, particularly in tape looms. 2,935,093, 5-3-60, Cl. 139-58.
- Morosini, Achille, to Imatex Industria Macchine Tessili S.R.L. Device for driving the curved needle in looms, especially in tape looms. 2,935,094, 5-3-60, Cl. 139-123.
- Morosan, Harold L., to Reichhold Chemicals, Inc. Epoxy resin and process of making and curing the same. 2,921,049, 1-12-60, Cl. 260-47.
- Moroz, Peter J.: *See*—  
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- Morrah, Ronald E. Aircraft distress unit. 2,959,776, 11-8-60, Cl. 340-366.
- Morrell, Charles E.: *See*—  
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- Wiese, Herbert K., Nelson, and Morrell. 2,951,057.
- Morrell, James N. Fast-acting valve system. 2,954,703, 10-4-60, Cl. 74-422.
- Morrell, James N., and R. G. Hune; said Hune assor. to E-I-M Co., Inc. Anticipatory condition control servosystem. 2,961,586, 11-22-60, Cl. 318-28.
- Morren, Henri, to Union Chimique Belge, S.A. Phenylalkanol derivatives. 2,934,534, 4-26-60, Cl. 260-247.5.
- Morren, Henri, to Union Chimique Belge, Societe Anonyme. Quaternary ammonium-ether compound. 2,963,511, 12-6-60, Cl. 260-567.6.
- Morrill, Charles D., to Goodyear Aircraft Corp. Absolute value comparator. 2,924,709, 2-9-60, Cl. 250-27.
- Morrill, Harry L., Jr. Automobile seat. Re. 24,805, 3-29-60, Cl. 155-182.
- Morrill, Harry L., Jr. Swivel seat attachment. 2,944,591, 7-12-60, Cl. 155-10.
- Morrill, John L.: *See*—  
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- Morrill, Wayne J. Holdback. 2,921,208, 1-12-60, Cl. 310-214.
- Morrill, Wayne J. Resilient motor mounting. 2,928,632, 3-15-60, Cl. 248-26.
- Morrill, Wayne J. Pump motor mounting. 2,928,961, 3-15-60, Cl. 310-91.
- Morrill, Weston, to General Electric Co. Apparatus for continuous process of steel making. 2,962,277, 11-29-60, Cl. 266-36.
- Morris, Alberto J., to Lister-Todd Engineering Corp. Ltd. Dispersing apparatus for control agents. 2,926,455, 3-1-60, Cl. 43-129.
- Morris, Carl S., to Phillips Petroleum Co. Method of regenerating ammoniacal copper solutions utilized to remove carbon monoxide from gases. 2,930,672, 3-29-60, Cl. 23-2.
- Morris, Charles W. Extensible hitch device for trailers. 2,925,287, 2-16-60, Cl. 280-482.
- Morris Clay Products Co.: *See*—  
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- Segur, Asa B., and Esch. 2,955,717.
- Morris, Clifford: *See*—  
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- Morris, Donald W., to The Enterprise Division of General Metals Corp. Locking means for articulating portion of master and link connecting rod system. 2,939,339, 6-7-60, Cl. 74-580.
- Morris, Earl B. Metal mending sleeve with ratchet strap. 2,943,876, 7-5-60, Cl. 287-118.
- Morris, Earl F.: *See*—  
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- Carlyle, Robert L., and Morris. 2,956,018.
- Morris, Edith J.: *See*—  
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- Morris, Frank A., to General Dynamics Corp. Calling line identifying means for telephone systems. 2,928,904, 3-15-60, Cl. 179-18.
- Morris, Frank A., to General Dynamics Corp. Readout control means for signal-operated typewriter. 2,950,801, 8-30-60, Cl. 197-19.
- Morris, Frank A., and R. B. Trousdale, to General Dynamics Corp. Telephone system. 2,921,137, 1-12-60, Cl. 179-18.
- Morris, Gene F.: *See*—  
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- Kundiger, Donald G., and Morris. 2,931,839.
- Kundiger, Donald G., Morris, and Dick. 2,942,031.
- Morris, George T.: *See*—  
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- Morris, George V., to Zenith Radio Corp. Secrecy communication receiver. 2,957,939, 10-25-60, Cl. 178-5.1.
- Morris, Harold B., to Toyad Corp. Improved oil and heat resistant elastomer foamed products and their manufacture. 2,933,768, 4-26-60, Cl. 18-53.
- Morris, Harold H.: *See*—  
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- Morris, Harold H. Foldable gate assembly. 2,961,271, 11-22-60, Cl. 296-50.
- Morris, Harold H., and S. E. Stone, to Whirlpool Corp. Single phase hydraulic separator. 2,931,508, 4-5-60, Cl. 210-512.
- Morris, Harold T., and P. O. Chadd, to North American Philips Co., Inc. Electron discharge tube. 2,939,987, 6-7-60, Cl. 313-250.
- Morris, Harry, Jr., to Robertshaw-Fulton Controls Co. Safety latch. 2,958,238, 11-1-60, Cl. 74-548.
- Morris, Jean M., to E. I. du Pont de Nemours and Co. Light collector. 2,945,958, 7-19-60, Cl. 250-230.
- Morris, John B.: *See*—  
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- Morris, John C., to Sperry Rand Corp. Ribbon vibrator loading means. 2,919,784, 1-5-60, Cl. 197-159.
- Morris, John E.: *See*—  
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- Carrier, Robert M., Jr., and Morris. 2,947,183.
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- Morris, John M., to Chain Belt Co. Composite steel and glass fiber spring. 2,935,177, 5-3-60, Cl. 198-220.
- Morris, John M., to Chain Belt Co. Vibratory mill. 2,952,950, 9-20-60, Cl. 51-164.
- Morris, John U. Wind turbine prime mover and governor. 2,964,111, 12-13-60, Cl. 170-62.
- Morris, John W., to Pittsburgh Plate Glass Co. Pressing of curved laminated glass assemblies. 2,965,527, 12-20-60, Cl. 154-2.73.
- Morris, Joseph R., and F. E. Henning, to Libbey-Owens-Ford Glass Co. Template cutting apparatus for bent sheets of glass or the like. 2,932,087, 4-12-60, Cl. 33-27.
- Morris, Lester, and F. Lombardo, to Amercoat Corp. Method of applying a protective coating to a ferrous metal surface. 2,944,919, 7-12-60, Cl. 117-127.
- Morris, Lester, and F. Lombardo, to Amercoat Corp. Protective silicate coating. 2,952,562, 9-13-60, Cl. 117-62.
- Morris, Lowell H., to Morris Mfg. Co. Article carrying case. 2,962,187, 11-29-60, Cl. 220-60.
- Morris, Marion H., to Sperry-Sun Well Surveying Co. Machining method and apparatus. 2,922,021, 1-19-60, Cl. 219-69.
- Morris, Marion H., to Sperry-Sun Well Surveying Co. Valve structure. 2,927,765, 3-8-60, Cl. 251-4.
- Morris, Merchant U. Oil pump. 2,919,653, 1-5-60, Cl. 103-175.
- Morris Mfg. Co.: *See*—  
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- Morris Motors Ltd.: *See*—  
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- Morris, Peter R.: *See*—  
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- Morris, Philip, Inc.: *See*—  
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- De Voto, Earl W., Garton, and Horner. 2,948,281.
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- Wagner, Edward E. 2,946,516.
- Morris, Richard H., to Griffin & George Ltd. Apparatus for displaying the properties of light. 2,935,797, 5-10-60, Cl. 35-19.
- Morris, Robert H., and C. L. Pillmore, to United States of America, Interior. Exaggeration profile plotter. 2,960,771, 11-22-60, Cl. 33-20.
- Morris, Roger E., to The B. F. Goodrich Co. Alkylated indanols as deterioration retarders for rubbers. 2,948,704, 8-9-60, Cl. 260-45.95.



- Morris, Roger E., to The B. F. Goodrich Co. Rubber compositions and method of making same. 2,966,477, 12-27-60, Cl. 260—45.95.
- Morris, Sol A.: *See*—  
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- Morris, Thomas C., deceased, by E. J. Morris, administratrix, and C. Rossitto, to B. B. Chemical Co. Process of making reinforced rubber products and adhesives. 2,938,876, 5-31-60, Cl. 260—3.
- Morris, Walter E., to J. M. Huber Corp. Method and apparatus for spray drying. 2,921,383, 1-19-60, Cl. 34—57.
- Morris, Walter H.: *See*—  
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- Morris, Walter H., to Beaver Precision Products, Inc. Ball screw mechanism. 2,932,209, 4-12-60, Cl. 74—424.8.
- Morris, Walter H., and P. Anderson, to Beaver Precision Products, Inc. Preloaded ball screw assembly. 2,936,645, 5-17-60, Cl. 74—441.
- Morris, William. Condiment shakers. 2,921,723, 1-19-60, Cl. 222—501.
- Morris, William A.: *See*—  
Kilpinen, Leo T., and Morris. 2,932,110.
- Morris, William B. Lever operated rifle. 2,961,791, 11-29-60, Cl. 42—16.
- Morris, Willis B.: *See*—  
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- Morrish, Leonard M., and L. E. Muller, to General Motors Corp. Muffler. 2,949,165, 8-16-60, Cl. 181—54.
- Morrish, Leonard M., and W. D. Pittsley, to General Motors Corp. Bumper exhaust. 2,951,724, 9-6-60, Cl. 293—69.
- Morrison, Albert R., to Owens-Corning Fiberglas Corp. Apparatus for forming fibrous glass. 2,936,479, 5-17-60, Cl. 18—2.5.
- Morrison, Alvin I.: *See*—  
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- Morrison, Bill. Method and apparatus for plugging pipe lines. 2,929,410, 3-22-60, Cl. 138—97.
- Morrison, Charles A.: *See*—  
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- Morrison, Charles S., and B. M. Silverberg, to Deere & Co. Vehicle seat. 2,932,341, 4-12-60, Cl. 155—9.
- Morrison, Charles S., and B. M. Silverberg, to Deere & Co. Seat. 2,954,071, 9-27-60, Cl. 155—14.
- Morrison, Donne I., and D. F. Armour, to Plax Corp. Tube closing machine. 2,926,474, 3-1-60, Cl. 53—373.
- Morrison, Douglas I., and R. H. Van Wagener, to Sperry Rand Corp. Offsetting feed mechanism. 2,939,702, 6-7-60, Cl. 271—51.
- Morrison, Dwight E.: *See*—  
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- Morrison, Frederick T.: *See*—  
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- Morrison, Harold E., to Whirlpool Corp. Laundry machine with condenser and flush system therefor. 2,941,389, 6-21-60, Cl. 68—20.
- Morrison, James L. D. Phonograph mechanism. 2,932,520, 4-12-60, Cl. 274—10.
- Morrison, James L. D. Automatic phonographs. 2,950,920, 8-30-60, Cl. 274—10.
- Morrison, James L. D., and W. J. Faulkner, to V-M Corp. Braking mechanism for magnetic recorder and player. 2,939,644, 6-7-60, Cl. 242—55.12.
- Morrison, James L. D., and W. J. Faulkner, to V-M Corp. Driving mechanism for magnetic recorder and player. 2,935,879, 5-10-60, Cl. 74—209.
- Morrison, James L. D., and W. J. Faulkner, to V-M Corp. Phonograph pickup assembly. 2,942,890, 6-28-60, Cl. 274—36.
- Morrison, James L. D., and R. L. Van Antwerp, to V-M Corp. Needle selecting mechanism. 2,959,420, 11-8-60, Cl. 274—45.
- Morrison, James L. D., and M. H. Estkowski. Low rumble motor assembly. 2,964,958, 12-20-60, Cl. 74—199.
- Morrison, John A., to Boeing Airplane Co. Nozzle closing jet deflectors. 2,933,890, 4-26-60, Cl. 60—35.54.
- Morrison, John A., to Boeing Airplane Co. Power control mechanism for jet powered aircraft. 2,938,683, 5-31-60, Cl. 244—81.
- Morrison, Montford. Constant-impedance alternating current relay motor-devices. 2,942,163, 6-21-60, Cl. 317—166.
- Morrison, Percival H.: *See*—  
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- Morrison Products, Inc.: *See*—  
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- Morrison, Thompson, and Carr. 2,952,402.
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- Morrison, Stuart M., to Collins Radio Co. On-off and proportional control transistor servosystem. 2,921,247, 1-12-60, Cl. 318—28.
- Morrison, Thomas S.: *See*—  
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- Schmidt, Jacob M., Morrison, and Graf. 2,925,942.
- Morrison, Thompson, and R. A. Carr, to Morrison Products, Inc. Air delivery apparatus. 2,952,402, 9-13-60, Cl. 230—114.
- Morrison, Willard L., to The Union Stock Yard and Transit Co. of Chicago. Method of and apparatus for recovering nitrogen from air by use of a cold boiling liquid such as nitrogen. 2,926,501, 3-1-60, Cl. 62—40.
- Morrison, Willard L., to The Union Stock Yard and Transit Co. of Chicago. Shipper container. 2,928,566, 3-15-60, Cl. 220—9.
- Morrison, Willard L., to Constock Liquid Methane Corp. Method of assembling an insulating lining in irregular generally cylindrical metal tanks. 2,937,967, 5-24-60, Cl. 154—82.
- Morrison, Willard L., to The Union Stock Yard and Transit Co. of Chicago. Method of production, fixation and use of nitrogenous compounds from engine exhaust, for irrigation. 2,936,548, 5-17-60, Cl. 47—58.
- Morrison, Willard L., to Constock Liquid Methane Corp. Apparatus for transporting, storing and using natural gas. 2,940,268, 6-14-60, Cl. 62—7.
- Morrison, Willard L., to Constock Liquid Methane Corp. Method and apparatus for preparing natural gas for liquefaction. 2,941,374, 6-21-60, Cl. 62—23.
- Morrison, Willard L., to Liquefreeze Co., Inc. Method of shipping frozen food. 2,942,428, 6-28-60, Cl. 62—60.
- Morrison, Willard L., to The Union Stock Yard and Transit Co. of Chicago. Production, fixation and use of nitrogenous compounds. 2,947,112, 8-2-60, Cl. 47—58.
- Morrison, Willard L., to Liquefreeze Co., Inc. Method of freezing foodstuffs and the like. 2,948,123, 8-9-60, Cl. 62—64.
- Morrison, Willard L., to Liquefreeze Co., Inc. Apparatus for refrigerating such perishable materials as foodstuffs. 2,951,353, 9-6-60, Cl. 62—375.
- Morrison, Willard L., to Liquefreeze Co., Inc. Insulated receptacle. 2,951,608, 9-6-60, Cl. 220—9.
- Morrison, Willard L., to Liquefreeze Co., Inc. Control for refrigerating system. 2,957,318, 10-25-60, Cl. 62—196.
- Morrison, Willard L., to The Union Stock Yard and Transit Co. Household refrigerator. 2,959,025, 11-8-60, Cl. 62—62.
- Morrison, Willard L., to Liquefreeze Co., Inc. Apparatus for chilling foodstuffs and the like for storage and shipment. 2,959,034, 11-8-60, Cl. 62—376.
- Morrison, Willard L., to Liquefreeze Co., Inc. Method of freezing poultry. 2,964,412, 12-13-60, Cl. 99—194.
- Morrison, William A., to Ingersoll-Rand Co. Rock drill. 2,942,579, 6-28-60, Cl. 121—16.
- Morrison, William A., to Ingersoll-Rand Co. Rock drill. 2,951,467, 9-6-60, Cl. 121—16.
- Morrison, William G., and B. T. Brown, to Phillips Petroleum Co. Ammonia storage and recovery system. 2,964,452, 12-13-60, Cl. 202—39.
- Morris, Francis V.: *See*—  
Meiners, Alfred F., and Morris. 2,962,513.
- Morris, Herbert A., Jr., to Georesearch, Inc. Well apparatus for well formation testing. 2,939,532, 6-7-60, Cl. 166—63.
- Morrissey, Stuart J. Support structure for displays, partitions and the like. 2,930,638, 3-29-60, Cl. 287—54.
- Morrissey, William J.: *See*—  
Broderick, Edward J., and Morrissey. 2,924,636.
- Morrissey, William M., Jr., and J. W. Pulaski, to General Electric Co. Drain system for auto-defrost refrigerator. 2,962,337, 11-29-60, Cl. 312—229.
- Morrissey, Phillips B.: *See*—  
Klebe, Carl H. 2,923,565.
- Morrow, Carroll W.: *See*—  
Kelleher, Kenneth S., and Morrow. 2,935,745.
- Morrow, David, and S. R. Gregory, to Fairchild Engine and Airplane Corp. Extensible ladder. 2,921,645, 1-19-60, Cl. 182—157.
- Morrow, Elmore F., to Avro Aircraft Ltd. Mechanical actuating device. 2,957,354, 10-25-60, Cl. 74—502.
- Morrow, Franklyn P.: *See*—  
Brown, Warren W., and Morrow. 2,953,366.
- Morrow, H. C., to Morrow Industries, Inc. Pressure regulator. 2,966,120, 12-27-60, Cl. 103—17.
- Morrow, Harry C., to United States Steel Corp. Apparatus for spreading a moving web. 2,925,640, 2-23-60, Cl. 26—63.
- Morrow Industries, Inc.: *See*—  
Morrow, H. C. 2,966,120.
- Morrow, Louise R.: *See*—  
Gibbons, John P., and Morrow. 2,931,797.
- Morrow, Oscar M. Receptacle for an animal leash. 2,929,358, 3-22-60, Cl. 119—109.
- Morrow, Walker C. Apparatus for crushing cans. 2,958,273, 11-1-60, Cl. 100—98.
- Morrow, William J., and J. F. McCarthy, to Sperry Rand Corp. Tunable detector mount. 2,964,720, 12-13-60, Cl. 333—97.
- Morsch, Jesse J. Boat trailer. 2,965,252, 12-20-60, Cl. 214—84.
- Morschel, Heinrich: *See*—  
Mott, Friedrich R., Pfirsche, and Morschel. 2,926,139.
- Morse Chain Co.: *See*—  
Bremer, Norman C. 2,934,188.
- Morse, Charles L. Children's marble toy. 2,931,131, 4-5-60, Cl. 46—43.
- Morse Corp.: *See*—  
McKechnie, Ian C. 2,923,365.
- Morse, Donald L. Magnetic nut. 2,962,317, 11-29-60, Cl. 292—251.
- Morse, Edward A.: *See*—  
Ashton, William H., and Morse. 2,964,040.
- Ashton, William H., and Morse. 2,964,041.



- Morse, Edward A., to Personal Products Corp. Applicator pad. 2,932,052, 4-12-60, Cl. 15-209.
- Morse, Eleanor P. Clip for spectacle retainers. 2,941,268, 6-21-60, Cl. 24-73.
- Morse, Elihu N.: See—
- Collazzo, Alfred A., and Morse. 2,950,026.
- Morse, George T. Case molds. 2,934,399, 4-26-60, Cl. 18-47.
- Morse, Glenn B.: See—
- Hammond, Jerry J., and Morse. 2,952,485.
- Morse, Glenn B. Multi-purpose machine tool with variable spindle position. 2,963,057, 12-6-60, Cl. 144-1.
- Morse, Glenn B. Furniture construction. 2,966,202, 12-27-60, Cl. 155-71.
- Morse, Henry E., N. A. Nelson, and C. H. Springer, said Nelson and said Springer assors. to said Morse. Sandwich feed type fountain pen. 2,935,968, 5-10-60, Cl. 120-50.
- Morse, Henry E., N. A. Nelson, and C. H. Springer, to Sapphires Products, Inc. Fountain pen ink reservoir. 2,935,970, 5-10-60, Cl. 120-52.
- Morse Instrument Co., The: See—
- Waner, Donald W. 2,936,405.
- Waner, Donald W. 2,947,191.
- Morse, Jerome G.: See—
- Well, Benjamin G., and Morse. 2,930,745.
- Morse, John B., Jr., to The H. B. Ives Co. Coat and hat hooks. 2,920,854, 1-12-60, Cl. 248-217.
- Morse, John E. Method for the production of a metallic printing member. 2,924,534, 2-9-60, Cl. 117-5.5.
- Morse, John F. Throttle operating cam mechanism for single lever control. 2,919,772, 1-5-60, Cl. 192-96.
- Morse, John F. Throttle and transmission operating mechanism for single lever engine control. 2,935,891, 5-10-60, Cl. 74-472.
- Morse, John F. Throttle operating linkage for single lever control. 2,949,988, 8-23-60, Cl. 192-096.
- Morse, John F. Shifting arm for single lever engine control. 2,960,199, 11-15-60, Cl. 192-98.
- Morse, Louis R.: See—
- May, Edward J., and Morse. 2,936,672.
- Morse, Merce M., to Polaroid Corp. Photographic processes and compositions useful therein. 2,938,792, 5-31-60, Cl. 96-29.
- Morse, Milton. Moisture-proofing device for electrical apparatus. 2,938,070, 5-24-60, Cl. 174-151.
- Morse, Norman L.: See—
- Wiig, Edwin O., and Morse. 2,920,051.
- Morse, Paul M., 50% to T. M. Morse. Compound engine system. 2,966,149, 12-27-60, Cl. 123-51.
- Morse, Reginald A.: See—
- Costa, Joseph L., and Morse. 2,925,879.
- Morse, Richard A., to Pan American Petroleum Corp. Underground combustion process for oil recovery. 2,962,095, 11-29-60, Cl. 166-11.
- Morse, Ronald W., to Beckwith-Arden Inc. Process of forming box toes from an aminoplast compound. 2,958,880, 11-8-60, Cl. 12-146.
- Morse, Stanley H., to Primore Sales, Inc. Charged refrigeration system. 2,934,915, 5-3-60, Cl. 62-299.
- Morse, Thomas M.: See—
- Morse, Paul M. 2,966,149.
- Morser, Calvin S., to American Radiator & Standard Sanitary Corp. Floating seat butterfly valve. 2,934,309, 4-26-60, Cl. 251-159.
- Mortara, Holy, and J. M. Boschert, to Universal Metal Products Corp. Powder dispensing mechanism. 2,956,711, 10-18-60, Cl. 222-170.
- Mortensen, Peter E.: See—
- Carlton, Raymond R., Scott, and Mortensen. 2,964,902.
- Mortenson, Everett N.: See—
- Stassfort, Derrick H., Mortenson, and Sanders. 2,965,468.
- Mortenson, Hans B. and N. E. Auxiliary storage compartment for vehicles. 2,934,374, 4-26-60, Cl. 296-37.
- Mortenson, Nina E.: See—
- Mortenson, Hans B. and N. E. 2,934,374.
- Mortenson, Victor A., and D. E. Weston, to Allis-Chalmers Mfg. Co. Chimney cooler for air circuit breakers. 2,942,086, 6-21-60, Cl. 200-147.
- Mortenson, Victor A., D. E. Weston, and M. J. Reilly, to Allis-Chalmers Mfg. Co. Arc chute having cooling and deionizing elements arranged at the exhaust end. 2,947,839, 8-2-60, Cl. 200-147.
- Morthland, Glenn A. Laminated sheet material. 2,962,405, 11-29-60, Cl. 154-51.
- Mortimer, Alfred R.: See—
- Morley, Arnold W., Mortimer, and Davies. 2,932,944.
- Mortimer, Frank R., to Dunlop Rubber Co. Ltd. Anti-slide device for vehicle wheels. 2,964,048, 12-13-60, Cl. 137-48.
- Mortimer, George A., to Monsanto Chemical Co. Polymerization of ethylene. 2,920,067, 1-5-60, Cl. 260-94.9.
- Mortimer, Robert J.: See—
- Johnson, Robert W., Jr., Mortimer, and Ashton. 2,964,039.
- Mortimore, Henry: See—
- Hurt, Norman A., and Mortimore. 2,940,829.
- Mortley, Wilfrid S., to Marconi's Wireless Telegraph Co. Ltd. Ultrasonic delay devices. 2,922,966, 1-26-60, Cl. 333-30.
- Morton Chemical Co.: See—
- Galat, Alexander. 2,952,702.
- Langhals, Vernon L., and Broussard. 2,950,953.
- Morton, David C.: See—
- Packman, Percival J., and Morton. 2,925,926.
- Morton, George A., to International Standard Electric Corp. Mounting of thermionic cathodes. 2,928,978, 3-15-60, Cl. 313-343.
- Morton, George T.: See—
- Stoddard, Herbert A., Morton, and Howison. 2,957,228.
- Morton, Glen R. Flowable material separator for the vacuum system of vacuum casting equipment. 2,958,105, 11-1-60, Cl. 22-73.
- Morton, Henry C.: See—
- Runtun, Leslie A., and Morton. 2,953,418.
- Morton, Henry C., and E. Washken, to The Russell Mfg. Co. Friction composition. 2,922,221, 1-26-60, Cl. 29-182.5.
- Morton, Henry C., and A. Mann, to The Russell Mfg. Co. Sealing strip. 2,923,983, 2-9-60, Cl. 20-69.
- Morton, Ian D.: See—
- May, Charles G., and Morton. 2,934,436.
- Morton, Ian D., P. Akroyd, and C. G. May, to Lever Brothers Co. Flavoring substances and their preparation. 2,934,437, 4-26-60, Cl. 99-140.
- Morton, Kenneth L., to Western Electric Co., Inc. Test set for measuring shunt delay times of telephone dials. 2,935,679, 5-3-60, Cl. 324-28.
- Morton, Lester C.: See—
- Efford, John T., and Morton. 2,951,646.
- Morton Mfg. Co.: See—
- Motter, Charles S. 2,954,638.
- Morton, Maurice, and M. A. Deisz, to United States of America, Army. Sulfur-containing organosiloxane polymers, and processes for making the same. 2,960,492, 11-15-60, Cl. 260-46.5.
- Morton Packing Co.: See—
- Welch, Parker C. 2,924,184.
- Morton, Richard F. Fishing apparatus. 2,924,039, 2-9-60, Cl. 43-43.11.
- Morton, Robert D., and E. G. Grohoski, to The Hartford Special Machinery Co. Hydro-pneumatic power mechanism. 2,962,001, 11-29-60, Cl. 121-45.
- Morton Salt Co.: See—
- Albani, Lido. 2,940,645.
- Baugh, Charles, and Patton. 2,955,956.
- Diamond, Horace W. 2,965,444.
- Hassler, Winfield S. 2,939,617.
- Miller, Howard C. 2,947,603.
- O'Connor, Donal J. 2,956,710.
- Mortorelli, Alfred V., to Ads Corp. Hose clamp. 2,957,217, 10-25-60, Cl. 24-27.
- Morwal Products Corp.: See—
- Uebelhoer, Walter. 2,931,331.
- Morway, Arnold J.: See—
- FitzGerald, William P., Gleason, Morway, and Matuszak. 2,956,952.
- Wasson, Jones I., and Morway. 2,947,699.
- Morway, Arnold J., to Esso Research and Engineering Co. Twister ring lubricant. 2,922,762, 1-26-60, Cl. 252-35.
- Morway, Arnold J., to Esso Research and Engineering Co. Lubricating compositions containing mixed salts. 2,923,682, 2-2-60, Cl. 252-32.7.
- Morway, Arnold J., to Esso Research and Engineering Co. Oil dispersions of calcium acetate hydrates. 2,927,892, 3-8-60, Cl. 252-39.
- Morway, Arnold J., to Esso Research and Engineering Co. Lubricating oil compositions containing stabilized salt suspension. 2,929,783, 3-22-60, Cl. 252-40.5.
- Morway, Arnold J., to Esso Research and Engineering Co. Lubricating grease composition containing a metal salt of a low molecular weight carboxylic acid and polyethylene. 2,935,477, 5-3-60, Cl. 252-39.
- Morway, Arnold J., to Esso Research and Engineering Co. Lubricants containing stabilized dispersions of fatty acid salts. 2,940,932, 6-14-60, Cl. 252-40.5.
- Morway, Arnold J., to Esso Research and Engineering Co. Lubricants containing metal carboxylate and metal phosphate. 2,964,475, 12-13-60, Cl. 252-18.
- Morway, Arnold J., and J. H. Bartlett, to Esso Research and Engineering Co. Lubricating compositions containing oxime derivatives. 2,929,734, 3-22-60, Cl. 252-40.7.
- Morway, Arnold J., J. H. Bartlett, A. H. Gleason, and S. B. Lippincott, to Esso Research and Engineering Co. Grease compositions containing salts of carboxylic copolymers. 2,929,785, 3-22-60, Cl. 252-41.
- Morway, Arnold J., H. F. Lipinski, and H. T. Shearer, Jr., to Esso Research and Engineering Co. Lubricating compositions containing salts of monocarboxylic acids and free alkalinity. 2,930,757, 3-29-60, Cl. 252-40.7.
- Morway, Arnold J., and E. W. Ball, to Esso Research and Engineering Co. Heavy duty gear lubricant. 2,937,144, 5-17-60, Cl. 252-33.3.
- Morway, Arnold J., and W. E. Waddey, to Esso Research and Engineering Co. Lubricants containing fatty acid esters of saccharides. 2,944,024, 7-5-60, Cl. 252-40.5.
- Morway, Arnold J., and J. H. Bartlett, to Esso Research and Engineering Co. Alkali fusion products of cyclohexenones in lubricant manufacture. 2,962,441, 11-29-60, Cl. 252-39.
- Mory, Rudolf, to Ciba Ltd. New acid amide azo-pigment-dye-stuffs. 2,932,637, 4-12-60, Cl. 260-188.
- Mosby, William L.: See—
- Berry, William L., and Mosby. 2,962,494.



- Mosby, William L., and W. L. Berry, to American Cyanamid Co. Compounds derived from halonitroanthraquinones. 2,938,904, 5-31-60, Cl. 260-272.
- Moscirp, Arthur D., to Sun Oil Co. Preventing deposition of wax on equipment during dewaxing by utilizing smooth surface equipment and a surface-active agent. 2,961,397, 11-22-60, Cl. 208-33.
- Mosegaard, Marius, to Carl Allers Etablissement A/S. Printing machines. 2,961,953, 11-29-60, Cl. 101-425.
- Moseley, F. L., Co.: See—  
Kennedy, Charles J. 2,922,994.  
Kennedy, Charles J. 2,945,997.  
Moseley, Francis L. 2,935,368.  
Moseley, Francis L. 2,944,866.  
Moseley, Francis L. 2,963,684.  
Moseley, Francis L., and Holdo. 2,958,027.
- Moseley, Francis L., to F. L. Moseley Co. Variable range graphical recorder. 2,935,368, 5-3-60, Cl. 346-32.
- Moseley, Francis L., to F. L. Moseley Co. Graphical recorders. 2,944,866, 7-12-60, Cl. 346-8.
- Moseley, Francis L., to F. L. Moseley Co. Electrical signal generating apparatus. 2,963,684, 12-6-60, Cl. 340-166.
- Moseley, Francis L., and A. O. Holdo, to F. L. Moseley Co. Velocity servo for graphical recorder time base generator. 2,958,027, 10-25-60, Cl. 318-305.
- Moseley, James T. W., to Holley Carburetor Co. Carburetor froth-control device. 2,921,775, 1-19-60, Cl. 261-72.
- Moseley, John, to Compoflex Co. Ltd. Flexible hose. 2,943,644, 7-5-60, Cl. 138-56.
- Moseley, John W. Gas fired tobacco curers. 2,943,850, 7-5-60, Cl. 263-19.
- Moseley, Kemper N. Tobacco hogsheaf. 2,946,473, 7-26-60, Cl. 217-44.
- Mosely, Donald E., to Bitco Inc. Lumber stacker. 2,928,559, 3-15-60, Cl. 214-6.
- Moser, August W. Pastry tube straightening and assembling apparatus. 2,957,510, 10-25-60, Cl. 153-32.
- Moser, Carl M., to John C. Virden Co. Channel biased ballast holddown. 2,925,982, 2-23-60, Cl. 248-361.
- Moser, Carl M., to John C. Virden Co. Cover fastener. 2,930,459, 3-29-60, Cl. 189-88.
- Moser, Carl M., to John C. Virden Co. Fastener and closure device. 2,934,184, 4-26-60, Cl. 189-36.
- Moser, Charles E.: See—  
Castelli, Charles, Moser, and Ashton. 2,939,610.  
Cook, Clayton M., Moser, and Ashton. 2,923,664.
- Moser, Charles N.: See—  
Gross, Reinhold J., and Moser. 2,942,815.
- Moser, Eduard, and A. Bolleter, to Ciba Ltd. Process for printing textiles and printing preparations therefor. 2,931,699, 4-5-60, Cl. 8-71.
- Moser, Edward I., to Kingbach Tool Co., Inc. Pressure actuated valve. 2,955,612, 10-11-60, Cl. 137-489.5.
- Moser, Erwin, to Aluminum-Industrie-Aktien-Gesellschaft. Method of recovering fluorine from waste gases. 2,943,914, 7-5-60, Cl. 23-88.
- Moser, Frank H., to Standard Ultramarine & Color Co. Phthalocyanine pigment. 2,965,511, 12-20-60, Cl. 106-288.
- Moser, Frank H., to Standard Ultramarine & Color Co. Aluminum benzoates. 2,965,662, 12-20-60, Cl. 260-448.
- Moser, Frank T., to Kloss Mfg. & Supply Co. Apparatus for making ice cream sandwiches. 2,927,542, 3-8-60, Cl. 107-1.
- Moser, Gerhard, to VEB Fettchemie. Oxidation process. 2,922,698, 1-26-60, Cl. 23-126.
- Moser-Glaser & Co. A.G.: See—  
Imhof, Alfred. 2,924,264.  
Imhof, Alfred. 2,945,912.
- Moser, Henry W., to Samuel M. Langston Co. Web winding machine. 2,960,277, 11-15-60, Cl. 242-66.
- Moser, Henry W., and W. H. Moore, to Samuel M. Langston Co. Expanding chuck mechanism. 2,949,313, 8-16-60, Cl. 279-2.
- Moser, Henry W., and G. W. McGirr, to S. M. Langston Co. Continuous running machines for producing box blanks. 2,950,658, 8-30-60, Cl. 93-58.
- Moser, John F., Jr., to Esso Research and Engineering Co. Fluid coking to produce a carbon black feed stock. 2,937,136, Cl. 208-100.
- Moser, John F., Jr., and F. B. Johnson, to Esso Research and Engineering Co. Fluid coking residual oil. 2,927,073, 3-1-60, Cl. 208-127.
- Moser Paper Co.: See—  
Strickland, Daniel H. 2,942,323.
- Moser, Paul, to W. Lindemann. Baling presses. 2,954,730, 10-4-60, Cl. 100-215.
- Moser, Robert C., to B. C., J. B., B. L., and B. W. Skinner, and V. S. Miles, d.b.a. S-M Tappet Sales. Length compensating device. 2,933,074, 4-19-60, Cl. 123-90.
- Moses, Adrian J., to Minneapolis-Honeywell Regulator Co. Motor control apparatus. 2,962,648, 11-29-60, Cl. 318-489.
- Moses, Alexander K., Jr.: See—  
Dunning, John W., Moses, and Terstage. 2,943,012.
- Moses, David M.: See—  
Walkup, Hunter H., and Moses. 2,963,645.
- Moses, Forrest R.: See—  
Heaton, Walter A., and Moses. 2,959,270.
- Moses, Louis W. Strategic war game apparatus. 2,964,323, 12-13-60, Cl. 273-134.
- Mosher, Frederick W., to Seal-Less Strapping Ltd. Mechanism for tying packages and the like. 2,925,698, 2-23-60, Cl. 53-198.
- Mosgard-Jensen, Jens, to General Electric Co. Method of making heat exchange structures. 2,963,779, 12-13-60, Cl. 29-157.3.
- Mosher, Abbott W., to Ingersoll-Rand Co. Rotation and impact tool. 2,929,134, 3-22-60, Cl. 29-240.
- Mosher, Kenneth L., to The Mosher Mfg. Co. Opening and locking brace for canopy type doors. 2,936,830, 5-17-60, Cl. 160-138.
- Mosher, James K., to Schulz Tool and Mfg. Co. Transfer equipment for volatile liquids. 2,929,417, 3-22-60, Cl. 141-221.
- Mosher, James K., to Schulz Tool and Mfg. Co. Fluid filtering device. 2,931,506, 4-5-60, Cl. 210-436.
- Mosher, James K., to Schulz Tool and Mfg. Co. In-flight aircraft refueling apparatus. 2,946,605, 7-26-60, Cl. 284-18.
- Mosher, James R., to Bean Rubber Mfg. Co. Lubricator for air-operated tool. 2,925,148, 2-16-60, Cl. 184-55.
- Mosher Mfg. Co., The: See—  
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- Mosher, Walter W., Jr., A. R. Goldammer, and D. A. Long, to Precision Dynamics Corp. Adjustable bracelet for identification purposes. 2,954,621, 10-4-60, Cl. 40-21.
- Moshier, Will R.: See—  
Kramer, James H., and Moshier. 2,954,141.
- Moshy, Raymond J.: See—  
Hennessy, Douglas J., and Moshy. 2,952,694.
- Mosier, Charles F., Jr., and R. L. Betts, to Esso Research and Engineering Co. Treating copper chloride sweetening catalyst with tertiary butyl catechol. 2,956,012, 10-11-60, Cl. 208-195.
- Mosier, John H. Portable housing structure. 2,924,829, 2-16-60, Cl. 4-172.
- Mosinski, Erich, to G. M. Pfaff A.G. Rotatable thread take-up device for sewing machines. 2,920,591, 1-12-60, Cl. 112-248.
- Moskovitz, Milton A.,  $\frac{1}{2}$  to H. Frankel. Ball joint for independent steerable wheel suspensions. 2,924,469, 2-9-60, Cl. 287-90.
- Moskovitz, Milton A.,  $\frac{1}{2}$  to H. Frankel. Ball joint assembly. 2,934,365, 4-26-60, Cl. 287-90.
- Moskovitz, Milton A.,  $\frac{1}{2}$  to H. Frankel. Pre-assembled ball and socket joint. 2,934,366, 4-26-60, Cl. 287-90.
- Moskovitz, Milton A.,  $\frac{1}{2}$  to H. Frankel. Ball joint assembly bearing construction. 2,936,188, 5-10-60, Cl. 287-90.
- Moskovitz, Milton A., and J. E. Collier; said Collier assor. to Chrysler Corp. and said Moskovitz assor. of  $\frac{1}{2}$  to H. Frankel. Ball-joint suspension means for steerable wheels. 2,953,401, 9-20-60, Cl. 287-90.
- Moskowitz, Arthur, to North American Aviation, Inc. Double-acting actuator means. 2,932,281, 4-12-60, Cl. 121-38.
- Moskowitz, Arthur, to North American Aviation, Inc. Liquid oxygen conversion system. 2,945,354, 7-19-60, Cl. 62-51.
- Moskowitz, Lester R., to Zeta-Northern Co. Magnetic sign for vehicles and the like. 2,957,261, 10-25-60, Cl. 40-129.
- Mosler Research Products, Inc.: See—  
Schmidt, Kenneth H. 2,943,304.  
Schmidt, Kenneth H. 2,956,269.
- Mosler Safe Co., The: See—  
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- Mosley, Howard L. Lubricating accessory. 2,941,622, 6-21-60, Cl. 184-103.
- Mosley, Neal J., to Callery Chemical Co. Preparation of alkali metal hydrides. 2,946,662, 7-26-60, Cl. 23-204.
- Mosny, Martin, and V. Pavelka. Method for controlling the travel of welding machine used for electrical arc welding into molten slag. 2,945,116, 7-12-60, Cl. 219-73.
- Moss, Charles W.: See—  
Rupert, Samuel J. 2,948,287.
- Moss, Charles W., and H. Stribley. Folding portable shelter. 2,953,145, 9-20-60, Cl. 135-2.
- Moss, Edward M.: See—  
Root, Charles W., and Moss. 2,966,568.
- Moss, Eugene C. Phase measuring circuit. 2,923,884, 2-2-60, Cl. 324-87.
- Moss, Frank E., and E. A. Messori. Waitresses money changing tray. 2,959,274, 11-8-60, Cl. 206-81.
- Moss, Hoyle G., and J. D. Towery, to Botany Industries, Inc. Lint cotton cleaner embodying a lump roll and carding cylinder. 2,952,881, 9-20-60, Cl. 19-67.
- Moss, Rodney D., to The Dow Chemical Co. Piperazine phosphonic acid compounds. 2,959,590, 11-8-60, Cl. 260-268.
- Moss, Roscoe, Co.: See—  
Baker, Harold U. 2,956,147.
- Moss, Walter E.: See—  
McGuine, Thomas H., and Moss. 2,952,696.
- Mossberg, Harry J., Sr., to Modern American Products, Inc. Dispensing apparatus. 2,940,483, 6-14-60, Cl. 141-105.
- Mossberg, O. F., & Sons, Inc.: See—  
Benson, Carl H. 2,926,446.
- Mosse, Richard W. E., and D. C. Baker, to The Metal Box Co. Ltd. Cartons. 2,959,336, 11-8-60, Cl. 229-14.
- Mossey, Joseph L., to The Bendix Corp. Friction device. 2,950,783, 8-30-60, Cl. 188-70.
- Mossop, Isaac A., P. B. Fay, and G. Packman, to The United Kingdom Atomic Energy Authority. Apparatus for detecting radioactive particle emission. 2,945,955, 7-19-60, Cl. 250-71.5.



- Most, Norton S.: *See*—  
Jaycox, Richard L., and Most. 2,965,846.
- Mostardini, Rino, and A. Alberti. Process for obtaining high melting ethylene polymers. 2,940,964, 6-14-60, Cl. 260-94.9.
- Mostello, Anthony J.: *See*—  
Daniels, Rupert S., and Mostello. 2,959,474.
- Moster, Fritz. Hairdresser's chairs for toy figures, particularly dolls. 2,920,683, 1-12-60, Cl. 155-2.
- Mostovych, Nicholas, and W. A. Mitchell, Jr., to Reynolds Metals Co. Decorative aluminum surface. 2,941,930, 6-21-60, Cl. 204-29.
- Mostovych, Nicholas, and A. Cybriwsky, to Reynolds Metals Co. Apparatus for anodizing aluminum. 2,951,025, 8-30-60, Cl. 204-211.
- Mosure, Garrett E., to Westinghouse Electric Corp. Turbine pump. 2,940,394, 6-14-60, Cl. 103-2.
- Motch & Merryweather Machinery Co., The: *See*—  
Forster, Peter E., and Pirman. 2,965,208.
- Mote, Lewis C. Method of and means for prolonging the life of pneumatic tires. 2,948,321, 8-9-60, Cl. 152-330.
- Mother's Cake & Cookie Co.: *See*—  
Wickstrom, John A. 2,934,252.
- Mothiron, Claude, to North American Philips Co., Inc. Television receiver. 2,935,639, 5-3-60, Cl. 315-1.
- Motion Picture Research Council, Inc.: *See*—  
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Vlahos, Petro. 2,933,010.
- Motor Industry Research Association, The: *See*—  
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- Motor-Mower, Inc.: *See*—  
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- Motorola, Inc.: *See*—  
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Andres, Raymond J. 2,962,394.  
Birkenes, Bernhard. 2,929,967.  
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Brewster, Franklin C., and Thompson. 2,933,945.  
Byles, Theodore A. 2,946,014.  
Byles, Theodore A., and Birkenes. 2,946,015.  
Carr, William F. 2,945,169.  
Gates, Sheldon W. 2,935,682.  
Geppert, Donovan V., and Corn. 2,946,936.  
Cohan, Henry. 2,953,094.  
Corbin, Robert B. Re. 24,815.  
Crow, Robert P. 2,932,794.  
Errichiello, Dominic R., and Worobey. 2,963,577.  
Fibranz, Floyd B. 2,929,926.  
Firestone, William L. 2,925,562.  
Firestone, William L. 2,925,563.  
Frihart, Henry N. 2,920,197.  
Grace, Billy J. 2,959,644.  
Graziano, Victor. 2,922,841.  
Graziano, Victor, and Lincicome. 2,949,605.  
Handler, Joseph E. 2,958,050.  
Hill, Frederick P. 2,949,532.  
Jones, Donald R. 2,924,705.  
Kirch, James E., and Minsbuhl. 2,938,202.  
Korn, Hugo, Jr., and Crow. 2,940,051.  
Kraft, Richard A. 2,932,766.  
Kraft, Richard A. 2,938,951.  
Kraft, Richard A. 2,948,776.  
Kroger, Marlin G. 2,927,958.  
Kroger, Marlin G. 2,954,426.  
Lyon, Charles E., Jr. 2,933,927.  
Macdonald, Angus A. 2,925,561.  
Macdonald, Angus A. 2,947,859.  
Magnuski, Henry. 2,959,673.  
Manning, Robert C. 2,961,609.  
Maynard, Fred B., and Steele. 2,947,925.  
Mohler, Robert D. 2,932,783.  
Nolan, William J., Jr. 2,937,299.  
Pardue, Turner E. 2,947,923.  
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Parker, Norman W. Re. 24,864.  
Parnet, Bernard S., and Krakora. 2,947,812.  
Parnet, Bernard S., and Tyzack. 2,920,198.  
Querfurth, Wilhelm M. W. 2,938,974.  
Race, William J. 2,953,927.  
Rabeck, Kenneth J. 2,930,241.  
Robillard, Jean J. A. 2,937,562.  
Schlesinger, Kurt. 2,935,643.  
Schlesinger, Kurt. 2,937,312.  
Schlesinger, Kurt. 2,946,960.  
Schultz, Curtis J. 2,968,585.  
Stevens, Norman B., and Hart. 2,922,066.  
Taylor, Douglas W. 2,944,174.  
Taylor, Douglas W. 2,944,175.  
Thompson, Reynald E. 2,933,946.  
Thompson, Reynald E. 2,933,948.  
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- Motor Research Corp.: *See*—  
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- Motor Wheel Corp.: *See*—  
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- Mott, Carl W., to Mott Corp. Pulley. 2,944,434, 7-12-60, Cl. 74-230.17.
- Mott Corp.: *See*—  
Mott, Carl W. 2,944,434.
- Mott, Donald L.: *See*—  
Mott, Howard V. S. 2,928,110.
- Mott, Donald V. S.: *See*—  
Mott, Howard V. S. 2,928,110.
- Mott, Friedrich: *See*—  
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- Mott, Friedrich R., J. Pürschke, and H. Morschel, to Farbenfabriken Bayer Aktiengesellschaft. Lubricants for refrigerating systems. 2,926,139, 2-23-60, Cl. 252-54.6.
- Mott, George E.: *See*—  
Dessauer, John H., Gundlach, and Mott. 2,965,482.
- Mott, George R., to Haloid Xerox Inc. Stencil making. 2,949,848, 8-23-60, Cl. 101-128.3.
- Mott, Herbert C.: *See*—  
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Mott, Howard V. S. 2,928,110.
- Mott, Howard V. S., to H. C. and D. L. Mott, identical with D. V. S. and H. L. Mott, identical with H. V. S. Mott, Jr. Shoe fitting. 2,928,110, 3-15-60, Cl. 12-142.
- Mott, Howard V. S., Jr.: *See*—  
Mott, Howard V. S. 2,928,110.
- Mott, Lawrence F., to H. M. Hobson, Ltd. Apparatus for indicating the density of liquid flowing through a pipe. 2,923,159, 2-2-60, Cl. 73-452.
- Mott, Lawrence F., to H. M. Hobson Ltd. Apparatus for indicating the density of liquid flowing through a pipe. 2,936,608, 5-17-60, Cl. 73-32.
- Mott, Milton. Fishing line depth meter. 2,960,773, 11-22-60, Cl. 33-134.
- Mott, Norman S., to Cooper Alloy Corp. Stainless steel alloy of high hardness. 2,920,954, 1-12-60, Cl. 75-128.
- Mott, Richard C., to Minneapolis-Honeywell Regulator Co. Pressure regulating valve. 2,946,344, 7-26-60, Cl. 137-484.8.
- Mott, Willis F. Vibratory body stabilizer table. 2,941,526, 6-21-60, Cl. 128-24.1.
- Motte, Clifford E.: *See*—  
Varnadore, Shafter, and Motte. 2,959,266.
- Motte, Walter S., and R. A. Wallace, to Burroughs Corp. Front feed mechanism for accounting machines. 2,963,138, 12-6-60, Cl. 197-128.
- Motter, Charles S., to Morton Mfg. Co. Upright locking socket. 2,954,638, 10-4-60, Cl. 45-137.
- Motter, Theodore J., to L.O.F. Glass Fibers Co. Identification of glass fiber mats. 2,920,202, 1-5-60, Cl. 250-71.
- Mottet, Arthur L.: *See*—  
Heppenstall, Thomas E., and Mottet. 2,919,475.
- Mott-Smith, Lewis M., to United States of America, Navy. Deferred action type battery. 2,921,974, 1-19-60, Cl. 136-90.
- Motyka, John J.: *See*—  
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- Motz, Carl H., and K. J. Davis, to National Broach & Machine Co. Gear testing apparatus. 2,924,884, 2-16-60, Cl. 33-179.5.
- Motz, Jürgen, F. Kaess, and E. Vogel, to Metallgesellschaft Aktiengesellschaft, and Suddesche Kalkstickstoff-Werke Aktiengesellschaft. Process for the introduction of rare earths in addition alloys. 2,926,080, 2-23-60, Cl. 75-27.
- Moudry, Marie K.: *See*—  
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- Moudry, Zdenek V., and M. K. 2,922,737.
- Moudry, Zdenek V., to United States Movidyn Corp. Process of producing oligodynamic metal biocides. 2,927,052, 3-1-60, Cl. 167-14.
- Moudry, Zdenek V., and M. K. Methods for producing colloidal oligodynamic metal compositions. 2,922,737, 1-26-60, Cl. 167-14.
- Mouer, Earl W., and G. M. Snyder, to Landis Tool Co. Magnetic chuck. 2,922,933, 1-26-60, Cl. 317-159.
- Moulded Products, Inc.: *See*—  
Horgan, William H. 2,937,691.  
Horgan, William H. 2,953,375.
- Moule, Rex E. Apparatus for producing articles such as skinless frankfurters. 2,933,758, 4-26-60, Cl. 17-32.
- Moule, Rex E., and L. E. Fairbanks, to Formsprag Co. Centrifugal clutch. 2,965,206, 12-20-60, Cl. 192-105.
- Moulinage et Retarderie de Chavanaz: *See*—  
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- Moulthrop, Benjamin L., to Socony Mobil Oil Co., Inc. Elimination of oil plume within regeneration system. 2,941,955, 6-21-60, Cl. 252-418.
- Moulton, Alexander E., to Moulton Developments Ltd. Vehicle suspension system having differential interaction between front and rear wheels. 2,966,366, 12-27-60, Cl. 280-104.
- Moulton, Arthur B., and J. A. Webb, to General Dynamics Corp. Frequency measuring apparatus. 2,933,682, 4-19-60, Cl. 324-79.
- Moulton, Clifford H., to Tektronix, Inc. Electron beam deflection structure. 2,922,074, 1-19-60, Cl. 315-23.



- Moulton Developments Ltd.: *See*—  
Moulton, Alexander E. 2,966,366.
- Moulton, Joseph D., to The Electric Storage Battery Co. Sintered plate for alkaline storage batteries. 2,964,582, 12-13-60, Cl. 136-36.
- Moulton, Karl J.: *See*—  
Findley, Thomas W., and Moulton. 2,952,527.
- Moulton, Lloyd J., R. L. Dangler, and J. H. Eichler, to Curtiss-Wright Corp. Parking means for reciprocating, fluid operated motors. 2,935,045, 5-3-60, Cl. 121-1.
- Moulton, Lloyd J., and R. L. Dangler, to Curtiss-Wright Corp. Hydraulic actuator systems for reciprocating fluid operated motors. 2,935,050, 5-3-60, Cl. 121-150.
- Moulton, Rexford G.: *See*—  
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- Moulton, Richard W., to The Institutum Divi Thomae Foundation. Preparation and packing of citrus fruit products. 2,930,706, 3-29-60, Cl. 99-186.
- Moulton, Robert J.: *See*—  
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Francis, Frederick G., and Moulton. 2,961,932.
- Moultrie, William, to Imperial Chemical Industries Ltd. Mixing machines. 2,957,681, 10-25-60, Cl. 259-105.
- Mounce, Whitman D., and A. Barry, to Jersey Production Research Co. Inflating pump for oil well packers. 2,942,669, 6-28-60, Cl. 166-187.
- Mounfield, Donald: *See*—  
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- Mount, Dick W.: *See*—  
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- Mount, John W.: *See*—  
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- Mount, Wadsworth W. Snap shackle. 2,923,045, 2-2-60, Cl. 24-235.
- Mountain Copper Co., Ltd., The: *See*—  
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- Mountain, Joseph A.: *See*—  
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- Mounteer, Carlyle A., H. M. Riegelman, Jr., and A. C. Hughes, Jr., to Giannini Controls Corp. Pressure responsive instrument. 2,948,887, 8-9-60, Cl. 340-345.
- Mount Hope Machinery Co.: *See*—  
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Robertson, John D., and Basic. 2,960,749.
- Mountjoy, Garrard, to United States of America, Navy. Nylon timer. 2,934,016, 4-26-60, Cl. 102-70.2.
- Mountjoy, Homer: *See*—  
Parker, Norman H., and Mountjoy. 2,965,364.
- Mourier, Georges, to Compagnie Generale de Telegraphie Sans Fil. Ultra high frequency discharge tubes. 2,954,505, 9-27-60, Cl. 315-39.3.
- Mourier, Georges, and O. Dohler, to Compagnie Generale de Telegraphie Sans Fil. Traveling wave tube oscillators. 2,951,173, 8-30-60, Cl. 315-3.5.
- Mourier, Georges, and O. Dohler, to Compagnie Generale de Telegraphie Sans Fil. Travelling wave tubes. 2,951,174, 8-30-60, Cl. 315-3.5.
- Mouser, Teddie C., Sr. Sprinkler apparatus. 2,927,646, 3-8-60, Cl. 169-37.
- Mousset, Andre: *See*—  
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- Moverley, Stuart: *See*—  
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- Movsovic, David J.: *See*—  
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- Mowat, John H.: *See*—  
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- Mowrey, William L., 1/2 to P. R. Bonds, Jr. Combination torque and recoil compensator and barrel bushing for guns. 2,935,000, 5-3-60, Cl. 89-14.
- Mowry, Charles E. Planetary ellipsograph. 2,961,769, 11-29-60, Cl. 33-30.
- Mowry, Lorenz J.: *See*—  
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- Moxley, Steve D., to Continental Oil Co. Magnetic data read-out device and method. 2,921,294, 1-12-60, Cl. 340-174.
- Moxley, William N. Foot massage apparatus. 2,935,064, 5-3-60, Cl. 128-33.
- Moy, John A. E., and A. A. Yeo, to The British Petroleum Co. Ltd. Stabilization of lubricating oils in the presence of a nickel-alumina catalyst and hydrogen. 2,946,743, 7-26-60, Cl. 208-264.
- Moye, Benjamin H. Push rod for internal combustion engine. 2,927,566, 3-8-60, Cl. 123-90.
- Moyer, Austin S. Mounting of gymnastic equipment. 2,944,815, 7-12-60, Cl. 272-60.
- Moyer, Clyde, to G. Maddox, and A. H. Ellis. Portable hydraulic bailing machine. 2,932,244, 4-12-60, Cl. 100-39.
- Moyer, David F., to General Motors Corp. Circuit breaker. 2,929,904, 3-22-60, Cl. 200-168.
- Moyer, David F., to General Motors Corp. Method of assembling a circuit breaker. 2,944,324, 7-12-60, Cl. 29-155.5.
- Moyer, David F. Switch assembly. 2,945,106, 7-12-60, Cl. 200-104.
- Moyer, Donald W., to International Harvester Co. Hydraulic power transmitting mechanisms. 2,939,288, 6-7-60, Cl. 60-97.
- Moyer, Elmo E., and R. J. Klein, to Acme Electric Corp. Magnetic amplifier regulator circuit. 2,955,247, 10-4-60, Cl. 321-18.
- Moyer, Elton S., to General Motors Corp. Hydraulic actuating system. 2,958,193, 11-1-60, Cl. 60-54.6.
- Moyer, Frances L.: *See*—  
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- Moyer, Frederick D., and I. L. Wissmiller, to Chicago Bridge and Iron Co. Electrically insulated floating roof. 2,936,925, 5-17-60, Cl. 220-26.
- Moyer, Golden A., to Phillips Petroleum Co. Separation column control. 2,938,865, 5-31-60, Cl. 208-341.
- Moyer, Golden A., to Phillips Petroleum Co. Gas intake silencer. 2,942,683, 6-28-60, Cl. 181-42.
- Moyer, Henry F.: *See*—  
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- Moyer, James D., to Textile Machine Works. Yarn severing means for knitting machines. 2,924,958, 2-16-60, Cl. 66-140.
- Moyer, Melvin I.: *See*—  
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Sisco, William E., Shenian, and Moyer. 2,955,144.
- Moyer, Oscar E., to Universal Mfg. Corp. Building materials elevator. 2,924,348, 2-9-60, Cl. 214-623.
- Moyer, Oscar E., to Universal Mfg. Corp. Elevator overspeed brake. 2,945,561, 7-19-60, Cl. 187-89.
- Moyer, Robert F., to Harsco Corp. Means for detachably securing hubs to shafts. 2,946,611, 7-26-60, Cl. 287-52.6.
- Moyer, William H., to The Babcock & Wilcox Co. Apparatus for separating vapor and liquid. 2,932,363, 4-12-60, Cl. 183-79.
- Moyes, Edward S., deceased (I. B. Moyes, administratrix). Boat anchoring device. 2,952,236, 9-13-60, Cl. 114-230.
- Moyes, Irene B.: *See*—  
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- Moyle, Clarence L.: *See*—  
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- Moyle, Clarence L., and L. L. Wade, to The Dow Chemical Co. Phosphoramidates. 2,944,937, 7-12-60, Cl. 167-53.
- Moynihan, Donald T.: *See*—  
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- Moynihan, John J., to M & F Associates. Apparatus and method for making laminated ferromagnetic cores. 2,942,511, 6-28-60, Cl. 83-29.
- Moynihan, John T., to United States of America, Commerce. Paper coating composition, paper coated therewith and method of improving the strength of paper. 2,920,984, 1-12-60, Cl. 117-103.
- Moyrand, Jean: *See*—  
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- Moyrath Machinery Co., Inc.: *See*—  
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Higonnet, Rene A., and Moyroud. 2,950,662.  
Higonnet, Rene A., and Moyroud. 2,958,270.  
Higonnet, Rene A., and Moyroud. 2,965,010.
- Moyroud, Louis M., to Graphic Arts Research Foundation, Inc. Photocomposing machines. 2,930,297, 3-29-60, Cl. 95-4.5.
- Moyroud, Louis M., to Graphic Arts Research Foundation, Inc. Photocomposing machines. 2,946,268, 7-26-60, Cl. 95-4.5.
- Mozeck, George J., to Tung-Sol Electric Inc. Method of controlling the cut-off voltage of a cathode ray tube. 2,951,279, 9-8-60, Cl. 29-25.13.
- Mracek, John: *See*—  
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- Mrava, Gene L.: *See*—  
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- Mraz, William L., to Bell Telephone Laboratories, Inc. Automatic frequency control for radio receiver. 2,946,834, 7-26-60, Cl. 250-20.
- Mrazek, Frantisek: *See*—  
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- Mrazek, James A., to United Aircraft Corp. Pressure balanced regulating and shut-off valve. 2,919,714, 1-5-60, Cl. 137-220.
- Mroch, Robert H.: *See*—  
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- Mucher, George J., and S. N. Zarillo, to Clorostat Mfg. Co., Inc. Potentiometer. 2,945,199, 7-12-60, Cl. 338-180.
- Mucher, William J., to Clorostat Mfg. Co., Inc. Control assembly. 2,926,323, 2-23-60, Cl. 338-174.
- Muchnick, Samuel N.: *See*—  
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- Mucho, Musa. Combination cigarette holder and smoke guard. 2,946,336, 7-26-60, Cl. 131-175.
- Muckler, Frank, to Southern Equipment Co. Panel mounting. 2,962,338, 11-29-60, Cl. 312-257.
- Mud Control Laboratories, Inc.: *See*—  
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- Muddiman, Earl R.: *See*—  
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- Mudge, Will M., R. C. and J. W. Alexander. Dispensing caps for collapsible containers. 2,949,215, 8-16-60, Cl. 222-490.
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- Muehlberger, Louis: *See*—  
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- Muehlebach, William D., and L. Stanly, to Chemical Sealing Corp. Package for tape mounted materials. 2,929,496, 3-22-60, Cl. 206-65.
- Muehlfeld, Clarence G. Drain tile guards. 2,962,866, 12-6-60, Cl. 61-10.
- Muehter, Manfred W., to American District Telegraph Co. Intruder alarm system. 2,944,252, 7-5-60, Cl. 340-276.
- Mueller, Albert C., and T. F. Bradley, to Shell Oil Co. Resinous compositions comprising alpha, beta-alkylene oxide adduct of a polyol and resinous aminoplast and process of making same. 2,961,424, 11-22-60, Cl. 260-45.2.
- Mueller, Alvin E.,  $\frac{1}{2}$  to S. Silverman, and  $\frac{1}{2}$  to S. Dock. Grinder fixture. 2,958,167, 11-1-60, Cl. 51-232.
- Mueller, Anton J.: *See*—  
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- Mueller, Anthony J., to The Cottrell Co. Printing plate lockup for wrap around plates. 2,965,025, 12-20-60, Cl. 101-415.1.
- Mueller, Armand G., to Square D Co. Motor regulator system. 2,940,030, 8-7-60, Cl. 318-327.
- Mueller, Carl H., J. B. Wegmann, and O. L. Bandy, to The McNeil Machine and Engineering Co. Fuel injection system. 2,925,075, 2-16-60, Cl. 123-140.
- Mueller, Charles W., to Radio Corp. of America. Semiconductor transducers. 2,929,885, 3-22-60, Cl. 179-121.
- Mueller, Charles W., to Radio Corp. of America. Method of making surface alloy junctions in semiconductor bodies. 2,932,594, 4-12-60, Cl. 148-1.5.
- Mueller Co.: *See*—  
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Miller, Frank B., Foltz, and Smith. 2,937,657.  
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Mueller, Frank H., to Mueller Co. Plastic welding. 2,933,428, 4-19-60, Cl. 154-116.  
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Mueller, Frank H., to Mueller Co. Service cross. 2,964,290, 12-3-60, Cl. 251-291.  
Mueller, Frank H., R. T. Nation, and J. T. Eschbaugh, to Mueller Co. Lubricated rotary plug valve. 2,931,380, 4-5-60, Cl. 137-246.14.  
Mueller, Fritz K. Gyroscopic accelerometer. 2,925,736, 2-23-60, Cl. 74-5.6.  
Mueller, Fritz K., to United States of America, Army. Level indicating device. 2,958,137, 11-1-60, Cl. 33-206.  
Mueller, Fritz K., to United States of America, Army. Gyroscopic inertial guidance mechanism for space vehicles. 2,963,242, 12-6-60, Cl. 244-14.  
Mueller, Fritz K., and R. C. Martin. Automatic control system for a pivoted platform. 2,926,530, 3-1-60, Cl. 74-5.47.  
Mueller, Fritz W. H., and E. T. Larson, Jr., to General Aniline & Film Corp. Photographic emulsions having increased sensitivity to X-ray and gamma ray radiation. 2,950,972, 8-30-60, Cl. 96-108.  
Mueller, George F., to American Viscose Corp. Drying roll. 2,956,348, 10-18-60, Cl. 34-124.  
Mueller, George P.: *See*—  
Jiu, James, and Mueller. 2,966,487.  
Johns, William F., and Mueller. 2,946,785.  
Mueller, Harry E. Educational device. 2,963,797, 12-13-60, Cl. 35-26.  
Mueller, Heinz E., to United States of America, Air Force. Chamber wall casting process and assembly. 2,951,336, 9-6-60, Cl. 60-35.6.  
Mueller, Heinz W. Combined drill and countersinking tool. 2,959,075, 11-8-60, Cl. 77-66.  
Mueller, Herman G., to Ajax Iron Works. Combination engine and compressor unit. 2,954,918, 10-4-60, Cl. 230-56.  
Mueller, Herman H., deceased; E. M. Mentzer, executrix. Selective record lowering, lifting, and releasing means for automatic interlocking and conventional record players. 2,949,307, 8-16-60, Cl. 274-10.  
Mueller, Herman H., deceased; E. M. Mentzer, executrix. Record support and drive means. 2,949,310, 8-16-60, Cl. 274-10.  
Mueller, Herman H., deceased; E. M. Mentzer, executrix. Variable speed drive for turntable of record players. 2,957,387, 10-25-60, Cl. 74-665.  
Mueller, Homer L., to American Machine & Foundry Co. Rim for tubeless tire. 2,929,431, 3-22-60, Cl. 152-410.  
Mueller, Johannes: *See*—  
Schlittler, Emil, and Mueller. 2,938,906.  
Mueller, Johannes, to Ciba Pharmaceutical Products Inc. New esters of reserpine acid alkyl esters. 2,960,506, 11-15-60, Cl. 260-286.  
Mueller, Johannes G., to Weil-McLain Co. Sectional boiler. 2,935,052, 5-3-60, Cl. 122-225.
- Mueller, John D., and E. C. Singletary, to Ethyl Corp. Self aligning electrolysis cell. 2,940,918, 6-14-60, Cl. 204-243.
- Mueller, John D., and J. D. Russell, to Ethyl Corp. Fused salt electrolysis cell. 2,962,433, 11-29-60, Cl. 204-247.
- Mueller, John J.: *See*—  
Ida, Noble N., and Mueller. 2,941,883.  
Mueller, Louis E., to The Rapid Electrotpe Co. Color plate registering equipment. 2,921,378, 1-19-60, Cl. 33-184.5.  
Mueller, Louise L. Adjustable breeding collar for chinchilla. 2,956,542, 10-18-60, Cl. 119-106.  
Mueller, Ludwig. Pile. 2,924,948, 2-16-60, Cl. 61-57.  
Mueller, Ludwig. Pile. 2,952,130, 9-13-60, Cl. 61-53.  
Mueller, Otto. Hydraulic piston and cylinder combination. 2,940,427, 6-14-60, Cl. 121-38.  
Mueller, Paul A. Rod-shaped filter element. 2,931,364, 4-5-60, Cl. 131-208.  
Mueller, Peter W., to Flat Steel Mfg. Co. Garment stretcher. 2,923,448, 2-2-60, Cl. 223-63.  
Mueller, Richard J.: *See*—  
Werner, Otto E., and Mueller. 2,926,594.  
Mueller, Richard J., to Automatic Canteen Co. of America, Inc. Dispensing liquids. 2,935,236, 5-3-60, Cl. 222-425.  
Mueller, Roland, and J. Eisele, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Dyestuffs for dyeing and printing fibre mixtures which contain fibres containing acrylonitrile. 2,922,690, 1-26-60, Cl. 8-21.  
Mueller, Willy: *See*—  
Schmid, Max, and Mueller. 2,936,306.  
Mueller-Herget, Wolfgang: *See*—  
Fischer, Franz, and Mueller-Herget. 2,956,491.  
Muench, Carl G., to The Celotex Corp. Apparatus for applying mortar simulating lines on insulating siding. 2,937,614, 5-24-60, Cl. 118-301.  
Muench, Nils L., to Jersey Production Research Co. Focusing system for use in radioactivity well logging. 2,946,889, 7-26-60, Cl. 250-71.5.  
Muench, Walter, to Walter Muench Inc. Means for mounting sine-bars for drilling, milling and grinding operations. 2,930,132, 3-29-60, Cl. 33-174.  
Muench, Walter, to Walter Muench Inc. Work clamping means. 2,930,293, 3-29-60, Cl. 90-69.  
Muench, Walter, to Walter Muench, Inc. Angularly adjustable work supporting device. 2,963,946, 12-13-60, Cl. 90-59.  
Muench, Walter, Inc.: *See*—  
Muench, Walter. 2,930,132.  
Muench, Walter. 2,930,293.  
Muench, Walter. 2,963,946.  
Muench, Werner, L. Notarbartolo, G. Silvestri, and V. Ruoti, to Snia Viscosa Società Nazionale Industria Appliazioni Viscosa S.p.A. Process for preparing alkaline metals having high reactive power. 2,948,762, 8-9-60, Cl. 260-665.  
Muenchinger, Herman G.: *See*—  
Smith, Ian A., and Muenchinger. Re. 24,878.  
Smith, Ian A., and Muenchinger. Re. 24,888.  
Muenchinger, Herman G., to American Screw Co. Drive link screws. 2,948,056, 8-9-60, Cl. 29-193.5.  
Muenzer, Bernard M.: *See*—  
Beattie, Horace S., Buley, and Muenzer. 2,946,504.  
Muessel, Dan C., to Kawneer Co. Pivot assembly for doors. 2,933,756, 4-26-60, Cl. 16-176.  
Muessel, Dan C., to Kawneer Co. Door lock. 2,961,719, 11-29-60, Cl. 20-16.  
Muetteties, Earl L., to E. I. du Pont de Nemours and Co. Preparation of alkylboranes. 2,925,439, 2-16-60, Cl. 260-606.5.  
Muetteties, Earl L., to E. I. du Pont de Nemours and Co. Selected sulfur fluorides and electrolytic process for making the same. 2,937,123, 5-17-60, Cl. 204-59.  
Muffat, Donald L., and W. J. Birmingham, to Standard Oil Co. Combination process for high-octane naphtha production. 2,946,736, 7-26-60, Cl. 208-65.  
Muffy, Gary, to Gulf Research & Development Co. Function unit. 2,948,467, 8-9-60, Cl. 235-61.6.  
Muffy, Glenn. Defrosting of evaporator. 2,942,432, 6-28-60, Cl. 62-155.  
Muffy, Glenn. Refrigerator doors and actuating mechanism. 2,950,911, 8-30-60, Cl. 268-63.  
Muhe, Ludwig: *See*—  
Zerna, Wolfgang, and Muhe. 2,934,935.  
Muhlberg, Wolfgang. Cation exchangers of the polystyrene type. 2,953,532, 9-20-60, Cl. 260-2.2.  
Mühlemann, Ernst: *See*—  
Lippert, Hans, and Mühlemann. 2,962,936.  
Muhlenbruch, Fred. Conveyor system. 2,930,475, 3-29-60, Cl. 198-32.  
Muhlfelder, Ludwig, to Curtiss-Wright Corp. Ram jet control. 2,956,398, 10-18-60, Cl. 60-35.6.  
Muhlhoff, Friedrich, to Mauser Kommandit-Gesellschaft. Quadrangular receptacle structures. 2,944,714, 7-12-60, Cl. 229-5.5.  
Muhlmann, Rudolf, W. Lorenz, and G. Schrader, to Farbenfabriken Bayer Aktiengesellschaft. Sulphoxides-containing esters of the phosphoric and thiophosphoric acids. 2,963,505, 12-6-60, Cl. 260-461.  
Muhr, John. Rotatable louvered window wall. 2,923,037, 2-2-60, Cl. 20-40.  
Muhr, John. Roof construction. 2,944,371, 7-12-60, Cl. 50-64.



- Muhr, John. Louvered wall. 2,955,815, 10-11-60, Cl. 268-96.
- Muir, David L. Tool cart. 2,964,328, 12-13-60, Cl. 280-47.19.
- Muir, Vaughn S. Weeding tool. 2,936,032, 5-10-60, Cl. 172-380.
- Muirhead & Co. Ltd.: *See*—  
Bell, John. 2,923,874.  
Bell, John. 2,936,728.  
Richards, Robert D. 2,949,409.
- Muise, Herbert D., to Continental Can Co., Inc. Tray. 2,931,556, 4-5-60, Cl. 229-34.
- Mukai, Jiro, to Canon Camera Co., Inc. High aperture wide angle objective. 2,926,564, 3-1-60, Cl. 88-57.
- Mulcahy, Harry W., and D. R. W. Holm, to W. H. Miner Inc. Coupler and yoke connections. 2,940,609, 6-14-60, Cl. 213-70.
- Mulcey, Paul A.: *See*—  
Mustin, Frank H., and Mulcey. 2,933,378.
- Mulch, Hans: *See*—  
Leitz, Ludwig, and Mulch. 2,953,966.
- Mulchay, Thomas W., Jr., to The Dow Chemical Co. Process for the production of hydrogen cyanide. 2,964,384, 12-13-60, Cl. 23-151.
- Mulder, Allan C., to Miller Electric Mfg. Co. Saturable core control means. 2,924,750, 2-9-60, Cl. 315-205.
- Mulder, Allan C., to Miller Electric Mfg. Co. Starting control for D.C. saturation controlled arc welding apparatus. 2,960,626, 11-15-60, Cl. 315-205.
- Mulder, Herman, to North American Philips Co., Inc. Gas-fractionation system. 2,919,556, 1-5-60, Cl. 62-42.
- Muldoon, John J., to Cogsdill Tool Products, Inc. Retractable deburring tool. 2,929,278, 3-22-60, Cl. 77-73.5.
- Mule, Michael. Neck chain medal lock. 2,957,216, 10-25-60, Cl. 24-3.
- Mulford Brothers Co.: *See*—  
Mulford, Marion R. 2,930,162.
- Mulford, Marion R., to Mulford Brothers Co. Shipping and growing device for bulbs. 2,930,162, 3-29-60, Cl. 47-37.
- Mulgrave, Thomas P.: *See*—  
Simmons, Walter A., and Mulgrave. 2,928,535.
- Mulholland, George. Universal warning light bracket. 2,926,625, 3-1-60, Cl. 116-63.
- Mulholland, James R. Lubricated high speed rings and traveler for twister frames. 2,925,705, 2-23-60, Cl. 57-120.
- Mull, Bruce D.: *See*—  
Schnaitter, Edgar J., and Mull. 2,936,085.
- Mull, Leonard E. Textile printing apparatus. 2,960,028, 11-15-60, Cl. 101-425.
- Mull, Robert P., to Ciba Pharmaceutical Products, Inc. Alkyleneimino-lower alkyl-guanidines. 2,928,829, 3-15-60, Cl. 260-239.
- Mull, William C., to Sellers Mfg. Co., Inc. Composite stretch yarn and fabric and processes of producing same. 2,936,569, 5-17-60, Cl. 57-140.
- Mullan, Daniel, and E. Zilahy, to Westinghouse Electric Corp. High speed incandescent lamp assembling machine. 2,936,797, 5-17-60, Cl. 140-71.5.
- Mullane, Donald J.: *See*—  
Congiusti, Dominick R., and Mullane. 2,945,776.
- Mullaney, Frank W.: *See*—  
Wandel, Oscar A., and Mullaney. 2,953,117.
- Mullarkey, Edward J. Weight balancing arrangement. 2,945,398, 7-19-60, Cl. 74-573.
- Mullen, Charles V., Jr., to Phillips Petroleum Co. Treatment of copper ammonium salt solution. 2,965,438, 12-20-60, Cl. 23-2.
- Mullen, Gerald A., to Westinghouse Electric Corp. Method for producing a cured expanded phenolaldehyde resin. 2,933,461, 4-19-60, Cl. 260-2.5.
- Mullen, John H., and L. W. Dyer, to Westinghouse Electric Corp. Electric switch. 2,942,088, 6-21-60, Cl. 200-168.
- Mullen, Theodore E., to Union Carbide Corp. Vinyl chloride resin compositions containing an alkyl N,N-bis (2-cyanoethyl)carboxamate as a plasticizer. 2,938,878, 5-31-60, Cl. 260-31.2.
- Müller, Adam: *See*—  
Enders, Edgar, and Müller. 2,952,689.
- Müller, Albert, to Air Reduction Co., Inc. Electric arc electrode. 2,955,059, 10-4-60, Cl. 117-202.
- Müller, Alois, to Opal Mfg. Co. Article release mechanism. 2,937,785, 5-24-60, Cl. 221-67.
- Müller, Egon M.: *See*—  
Smythe, William J., Müller, and Weeden. 2,966,469.
- Müller, Erich, and A. Kottler, to Dr. Karl Thomae, G.m.b.H. Unsaturated ethers of 2-acyl-4-aminophenols. 2,921,961, 1-19-60, Cl. 260-562.
- Müller, Ernst: *See*—  
Schweizer, Walter, Glunz, and Müller. 2,931,164.
- Müller, Erwin: *See*—  
Möller, Friedrich, Müller, Hoppe, and Braun. 2,941,967.
- Müller, Erwin, and G. Braun, 1/2 to Farbenfabriken Bayer Aktiengesellschaft, and 1/2 to Mobay Chemical Co. Polyacetal-polyisocyanate polymers. 2,961,428, 11-22-60, Cl. 260-49.
- Müller, Eugene A.: *See*—  
Bergh, Roland C., Elsbeck, and Müller. 2,957,661.
- Müller, Ferdinand, to Siemens-Schuckertwerke Aktiengesellschaft. Start control device for fluorescent lamps. 2,938,146, 5-24-60, Cl. 315-100.
- Müller, Fred A., to International Telephone and Telegraph Corp. Transistor. 2,939,056, 5-31-60, Cl. 317-235.
- Müller, Fredrik A.: *See*—  
Grattidge, Walter, and Müller. 2,943,957.
- Müller, Friedrich W., and H. G. Tölle, to Kochs Adlernahmaschinen Werke A.G. Conveyors. 2,931,484, 4-5-60, Cl. 198-38.
- Müller, George H.: *See*—  
Lucas, Harland R., and Müller. 2,939,447.
- Müller, George H., and N. Baracos, to Ford Motor Co. Motor vehicle suspensions. 2,932,507, 4-12-60, Cl. 267-54.
- Müller, George H., and W. E. Rudnicki, to Ford Motor Co. Vehicle frame construction. 2,935,335, 5-3-60, Cl. 280-106.
- Müller, Georges: *See*—  
Bardoneschi, Roland, and Müller. 2,924,600.
- Velluz, Leon, and Müller. 2,956,999.
- Müller, Georges, G. Nominé, and J. Warnant, to Les Laboratoires Français de Chimiothérapie. Polyhydronaphthalene lactone compound and a process of making same. 2,931,815, 4-5-60, Cl. 260-343.2.
- Müller, Georges, B. Vateriaux, and L. Velluz, to UCLAF. Derivatives of dibenzo-cycloheptadiene and a process of preparing same. 2,939,870, 6-7-60, Cl. 260-326.5.
- Müller, Georges, and P. Bellet, to UCLAF. O-demethyl-N-desacetyl-N-methyl colchicine and a process of making same. 2,950,311, 8-23-60, Cl. 260-476.
- Müller, Georges, G. Nominé, and J. Warnant, to Les Laboratoires Français de Chimiothérapie. Polycyclic compounds and process of preparing same. 2,952,682, 9-13-60, Cl. 260-287.
- Müller, Hanns, to H. and F. W. Deckel. Adjustable lever gage. 2,932,090, 4-12-60, Cl. 33-172.
- Müller, Heinz. Electrical fencing equipment. 2,947,885, 8-2-60, Cl. 307-132.
- Müller, Henry W., to Müller Paper Goods Co., Inc. Paper crinkle cup separating device. 2,937,786, 5-24-60, Cl. 221-211.
- Müller, Hollis L., Jr.: *See*—  
Triscoll, Louis R., Müller, and Ciccone. 2,946,284.
- Müller, Hollis L., Jr., E. R. Thilo, and N. K. Turnbull. Hermetically sealed explosive cartridge. 2,926,607, 3-1-60, Cl. 102-39.
- Müller, Jacques. Apparatus for dispensing liquid. 2,953,161, 9-20-60, Cl. 137-615.
- Müller, Jean-Paul, to Societe a responsabilite limitee les Ateliers de Constructions Mecaniques C & A. Brake system for spools of strips of plastic material. 2,957,639, 10-25-60, Cl. 242-75.2.
- Müller, Joachim, to International Standard Electric Corp. Valve arrangement for pneumatic dispatch tube systems. 2,945,640, 7-19-60, Cl. 243-22.
- Müller, Johann, to Dr.-Ing. Hans Deckel, and Dipl.-Ing. Friedrich Wilhelm Deckel. Gauging device. 2,930,166, 3-29-60, Cl. 51-165.
- Müller, Johannes, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for carburizing and carbonitriding iron and steel. 2,927,875, 3-8-60, Cl. 148-15.5.
- Müller, John F.: *See*—  
Bailey, George G., Malthaner, and Müller. 2,937,367.
- Müller, John W.: *See*—  
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- Müller, Josef: *See*—  
Uhlenhaut, Rudolf E., Müller, and Scherenberg. 2,942,678.
- Müller, Josef, to Daimler-Benz Aktiengesellschaft. Self-supporting car body. 2,933,341, 4-19-60, Cl. 296-28.
- Müller, Josef, to Daimler-Benz Aktiengesellschaft. Equalization spring suspension means for vehicles. 2,941,815, 6-21-60, Cl. 280-112.
- Müller, Josef, to Daimler-Benz Aktiengesellschaft. Motor vehicle with tilting mechanism. 2,961,254, 11-22-60, Cl. 280-112.
- Müller, Josef, and F. H. van Winsen, to Daimler-Benz Aktiengesellschaft. Rigid axle suspension for motor vehicles. 2,952,454, 9-13-60, Cl. 267-11.
- Müller, Karl: *See*—  
Decker, Johannes B., Meder, and Müller. 2,945,259.
- Müller, Karl, to F. Bremshey and K. H. Eckhorn, d.b.a. Bremshey & Co. Collapsible serving trolleys. 2,957,588, 10-25-60, Cl. 211-149.
- Müller, Karl A., Jr.: *See*—  
Haxton, Manford R., Johnston, and Müller. 2,952,611.
- Müller, Kurt. Screening machine. 2,965,233, 12-20-60, Cl. 209-365.
- Müller, Kurt, and C. Schmidt. Horizontal screening machine. 2,920,762, 1-12-60, Cl. 209-365.
- Müller, Lloyd E.: *See*—  
Morrish, Leonard M., and Müller. 2,949,165.
- Müller, Lloyd E., to General Motors Corp. Air compressor lubrication and power steering system. 2,921,528, 1-19-60, Cl. 103-6.
- Müller, Lloyd E., to General Motors Corp. Muffler. 2,922,485, 1-26-60, Cl. 181-54.
- Müller, Lloyd E., to General Motors Corp. Torque ball assembly. 2,929,232, 3-22-60, Cl. 64-32.
- Müller, Ludwig. Method for making pile structures with concrete casings. 2,923,133, 2-2-60, Cl. 61-57.
- Müller, Martin, to International Standard Electric Corp. Focusing magnet for long electron beams. 2,940,020, 6-7-60, Cl. 317-200.



- Müller, Martin, to International Standard Electric Corp. Capacitively coupled cavity resonator. 2,954,536, 9-27-60, Cl. 333-73.
- Muller, Max. Apparatus for measuring the relative humidity of the air. 2,962,897, 12-6-60, Cl. 73-336.5.
- Muller, Max A.: *See—*  
Koch, Gerard, Mey, and Muller. 2,932,227.  
Waninger, Gilbert, and Muller. 2,952,894.
- Müller, Max A., to Goetzewerke Friedrich Goetze Aktien-gesellschaft. Spring for cushioning purposes in vehicles. 2,942,872, 6-28-60, Cl. 267-83.
- Muller, Nathan W., and C. S. Long, to Acetylene Cylinder Corp. Acetylene container filler and methods. 2,944,911, 7-12-60, Cl. 106-120.
- Muller Paper Goods Co., Inc.: *See—*  
Muller, Henry W. 2,937,786.
- Müller, Paul A. Crimped flat material for filter plugs for cigarettes. 2,931,748, 4-5-60, Cl. 154-46.
- Muller, Paul A. Method of producing endless fibre webs having irregular surfaces. 2,940,891, 6-14-60, Cl. 162-113.
- Muller, Pierre: *See—*  
Joullie, Maurice, Laure, Maillard, and Muller. 2,944,065.  
Joullie, Maurice, Laure, Maillard, and Muller. 2,966,520.
- Muller, Robert A., to Atlas Plywood Corp. Apparatus for edge joining plywood veneer sheets. 2,940,491, 6-14-60, Cl. 144-279.
- Muller, Robert C., R. G. Bradhouse, and L. J. Kerpelman; said Muller and Bradhouse assors. to The Black and Decker Mfg. Co. Chuck key holder. 2,941,426, 6-21-60, Cl. 77-6.
- Muller, Robert H.: *See—*  
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- Muller, Robert H., to The Air Preheater Corp. Guide plates for rotary regenerator. 2,944,798, 7-12-60, Cl. 257-270.
- Muller, Robert M., to American Optical Co. Lens testing instrument. 2,961,924, 11-29-60, Cl. 88-56.
- Muller, Rudolf, to VEB Carl Zeiss Jena. Metal casing for supporting optical elements. 2,955,506, 10-11-60, Cl. 88-1.
- Müller, Rudolf, U. Fritze, and H. Paffrath, ½ to Farben-fabriken Bayer Aktiengesellschaft and ½ to Mobay Chemical Co. Sound-absorbing system. 2,959,242, 11-8-60, Cl. 181-33.
- Müller, Walter: *See—*  
Keller, Siegfried, Müller, and Seger. 2,957,730.
- Muller, Werner: *See—*  
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- Muller, Werner C., and V. L. Hansley, to National Distillers and Chemical Corp. Process for reducing higher halides. 2,963,362, 12-6-60, Cl. 75-84.5.
- Muller, Wilhelm Herrn., & Co. Kommanditgesellschaft: *See—*  
Hutzenlaub, Ernst. 2,930,607.
- Müller, Wilhelm, J. Casper, R. Haupt, and J. Heinen, to Farbenfabriken Bayer Aktiengesellschaft. Process for regenerating catalysts used in the synthesis of acrylonitrile. 2,947,706, 8-2-60, Cl. 252-416.
- Muller, William F., Jr.: *See—*  
McCormick, Edward J., and Muller. 2,929,498.
- Muller, William R., and E. H. Bracke. Adjustable plate holder and support thereof. 2,919,625, 1-5-60, Cl. 88-24.
- Müller, Willy, to Sud-Atlas-Werke G.m.b.H. Microphone with an adjustable attenuator. 2,928,908, 3-15-60, Cl. 179-147.
- Müller, Willy, and O. Holub: said Holub assor. to said Müller. Hand microphone for sound transducing appliances. 2,933,566, 4-19-60, Cl. 179-167.
- Muller, Willy, W. Grandjot, E. Osterloh, G. Werner, and E. Dulze, to W. Muller. Recording and reproducing apparatus. 2,942,876, 6-28-60, Cl. 271-215.
- Muller, Wolfgang, and W. J. Schmidt, to Wilhelm Fette Präzisionswerkzeugfabrik. Method and device for filling containers with articles, such as tablets, and closing the containers. 2,955,393, 10-11-60, Cl. 53-37.
- Mullett, Howard G., and R. J. Booker, to Bradley Wash-fountain Co. Washfountain. 2,965,906, 12-27-60, Cl. 4-170.
- Mullikin, Wilbur J. Portable traffic signal. 2,941,185, 6-14-60, Cl. 340-41.
- Mullin, Archie R. Spraying attachment for rotary lawn-mower. 2,939,636, 6-7-60, Cl. 239-223.
- Mullin, Daniel R., to Sun Oil Co. Composition containing polypropylene and an ester plasticizer. 2,940,949, 6-14-60, Cl. 260-31.4.
- Mullin, William H., to Philco Corp. Air conditioning apparatus. 2,952,997, 9-20-60, Cl. 62-409.
- Mullineaux, Richard D., and J. H. Raley, to Shell Develop-ment Co. Production of motor fuels. 2,921,013, 1-12-60, Cl. 208-65.
- Mullings, William M., to The Atlantic Refining Co. Geophysical record stamp device. 2,922,362, 1-26-60, Cl. 101-95.
- Mullins, Dennis H.: *See—*  
Gates, Stephen, and Mullins. 2,944,997.
- Mullins, Dennis H., B. Phillips, and F. C. Frostick, Jr., to Union Carbide Corp. Vinyl chloride resin compositions, stabilized and plasticized with epoxy compounds. 2,924,582, 2-9-60, Cl. 260-30.4.
- Mullins, Elwood H.: *See—*  
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- Mullins, Frederick C., to Koppers Co., Inc. Spray nozzle. 2,945,630, 7-19-60, Cl. 239-498.
- Mullins, William D., Jr.: *See—*  
Smith, Robert E., Mullins, Cannon, and Morgenthaler. 2,949,260.
- Mullins, William D., Jr., and F. W. Morgenthaler, to North American Aviation, Inc. Trim correction system for high speed vehicles. 2,943,823, 7-5-60, Cl. 244-77.
- Mulno, Lester F., to Harrington & Richardson, Inc. Safety lock for firearms. 2,945,316, 7-19-60, Cl. 42-66.
- Mulrooney, Edward A., Jr.: *See—*  
Haroldson, Arthur H., Mulrooney, and Hogan. 2,946,087.
- Multa Products, Inc.: *See—*  
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- Multhopp, Hans, to The Martin Co. Power flap for aircraft. 2,964,264, 12-13-60, Cl. 244-12.
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- Multifastener Corp.: *See—*  
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Patten, Alexander S. 2,940,496.
- Multi-Fill Machine Co., The: *See—*  
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- Multipane, Inc.: *See—*  
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- Multiposter, Inc.: *See—*  
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- Multi-Products Co.: *See—*  
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- Multiscope, Inc.: *See—*  
Tilton, Russell G. 2,919,786.
- Mulvey, Thomas: *See—*  
Haine, Michael E., and Mulvey. 2,926,254.  
Haine, Michael E., and Mulvey. 2,950,390.  
Haine, Michael E., and Mulvey. 2,951,157.  
Jones, Thomas C., and Mulvey. 2,958,776.
- Muma, Richard A., and J. L. Markley, to Beech Aircraft Corp. Precise control distribution of airplane fuel stores. 2,926,688, 3-1-60, Cl. 137-263.
- Munford, Eustace H., to Owens-Illinois Glass Co. Cooling system for glass forming molds. 2,928,214, 3-15-60, Cl. 49-40.
- Mumford, George V.: *See—*  
Hohl, John, and Mumford. 2,953,271.
- Mumford, George V., to Owens-Illinois Glass Co. Method of producing a component of a liquid dispenser. 2,921,343, 1-19-60, Cl. 18-47.5.
- Mumford, George V., to Owens-Illinois Glass Co. Method and apparatus for forming and trimming articles from plastic sheets. 2,953,814, 9-27-60, Cl. 18-19.
- Mumford, George V., and O. B. Sherman, to Owens-Illinois Glass Co. Apparatus for forming hollow plastic articles. 2,943,348, 7-5-60, Cl. 18-5.
- Mumford, George V., and R. H. Whitney, to Owens-Illinois Glass Co. Closure caps for bottles and jars. 2,953,272, 9-20-60, Cl. 213-41.
- Mumford, George V., and L. D. Soubier, to Owens-Illinois Glass Co. Method of producing insulating containers. 2,958,907, 11-8-60, Cl. 18-59.
- Mumford, Nicholas V. S.: *See—*  
Mitrovich, Milenko, and Mumford. 2,950,594.
- Mumper, George J. Manufacture and assembly of partitions. 2,962,943, 12-6-60, Cl. 93-37.
- Mumpower, Robert C., II: *See—*  
Touey, George P., and Mumpower. 2,966,157.
- Mumson, Walter R.: *See—*  
Glowacki, John J., Munson, and Brightman. 2,922,932.
- Munch, Robert J.: *See—*  
Bikales, Norbert M., and Munch. 2,927,942.  
Kordak, John A., Munch, and Rapoport. 2,937,196.
- Muncheryan, Brand M. Temperature-indicating device and closure cap. 2,953,921, 9-27-60, Cl. 73-363.5.
- Munck, Fredrik, to Sverre Munck trading as Sverre Munck, Elektro-Mekanisk Industri. Electric motor for hoists, cranes, conveyors or the like. 2,946,906, 7-26-60, Cl. 310-77.
- Munck, Sverre: *See—*  
Munck, Fredrik. 2,946,906.
- Munck, Sverre, Elektro-Mekanisk Industrie: *See—*  
Munck, Fredrik. 2,946,906.
- Munck af Rosenschold, John R., and M. W. Danielson, to Atlas Copco Aktiebolag. Reciprocating cross-head compressors. 2,956,738, 10-18-60, Cl. 230-188.
- Munck af Rosenschold, John R., and S. I. Trulsson, to Atlas Copco Aktiebolag. Screw-rotor compressors or motors. 2,963,884, 12-13-60, Cl. 62-331.
- Mund, Morris. Window masking device for rubber mounted windows. 2,922,392, 1-26-60, Cl. 118-505.
- Munday, Charles W., to The Distillers Co. Ltd. Radiation analysis. 2,926,253, 2-23-60, Cl. 250-43.5.
- Munday, Charles W., to The Distillers Co. Ltd. Apparatus for measuring magnetic susceptibility. 2,962,656, 11-29-60, Cl. 324-36.
- Mundean Mfg. Co.: *See—*  
Salisbury, Ellsworth C. 2,934,239.
- Munderich, Paul, to Wibau Westdeutsche Industrie- und Strassenbau-Maschinen-Gesellschaft m.b.H. Installation for making briquettes. 2,946,574, 7-26-60, Cl. 259-6.
- Mundie, Bauman S. Frozen food package mold. 2,928,259, 3-15-60, Cl. 62-300.
- Mundlos, Eberhard: *See—*  
Fernholz, Hans, Mundlos, and Probst. 2,936,267.



- Mundy, Lloyd W.: *See*—  
Heer, Ralph W., and Mundy. 2,947,230.
- Munford, Theodore W.: *See*—  
Nesbitt, John D., and Munford. 2,944,805.
- Munford, Theodore W., and J. D. Nesbitt, to Midland-Ross Corp. Apparatus for heating metal work. 2,930,599, 3-29-60, Cl. 262-2.
- Mungaard, Hans, to Danfoss ved ingenior Mads Clausen. Electric circuit with a resistance member sensitive to light or heat. 2,958,811, 11-1-60, Cl. 317-124.
- Munger, Stanley H., to E. I. du Pont de Nemours and Co. Preparation of photopolymerizable compounds. 2,923,673, 2-2-60, Cl. 204-158.
- Munharvey, Ernest W. Dolly. 2,958,539, 11-1-60, Cl. 280-47.3.
- Munk, Friederich: *See*—  
Geil, Walter, Reif, and Munk. 2,955,476.
- Munkachy, Elmer E. Can holder. 2,936,068, 5-10-60, Cl. 206-46.
- Munn, Gerald F.: *See*—  
Huggins, Charles E., Munn, and Smith. 2,928,932.
- Munn, Jay A., J. W. Schweikert, J. E. Sphar, and D. F. Berning to General Electric Co. Engine installation frame. 2,944,331, 7-12-60, Cl. 29-200.
- Munns, Arthur T. Side parking device for motor vehicles. 2,961,056, 11-22-60, Cl. 180-1.
- Munoz, Juan V., now by judicial change of name to J. M. Verdugo. Helicopter. 2,948,490, 8-9-60, Cl. 244-17.19.
- Munro, Allison G. Dampproofing buildings. 2,935,865, 5-10-60, Cl. 72-1.
- Munro, David C. Flashlight. 2,937,266, 5-17-60, Cl. 240-10.68.
- Munro, David C. Noise making device for velocipedes or the like. 2,940,215, 6-14-60, Cl. 46-175.
- Munro, George A. Adjustable boring bar. 2,924,129, 2-9-60, Cl. 77-58.
- Munro, John F., to General Electric Co. Threaded fastener retaining device with resilient holding means. 2,948,317, 8-9-60, Cl. 151-69.
- Munro, Norman J., to Commonwealth of Australia, Crown Solicitor's Office. Airplane lift augmenting means. 2,929,582, 3-22-60, Cl. 244-42.
- Munro, Walter J., Jr. Baby bunting. 2,932,827, 4-19-60, Cl. 2-69.5.
- Munroe, Clarence R. Hydro-massage appliance. 2,921,579, 1-19-60, Cl. 128-66.
- Munroe, David J., to Webster Electric Co. Recorder-reproducer. 2,953,312, 9-20-60, Cl. 242-55.12.
- Munro, Donald H., to Parlyn, Inc. Window operator with improved track. 2,961,234, 11-22-60, Cl. 268-109.
- Munroe, David J., to Webster Electric Co. Recorder-reproducer apparatus. 2,920,148, 1-5-60, Cl. 179-100.2.
- Munroe, Donald R., Jr. Partition structure. 2,925,154, 2-16-60, Cl. 189-34.
- Munschauer, Frederick E., Jr., and G. E., to Niagara Machine & Tool Works. Power press with shiftable bolster means. 2,940,384, 6-14-60, Cl. 100-214.
- Munschauer, George E.: *See*—  
Munschauer, Frederick E., Jr., and G. E. 2,940,384.
- Munsell, David D., to Godfrey L. Cabot, Inc. Air-tight discharge valve for discharging fine solid materials. 2,920,793, 1-12-60, Cl. 222-58.
- Munsingwear, Inc.: *See*—  
Brainerd, Walter E. 2,953,915.  
Bren, Eunice M. 2,941,210.  
Schaumer, Theo B. 2,926,668.  
Schaumer, Theo B. 2,929,381.
- Munson, Donald J., to The J. R. Clark Co. Ironing table top. 2,939,232, 6-7-60, Cl. 38-139.
- Munson, Donald J., to The J. R. Clark Co. Ironing table top. 2,939,233, 6-7-60, Cl. 38-139.
- Munson, George M.: *See*—  
Johnson, Nels A. 2,962,041.
- Munson, George M. Cleaner for fluid suction device. 2,952,412, 9-13-60, Cl. 239-117.
- Munson, Whitney K. Interchangeable type stamp devices. 2,921,516, 1-19-60, Cl. 101-381.
- Munson, Whitney K. Inking pad for stamp pads. 2,955,312, 10-11-60, Cl. 15-209.
- Munson, Whitney K. Detachable type unit rubber stamps. 2,962,964, 12-6-60, Cl. 101-380.
- Munters, Carl G. Moisture exchanger for gaseous mediums. 2,925,880, 2-23-60, Cl. 183-4.6.
- Munters, Carl G. Method for avoiding frost deposits on cooling members. 2,946,201, 7-26-60, Cl. 62-94.
- Munters, Carl G. Air conditioning systems. 2,959,930, 11-15-60, Cl. 62-93.
- Munters, Carl G., and P. G. Norbäck, to Lizenzia A.G. Air conditioning system. 2,926,502, 3-1-60, Cl. 62-94.
- Munters, Carl G., and P. G. Norbäck. Air conditioning apparatus. 2,957,321, 10-25-60, Cl. 62-271.
- Munyan, Donald A., to Holley Carburetor Co. Cold start and warm up system for fuel injection. 2,965,091, 12-20-60, Cl. 123-179.
- Munz, Otto J.: *See*—  
Hofstetter, Kurt. 2,953,984.
- Munz, Otto J. Sea farming. 2,922,393, 1-26-60, Cl. 119-4.
- Munzfeld, Karl H. Chord player attachment for musical instruments. 2,919,619, 1-5-60, Cl. 84-443.
- Muolo, Anthony W.: *See*—  
Edwards, Norman E., and Muolo. 2,930,002.
- Mura, Joseph H. Colony birdhouse. 2,944,515, 7-12-60, Cl. 119-23.
- Murahashi, Shunsuke, and S. Horie, to Sumitomo Chemical Co., Ltd. Method of producing quinoxaline derivatives. 2,944,056, 7-5-60, Cl. 260-251.
- Murakami, Masuo, and S. Senoh. Method of synthesis of dialkyl alpha-ketoglutarate from alkyl 2-furoate. 2,946-816, 7-26-60, Cl. 260-483.
- Murakami, Saburo: *See*—  
Fuketa, Masahiko, and Murakami. 2,945,416.
- Murakami, Tomomi, and B. V. Vonderschmitt, to Radio Corp. of America. Television receiving systems. 2,964,674, 12-13-60, Cl. 315-27.
- Mural, Frank, and J. F. Bogusz, to Philco Corp. Signal-seeking receiver. 2,958,771, 11-1-60, Cl. 250-20.
- Murarsheed, Lateef. Hot metal valve for ladies and the like. 2,943,370, 7-5-60, Cl. 22-84.
- Muraszew, Alexander, to Orenda Engines Ltd. Fuel system including an emerging fuel control unit. 2,940,516, 6-14-60, Cl. 158-36.3.
- Murch, Robert M., to Dow Corning Corp. Electrical apparatus employing dielectric fluids. 2,947,926, 8-2-60, Cl. 317-258.
- Murchison, William. Gun aim controller device. 2,927,374, 3-8-60, Cl. 33-52.
- Murcott, Charles E. Collapsible invalid walkers. 2,960,148, 11-15-60, Cl. 155-22.
- Murdoch, Colin D., to J. F. Cady. Magnetic sound recording apparatus. 2,926,861, 3-2-60, Cl. 242-55.13.
- Murdoch, Guy C.: *See*—  
Curtin, David Y., and Murdoch. 2,942,032.
- Murdoch, Guy C., and H. J. Schneider, to Rohm & Haas Co. New unsaturated glycidyl ethers, polymers thereof and methods for producing them. 2,949,474, 8-16-60, Cl. 260-348.
- Murdock, James D., and G. H. Segall, to Canadian Industries Ltd. Coating composition containing epoxy resin and copolymer of ring-alkylated styrene. 2,964,492, 12-13-60, Cl. 260-45.5.
- Murdock, Paul F., to Pratt, Read & Co., Inc. Player piano. 2,936,666, 5-17-60, Cl. 84-25.
- Murdock, Robert B. Collapsible attachment. 2,950,836, 8-30-60, Cl. 220-1.
- Murdock, Stanley A.: *See*—  
Armen, Ardy, and Murdock. 2,952,651.  
Spence, Thomas C., and Murdock. 2,935,426.
- Murer, Albert J.: *See*—  
Hasler, Eckart E., and Murer. 2,953,318.
- Murib, Jawad H., and E. A. Grannen, Jr., to AFN, Inc. Preparation of trialkyls of boron. 2,934,566, 4-26-60, Cl. 260-606.5.
- Muro, Louis V., to American Metal Climax, Inc. Method of purifying crude nickel sulfate. 2,959,465, 11-8-60, Cl. 203-117.
- Muroga, Saburo, to Nippon Telegraph and Telephone Public Corp. Switching system of electrical signal. 2,935,737, 5-3-60, Cl. 340-174.
- Murphey, Robert L.: *See*—  
McCoy, Frederic C., McClure, Woodie, and Murphey. 2,935,468.
- Murphey, Robert L., to Texaco Inc. Petroleum treating process. 2,939,838, 6-7-60, Cl. 208-312.
- Murphee, Francis J., Jr., to United States of America, Navy. Automatic volume control. 2,946,017, 7-19-60, Cl. 330-133.
- Murphy, Bynum E., W. L. Brewer, Jr., and A. E. Melton, to Desler Associates, Inc. Brush cutter. Re. 2,811, 4-19-60, Cl. 56-25.4.
- Murphy, Brian J. M., to United Shoe Machinery Corp. Heel attaching machines. 2,940,082, 6-14-60, Cl. 1-137.
- Murphy, Charles F.: *See*—  
Moehring, William D., and Murphy. 2,931,864.
- Murphy, David M. Boat lifting device. 2,934,220, 4-26-60, Cl. 214-1.
- Murphy, David W., to Pastushin Aviation Corp. Synchronously operated ejector guns for translating a store away from an airborne vehicle. 2,937,899, 5-24-60, Cl. 294-83.
- Murphy, Donald D., to Joy Mfg. Co. Extensible belt tail section and buggy therefor. 2,925,900, 2-23-60, Cl. 198-100.
- Murphy Door Bed Co., Inc.: *See*—  
Levi, Hans L. 2,932,344.
- Murphy, Emmett H., to Food Machinery and Chemical Corp. Apparatus for packing containers into cases. 2,940,579, 6-14-60, Cl. 198-21.
- Murphy, Frances G.: *See*—  
Murphy, Frank V. 2,950,547.
- Murphy, Frank V., 1/2 each to T. J. L. J., F. G., G. A., K. V., and J. W. Murphy. Snow removing implement with conveyor means. 2,950,547, 8-30-60, Cl. 37-53.
- Murphy, George A.: *See*—  
Murphy, Frank V. 2,950,547.
- Murphy, George W., to United States of America, Interior. Process and apparatus for the demineralization of saline water. 2,947,688, 8-2-60, Cl. 210-23.
- Murphy, Goodrich K., to The Budd Co. High-capacity private compartment passenger vehicle. 2,946,294, 7-26-60, Cl. 105-315.
- Murphy, Goodrich K., to The Budd Co. High capacity private compartment passenger vehicle. 2,963,988, 12-13-60, Cl. 105-315.



- Murphy, Harold G.,  $\frac{1}{2}$  to L. G. Hammerschlag. Method and apparatus providing an infinite range of radii for generating spherical segments and curved surfaces. 2,933,965, 4-26-60, Cl. 82-12.
- Murphy, Howard F., to Stewart-Warner Corp. Space heating furnace. 2,923,287, 2-2-60, Cl. 126-110.
- Murphy, Howard J., to United-Carr Fastener Corp. Tool for applying clamping bands. 2,935,907, 5-10-60, Cl. 81-9.3.
- Murphy, James. Printed circuit connector. 2,936,439, 5-10-60, Cl. 339-176.
- Murphy, James D., to Westinghouse Electric Corp. Centrifugal fans. 2,951,630, 9-6-60, Cl. 230-114.
- Murphy, James G. Silver polish. Re. 24,819, 5-3-60, Cl. 148-6.24.
- Murphy, James L.: See—  
Appel, Arthur V., Betz, Fisher, Fochtman, Katz, Lieberman, Alexander, Murphy, Maxwell, and Lewis. 2,920,525.
- Murphy, John E.: See—  
Keating, Henry E., Murphy, and Poss. 2,932,262.
- Murphy, John H., and M. A. Hole. Vehicular wheel. 2,940,794, 6-14-60, Cl. 301-6.
- Murphy, John J. Apparatus for supporting infants. 2,947,998, 8-9-60, Cl. 5-77.
- Murphy, John J., and D. L. Lundgren, to Radio Corp. of America. Electromechanical filter assemblage. 2,935,706, 5-3-60, Cl. 333-71.
- Murphy, John J., and S. Ziegler, to General Dynamics Corp. In-flight test system and assembly. 2,940,017, 6-7-60, Cl. 317-101.
- Murphy, John M.: See—  
Mann, Leonard J., Murphy, and Wurtz. 2,944,410.
- Murphy, John P., to Yuba Consolidated Industries Inc. Method of building a bridge construction. 2,958,940, 11-8-60, Cl. 29-431.
- Murphy, Joseph W.: See—  
Murphy, Frank V. 2,950,547.
- Murphy, Kathleen V.: See—  
Murphy, Frank V. 2,950,547.
- Murphy, L. R., Scale Co.: See—  
Murphy, Leslie R. 2,950,909.
- Murphy, Leo J.: See—  
Murphy, Frank V. 2,950,547.
- Murphy, Leslie R., to L. R. Murphy Scale Co. Tandem scale system. 2,950,909, 8-30-60, Cl. 265-71.
- Murphy, Mary E.: See—  
Chapin, Earl C., and Murphy. 2,950,264.
- Murphy, Myron A., and B. V. Donnelly, to Shawinigan Chemicals Ltd. Acetylene generation. 2,951,748, 9-6-60, Cl. 48-38.
- Murphy, Norman B., to Bendix Aviation Corp. Liquid damped vibration isolator. 2,919,883, 1-5-60, Cl. 248-358.
- Murphy, Oscar V., to Newaygo Engineering Co. Power mold dump. 2,953,262, 9-20-60, Cl. 214-46.22.
- Murphy, Oscar V., and B. G. Witte, to Newaygo Engineering Co. Founder's molding equipment. 2,929,118, 3-22-60, Cl. 22-9.
- Murphy, Owen K.: See—  
Oettinger, Norman. 2,937,641.
- Murphy, Raymond J., to Fred Medart Mfg. Co. Retractable overhead basketball goal-structures. 2,961,236, 11-22-60, Cl. 273-1.5.
- Murphy, Raymond J., to Fred Medart Mfg. Co. Portable fire escapes. 2,965,193, 12-20-60, Cl. 182-100.
- Murphy, Robert E.: See—  
Silliker, John H., Shank, and Murphy. 2,950,977.
- Murphy, Robert D., and P. C. Janson, to Rockwell Manufacturing Co. Parking meters. 2,947,403, 8-2-60, Cl. 194-20.
- Murphy, Robert P., Jr.: See—  
Bearden, William G., Murphy, and Scott. 2,946,383.
- Murphy, Robert W.: See—  
Gregory, Ralph A., Baker, Wolensky, Jackson, Winger, and Murphy. 2,960,683.
- Murphy, Stewart F., and J. B. Collins, to Architectural Hardware Corp. Knock-down cabinets. 2,966,385, 12-27-60, Cl. 312-257.
- Murphy, Thomas J.: See—  
Murphy, Frank V. 2,950,547.
- Murphy, William A. Racetrack protective device. 2,960,964, 11-22-60, Cl. 119-15.5.
- Murphy, William P. Typewriter spool standardization. 2,925,164, 2-16-60, Cl. 197-175.
- Murray, Alan E. Interdigital toe-positioner. 2,949,112, 8-16-60, Cl. 128-81.
- Murray, Alan E. Molded shoe. 2,952,082, 9-13-60, Cl. 36-8.5.
- Murray, Alan E. Method of making a molded shell adapted for use in the manufacture of molded shoes. 2,955,326, 10-11-60, Cl. 18-55.05.
- Murray, Alan E. Process of manufacturing molded shoes contoured to fit the feet and product produced thereby. 2,961,714, 11-29-60, Cl. 18-55.05.
- Murray, Alfred S., and J. L. Brusca, to Tyson Bearing Corp. Seal for a separable bearing that locks the bearing parts into a unit. 2,945,730, 7-19-60, Cl. 308-187.2.
- Murray, Arthur J., to Stramur Corp. Apparatus for packaging articles. 2,953,879, 9-27-60, Cl. 53-48.
- Murray, Arthur R. Hygienic means for bathrooms. 2,938,216, 5-31-60, Cl. 4-148.
- Murray Co. of Texas, Inc. The: See—  
Day, Dewey D. 2,943,022.  
Day, Dewey D. 2,962,769.  
Neitzel, Joseph C. 2,955,328.  
Wuertz, Emil S. 2,957,359.
- Murray Corp. of America, The: See—  
Black, John B. 2,944,314.  
Lamkin, Richard C., Stelljes, and Etherington. 2,934,023.  
Stelljes, Charles R., Bridgeford, and Kudlick. 2,964,851.
- Murray, Donald A., D. F. Christofferson, and W. G. Toland, to International Harvester Co. Gauge wheel for two-way plow. 2,927,651, 3-8-60, Cl. 172-212.
- Murray, Donald A., and J. H. Whitby, to International Harvester Co. Bale turner. 2,947,400, 8-2-60, Cl. 193-5.
- Murray, Edward A. Fugitive tints for natural and synthetic fibers. 2,959,461, 11-8-60, Cl. 8-56.
- Murray, Ernest E. Buffer wheel mounting. 2,929,175, 3-22-60, Cl. 51-165.
- Murray, Ernest E. Sealed conveyor. 2,929,486, 3-22-60, Cl. 198-19.
- Murray, George, to The General Electric Co. Ltd. Transistor oscillator. 2,942,206, 6-21-60, Cl. 331-117.
- Murray, George H., and B. R. Boyle, to D. Napier & Son Ltd. Torsional vibration dampers. 2,932,984, 4-19-60, Cl. 74-574.
- Murray, George W., Jr.: See—  
Armstrong, Eldon L., Butcosk, and Murray. 2,950,248.  
Armstrong, Eldon L., Marshall, Murray, and Raich. 2,950,249.
- Murray, Herbert C.: See—  
Hanze, Arthur R., Murray, and Sebek. 2,935,521.  
Meeks, Robert C., Meister, and Murray. 2,952,693.  
Meister, Peter D., and Murray. 2,930,791.
- Murray, Herbert C., and D. H. Peterson, to The Upjohn Co. 11 $\alpha$ -hydroxy-16,17 oxido-progesterone and esters thereof. 2,920,073, 1-5-60, Cl. 260-239.55.
- Murray, Herbert C., and P. D. Meister, to The Upjohn Co. Manufacture of 17-alpha steroids by genus trichothecium. 2,925,366, 2-16-60, Cl. 195-51.01.
- Murray, Howard S.: See—  
Coe, William D., and Murray. 2,945,271.
- Murray, James G., to Monsanto Chemical Co. Preparation of aryl esters. 2,945,871, 7-19-60, Cl. 260-410.5.
- Murray, James M. Cornice drip edge. 2,922,385, 1-26-60, Cl. 108-26.
- Murray, James S., to General Telephone Laboratories, Inc. Combined line service P.B.X. connector. 2,921,985, 1-19-60, Cl. 179-18.
- Murray, Jerome L. Fluid pressure devices. 2,928,353, 3-15-60, Cl. 103-149.
- Murray, John B., to Massey-Ferguson (Great Britain) Ltd. Hitches for trailers. 2,950,128, 8-23-60, Cl. 280-477.
- Murray, John F., and J. A. Wotring, to Thompson Ramo Wooldridge Inc. Hollow pump gear for aircraft fuel pumps. 2,961,970, 11-29-60, Cl. 103-126.
- Murray, John S. Self-biased transistor amplifiers. 2,959,741, 11-8-60, Cl. 330-19.
- Murray, Leonard H.: See—  
Sell, John, Jr., Anderson, and Murray. 2,945,265.
- Murray, Loren C. Mobile home construction. 2,931,077, 4-5-60, Cl. 20-2.
- Murray Mfg. Corp.: See—  
Brunner, Carl. 2,934,660.  
Kobryner, Herman H., and Olsen. 2,938,191.
- Murray, Maurice J., and L. G. Massey, to Universal Oil Products Co. Process for preparing shaped alumina particles of high crushing strength. 2,950,169, 8-23-60, Cl. 23-143.
- Murray, Maxton F., to The Upjohn Co. Erythromycin recovery and upgrading process. 2,957,864, 10-25-60, Cl. 260-210.
- Murray Ohio Mfg. Co. The: See—  
Douglas, Alvin P., and Gollrick. 2,949,990.  
Douglas, Alvin P., and Hahn. 2,961,152.
- Murray, Peter B., to Sun Oil Co. Sweetening hydrocarbons with dried chromium oxide. 2,944,011, 7-5-60, Cl. 208-189.
- Murray, Richard L., and J. A. Phillips, to Boeing Airplane Co. Airplane spoiler assembly. 2,925,232, 2-16-60, Cl. 244-42.
- Murray, Stephen J., to Phillips Petroleum Co. Removal of metal halide catalyst from hydrocarbons. 2,945,911, 7-19-60, Cl. 260-683.74.
- Murray, Thomas F., Jr.: See—  
Milton, Kirby M., and Murray. 2,960,404.
- Murray, Thomas K. Distress signaling device. 2,928,935, 3-15-60, Cl. 250-17.
- Murray & Tregurtha, Inc.: See—  
Wanzer, Arthur W. 2,921,635.  
Wanzer, Arthur W. 2,930,342.
- Murray, Victor S. Fitting for concrete slab. 2,945,705, 7-19-60, Cl. 285-18.
- Murray, Victor S. Floor outlet box. 2,961,480, 11-22-60, Cl. 174-48.
- Murray, Wilbur E. Traction attachments for automobile wheels. 2,930,656, 3-29-60, Cl. 301-47.
- Murray, William E.: See—  
Davidson, William W. 2,936,167.
- Murrie, Kurt, to Otero-Uhrenrohwerke Otto Epple KG. Automatic winding device, preferably for wrist-watches. 2,928,231, 3-15-60, Cl. 58-82.
- Murry, James W. Heavy solid mixture classification. 2,952,359, 9-13-60, Cl. 209-172.5.



- Murtaugh, Justin J.: *See*—  
Goldsmith, Louis, Murtaugh, Wenck, and Ward. 2,926,122.
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- Muse, Grant H., Jr., to Minneapolis-Honeywell Regulator Co. Photographic exposure meter. 2,934,996, 5-3-60, Cl. 88-23.
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- Musgrave, Orly. Clutch device. 2,957,561, 10-25-60, Cl. 192-11.
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- Mussel, C. Walton, and R. W. Markgraf, to United States of America, Army. Pressure responsive thruster locking means. 2,925,011, 2-16-60, Cl. 89-1.
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- Mussell, Dorsey R., to The Dow Chemical Co. Control of wild oats. 2,945,752, 7-19-60, Cl. 71-2.3.
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- Musser, C. Walton, to United Shoe Machinery Corp. Strain-wave gearing-tubular shaft. 2,929,266, 3-22-60, Cl. 74-640.
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- Muttart, Lawrence E., to Owens-Corning Fiberglass Corp. Feeding method and apparatus for the extrusion of shaped bodies of cementitious materials. 2,953,834, 9-27-60, Cl. 25-11.
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- Muttera, William H., Jr., to W. H. Brady Co. Transferring pressure sensitive mass. 2,946,370, 7-26-60, Cl. 154-1.6.
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- Myers, Claude K. High speed mixing impeller. 2,950,905, 8-30-60, Cl. 259-134.
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- Myers, Clyde B., to Diamond Alkali Co. Ammonia soda process improvements. 2,946,653, 7-26-60, Cl. 23-65.
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 Nadel, Manuel R., to Comptone Co., Ltd. Display device. 2,966,271, 12-27-60, Cl. 211—13.  
 Nadelman, Alfred H., to Allied Chemical Corp. Dense papers and process for preparing them. 2,924,538, 2-9-60, Cl. 117—65.  
 Nadig, Francis H., J. L. Bohn, and T. Korneff, to United States of America, Air Force. High speed camera. 2,961,918, 11-29-60, Cl. 88—16.  
 Nadler, Max A.: *See*—  
 Wilson, Jardine C., Nadler, Katz, and Walti. 2,932,586.  
 Naef, Leon G. Cement pump unit. 2,957,430, 10-25-60, Cl. 103—153.  
 Naegele, Robert J., Jr., to Lockheed Aircraft Corp. Combustion chamber for jet propulsion motors. 2,944,398, 7-12-60, Cl. 60—39.82.  
 Naegeli, Werner, to Joh. Jacob Rieter & Co. Ltd. Drawing roller aggregate for textile machines. 2,935,767, 5-10-60, Cl. 19—141.  
 Naegeli, Werner, to Joh. Jacob Rieter & Co. Ltd. Wiper for top rolls of drafting arrangements. 2,964,806, 12-20-60, Cl. 19—139.  
 Naegeli, Werner, and P. Schwengeler, to Joh. Jacob Rieter & Co. Ltd. Weighting device for drafting arrangements of spinning machines. 2,958,102, 11-1-60, Cl. 19—135.  
 Naeser, Gerhard: *See*—  
 Trotter, Frederick J., Montgomery, Work, and Naeser. 2,935,402.  
 Naeser, Howard J., C. E. Hall, and A. J. Bergvall, to The B. F. Goodrich Co. Resilient gasket. 2,942,308, 6-28-60, Cl. 20—69.  
 Nafin, Alfred. Shear for forming rounded corners on rectangular cards, etc. 2,936,665, 5-17-60, Cl. 83—583.  
 Nafius, Verner H., to Techno Instrument Co. Means for positioning and protecting a magnetic head of a magnetic recorder. 2,926,982, 3-1-60, Cl. 346—74.  
 Nagai, T. rao, to Agency of Industrial Science and Technology, Ministry of International Trade and Industry. System of eliminating the higher harmonic voltage of any alternating current circuit. 2,959,738, 11-8-60, Cl. 328—167.  
 Nagasaw, Fujio, E. Takagi, M. Yokoi, M. Sato, M. Mangyo, I. Ensaka, S. Okamoto, and Y. Tsukada, to Mitsubishi Kasel Kogyo Kabushiki Kaisha. Method of treating diseases associated with plasmin activity. 2,939,817, 6-7-60, Cl. 167—65.  
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 Okunuki, Kazuo, Hagihara, and Ukita. 2,952,586.  
 Nagel, Dave D., to ACF Industries, Inc. Ball valve. 2,940,725, 6-14-60, Cl. 251—317.  
 Nagel, Ernest and S. Portable toilet device. 2,957,183, 10-25-60, Cl. 4—135.  
 Nagel, George W.: *See*—  
 Schultz, Mortimer A., and Nagel. 2,963,590.  
 Nagel, George W., and C. A. Booker, Jr., to Westinghouse Electric Corp. Magnetic latching mechanism. 2,942,907, 6-28-60, Cl. 293—251.5.  
 Nagel, Herbert, and L. R. Hatt, to E. I. du Pont de Nemours and Co. Polyethylene terephthalate film having an adherent wax coating. 2,944,918, 7-12-60, Cl. 117—68.5.  
 Nagel, Konrad: *See*—  
 Ziegler, Karl, Nagel, and Patheiger. 2,929,853.  
 Nagel, Robert I., to Elastic Stop Nut Corp. of America. Optical indicator for liquid level. 2,943,530, 7-5-60, Cl. 88—1.  
 Nagel, Roger M.: *See*—  
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 Nagel, Stellane: *See*—  
 Nagel, Ernest and S. 2,957,183.  
 Nagelkerke, Willem, and G. Meijer, to Shell Oil Co. Soot removal from gases. 2,938,599, 5-31-60, Cl. 183—120.  
 Nagelmann, Clemens B. Long stroke combustion engine. 2,929,205, 3-22-60, Cl. 60—39.6.  
 Nager, Urs F., to O. W. Burke, Jr. Partial glycerol esters of pectic substances and preparation thereof. 2,960,498, 11-15-60, Cl. 260—209.5.  
 Naggia, Joseph Y. Tank structure for alternative transportation of liquids and solid goods. 2,927,711, 3-8-60, Cl. 220—20.  
 Nagin, Harold, to Reliance Steel Products Co. Composite grating structure. 2,941,455, 6-21-60, Cl. 94—5.  
 Nagin, Harold, to Reliance Steel Products Co. Grating. 2,960,918, 11-22-60, Cl. 94—30.  
 Nagin, Harold, to Reliance Steel Products Co. Grating and method of making same. 2,960,919, 11-22-60, Cl. 94—30.  
 Nagin, Harry S., and D. H. Russell, to Reliance Steel Products Co. Pavement and method of producing the same. 2,948,201, 8-9-60, Cl. 94—5.  
 Nagin, Leon, to Reliance Steel Products Co. Marker stripe. 2,952,192, 9-13-60, Cl. 94—1.5.  
 Nagle, Garrett S., to Reynolds Metals Co. Package for articles, such as cigarettes, and the like. 2,956,719, 10-18-60, Cl. 229—17.  
 Nagle, Perry I. Pump with packing gland. 2,957,425, 10-25-60, Cl. 103—103.  
 Nagler, Bruno A., to Nagler Helicopter Co., Inc. Helicopter with shrouded or ducted rotor. 2,948,491, 8-9-60, Cl. 244—17.21.  
 Nagler Helicopter Co., Inc.: *See*—  
 Nagler, Bruno A. 2,948,491.  
 Nagy, Alexander J.: *See*—  
 Carey, Walter F., and Nagy. 2,962,250.  
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 Nagy, Daniel E.: *See*—  
 Roth, Roy W., and Nagy. 2,948,699.  
 Nagy, Edward J., and F. L. Baxter, Jr., to Sperry Rand Corp. Ballistic apparatus adjustable for different types of projectiles. 2,953,299, 9-20-60, Cl. 235—61.5.  
 Nagy, Elemer, and J. Szabo, to Egyesult Izzalampa Es Villamosagi Reszvenytarsasag. Electroluminescent cell and method of making same. 2,941,103, 6-14-60, Cl. 313—108.  
 Nagy, John W. James, and J. M. Martin, to King Kan Opener, Inc. Combined can punch and cap remover. 2,964,763, 12-20-60, Cl. 7—14.25.  
 Nagy, John, Jr., to Daystrom, Inc. Apparatus for the measurement of voltages. 2,940,043, 6-7-60, Cl. 324—103.  
 Nagy, Michael. Dispensing container for roll material. 2,965,331, 12-20-60, Cl. 242—138.  
 Nagynyomasu Kiserleti Intezet: *See*—  
 Varga, Jozsef, Rabo, Zalai, and Steingaszner. 2,939,835.  
 Nahin, Paul G., and J. E. Sherborne, to Union Oil Co. of California. Denitrogenation of hydrocarbon mixtures. 2,943,049, 6-28-60, Cl. 208—254.  
 Nahma A.G.: *See*—  
 Isler, Hans. 2,926,621.  
 Nahodil, Antonin, to Zapadoceske autodruzstvo. Apparatus for effecting automatic adjustment of the clearance between the brake lining and the brake friction surface in fluid operated brakes. 2,957,551, 10-25-60, Cl. 188—71.  
 Nahrang, James R., and H. H. Pomeroy, to Dorr-Oliver Inc. Centrifuge construction. 2,923,464, 2-2-60, Cl. 233—29.  
 Nai, Alfredo. Process for the manufacture of interrupted filament yarns. 2,948,103, 8-9-60, Cl. 57—157.  
 Nailler, Charles R., and W. B. Jamison, to Consolidation Coal Co. Method and apparatus for splicing electrical mining cable. 2,936,257, 5-10-60, Cl. 154—2.22.  
 Naiman, Mark, and H. Schwartz, to Sperry Rand Corp. High frequency magnetic transducers. 2,947,592, 8-2-60, Cl. 346—74.



- Nalmer, Hubert. Process of manufacturing insulated magnet coils. 2,956,312, 10-18-60, Cl. 18-59.
- Nalmer, Hubert L. Switch-mounting assembly. 2,933,581, 4-19-60, Cl. 200-167.
- Nairn, John S.: *See*—  
Collins, David A., and Nairn. 2,932,554.
- Nairn, R. Frank, to Congoleum-Nairn Inc. Process for producing decorative foam surface coverings. 2,961,332, 11-22-60, Cl. 117-11.
- Najer, Henry, P. E. Chabrier de Lassauniere, and P. R. L. Giudicelli, to Les Laboratoires Dausse (Societe Anonyme). Phenylacetic esters having two basic substituents and production thereof. 2,952,685, 9-13-60, Cl. 260-294.3.
- Najer, Henry, and P. R. L. Giudicelli, to Les Laboratoires Dausse, (Societe Anonyme). New phenylacetic esters and production thereof. 2,963,485, 12-6-60, Cl. 260-294.3.
- Nakajima, William N.: *See*—  
Moretti, Louis J., and Nakajima. 2,922,726.
- Nakamura, Michiyuki, to The Regents of the University of California. Fast multivibrator circuit. 2,947,949, 8-2-60, Cl. 331-144.
- Nakao, Hideo: *See*—  
Sunagawa, Genshun, Soma, and Nakao. 2,964,566.
- Nakata, Arthur H.: *See*—  
Reynolds, Manning S., and Nakata. 2,963,898.
- Nakatani, Koma. Tripod for photographing cameras. 2,956,764, 10-18-60, Cl. 248-183.
- Nakayama, Masatoshi, to Asahi Kasei Kogyo Kabushiki Kaisha. Preparation of reactive cellulosic material. 2,957,797, 10-25-60, Cl. 162-158.
- Nakazawa, Koiti, M. Shibata, K. Tanabe, and H. Yamamoto, to Takeda Pharmaceutical Industries, Ltd. Production of dihydrostreptomycin. 2,931,756, 4-5-60, Cl. 195-80.
- Naken, Morris I. Silverware blanket and drawer. 2,952,510, 9-13-60, Cl. 21-2.5.
- Nakesch, Michael. Internal combustion engine with swash plate drive. 2,940,325, 6-14-60, Cl. 74-60.
- Nalco Chemical Co.: *See*—  
Bollenback, Carol H. 2,925,361.  
Braithwaite, David G. 2,933,456.  
Braithwaite, David G. 2,941,961.  
Braithwaite, David G. 2,943,065.  
Braithwaite, David G. 2,958,648.  
Burns, Robert R. 2,920,937.  
Burns, Robert R., and Goldenburg. 2,920,043.  
Chamot, Walter M. 2,957,824.  
Johnson, Carl E. 2,941,589.  
Johnson, Carl E. 2,957,003.  
Jursich, Myron J. 2,923,687.  
Keith, Carl D., Erickson, McGrew, and Braithwaite. 2,938,002.  
Larsonneur, Louis C. 2,947,703.  
Mindick, Morris, and Patzelt. 2,957,206.  
Reuter, Raymond, and Tozyldo. 2,929,790.  
Reuter, Raymond. 2,948,032.  
Reuter, Raymond. 2,949,375.  
Ryznar, John W. 2,923,041.  
Sterlin, Aaron. 2,945,821.  
Thielen, Lawrence E. 2,960,480.  
Thompson, Harris. 2,946,703.
- Nalette, Thomas A., and H. W. Lalmond, to Sanders Associates, Inc. Printed circuit article. 2,946,877, 7-26-60, Cl. 200-166.
- Nall, Hans A., 1/2 to W. E. Collins. Work holder for electroplating. 2,938,850, 5-31-60, Cl. 204-297.
- Nalin, Edward, E. J. Yoss, M. Sacks, and M. Smedresman, to Nysco Laboratories Inc. Sustained release medicament. 2,963,402, 12-6-60, Cl. 167-82.
- Nall, Arthur E., Jr.: *See*—  
Carter, Daniel H., and Nall. 2,958,010.
- Nall, Warren "L.". Paint applicator for corners. 2,929,089, 3-22-60, Cl. 15-230.
- Nalle, George S., Jr. Clothespin carrier assembly. 2,939,588, 6-7-60, Cl. 211-113.
- Nalley, Leonard L.: *See*—  
Ostergren, Ralph H., and Nalley. 2,931,910.
- Nallinger, Friedrich K. H. Suspension system for motor vehicles. 2,927,800, 3-8-60, Cl. 280-106.5.
- Nallinger, Friedrich K. H., to Daimler-Benz Aktiengesellschaft. Lubricating system for an internal combustion engine. 2,928,499, 3-15-60, Cl. 184-6.
- Nallinger, Friedrich K. H., to Daimler-Benz Aktiengesellschaft. Fuel injection combustion engine. 2,933,072, 4-19-60, Cl. 123-32.
- Nallinger, Friedrich K. H., to Daimler-Benz Aktiengesellschaft. Suspension of a drive aggregate in a motor vehicle. 2,935,149, 5-3-60, Cl. 180-64.
- Nallinger, Friedrich K. H., to Daimler-Benz Aktiengesellschaft. Driving device for vehicles. 2,935,899, 5-10-60, Cl. 74-730.
- Nallinger, Friedrich K. H., to Daimler-Benz Aktiengesellschaft. Swinging half-axle suspension of vehicles. 2,942,893, 6-28-60, Cl. 280-124.
- Nallinger, Friedrich K. H., to Daimler-Benz Aktiengesellschaft. Axle and spring arrangement for vehicles. 2,948,547, 8-9-60, Cl. 280-124.
- Nallinger, Friedrich K. H., and W. E. Altmann, to Daimler-Benz Aktiengesellschaft. Differential transmission. 2,938,407, 5-31-60, Cl. 74-650.
- Nalot, Jean P.: *See*—  
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- Namanny, William L. Staple setter and hammer. 2,963,706, 12-13-60, Cl. 1-49.
- Namenyi-Katz, Laszlo, to Epsilon Research and Development Co. Ltd. Electro-magnetic recording heads. 2,923,779, 2-2-60, Cl. 179-100.2.
- Namenyi-Katz, Laszlo, to Epsilon Research & Development Co. Ltd. Tape recorders. 2,960,611, 11-15-60, Cl. 250-222.
- Namian, Paul P.: *See*—  
Gloess, Paul F. M., and Namian. 2,941,719.
- Namian, Paul P., to Societe d'Electronique et d'Automatisme. Electric digital computers. 2,962,213, 11-29-60, Cl. 235-157.
- Namikawa, Mamoru: *See*—  
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Hoshino, Yasushi, Sato, and Namikawa. 2,940,763.  
Hoshino, Yasushi, Sato, Namikawa, and Tochiara. 2,924,668.
- Namiki, Yoshio: *See*—  
Sonobe, Shiro, Ishikawa, and Namiki. 2,933,882.
- Namur, Carl A., to Gilton Mfg. Co. Centrifugal pump impeller. 2,963,978, 12-13-60, Cl. 103-103.
- Nancarrow, Lawrence, to Baker Perkins Ltd. Shirt presses. 2,966,288, 12-27-60, Cl. 223-57.
- Nankervis, George L., Co.: *See*—  
Scourtes, George. 2,955,202.
- Nannichi, Yasuo, to International Standard Electric Corp. Transistor. 2,940,023, 6-7-60, Cl. 317-235.
- Nanninga, Arnold J. Disk sharpener. 2,963,925, 12-13-60, Cl. 76-85.
- Nantel, Andre: *See*—  
Mahlouff, Salomon. 2,929,444.
- Nantz, Dean L., to Wonder Products Co. Coiled spring structure. 2,924,448, 2-9-60, Cl. 267-74.
- Nanz, Robert H., to Shell Oil Co. Exploration of earth formation associated with petroleum deposits. 2,963,641, 12-6-60, Cl. 324-13.
- Napier, D., & Son Ltd.: *See*—  
Bayne, Bertram T. 2,956,627.  
Bishop, Basil T. G. 2,962,256.  
Bishop, Basil T. G. 2,962,259.  
Blyth, Jack V., and Gilbert. 2,933,893.  
Buckingham, David E. J. 2,942,416.  
Chamberlin, Reginald H. D. 2,926,732.  
Chamberlin, Reginald H. D. 2,937,703.  
Dennis, Leonard J. 2,940,726.  
French, Michael J. 2,956,773.  
Gilbert, Ronald A. 2,945,350.  
Harman, Rowland, and Williams. 2,941,120.  
Harrop, Raymond N., and Gardner. 2,950,942.  
Hore, Geoffrey D., and Rigelsford. 2,956,825.  
Hunter, Donald N. 2,937,152.  
Lane, Bernard F. A., and Strickland. 2,944,946.  
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McKeggie, William A. 2,956,576.  
McKeggie, William A., Dorey, Godden, Morris, and Cotton. 2,925,867.  
Minett, Herbert H. B., and Course. 2,961,971.  
Morley, Arnold W., Mortimer, and Davies. 2,932,944.  
Murray, George H., and Boyle. 2,932,984.  
Ramsay, Frank R. F. 2,927,248.  
Skellern, John. 2,940,254.  
Skellern, John. 2,940,517.
- Napier, Joe T., and J. F. MacMurray, to J. H. Baxter & Co. Pole shaving apparatus having bark breaker. 2,950,743, 8-30-60, Cl. 144-208.
- Naples, Angelo F.: *See*—  
Nardulli, Michael J. 2,921,348.
- Napoli, Carlo. Automatic fuel injector for internal combustion engines. 2,935,264, 5-3-60, Cl. 239-87.
- Napoli, John J. Grappling hand-rake. 2,942,401, 6-28-60, Cl. 56-400.12.
- Napolin, Seymour, and M. H. Harwood; said Harwood assignor to Granco Products Inc. Push button switches. 2,936,356, 5-10-60, Cl. 200-153.
- Napp, Sidney M., to Besley-Welles Corp. Grinding machine and method utilizing abrasive discs. Re. 24,777, 2-8-60, Cl. 51-118.
- Nappi, John J. Shoe cleaning device. 2,963,723, 12-13-60, Cl. 15-36.
- Naras Research Inc.: *See*—  
Schwartz, Nathan R. 2,925,294.  
Schwartz, Nathan R. 2,925,489.  
Schwartz, Nathan R. 2,943,187.  
Schwartz, Nathan R. 2,947,855.
- Narbo, Lauritz M. Combined faucet and valve. 2,936,098, 5-10-60, Cl. 222-90.
- Narbut, Paul: *See*—  
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- Narbut, Paul, to Westinghouse Electric Corp. Electrical apparatus. 2,924,635, 2-9-60, Cl. 174-15.
- Nardon, Carl J., to Nardon Mfg. Co. Accounting board. 2,944,838, 7-12-60, Cl. 282-29.
- Nardon Mfg. Co.: *See*—  
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- Nardone, Romeo M., to Breeze Corporations, Inc. Winch. 2,926,867, 3-1-60, Cl. 242-158.
- Nardoza, Daniel: *See*—  
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- Nardulli, Michael J., to said M. J. Nardulli, A. F. Naples, and P. F. Nardulli, trustees. Window structures. 2,921,348, 1-19-60, Cl. 20-52.



- Nardulli, Peter F.: *See*—  
Nardulli, Michael J. 2,921,348.
- Narel, Joseph W., to Norton Co. Grinding machine. Re. 24,884, 10-11-60, Cl. 51-105.
- Narel, Joseph W., and G. C. Joyce, to Norton Co. Grinding machine-work loader. Re. 24,885, 10-11-60, Cl. 51-105.
- Narel, Joseph W., and G. C. Joyce, to Norton Co. Grinding wheel truing apparatus. 2,963,017, 12-6-60, Cl. 125-11.
- Narizzano, John. Safety razor having a laterally adjustable guard. 2,958,128, 11-1-60, Cl. 30-60.5.
- Narud, Jan A., to United States of America, Navy. Millimicrosecond pulse circuits. 2,949,578, 8-16-60, Cl. 328-193.
- Nasarevich, Leo S.: *See*—  
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- Nash, Alfred G.: *See*—  
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- Nash Bros. Co.: *See*—  
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- Nash, Cleve C., to General Electric Co. Reduction of local oscillator radiation from an ultra-high frequency converter. 2,921,189, 1-12-60, Cl. 250-20.
- Nash, Edgar A.: *See*—  
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- Nash, Edward L., to Studebaker-Packard Corp. Three speed combination transmission and axle. 2,932,220, 4-12-60, Cl. 74-732.
- Nash Engineering Co.: *See*—  
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Adams, Harold E. 2,956,504.  
Adams, Harold E. 2,961,130.
- Nash, Floyd M.: *See*—  
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- Nash, Floyd M., to Jacuzzi Bros., Inc. Submersible float control. 2,930,867, 3-29-60, Cl. 200-84.
- Nash, Floyd M., to Jacuzzi Bros., Inc. Surface skimmer for swimming pools. 2,961,098, 11-22-60, Cl. 210-241.
- Nash, Harold A., and R. M. Brooker, to Allied Laboratories, Inc. Physiologically active alkaloids protoveratrine A and protoveratrine B. 2,929,812, 3-22-60, Cl. 260-236.
- Nash, Jack O.: *See*—  
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- Nash, Vernon V.: *See*—  
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- Nashe, Leif, to Dovre Ski Binding, Inc. Automatically releasable ski binding. 2,944,828, 7-12-60, Cl. 280-11.35.
- Nashman, Morton P.: *See*—  
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- Nashua Corp.: *See*—  
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- Nasmith, John I., and W. Kirby, to Vickers-Armstrongs (Engineers) Ltd. Wire stapling machines. 2,942,268, 6-28-60, Cl. 1-134.
- Nason, Harold A., to General Electric Co. Shipping container. 2,960,217, 11-15-60, Cl. 206-46.
- Nason, Leslie J.: *See*—  
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- Nass, Walter R., to General Dynamics Corp. Low noise electric switch. 2,938,094, 5-24-60, Cl. 200-164.
- Nassenstein, Heinrich, to Farbenfabriken Bayer Aktiengesellschaft. Process of and apparatus for the automatic counting of particles of any size and shape. 2,958,464, 11-1-60, Cl. 235-92.
- Nassenstein, Heinrich, to Farbenfabriken Bayer Aktiengesellschaft. Apparatus for the automatic counting and determining particle size distribution. 2,959,348, 11-8-60, Cl. 235-92.
- Nassimbene, Ernest, to The Gates Rubber Co. Pneumatic spring assembly. 2,925,265, 2-16-60, Cl. 267-65.
- Nast, Paul H. Rock drills. 2,946,314, 7-26-60, Cl. 121-15.
- Nasu, Osamu: *See*—  
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- Natco Corp.: *See*—  
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- Nathan, Alan H.: *See*—  
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- Nathan, Alan H., and J. A. Hogg, to The Upjohn Co. 2, substituted-1-methyl-7-methoxy-1,2,3,4,9,10-hexahydrophenanthrenes. 2,938,056, 5-24-60, Cl. 260-586.
- Nathan, Charles C., to Texaco Inc. Prevention of paraffin deposition. 2,927,078, 3-1-60, Cl. 252-8.3.
- Nathan, Frederick. Process of and apparatus for preparing photoengraved printing plates. 2,922,716, 1-26-60, Cl. 96-36.
- Nathan, Harry. Powered roll material dispenser. 2,937,554, 5-24-60, Cl. 83-203.
- Nathan, Marvin F.: *See*—  
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- Nathan, Marvin F., to The M. W. Kellogg Co. Treatment of carbonaceous solids. 2,933,822, 4-26-60, Cl. 34-10.
- Nathan, Richard T.: *See*—  
Ouellette, Clarence P., and Nathan. 2,921,421.
- Nathan, Walter, to Round Tubes & Cores Co. Supporting members. 2,919,878, 1-5-60, Cl. 248-194.
- Natho, Paul J. Multiple port valve. 2,959,189, 11-8-60, Cl. 137-622.
- Nation, Roger T.: *See*—  
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- National Acme Co. The: *See*—  
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- National Automatic Tool Co., Inc.: *See*—  
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- National Biscuit Co.: *See*—  
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- National Blank Book Co.: *See*—  
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- National Broach & Machine Co.: *See*—  
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- Nawa, Hayao, and M. Nishikawa, to Takeda Pharmaceutical Industries, Ltd. Pentahydroxysteroid and its esters. 2,966,502, 12-27-60, Cl. 260-397.5.
- Nawara, Jozef. Therapeutic apparatus. 2,920,890, 1-12-60, Cl. 272-58.
- Nawara, Jozef. Therapeutic apparatus. 2,921,790, 1-19-60, Cl. 272-58.
- Nawara, Jozef. Therapeutic apparatus. 2,928,675, 3-15-60, Cl. 272-58.
- Nawara, Jozef. Adjustable bed clamps for therapeutic devices. 2,930,566, 3-29-60, Cl. 248-230.
- Nawara, Jozef. Extensible and adjustable frame and supports for therapeutic apparatus. 2,960,701, 11-22-60, Cl. 5-181.
- Nawijn, Arjen, to N.V. Optische Industrie "De Oude Delft." Photographic camera. 2,949,830, 8-23-60, Cl. 95-12.5.
- Nawman, Rollie B., to Benner-Nawman, Inc. Telephone booth construction. 2,964,146, 12-13-60, Cl. 189-34.



- Nawoj, Edward J., and F. E. Newman, to Baxter Laboratories, Inc. Dispensing closure. 2,923,293, 2-2-60, Cl. 128-214.
- Naxon, Irving. Ultra violet lamps. 2,951,967, 9-6-60, Cl. 315-46.
- Naxon, Irving. Yieldable ball feeds for traveling sign controls. 2,965,738, 12-20-60, Cl. 200-158.
- Naylor, John H. C.: *See*—  
Doyle, Frank P., Naylor, and Rolinson. 2,941,995.  
Doyle, Frank P., Naylor, and Rolinson. 2,951,839.
- Naylor, Paul H. Illuminated pocket level. 2,944,144, 7-5-60, Cl. 240-644.
- Nazzewski, Mathew, to Sprague Electric Co. Glass sealing apparatus. 2,947,113, 8-2-60, Cl. 49-1.
- Neagle, Leo E., Jr. Teletypewriter remote cutoff system. 2,944,104, 7-5-60, Cl. 178-41.
- Neal, Arthur H.: *See*—  
Gamble, Leon W., Langer, and Neal. 2,951,045.
- Neal, Arthur H., to Esso Research and Engineering Co. Diluent purification process. 2,963,520, 12-6-60, Cl. 260-676.
- Neal, Arthur H., and J. F. Ross, to Esso Research and Engineering Co. Removal of metal contaminants in polymerization processes. 2,928,817, 3-15-60, Cl. 260-94.9.
- Neal, Arthur H., J. K. Mertzweiler, J. F. Ross, and C. L. Aldridge, to Esso Research and Engineering Co. Preparation of alkyl aluminum compounds. 2,952,698, 9-13-60, Cl. 260-448.
- Neal, Benjamin T. Automatic transmission. 2,948,164, 8-9-60, Cl. 74-705.
- Neal, Charles M., to Saco-Lowell Shops. Live spindle. 2,959,908, 11-15-60, Cl. 57-134.
- Neal, Conrad L., to United States of America, Navy. Transistor time delay device. 2,927,259, 3-1-60, Cl. 320-1.
- Neal, Frank A., and B. W. Myer, Jr. Arrow shaft, arrow and method of making the same. 2,926,016, 2-23-60, Cl. 273-106.5.
- Neal, Harold M. Automatic window cleaning device. 2,940,110, 6-14-60, Cl. 15-250.4.
- Neal, Raymond K.: *See*—  
Helle, George A., and Neal. 2,940,498.
- Neal, Richard B., and W. J. Gallagher, to United States of America, Atomic Energy Commission. Particle accelerator and method of controlling the temperature thereof. 2,956,201, 10-11-60, Cl. 315-5.41.
- Neal, Robert A., to Westinghouse Electric Corp. Centrifugal control mechanism. 2,938,502, 5-31-60, Cl. 121-43.
- Neale, Jack, and C. F. Malcolm, Jr., to Thiokol Chemical Corp. Reaction motor feed system. 2,935,846, 5-10-60, Cl. 60-39.48.
- Neale, Michael J.: *See*—  
Love, Phil P., and Neale. 2,960,370.
- Neapco Products Inc.: *See*—  
Ressler, Carl T., and Diffenderfer. 2,958,000.
- Nearman, Richard E., to United States of America, Navy. Material handling apparatus. 2,925,980, 2-23-60, Cl. 248-316.
- Nearman, Richard E., to United States of America, Navy. Dolly, weapon component transfer, suspended type. 2,950,123, 8-23-60, Cl. 280-106.5.
- Neary, Edward R.: *See*—  
Markus, Richard L., and Neary. 2,923,662.
- Neary, Francis B., to Textron Inc. Spectacle frame. 2,922,238, 1-26-60, Cl. 41-10.
- Neary, Francis B., to Textron Inc. Spectacle frame. 2,952,187, 9-13-60, Cl. 88-41.
- Neate, Elroy P., to General Motors Corp. Turbine nozzle. 2,942,844, 6-28-60, Cl. 253-78.
- Nebgen, William H.: *See*—  
Katz, Robert, Nebgen, and Anik. 2,944,801.
- Nebinger, Richard B., to Knapp-Monarch Co. Self-venting container. 2,939,611, 6-7-60, Cl. 222-131.
- Nebinger, Richard B., to Knapp-Monarch Co. Coupling for gas appliance. 2,962,307, 11-29-60, Cl. 285-317.
- Nebiolo S.p.A.: *See*—  
Papa, Paolo, and Capetti. 2,938,457.
- Neblett, Richard F.: *See*—  
Smith, Warren M., and Neblett. 2,955,928.
- Nece, Roger H., to The Dill Mfg. Co. Side wall valve and method of manufacture therefor. 2,944,580, 7-12-60, Cl. 152-429.
- Nechleba, Franz, to Siemens-Schuckertwerke Aktiengesellschaft. Two-stage dynamoelectric amplifier machine. 2,935,678, 5-3-60, Cl. 322-87.
- Neckel, Edmund N., and L. B. Wessel, to The American Laundry Machinery Co. Hydraulic laundry press. 2,948,071, 8-9-60, Cl. 38-41.
- Nectoux, Henri, to Societe des Forges et Ateliers du Creusot. Movable panel. 2,947,354, 8-2-60, Cl. 160-91.
- Neder, Maxwell J., to United States of America, Army. Feeding system, continuous clip type. 2,926,568, 3-1-60, Cl. 89-126.
- Nederlandse Centrale Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek: *See*—  
De Whalley, Christopher H., and Van Hoek. 2,948,668.
- Nederlandse Instituut voor Vliegtuigontwikkeling: *See*—  
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- Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van de Rijksverdediging: *See*—  
Vos, Johannes J. 2,929,295.
- Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten Behoeve Van De Rijksverdediging (The National Defence Research Council-T.N.O.): *See*—  
Van Heel, Abraham C. S., Beernink, and Raterink. 2,947,219.  
Van Heel, Abraham C. S., Beernink, and Raterink. 2,964,997.
- Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid, Handel en Verkeer: *See*—  
Van Bochove, Cornelis, and Hueck. 2,938,815.  
Van der Kerk, Gerrit J. M. 2,963,465.
- Nedwick, John J., and J. K. Snyder, to Rohm & Haas Co. Preparation of thioethers. 2,930,815, 3-29-60, Cl. 260-607.
- Nee, David S., to Marchant Research, Inc. Binary number modifiers. 2,925,219, 2-16-60, Cl. 235-165.
- Needham, Basil A., to Thermway Industries, Inc. Method of making a heating panel. 2,939,807, 6-7-60, Cl. 117-212.
- Needham Mfg. Co. Inc.: *See*—  
Lazott, Wesley E., and Cutler. 2,937,482.  
Spang, Carl F., and Lazott. 2,920,342.  
Spang, William F. 2,948,016.
- Neef, Walter, and D. P. Turner, to The Toledo Pipe Threading Machine Co. Pipe vise. 2,958,245, 11-1-60, Cl. 81-19.
- Neely, John T. Collapsible basket. 2,942,750, 6-28-60, Cl. 220-6.
- Neely, Lloyd F., to P. R. Mallory & Co. Inc. Ignition breaker. 2,947,828, 8-2-60, Cl. 200-30.
- Neely Mfg. Co.: *See*—  
Mandukich, Svetozar. 2,950,591.
- Neely, Richard S., to Lord Mfg. Co. Pump. 2,948,227, 8-9-60, Cl. 103-117.
- Neely, Rodgers, to Alexander Ungar, Inc. Box-making machine. 2,962,944, 12-6-60, Cl. 93-41.
- Neely, Wesley B., to The Dow Chemical Co. Control of calcium to increase dextranucrose. 2,961,379, 11-22-60, Cl. 195-31.
- Neely, William H., to Universal Inc. Reinforced wire spring structure. 2,936,821, 5-17-60, Cl. 155-179.
- Neely, William H., to Universal Inc. Seating construction. 2,936,822, 5-17-60, Cl. 155-179.
- Neely, William H., to Universal Inc. Seating construction. 2,936,823, 5-17-60, Cl. 155-179.
- Neely, William H., to Universal Inc. Wire spring seat construction. 2,936,824, 5-17-60, Cl. 155-179.
- Neely, William H., to Universal Inc. Wire spring and spring seat construction. 2,936,825, 5-17-60, Cl. 155-179.
- Neesby, Torben E., to Carroll Dunham Smith Pharmaceutical Co. Polythionate compound at most somewhat soluble in water. Re. 24,763, 1-12-60, Cl. 260-247.1.
- Neff, Darby B., and T. F. Lewis, to American Brake Shoe Co. Horsepower limiting device. 2,932,948, 4-19-60, Cl. 60-52.
- Neff Eng. Co.: *See*—  
Neff, Thomas H. 2,929,400.
- Neff, Glyn A., to Neff Instrument Corp. Electrical signal amplifier. 2,961,614, 11-22-60, Cl. 330-10.
- Neff Instrument Corp.: *See*—  
Neff, Glyn A. 2,961,614.
- Neff, John R.: *See*—  
Moody, Charles W., Neff, Gray, and Kettler. 2,947,065.
- Neff, Joseph A., to Olin Mathieson Chemical Corp. Preparation of liquid reaction products of diborane and unsaturated hydrocarbons. 2,964,567, 12-13-60, Cl. 260-606.5.
- Neff, Lester E. and N. O. Pole holder with powered line casting means. 2,958,975, 11-8-60, Cl. 43-19.
- Neff, Nida O.: *See*—  
Neff, Lester E. and N. O. 2,958,975.
- Neff, Robert B. Toilet tissue holder and dispenser. 2,959,368, 11-8-60, Cl. 242-55.2.
- Neff, Russell F.: *See*—  
Hungerford, Philip C., Jr., and Neff. 2,951,568.
- Neff, Thomas H., to Neff Eng. Co. Inline valve construction. 2,929,400, 3-22-60, Cl. 137-516.15.
- Neff, Wayne W. Drag broom apparatus. 2,962,946, 12-6-60, Cl. 94-44.
- Neff, William H. Dispensing and distributing apparatus. 2,926,820, 3-1-60, Cl. 222-197.
- Neffen, Karl F., to United States of America, Commerce. Plastic film abrasive sheet. 2,937,934, 5-24-60, Cl. 51-293.
- Negley, Mervin E.: *See*—  
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- Negoro, Kaiji, to Continental Can Co., Inc. Flat-top paper milk carton. 2,926,832, 3-1-60, Cl. 229-37.
- Negre, Pierre: *See*—  
Ferrie, Franck G. M., and Negre. 2,949,012.
- Negretra, Carlos M. T. Planting machine. 2,920,586, 1-12-60, Cl. 111-8.
- Negri, Franco, to Ing. C. Olivetti, & C., S.p.A. Tape reader. 2,954,161, 9-27-60, Cl. 235-61.11.
- Neher, Henry V., and A. R. Johnston. Automatic ionization chamber. 2,963,589, 12-6-60, Cl. 250-83.6.
- Neher, Robert: *See*—  
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 2,934,543.
- Nebi Beverage Co. of Los Angeles: *See*—  
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- Neibel, De Witt E., and W. R. Carter. Bottle holder for nursing bottle. 2,932,476, 4-12-60, Cl. 248—106.
- Neidenberg, Lawrence L., V. Tamburr, and J. A. Hunt, to Industrial Timer Corp. Punch card control system. 2,930,941, 3-29-60, Cl. 317—139.
- Neidhardt, Hans U., to H. A. Schlatter Aktiengesellschaft. Electronic sequence-timing switch. 2,921,195, 1-12-60, Cl. 250—27.
- Neidhardt, Karl, to Heinr. Auer, Muehlenwerke. Endless conveyor for loose materials. 2,928,523, 3-15-60, Cl. 198—52.
- Neidhardt, Rudolf, and F. Bahmann, to Triumph Werke Nurnberg A.G. Repeat actuation mechanism for business machines. 2,951,572, 9-6-60, Cl. 197—17.
- Neidhart, Robert F.: *See—*  
Snyder, Harold M., and Neidhart. 2,939,305.
- Neidigh, Rodger V., to United States of America, Atomic Energy Commission. Arc discharge and method of producing the same. 2,928,966, 3-15-60, Cl. 313—63.
- Neidl, Georg. Rotary pumps, particularly for delivery of sewage, thick slurries and the like liquids. 2,956,503, 10-18-60, Cl. 103—103.
- Neidle, Joel, and J. V. McCarthy, to Fairchild Camera and Instrument Corp. Photographic processing apparatus. 2,948,209, 8-9-60, Cl. 95—89.
- Neier, Reinhard, and W. Wehrli, to Sandoz A.G. Metalliferous azo dyestuffs. 2,936,304, 5-10-60, Cl. 260—151.
- Neighbors, Ralph P.: *See—*  
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Hopkins, Thomas R., Neighbors, and Hoffmann. 2,957,800.  
Pullen, Joe W., Neighbors, Clark, Hoffmann, and Meunier. 2,951,786.
- Neild, William G., to Bendix Aviation Corp. Electric regulator. 2,929,039, 3-15-60, Cl. 338—103.
- Neiler, James R. Putting practice game. 2,951,704, 9-6-60, Cl. 273—180.
- Neill, John: *See—*  
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- Neill, Oswald S., to The de Havilland Aircraft of Canada Ltd. Method for finding faults in a plurality of conductors. 2,962,659, 11-29-60, Cl. 324—73.
- Neilsen, Peter C. Disk type rasp. 2,958,118, 11-1-60, Cl. 29—78.
- Neilson Chemical Co.: *See—*  
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Neilson, Howard R. 2,943,797.
- Neilson, Donald. Miter box. 2,940,484, 6-14-60, Cl. 143—6.
- Neilson, Howard R., deceased, S. W. Neilson, executrix,  $\frac{1}{2}$  to Neilson Chemical Co. Apparatus for treating surfaces. 2,943,797, 7-5-60, Cl. 239—305.
- Neilson, Roger D. Game instruction apparatus. 2,946,134, 7-26-60, Cl. 35—29.
- Neilson, Shirley W.: *See—*  
Neilson, Howard R. 2,943,797.
- Neilson, William: *See—*  
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- Nelman, William T.: *See—*  
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- Nelmeier, Kurt: *See—*  
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- Nelmeth, George: *See—*  
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- Neipert, Marshall P.: *See—*  
Blue, Robert D., and Neipert. 2,943,033.  
Blue, Robert D., and Neipert. 2,944,956.
- Neipert, Marshall P., R. D. Blue, and R. M. Hunter, to The Dow Chemical Co. Mercury-cell electrolysis of sodium chloride brine. 2,949,412, 8-16-60, Cl. 204—99.
- Neir, Theron E., to General Motors Corp. Concentric valve internal combustion engine. 2,935,055, 5-3-60, Cl. 123—41.41.
- Neisewander, Ray H., to Raynor Mfg. Co. Panel door construction. 2,928,462, 3-15-60, Cl. 160—229.
- Neisewander, Ray H., to Raynor Mfg. Co. Paneled door construction. 2,931,435, 4-5-60, Cl. 160—229.
- Neiswinter, James T.: *See—*  
Andrews, Clayton F., Chamberlin, and Neiswinter. 2,948,777.
- Neiswinter, James T., to American Telephone and Telegraph Co. Device for automatically producing teletypewriter signals. 2,952,733, 9-13-60, Cl. 178—2.
- Neitzel, Joseph C., to The Murray Co. of Texas, Inc. Roller gin knife mount. 2,955,328, 10-11-60, Cl. 19—50.
- Neitzert, Willi: *See—*  
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- Nekut, Anthony G., and M. B. Shrader, to Radio Corp. of America. Power tubes for operation at high frequencies. 2,950,411, 8-23-60, Cl. 303—250.
- Nelkin, Arthur: *See—*  
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- Nelkin, Nedwin R., to HG Enterprises. Truss. 2,926,663, 3-1-60, Cl. 128—100.
- Nell, Frederic: *See—*  
Berkey, Harry L., and Nell. 2,919,612.
- Nelligan, Thomas P., to Albert Schwill & Co. Self-unloading compartment. 2,931,523, 4-5-60, Cl. 214—82.
- Nelsen, Elhart F. Colostomy appliances. 2,958,326, 11-1-60, Cl. 128—283.
- Nelsen, Fred M., and F. T. Eggertsen, to Shell Oil Co. Method and apparatus for determination of surface areas. 2,960,870, 11-22-60, Cl. 73—432.
- Nelsen, Marvin G., to Leach Corp. Method of assembling a relay. 2,962,804, 12-6-60, Cl. 29—155.55.
- Nelsen, Ronald N., to General Electric Co. Method of forming an adherent film of magnesium oxide. 2,939,808, 6-7-60, Cl. 117—222.
- Nelson, Alden W., to Franklin Research Corp. Reel-winding apparatus. 2,932,462, 4-12-60, Cl. 242—25.
- Nelson, Alfred M.: *See—*  
Azari, Eric, and Nelson. 2,954,226.  
Hayes, Robert M., Nelson, and Wiener. 2,965,291.
- Nelson, Alfred M., H. M. Stern, and J. B. Wiener, to Magnavox Co. Card processing apparatus. 2,936,169, 5-10-60, Cl. 271—5.
- Nelson, Alfred N. Tennis ball carrier and dispenser. 2,966,280, 12-27-60, Cl. 221—307.
- Nelson, Arthur J. Elevator discharge hydraulic dredge. 2,933,837, 4-26-60, Cl. 37—65.
- Nelson, Barton R. Sprinkler. 2,945,385, 7-19-60, Cl. 74—75.
- Nelson, Beverlee: *See—*  
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- Nelson, Brooks E., to The Osborn Mfg. Co. Brush element. 2,963,730, 12-13-60, Cl. 15—182.
- Nelson, Brooks E., and R. O. Peterson, to The Osborn Mfg. Co. Brushing machine. 2,928,112, 3-15-60, Cl. 15—21.
- Nelson, Brooks E., and W. A. Gray, to The Osborn Mfg. Co. Pipe cleaning pig. 2,957,189, 10-25-60, Cl. 15—104.06.
- Nelson, Bruce K., to Arco Mfg. Corp. Phase comparator system. 2,954,524, 9-27-60, Cl. 324—88.
- Nelson, Charles E., to Nelson Muffler Corp. Exhaust muffler. 2,928,492, 3-15-60, Cl. 181—47.
- Nelson, Charles J., to Troy Blanket Mills. Method of and apparatus for producing a felt-like fibrous material. 2,927,350, 3-8-60, Cl. 19—163.
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- Nelson Chemicals Co.: *See—*  
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- Nelson, Christian H. Dispensing container for liquid and powder. 2,940,420, 6-14-60, Cl. 118—265.
- Nelson, Conrad E., and W. L. Whirry, to Hughes Aircraft Co. Reflectionless microwave filter. 2,951,218, 8-30-60, Cl. 333—9.
- Nelson, Corless B., and J. M. Smidl, to General Motors Corp. Railway vehicle. 2,926,618, 3-1-60, Cl. 105—454.
- Nelson, Dale H.: *See—*  
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- Nelson, Earl W., J. E. Bondurant, and G. C. Marcot, to American Cyanamid Co. Titanium dioxide from titanium tetrachloride. 2,957,753, 10-25-60, Cl. 23—202.
- Nelson, Eldred C.: *See—*  
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- Nelson, Elliott S., to Embassy Steel Products, Inc. Finned heating unit with guide rails. 2,963,276, 12-6-60, Cl. 257—133.
- Nelson, Forrest A.: *See—*  
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- Nelson, Francis S., to Nelson-Price, Inc. Warning signal device. 2,931,026, 3-29-60, Cl. 340—366.
- Nelson, G. H.: *See—*  
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- Nelson, George D.: *See—*  
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- Nelson, George J.: *See—*  
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- Nelson, George J. Apparatus for controlling frost damage to fruit trees and vegetables. 2,953,870, 9-27-60, Cl. 47—21.
- Nelson, George R., Sr. Window assembly with removable sashes. 2,934,799, 5-3-60, Cl. 20—52.2.
- Nelson, Gordon A.: *See—*  
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- Nelson, Gordon E., to Combustion Engineering, Inc. Wide range signal level transfer circuit. 2,960,662, 11-15-60, Cl. 330—128.
- Nelson, Harry: *See—*  
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- Nelson, Harry, to Artercraft Venetian Blind Mfg. Co. of St. Louis. Apparatus for cutting and bending strip materials. 2,963,066, 12-6-60, Cl. 153—16.
- Nelson, Henry R.: *See—*  
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- Nelson, Howard F. Fish point for arrows. 2,963,811, 12-13-60, Cl. 43—6.
- Nelson, Howard N.: *See—*  
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- Nelson, Howard N., to Kimberly-Clark Corp. Dispensing carton. 2,927,714, 3-8-60, Cl. 221—48.
- Nelson, J. R.: *See—*  
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- Nelson, James B. Device for enclosing dry cleaned clothes in inverted bags. 2,948,095, 8-9-60, Cl. 53—241.
- Nelson, James K., to Westinghouse Electric Corp. Ice maker. 2,941,377, 6-21-60, Cl. 62—73.
- Nelson, James K., to Westinghouse Electric Corp. Ice making apparatus. 2,941,378, 6-21-60, Cl. 62—73.
- Nelson, James K., to Westinghouse Electric Corp. Ice making apparatus. 2,941,379, 6-21-60, Cl. 62—135.



- Nelson, James K., Westinghouse Electric Corp. Ice maker. 2,942,435, 6-28-60, Cl. 62-233.
- Nelson, Jerry A., T. G. Miller, and K. C. Smeltz, to E. I. du Pont de Nemours and Co. Water- and oil-repelling agents and process of making same. 2,958,613, 11-1-60, Cl. 117-121.
- Nelson, Jerry A., T. G. Miller, and K. C. Smeltz, to E. I. du Pont de Nemours & Co. Fluoroalkyl chlorocarbonates and carbamates. 2,959,611, 11-8-60, Cl. 260-463.
- Nelson, John D., to General Electric Co. High bond strength laminate product. 2,938,822, 5-31-60, Cl. 154-137.
- Nelson, John F., to United States Steel Corp. Wire coiler. 2,919,867, 1-5-60, Cl. 242-78.
- Nelson, John S. Permanent mold and method for making cast link chain of aluminum or bronze. 2,957,215, 10-25-60, Cl. 22-216.
- Nelson, John W., to Sinclair Refining Co. Process for preparing rheopectic calcium 12-hydroxy stearate grease. 2,940,931, 6-14-60, Cl. 252-39.
- Nelson, John W., to Sinclair Refining Co. Calcium base grease containing a calcium salt of an amidic acid. 2,947,696, 8-2-60, Cl. 252-33.6.
- Nelson, John W., to Sinclair Refining Co. Lubricating oil thickened with a metal soap of an alpha sulfo-fatty acid. 2,951,809, 9-6-60, Cl. 252-33.
- Nelson, Joseph F.: See—  
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- Wiese, Herbert K., Nelson and Morrell. 2,951,057.
- Nelson, Kurt B. Leg brace orthopedic appliance. 2,943,622, 7-5-60, Cl. 128-80.
- Nelson, L. R., Mfg. Co., Inc.: See—  
Ballard, Walter W. 2,921,474.
- Nelson, Leland F. Bale loader attachment for vehicles. 2,954,886, 10-4-60, Cl. 214-80.
- Nelson, Leland K. House trailer awning with attaching means. 2,948,288, 8-9-60, Cl. 135-5.
- Nelson, Marcus, and B. K. Roberts, to King-Seeley Corp. Refrigeration apparatus. 2,952,141, 9-13-60, Cl. 62-354.
- Nelson, Melvin E.: See—  
Hoffman, Kenneth R., and Nelson. 2,934,464.
- Nelson, Melvin E., to The Hufford Corp. Power actuated wheel elevating and supporting stand. 2,945,522, 7-19-60, Cl. 144-288.
- Nelson, Milton A., to Thomas A. Nelson. Garden tool. 2,947,370, 8-2-60, Cl. 172-375.
- Nelson Muffler Corp.: See—  
Bryant, Edwin E. 2,960,179.
- Nelson, Charles E. 2,928,492.
- Nelson, Nels H. Tobacco ash receptacle. 2,962,181, 11-29-60, Cl. 220-1.
- Nelson, Nolan B. Planer knife grinder. 2,957,280, 10-25-60, Cl. 51-55.
- Nelson, Noral A.: See—  
Morse, Henry E., Nelson, and Springer. 2,935,968.
- Morse, Henry E., Nelson, and Springer. 2,935,970.
- Nelson, Noral A., and W. A. Wathen, to Massey-Ferguson Inc. Bale tying mechanism and drive. 2,963,958, 12-13-60, Cl. 100-11.
- Nelson, Norman E.: See—  
Erickson, Harold E., N. E. and C. V. Nelson, and Schubert. 2,930,474.
- Nelson, Norman A., to Jersey Production Research Co. Fluid meter. 2,954,693, 10-4-60, Cl. 73-221.
- Nelson, Norman A., to Jersey Production Research Co. Shuttle valve. 2,954,801, 10-4-60, Cl. 137-620.
- Nelson, Norman E., to Doak Aircraft Co., Inc. Means to increase static pressure and enhance forward thrust of aircraft components. 2,948,111, 8-9-60, Cl. 60-35.5.
- Nelson, Oscar L. Switches. 2,923,787, 2-2-60, Cl. 200-67.
- Nelson, Paul H., to The Stanley Works. Door aligning device. 2,953,809, 9-27-60, Cl. 16-1.
- Nelson, Permil N., to L. H. Ewing. Chuck from paper rolls. 2,942,892, 6-28-60, Cl. 279-2.
- Nelson, Permil N., to L. H. Ewing, d.b.a. Blackhawk Co. Water closet flush valve. 2,959,790, 11-15-60, Cl. 4-56.
- Nelson-Price, Inc.: See—  
Nelson, Francis S. 2,931,026.
- Nelson, Raymond F. Wallet guard. 2,941,267, 6-21-60, Cl. 24-3.
- Nelson, Raymond W.: See—  
Landgraf, Jacob T., and Nelson. 2,923,274.
- Reeder, Charles J., and Nelson. 2,951,417.
- Nelson, Reuben F. Car Journal rebrasser. 2,960,307, 11-15-60, Cl. 254-2.
- Nelson, Richard B., to Varian Associates. Electron tube apparatus. 2,928,972, 3-15-60, Cl. 313-83.
- Nelson, Richard B., to Varian Associates. Electron tube apparatus. 2,939,036, 5-31-60, Cl. 315-5.47.
- Nelson, Richard B., and R. S. Symons, to Varian Associates. Thermionic tube apparatus. 2,963,616, 12-6-60, Cl. 315-5.54.
- Nelson, Robert E. Exhaust condensers. 2,966,233, 12-27-60, Cl. 183-40.
- Nelson, Robert F., to Forestry Enterprises, Inc. Flexible wood preservative bandages. 2,955,331, 10-11-60, Cl. 21-62.
- Nelson, Robert H., to Sage Electronics Corp. Resistor. 2,942,222, 6-21-60, Cl. 338-243.
- Nelson, Robert P.: See—  
Hudson, Kenneth, and Nelson. 2,951,985.
- Nelson, Roger J., to Deere & Co. Draft load control for tractors. 2,946,392, 7-26-60, Cl. 172-7.
- Nelson, Roy A. Variable speed transmission. 2,952,167, 9-13-60, Cl. 74-689.
- Nelson, Russell A., and S. Zirinsky, to General Electric Co. Heat resistant composition. 2,937,101, 5-17-60, Cl. 106-55.
- Nelson, Seddon C., to American Viscose Corp. Extrusion nozzle. 2,923,971, 2-9-60, Cl. 18-12.
- Nelson, Seddon C., to American Viscose Corp. Mechanical roll changer. 2,950,873, 8-30-60, Cl. 242-56.
- Nelson, Thomas A.: See—  
Nelson, Milton A. 2,947,370.
- Nelson, Walter E., to Varian Associates. Cathode and method of making same. 2,939,033, 5-31-60, Cl. 313-346.
- Nelson, Walter K.: See—  
Dempster, Augustine N., and Nelson. 2,933,408.
- Nelson, Wesley C. Electrical leakage tester. 2,960,654, 11-15-60, Cl. 324-73.
- Nelson, William B. Window check rail painter. 2,955,308, 10-11-60, Cl. 15-106.
- Nelson, William O. Fishing lure. 2,950,559, 8-30-60, Cl. 43-42.02.
- Nelson, William O. Automatic variable speed transmission. 2,956,443, 10-18-60, Cl. 74-336.5.
- Nelson, William T., to Phillips Petroleum Co. Resolution of phosphorus trihalide-hydrocarbon azeotropes. 2,922,753, 1-26-60, Cl. 202-39.5.
- Nelson, William T., to Phillips Petroleum Co. Unsymmetrical dimethyl hydrazine as a solvent for acetylene. 2,926,750, 3-1-60, Cl. 183-115.
- Nelson, Nels, to United States Gypsum Co. Wall finishing construction. 2,942,703, 6-28-60, Cl. 189-88.
- Nelting, Heinz, to North American Philips Co., Inc. Arrangement for checking the zero constancy of Wheatstone impedance measuring bridges. 2,943,480, 7-5-60, Cl. 73-88.5.
- Nemec, Fred A., E. C. Martin, and R. W. and R. E. Nemec. Dual fuel system. 2,940,435, 6-14-60, Cl. 123-139.
- Nemec, Joseph W., and E. L. Wolfe, to Rohm & Haas Co. 1,4-bis (β-hydroxyethylaminomethyl)-2,3,5,6-tetramethylbenzene and metal salt complexes thereof. 2,964,446, 12-13-60, Cl. 167-30.
- Nemec, Raymond E.: See—  
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- Nemeth, Joseph J.: See—  
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- Nemeth, Otto R. Electric relay. 2,927,177, 3-1-60, Cl. 200-87.
- Nemeth, Otto R. Electromagnetic timing device. 2,945,932, 7-19-60, Cl. 200-97.
- Nemeth, Otto R. Air cooled gas turbine power plant. 2,950,598, 8-30-60, Cl. 60-39.51.
- Nemoede, Donald P., to Baljak Corp. Dividers for boxes. 2,964,230, 12-13-60, Cl. 229-42.
- Nemoede, Fred: See—  
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- Nemphos, Speros P., to Monsanto Chemical Co. Compositions comprising a styrene polymer, a hydrocarbon and an amino acid and method of foaming same. 2,956,960, 10-18-60, Cl. 260-2.5.
- Nentwig, Gerda C. M. L.: See—  
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- Nentwig, Joachim, and H. Schnell, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of pentachlorophenyl ethers of polyhydric alcohols. 2,946,806, 7-26-60, Cl. 260-340.7.
- Nenzell, Joseph F., to Parker Hannifin Corp. High pressure sealing device. 2,949,325, 8-16-60, Cl. 288-23.
- Neon Products, Inc.: See—  
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- Neoplastik Braunschweiger Kunststoffwerk G.m.b.H.: See—  
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- Neo-Ray Products, Inc.: See—  
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- Neptune, Herman P. Wire feeding and cutting machine with feed effectively stopped by rolling back on wire. 2,930,268, 3-29-60, Cl. 83-80.
- Neptune, Herman P. Door button. 2,938,745, 5-31-60, Cl. 292-204.
- Nerad, Anthony J.: See—  
Klint, Robert V., and Nerad. 2,933,286.
- Nerad, Anthony J., and R. H. Johnson, to General Electric Co. Afterburner flameholder. 2,948,117, 8-9-60, Cl. 60-39.72.
- Nerenberg, Robert W., to Bergstein Packaging Trust. Closure means for dispensing container. 2,964,226, 12-13-60, Cl. 229-17.
- Nergaard, Leon S., to Radio Corp. of America. Electron beam tube. 2,955,227, 10-4-60, Cl. 315-3.6.
- Nerlich, Willi, to Siemens-Schuckertwerke Aktiengesellschaft. Electric terminal connector. 2,949,597, 8-16-60, Cl. 339-272.
- Neros, Clifford A.: See—  
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- Neros, Clifford A., and G. A. Miller, to Diamond Alkali Co. Chemical composition and process. 2,951,101, 8-30-60, Cl. 260-651.
- Nerwin, Henry N., to Magnaflux Corp. Testing circuit. 2,942,178, 6-21-60, Cl. 324-40.
- Nerwin, Henry N., Jr., to Magnaflux Corp. Sonic thickness measuring apparatus. 2,921,466, 1-19-60, Cl. 73-67.8.
- Nerwin, Hubert, to Graflex, Inc. Photographic camera. 2,943,549, 7-5-60, Cl. 95-44.
- Nesbitt, Clifford W.: *See—*
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- Nesbitt, John D., to Midland-Ross Corp. Shadow rails. 2,940,741, 6-14-60, Cl. 263-6.
- Nesbitt, John D., to Midland-Ross Corp. Skid rail apparatus for furnaces. 2,953,303, 9-20-60, Cl. 263-6.
- Nesbitt, John D., and T. W. Munford, to Midland-Ross Corp. Heating method and apparatus. 2,944,805, 7-12-60, Cl. 263-7.
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- Ruschig, Heinrich, Korger, and Nesemann. 2,923,737.
- Nesenoff, Norman, to Sperry Rand Corp., Ford Instrument Co. Division. Electronic function generator. 2,939,082, 5-31-60, Cl. 328-143.
- Nesenoff, Norman, to Sperry Rand Corp., Ford Instrument Co. Division. Electronic clipping circuit. 2,946,011, 7-19-60, Cl. 328-135.
- Nesh, Florence. High temperature resistant water-leak detecting composition. 2,966,467, 12-27-60, Cl. 252-408.
- Nesh, Florence. Determination of minute traces of water by use of methylene blue. 2,950,958, 8-30-60, Cl. 23-230.
- Nesme, Maurice. Crown corks. 2,961,111, 11-22-60, Cl. 215-39.
- Ness, Harold J.: *See—*
- Rusciano, Frank A., and Ness. 2,934,330.
- Ness, Norman M.: *See—*
- Shaw, Richard E., and Ness. 2,935,431.
- Ness, Odvar A., to Sprague Electric Co. Filter. 2,937,348, 5-17-60, Cl. 333-79.
- Ness, William H. C., to National Cornice Works. Mobile hot and cold food cart. 2,948,798, 8-9-60, Cl. 219-19.
- Nessel, Jiri M., and P. B. Johnson, to Clary Corp. Paper feeding device. 2,952,349, 9-13-60, Cl. 197-127.
- Nesselberger, Walter. Device for preventing rolling of vehicles and the like. 2,957,549, 10-25-60, Cl. 188-4.
- Nessell, Clarence W., to Minneapolis-Honeywell Regulator Co. Zone temperature control apparatus with shifting authority. 2,949,234, 8-16-60, Cl. 236-11.
- Nessteth, Clifford A. Teat cup inflation. 2,944,514, 7-12-60, Cl. 119-14.49.
- Nestlerode, Clifford D., and D. C. Felt, to Allen B. Du Mont Laboratories, Inc. Detent mechanism. 2,932,980, 4-19-60, Cl. 74-527.
- Nestor, Leonard R., and R. A. Le Page, to Minnesota Mining and Mfg. Co. Production of groundwood pulp. 2,934,279, 4-26-60, Cl. 241-200.
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- Netherwood, Paul H., to Sprague Electric Co. Electrical capacitors. 2,938,153, 5-24-60, Cl. 317-258.
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- Russell, Fred J., and Netschert. 2,959,439.
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- Netten, Erik: *See—*
- Willems, Ebertus, and Netten. 2,948,815.
- Netterfield, Earl C. Electrical control. 2,926,223, 2-23-60, Cl. 200-61.52.
- Nettle, Lawrence C. Wall construction. 2,924,962, 2-16-60, Cl. 72-16.
- Nettleton, David L.: *See—*
- Bensky, Lowell S., Nettleton, and Beard. 2,926,338.
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- Networks Electronic Corp.: *See—*
- Massar, Julius C. 2,934,622.
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- Netzler, John M.: *See—*
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- Kranen-Fiedler, Ursula, and Neu. 2,951,073.
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- Hackbart, Reuben J., and Neubauer. 2,955,751.
- Johnsen, Clifford N., and Neubauer. 2,948,498.
- Neubauer, Emil T., to The Trane Co. Refrigeration system control. 2,926,503, 3-1-60, Cl. 62-199.
- Neubauer, Gilbert A.: *See—*
- Rauch, Konrad, Jorgensen, Neubauer, Ferrin, Knelsley, Stork, and Harsch. 2,947,475.
- Neubauer, Patrick S. Liquid petroleum gas valve for internal combustion engines. 2,924,514, 2-9-60, Cl. 48-180.
- Neubauer, Werner G.: *See—*
- Ellison, John V., and Neubauer. 2,928,708.
- Neubeck, Karl: *See—*
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- Neubeck, Karl, to Westinghouse-Bremens-Gesellschaft m.b.H. Load compensating brake control apparatus for railway cars. 2,950,147, 8-23-60, Cl. 303-22.
- Neuberg, Raymond E.: *See—*
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- Neuberg, William J., Jr.: *See—*
- Kiank, Walter C., Hughes, and Neuberg. 2,942,610.
- Neubig, Joseph C. Garment pin. 2,932,869, 4-19-60, Cl. 24-85.
- Neuendorfer, Carl, and R. E. Clafflin, Jr., to The Oilgear Co. Preset transducer assembly. 2,921,285, 1-12-60, Cl. 338-317.
- Neuert, Llewellyn M. Safety electric kettle. 2,923,804, 2-2-60, Cl. 219-44.
- Neufeld, Lester N. Underwater goggles. 2,928,097, 3-15-60, Cl. 2-14.
- Neufischer, Heinz, to International Standard Electric Corp. Arrangement for securing in position one or more helices in traveling wave tubes. 2,954,534, 9-27-60, Cl. 333-31.
- Neugass, Edwin A. Instrument lighting devices. 2,945,145, 7-12-60, Cl. 313-108.1.
- Neugebauer, Hermann, to Siemens Schuckertwerke Aktiengesellschaft. Electrical impedance responsive devices. 2,924,775, 2-9-60, Cl. 324-57.
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- Neugebauer, Wilhelm, to Azoplate Corp. Drazo compounds and printing plates manufactured therefrom. 2,958,599, 11-1-60, Cl. 96-33.
- Neugebauer, Wilhelm, O. Süss, and F. Endermann, to Azoplate Corp. Light sensitive material. 2,959,482, 11-8-60, Cl. 96-33.
- Neuhart, David S. Side lining for car walls. 2,919,663, 1-5-60, Cl. 105-423.
- Neuhaus, Dipl.-Ing. Gustav K.: *See—*
- Stirnberg, Ferdinand H. 2,936,621.
- Neuhaus, Gustav K. Flow meter. 2,936,620, 5-17-60, Cl. 73-202.
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- Krohn, Gilbert S., Neuhaus, and Ahlgrimm. 2,950,679.
- Neuhoefer, Kurt K., to United States of America, Army. Automatic injection system for selfigniting propellants. 2,935,845, 5-10-60, Cl. 60-39.46.
- Neuhoefer, Kurt K., to United States of America, Army. Propulsion unit with fluid operated automatic stage switch. 2,960,820, 11-22-60, Cl. 60-35.6.
- Neukirch, Johannes, 1/2 to L. H. Neukirch. Eccentric drive mechanism. 2,932,255, 4-12-60, Cl. 103-160.
- Neukirch, Lora H.: *See—*
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- Neukirchner, Alice: *See—*
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- Fiebertag, Karl M., and Neuls. 2,957,665.
- Neuman, Jaroslav, to Tesla, narodni podnik. Oil diffusion high-vacuum pump. 2,929,545, 3-22-60, Cl. 230-101.
- Neumann, Arthur E., 1/2 to F. Scoby. Waterproof switch. 2,954,452, 9-27-60, Cl. 200-168.
- Neumann, Arthur E., 1/2 to Frank Scoby. Reverberator, furnace and method for reclaiming lead from storage batteries. 2,960,350, 12-27-60, Cl. 266-33.
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- Adam, Hermann, and Neumann. 2,919,668.
- Neumann, Georg, to Bureau Technique Gantrat. Electrolytic cell, particularly accumulator cell. 2,934,580, 4-26-60, Cl. 136-6.
- Neumann, George: *See—*
- Redlich, Horst, Klemp, and Neumann. 2,962,561.
- Neumann, Gerhard, to General Electric Co. Compressor stator assembly. 2,933,234, 4-19-60, Cl. 230-114.
- Neumann, Gerhard, to General Electric Co. Variable stator compressor. 2,933,235, 4-19-60, Cl. 230-114.
- Neumann, Helmut, to Siemens & Halske Aktiengesellschaft. Magnetic transducers. 2,933,565, 4-19-60, Cl. 179-100.2.
- Neumann, Helmut, to Siemens & Halske Aktiengesellschaft. Ferrite magnetic heads. 2,945,919, 7-19-60, Cl. 179-100.2.
- Neumann, Johannes, H. Weiss, and F. Assmus, to Siemens-Schuckertwerke Aktiengesellschaft. Method and means for measuring magnetic field strength. 2,942,177, 6-21-60, Cl. 324-37.
- Neumann, Karl, to Moeller & Neumann G.m.b.H. Adjusting mechanism. 2,934,969, 5-3-60, Cl. 74-424.8.
- Neumann, Karl, to Moeller & Neumann G.m.b.H. Cooling and transfer table. 2,946,248, 7-26-60, Cl. 80-42.
- Neumann, Karl, and F. Blinn, to Moeller & Neumann G.m.b.H. Hydraulic bolt stressing system. 2,934,968, 5-3-60, Cl. 74-424.8.
- Neumann, Karl L., and C. E. Schneider, to Radio Corp. of America. Single sideband communication system. 2,948,808, 8-9-60, Cl. 250-13.
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- Brandes, Robert A., and Neumann. 2,957,240.
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- Neunherz, Dickson E., to Minnesota Mining and Mfg. Co. Novel composition of improved lubricating properties comprising a fluorochloro polymer. 2,927,893, 3-8-60, Cl. 252—49.6.
- Neunherz, Dickson E., to Minnesota Mining and Mfg. Co. Novel composition of improved lubricating properties comprising a fluorochloro polymer. 2,927,894, 3-8-60, Cl. 252—54.6.
- Neunherz, Dickson E., to Minnesota Mining and Mfg. Co. Novel composition of improved lubricating properties comprising a fluorochloro polymer. 2,927,895, 3-8-60, Cl. 252—58.
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- Neupert, Eugene H.: *See*—  
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- Neureiter, Norman P., to Esso Research and Engineering Co. Preparation of olefins from olefin episulfides. 2,950,337, 8-23-60, Cl. 260—677.
- Neureiter, Norman P., to Esso Research and Engineering Co. Chlorinated olefins and method for producing same. 2,951,878, 9-6-60, Cl. 260—648.
- Neuschotz, Robert. Insert applying tool. 2,947,208, 8-2-60, Cl. 81—53.
- Neuschotz, Robert. Tool for installing threaded elements. 2,949,800, 8-23-60, Cl. 81—53.
- Neuschotz, Robert. Threaded element with U-shaped locking key. 2,958,358, 11-1-60, Cl. 151—23.
- Neustadter, Irving. Dental jacket-crowns and frames therefor. 2,948,963, 8-16-60, Cl. 32—12.
- Neuville, Louis P. F. A.: *See*—  
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- Neuville, Louis P. F. A., and L. H. N. Saint Frison, to Compagnie Generale des Etablissements Michelin-raison Sociale Robert Puisseux & Cie. Spring suspension for vehicles. 2,952,455, 9-13-60, Cl. 267—30.
- Newirth, Alois G., Jr., and P. H. Thompson, to United States of America, Army. Centrifugally armed and self-destructing impact fuze. 2,924,176, 2-9-60, Cl. 102—71.
- Newirth, Alois G., Jr., and P. H. Thompson, to United States of America, Army. Centrifugally armed and self-destructing impact fuze. 2,962,968, 12-6-60, Cl. 102—71.
- Newirth, Herman, to Testrite Instrument Co., Inc. Camera tripod. 2,940,709, 6-14-60, Cl. 248—168.
- Newirth, James W. Overshoe storage rack. 2,928,549, 3-15-60, Cl. 211—34.
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- Neville, Frederick W., to J. W. Jackman & Co. Ltd. Cupola furnaces. 2,959,409, 11-8-60, Cl. 266—42.
- Neville, Richard S., and N. Rosen, to Van Valkenburgh, Nooger & Neville, Inc. Apparatus for the study and testing participants of a study problem and a method of making same. 2,961,777, 11-29-60, Cl. 35—9.
- Neville, Sidney, to Metropolitan-Vickers Electrical Co. Ltd. Threaded screws and the joining of parts by means of threaded screws. 2,934,182, 4-26-60, Cl. 189—36.
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- Wilson, William A., and Nevitt. 2,956,006.
- Nevitt, Thomas D., to Standard Oil Co. Extraction of aromatics with pyridine hydrochloride. 2,934,493, 4-26-60, Cl. 208—326.
- Nevitt, Thomas D., to Standard Oil Co. Extraction process for recovery of aromatic hydrocarbons utilizing pyridine-BF<sub>3</sub> or picoline-BF<sub>3</sub> as the solvent. 2,935,470, 5-3-60, Cl. 208—326.
- Nevitt, Thomas D., to Standard Oil Co. Aromatics recovery system using butyrolactone in the first stage and propane in the second stage. 2,963,427, 12-6-60, Cl. 208—315.
- Nevius, Searle G., to Telecomputing Corp. Flat phase network. 2,965,860, 12-20-60, Cl. 333—70.
- Nevsimal, Rudolph J.: *See*—  
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- Neway Equipment Co.: *See*—  
Masser, Lloyd D. 2,934,351.
- Newaygo Engineering Co.: *See*—  
Murphy, Oscar V. 2,953,262.
- Murphy, Oscar V., and Witte. 2,929,118.
- Newbegin, Everett H., to Whitin Machine Works. Ink fountain roll. 2,929,321, 3-22-60, Cl. 101—364.
- Newberg, Raymond G.: *See*—  
Sayko, Andrew F., and Newberg. 2,935,486.
- Newberg, Raymond G., A. L. Miller, and W. J. G. McCulloch, to Esso Research and Engineering Co. Isoolefin-vinyl aromatic copolymer latex containing an organic anionic sulfate and a salt of a dihydrogen ortho-phosphate. 2,923,759, 3-15-60, Cl. 117—113.
- Newberg, Robert F., and R. O. Newman, Jr., to The Dow Chemical Co. Method of fabricating expandable thermoplastic resinous material. 2,958,905, 11-8-60, Cl. 18—48.
- Newberry, Melgs W., to Westinghouse Electric Corp. Vending apparatus. 2,959,979, 11-15-60, Cl. 74—483.
- Newbert, Alfred R., and J. Benkert. Rotor spinning device. 2,938,300, 5-31-60, Cl. 46—83.
- Newbery, Stanley, 1/2 to Stanley Newbery Ltd. Manually and automatically actuable valves or other devices. 2,932,978, 4-19-60, Cl. 74—479.
- Newbery, Stanley, Ltd.: *See*—  
Newbery, Stanley. 2,932,978.
- Newbold, William F., to Minneapolis-Honeywell Regulator Co. Electrical signal conversion apparatus. 2,944,218, 7-5-60, Cl. 328—26.
- Newbold, William F., to Minneapolis-Honeywell Regulator Co. Signal transducer. 2,949,775, 8-23-60, Cl. 73—205.
- Newbold, William F., to Minneapolis-Honeywell Regulator Co. Measuring apparatus including temperature compensating means. 2,959,960, 11-15-60, Cl. 73—361.
- Newbold, William F., to Minneapolis-Honeywell Regulator Co. Stabilized direct current amplifier. 2,966,631, 12-27-60, Cl. 330—9.
- Newbold, William F., W. A. Power, and J. Parnell, to Minneapolis-Honeywell Regulator Co. Control apparatus for a generator. 2,932,782, 4-12-60, Cl. 322—19.
- Newbold, William F., and J. V. Werme, to Minneapolis-Honeywell Regulator Co. Electrical signal measuring apparatus. 2,937,869, 5-17-60, Cl. 340—177.
- New Britain Machine Co., The: *See*—  
Jobert, Arthur H. 2,964,982.
- Pethybridge, Charles A., and Pulsifer. 2,923,015.
- Newburn, Floyd A., R. D. Cannova, and B. I. Friedman, to United States of America, Navy. Solid propellant starter for liquid fuel monopropellant torpedo propulsion system. 2,938,482, 5-31-60, Cl. 114—20.
- Newburn, Floyd A., R. D. Cannova, and B. I. Friedman, to United States of America, Navy. Gas generator for floating torpedoes. 2,949,877, 8-23-60, Cl. 114—20.
- Newby, Bill J., D. A. Hanson, and C. E. May, to United States of America, Atomic Energy Commission. Separation of ruthenium compounds from gaseous mixtures. 2,964,130, 12-13-60, Cl. 183—114.2.
- Newby, Neal D., to Bell Telephone Laboratories, Inc. Means for detecting marking and by-passing defective areas in a magnetic record medium. 2,937,368, 5-17-60, Cl. 340—174.
- Newby, Neal D., to Bell Telephone Laboratories, Inc. Signaling system. 2,939,109, 5-31-60, Cl. 340—147.
- New Castle Products, Inc.: *See*—  
Kurek, Edwin J. 2,955,521.
- Newcomb, Avon L., and W. L. Hockett, to The Newcomb-DeVilbiss Co. Chain conveyor. 2,941,657, 6-21-60, Cl. 198—177.
- Newcomb-DeVilbiss Co., The: *See*—  
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- Newcomb, Douglas H.: *See*—  
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- Newcomb Electronics Corp.: *See*—  
Edgerly, Clement B. 2,960,657.
- Newcomb, Everett W., to Georgia Kaolin Co. Method of coating a spray wheel. 2,942,998, 6-28-60, Cl. 117—49.
- Newcomb, Florabelle R. Supports for draperies, curtains, window shades and the like. 2,944,782, 7-12-60, Cl. 248—261.
- Newcomb, Philip P., to United Aircraft Corp. Torque responsive seal. 2,929,328, 3-22-60, Cl. 103—92.
- Newcomb, Philip P., to United Aircraft Corp. Resilient bearing support. 2,960,827, 11-22-60, Cl. 60—39.32.
- Newcomb, Robert K., to Rotobond. Laminating machines. 2,944,587, 7-12-60, Cl. 154—36.
- Newcombe, Frank A., to Central Transformer Corp. Terminal bushing assemblies for transformers. 2,926,330, 2-23-60, Cl. 339—202.
- Newcombe, Harold J. Vibrator and massager for use over spine. 2,944,543, 7-12-60, Cl. 128—32.
- Newcombe, Jack: *See*—  
Hughes, William B., Fallgatter, and Newcombe. 2,950,246.
- Newcombe, Jack, and W. S. Fallgatter, to Cites Service Research and Development Co. Process for acidizing wells and composition therefor. 2,957,823, 10-25-60, Cl. 252—8.55.



- Newcomer, Jack S., K. J. Smith, and J. Linder, to Hooker Chemical Corp. Manufacture of carbamates from amides. 2,943,108, 6-23-60, Cl. 260-471.
- Newcomer, Jacob R., Jr.: *See*—  
Jahn, Robert E., Bross, Wheeler, and Newcomer. 2,920,331.
- Newcomer, Jacob R., Jr., to Camloc Fastener Corp. Receptacle for rotary stud fastener. 2,936,502, 5-17-60, Cl. 24-221.
- Newcomer, Jacob R., Jr., and A. J. Raska, to Camloc Fastener Corp. Latch. 2,926,056, 2-23-60, Cl. 312-320.
- Newell, Alfred T., Jr., and T. N. Epps, Jr., to De Bardeleben Coal Corp. Warm air brooder system. 2,938,449, 5-31-60, Cl. 98-40.
- Newell, Floyd B., to Taylor Instrument Companies. Humidity transmitter or relay. 2,961,164, 11-22-60, Cl. 236-44.
- Newell, Frederick T.: *See*—  
Risley, Roger E., and Newell. 2,922,664.
- Newell, George K., to Westinghouse Air Brake Co. Double-acting slack regulator with manual fast let-out feature. 2,937,725, 5-24-60, Cl. 188-196.
- Newell, George K., to Westinghouse Air Brake Co. Brake rigging. 2,958,397, 11-1-60, Cl. 188-33.
- Newell, George K., to Westinghouse Air Brake Co. Brake rigging for railway cars. 2,958,398, 11-1-60, Cl. 188-52.
- Newell, George K., G. T. McClure, and T. F. Hursen, to Westinghouse Air Brake Co. Railway wheel tread brake unit. 2,940,553, 6-14-60, Cl. 188-153.
- Newell, Harry E.: *See*—  
Fly, Paul C. 2,935,214.
- Newell, Isaac L., and A. Zavarella, to United States of America, Army. Electroplating anode. 2,929,769, 3-22-60, Cl. 204-290.
- Newell, Isaac L., and E. A. Walen. Method for the deburring of zinc-base die castings. 2,955,027, 10-4-60, Cl. 41-42.
- Newell Mfg. Co.: *See*—  
Brill, John C., and Roth. 2,936,190.
- Newell, Mary P. Match box dispenser. 2,963,146, 12-6-60, Cl. 206-31.
- Newell, Walter L.: *See*—  
Kempen, Raymond J., and Newell. 2,949,827.
- Newell, William H., to Sperry Rand Corp. Depth control mechanism for dirigible submarine. 2,920,596, 1-12-60, Cl. 114-25.
- Newell, William H., to Sperry-Rand Corp., Ford Instrument Co. Division. Method and apparatus for solving simultaneous equations. 2,923,477, 2-2-60, Cl. 235-180.
- Newell, William H., to Sperry Rand Corp. Radar mach meter and angle of attack or yaw meter. 2,937,808, 5-24-60, Cl. 235-61.
- Newell, William H., to Sperry-Rand Corp., Ford Instrument Co. Division. Servo drive system with dynamic error elimination. 2,947,982, 8-2-60, Cl. 343-7.
- Newell, William H., and L. S. Brown, to Sperry Rand Corp. Trunnion tilt corrector. 2,920,817, 1-12-60, Cl. 235-61.5.
- New England Institute for Medical Research: *See*—  
Heller, John H. 2,952,585.
- Newey Brothers Ltd.: *See*—  
Simpson, William. 2,960,945.
- Newey, Herbert A., to Shell Oil Co. Process for curing material having internal epoxy groups and resulting products. 2,935,492, 5-3-60, Cl. 260-47.18.
- Newey, Herbert A., to Shell Oil Co. Epoxy esters of long chain acids. 2,940,986, 6-14-60, Cl. 260-348.
- Newey, Herbert A., to Shell Oil Co. Process for curing materials possessing internal epoxy groups. 2,949,441, 8-16-60, Cl. 260-78.4.
- Newey, Herbert A., to Shell Oil Co. Process for curing polyepoxides and resulting products. 2,965,609, 12-20-60, Cl. 260-47.
- Newey, Herbert A., to Shell Oil Co. Process for curing polyepoxides and resulting products. 2,965,610, 12-20-60, Cl. 260-47.
- Newfield, Louis: *See*—  
Lombardo, Vincent, and Newfield. 2,926,387.
- Newhall, Donald H., to Harwood Engineering Co. High pressure measuring gage. 2,951,369, 9-6-60, Cl. 73-388.
- Newhall, Donald H., to Harwood Engineering Co. High pressure piston seal. 2,961,278, 11-22-60, Cl. 309-4.
- Newhard, Nelson J., Jr., and D. Y. Dollman, to Amchem Products, Inc. Method of and material for etching aluminum. 2,931,713, 4-5-60, Cl. 41-42.
- Newhard, Nelson J., Jr., and D. Y. Dollman, to Amchem Products, Inc. Coating baths for aluminum and method of and materials for preparing and replenishing same. 2,936,254, 5-10-60, Cl. 148-6.16.
- Newhart, Paul C. Batting practice ball and game device. 2,925,274, 2-16-60, Cl. 273-26.
- New Haven Board and Carton Co., The: *See*—  
Pink, Raymond E. 2,937,747.  
Leone, Salvatore J., and Colgate. 2,963,214.  
Macartney, Amherst C. H. 2,962,850.
- Newhouse, George B.: *See*—  
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- Newhouse, Paul D., to Westinghouse Electric Corp. Passive detection and direction finding apparatus and target discriminator for use therein. 2,931,032, 3-29-60, Cl. 343-119.
- Newhouse, Vernon L., to National Research Development Corp. Electric switching arrangements. 2,926,298, 2-23-60, Cl. 323-50.
- Newhouse, Vernon L., to Radio Corp. of America. Magnetic systems. 2,957,165, 10-18-60, Cl. 340-174.
- Newhouse, Vernon L., and W. L. McMillan, to Radio Corp. of America. Magnetic memory systems. 2,933,720, 4-19-60, Cl. 340-174.
- Newhouse, Vernon L., and N. S. Prywes, to Radio Corp. of America. Magnetic storage and counting circuits. 2,953,775, 9-20-60, Cl. 340-174.
- Newhouse, William G.: *See*—  
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- Newitt, John H. Coffee brewer. 2,930,311, 3-29-60, Cl. 99-285.
- New Jersey Machine Corp.: *See*—  
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Von Hofe, George W., and Wolff. 2,961,931.
- New Jersey Zinc Co., The: *See*—  
Cyr, Howard M., and Hafford. 2,941,862.  
Rand, Myron J. 2,939,823.
- Newkirk, James A.: *See*—  
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- Newkirk, Roy A. Universal ball and socket bind. 2,928,686, 3-15-60, Cl. 287-12.
- Newland, Albert J., to Bendix Aviation Corp. Control system for aircraft. 2,949,262, 8-16-60, Cl. 244-77.
- Newland, Gordon C.: *See*—  
Kibler, Charles J., and Newland. 2,964,497.
- Newland, Gordon C., J. W. Tambllyn, and C. J. Kibler, to Eastman Kodak Co. Polyethylene compositions containing 2,4,4'-trihydroxybenzophenone. 2,925,401, 2-16-60, Cl. 260-45.95.
- Newland, Gordon C., and J. W. Tambllyn, to Eastman Kodak Co. Poly- $\alpha$ -olefin compositions containing 4-alkoxy-2-hydroxybenzo-phenones and N,N'-diphenyl-p-phenylenediamine. 2,947,721, 8-2-60, Cl. 260-45.9.
- Newland, Gordon C., and J. W. Tambllyn, to Eastman Kodak Co. Light-stable poly- $\alpha$ -olefin compositions. 2,964,495, 12-13-60, Cl. 260-45.75.
- Newland, Gordon C., and J. W. Tambllyn, to Eastman Kodak Co. Stabilized poly- $\alpha$ -olefin compositions. 2,964,496, 12-13-60, Cl. 260-45.75.
- Newlin, John C., to Garrett Tubular Products, Inc. Adjustable column. 2,961,260, 11-22-60, Cl. 287-58.
- Newman, Albert K.: *See*—  
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- Newman, Aubrey S. Game scoring device. 2,966,928, 12-27-60, Cl. 235-83.
- Newman, Barney,  $\frac{1}{2}$  to W. I. Wolf. Adjustable finger ring. 2,961,855, 11-29-60, Cl. 63-15.65.
- Newman, Clarence M., to Hughes Tool Co. Nozzle puller. 2,947,074, 8-2-60, Cl. 29-280.
- Newman, Douglas A., to Columbia Ribbon and Carbon Mfg. Co., Inc. Transfer medium and method of making. 2,931,752, 4-5-60, Cl. 162-172.
- Newman, Douglas A., to Columbia Ribbon and Carbon Mfg. Co., Inc. Planographic printing. 2,953,088, 9-20-60, Cl. 101-149.2.
- Newman, Douglas A., and A. Vaccaro, to Columbia Ribbon & Carbon Mfg. Co., Inc. Typewriter ribbon control. 2,919,785, 1-5-60, Cl. 197-170.
- Newman, Douglas A., and A. T. Schlottzauer, to Columbia Ribbon & Carbon Mfg. Co., Inc. Planographic printing plates. 2,941,466, 6-21-60, Cl. 101-149.2.
- Newman, Erwin L.: *See*—  
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- Newman, Ferris E.: *See*—  
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- Newman, Ferris E., and A. A. Guthrie, to United States Rubber Co. Method of forming pellets of a synthetic rubber latex and a particulate resin. 2,935,763, 5-10-60, Cl. 18-55.
- Newman, Harry D.: *See*—  
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- Newman, Hender and Co. Ltd.: *See*—  
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- Newman, Hobart H.: *See*—  
Beagle, Melvin J., Jr., and Newman. 2,929,443.
- Newman, James L. Floating spoon. 2,923,084, 2-2-60, Cl. 43-42.35.
- Newman, Joseph: *See*—  
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- Newman, Kenneth W., D. C. Atkins, Jr., and G. S. Douglas, to Turco Products, Inc. Process for etching aluminum and aluminum alloy surfaces. 2,939,772, 6-7-60, Cl. 41-42.
- Newman, Louis B. Hydrotherapy tank. 2,947,996, 8-9-60, Cl. 4-178.
- Newman, Louise: *See*—  
Hamlin, Jerry F., and Newman. 2,930,503.
- Newman, Milton. Warp knitting apparatus. 2,931,197, 4-5-60, Cl. 66-84.
- Newman, Odus O., to ACF Industries, Inc. Insulated accelerating pump. 2,919,908, 1-5-60, Cl. 261-34.
- Newman, Oliver. Plant terrarium. 2,950,567, 8-30-60, Cl. 47-17.
- Newman, Ritchey O., Jr.: *See*—  
Newberg, Robert F., and Newman. 2,958,905.
- Newman, Robert L. Heated animal pad. 2,961,524, 11-22-60, Cl. 219-19.



- Newman, Stanley H., to Schick Inc. Cigarette lighter. 2,943,471, 7-5-60, Cl. 67-7.1.
- Newman, Stanley R.: See—  
Heisler, Robert Y., Newman, and Alpert. 2,937,933.  
Heisler, Robert Y., Newman, and Alpert. 2,956,870.
- Newman, Stanley R., R. Y. Heisler, and N. Alpert, to Texaco Inc. Carbonate derivatives of ethanolamines. 2,921,955, 1-19-60, Cl. 260-463.
- Newman, Stanley R., R. Y. Heisler, and N. Alpert, to Texaco Inc. Fuel composition. 2,937,932, 5-24-60, Cl. 44-69.
- Newman, Thomas P.: See—  
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- Newman, William E., and H. Singer, to United States of America, Navy. Control of searching and tracking mechanisms. 2,963,559, 12-6-60, Cl. 200-5.
- Newmark, Marshall F., deceased, R. F. Olson, and N. A. Newmark, executrix of said Newmark. Counting device. 2,940,666, 6-14-60, Cl. 235-91.
- Newmark, Nancy A.: See—  
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- New Method Steel Stamps, Inc.: See—  
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- Newnan, Charles D.: See—  
Furby, Neal W., and Newnan. 2,960,474.
- Newnham, Ivan E., to Mallory-Sharon Metals Corp. Purification of zirconium tetrahalide. 2,953,433, 9-20-60, Cl. 23-87.
- Newnham, Ivan E., to Mallory-Sharon Metals Corp. Purification of hafnium tetrahalide. 2,961,293, 11-22-60, Cl. 23-16.
- Newport, John J., III: See—  
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- Newport News Shipbuilding and Dry Dock Co.: See—  
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- Newsome Fiberglass, Inc.: See—  
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- Newsome, Jacob G., to Newsome Fiberglass, Inc. Laminated plastic boat. 2,956,292, 10-18-60, Cl. 9-6.
- Newsome, Joel A., Jr., to Chillas Corp. Method and means for recovering condensable vapors contained in hydrate-forming mixtures. 2,928,885, 3-15-60, Cl. 260-676.
- Newsome, Lowell C.: See—  
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- Newsome, William B.: See—  
Findley, Glenn E., and Newsome. 2,941,887.
- Newson, Henry W., to United States of America, Atomic Energy Commission. Neutronic reactor control element. 2,952,600, 9-13-60, Cl. 204-193.2.
- Newstead, Charles, H. T. Smith, and G. H. Griffiths, to B.R.D. Co. Ltd. Profiling machines. 2,919,632, 1-5-60, Cl. 90-24.3.
- Newton, Alwin B. Internal combustion engine. 2,962,010, 11-29-60, Cl. 123-66.
- Newton, Alwin B., to The Coleman Co., Inc. Combination heating and refrigeration system. 2,966,342, 12-27-60, Cl. 257-282.
- Newton, Alwin B., and R. W. Qualley, to The Coleman Co., Inc. Combustion-engine-driven compressor apparatus. 2,938,358, 5-31-60, Cl. 62-7.
- Newton, Alwin B., and F. W. Osborn, to Alwin B. Newton. Blower fabrication. 2,958,459, 11-1-60, Cl. 230-134.
- Newton & Bennett Ltd.: See—  
Newton, Noel B. 2,953,228.
- Newton, Charles G. Yarn tension compensator. 2,952,393, 9-13-60, Cl. 226-97.
- Newton, Donald O., to St. Regis Paper Co. Handle bags. 2,947,464, 8-2-60, Cl. 229-54.
- Newton, George R., and J. E. Skinner, to Pan American Petroleum Corp. Well formation density logging. 2,957,990, 10-25-60, Cl. 250-83.6.
- Newton, George W.: See—  
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- Newton, Harold B. Electronic acoustical stringed instrument. 2,953,052, 9-20-60, Cl. 84-1.16.
- Newton, John R., and A. L. Porter, Jr. Knockdown powered golfing cart. 2,919,753, 1-5-60, Cl. 180-25.
- Newton, John S.: See—  
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- Newton, Kenneth E., to General Dynamics Corp. Fluid level indicating system. 2,921,469, 1-19-60, Cl. 73-290.
- Newton, Leslie J., to Building Products Ltd. Ventilated siding and panel clip. 2,928,143, 3-15-60, Cl. 20-5.
- Newton, Noel B., to Newton & Bennett Ltd. Centrifugal friction clutches. 2,953,228, 9-20-60, Cl. 192-105.
- Newton, Walter H., to General Electric Co. Wire coating apparatus. 2,943,598, 7-5-60, Cl. 118-67.
- Newton, William: See—  
Dahl, Einar S., and Newton. 2,930,320.
- Newton, William H., to The Jeffrey Mfg. Co. Material separators and feeder means therefor. 2,952,361, 9-13-60, Cl. 209-232.
- New-Tronics Corp.: See—  
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- New York Wire Cloth Co.: See—  
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- New Zipper Corp., The: See—  
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- Nex, Robert W., and C. T. Redemann, to The Dow Chemical Co. Halogenated hydrocarbons inhibited with organic peroxides. 2,959,556, 11-8-60, Cl. 252-396.
- Neyhouse, George A.: See—  
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- Ng, Clifford G. Adjustable support for chair or the like object. 2,922,467, 1-26-60, Cl. 155-194.
- Niagara Machine & Tool Works: See—  
Munschauer, Frederick E., Jr., and G. E. 2,940,384.
- Nial, Walter R.: See—  
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- Nicolai, Ruggero. Hydrostatic valve device. 2,920,329, 1-12-60, Cl. 4-43.
- Nicolls, Herbert F. Zone controlled carriage return mechanism for typewriters. 2,938,618, 5-31-60, Cl. 197-66.
- Nichol, Peter A. Hair curler. 2,953,138, 9-20-60, Cl. 132-34.
- Nicholas, Andrew J., to Worthington Corp. Unloader means for a reciprocating compressor. 2,956,729, 10-18-60, Cl. 230-30.
- Nicholas, Andrew J., and H. Soumerai, to Worthington Corp. Hermetic motor-compressor unit. 2,948,458, 8-9-60, Cl. 230-58.
- Nicholas, Ronald D.: See—  
Dorsey, John D., and Nicholas. 2,952,280.
- Nicholas, William, to Radiant Mfg. Corp. Projection screen. 2,922,471, 1-26-60, Cl. 160-24.
- Nicholas, William, to Radiant Mfg. Corp. Projection screen. 2,939,526, 6-7-60, Cl. 160-24.
- Nicholas, William, to Radiant Mfg. Corp. Projection screen. 2,964,106, 12-13-60, Cl. 160-24.
- Nicholds, Kenneth E.: See—  
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- Nicholl, Christopher I. H.: See—  
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- Nicholl, Edward J., to Dowty Equipment Ltd. Aircraft retractable undercarriage. 2,938,684, 5-31-60, Cl. 244-102.
- Nicholls, Cecil E., to Blaw-Knox Ltd. Shuttering for concrete. 2,939,198, 6-7-60, Cl. 25-131.
- Nicholls, Francis A.: See—  
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- Nicholls, Harold E. Flexible exhaust extension. 2,919,720, 1-5-60, Cl. 138-46.5.
- Nichols, Beverly R., to Allis-Chalmers Mfg. Co. Butterfly valve sealing arrangement. 2,932,533, 4-12-60, Cl. 286-7.
- Nichols, Beverly R., to Allis-Chalmers Mfg. Co. Arrangement for decreasing maximum overspeed of a kaplan turbine. 2,937,888, 5-24-60, Cl. 253-143.
- Nichols, Beverly R., to Allis-Chalmers Mfg. Co. Control system for hydraulic turbines. 2,938,527, 5-31-60, Cl. 137-25.
- Nichols, Beverly R., to Allis-Chalmers Mfg. Co. Control for multijet impulse turbine. 2,965,764, 12-20-60, Cl. 290-40.
- Nichols, Bill: See—  
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- Nichols, Browning, Jr.: See—  
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- Nichols, Charles A.: See—  
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- Nichols, Charles A., to General Motors Corp. Cold forming apparatus and method. 2,919,611, 1-5-60, Cl. 78-38.
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- Nichols, Charles A., and G. L. Weiser, to General Motors Corp. Metal working. 2,939,350, 6-7-60, Cl. 80-25.
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- Nichols, Charles H., Jr.: See—  
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- Nichols, Charles R. Method of and apparatus for rotating a crank shaft. 2,924,076, 2-9-60, Cl. 60-97.



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- Nichols, Donald B., to Boeing Airplane Co. Anti-skid brake control system with locked wheel prevention means. 2,957,658, 10-25-60, Cl. 244—111.
- Nichols Engineering and Research Corp.: *See*—  
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- Nichols, Frank D. Hydraulic hoist. 2,947,425, 8-2-60, Cl. 212—35.
- Nichols, George B., and W. R. Schnee. Mallet attachment. 2,932,284, 9-13-60, Cl. 145—29.
- Nichols, George E., G. A. Nelson, and D. C. Watts, to Northrop Corp. Decelerator. 2,955,545, 10-11-60, Cl. 104—178.
- Nichols, Gordon E., to Winthrop-Atkins Co., Inc. Easel-type desk mounts. 2,954,625, 10-4-60, Cl. 40—120.
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- Nichols, James A.: *See*—  
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- Nichols, Joseph: *See*—  
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- Nichols, Lawrence W., to United States of America, Navy. Detector system for optical scanners. 2,931,911, 4-5-60, Cl. 250—203.
- Nichols, Willard C., to The E. H. Wacks Co. Collar setter and puller for pipes of large diameter. 2,958,125, 11-1-60, Cl. 29—287.
- Nichols, William E.: *See*—  
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- Nichols, William M., to Alco Products, Inc. Fuel injectors. 2,959,360, 11-8-60, Cl. 239—533.
- Nicholson, Arnold E., and S. J. Tucker, to Smith Kline & French Laboratories. Coloring solid pharmaceutical forms and compositions therefor. 2,925,365, 2-16-60, Cl. 167—82.
- Nicholson, Daniel E.: *See*—  
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- Nicholson, Isadore, and L. H. Howland, to United States Rubber Co. Metal borohydride catalysts for aqueous emulsion polymerizations. 2,963,459, 12-6-60, Cl. 260—83.5.
- Nicholson, John P., to United States of America, Navy. Cone valve. 2,947,284, 8-2-60, Cl. 121—38.
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- Nicholson, Kenneth C., to The Carborundum Co. Method of making metal borides. 2,957,754, 10-25-60, Cl. 23—204.
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- Nicholson, Madison G., Jr., to Sylvania Electric Products Inc. Generator of frequency increments. 2,923,891, 2-2-60, Cl. 332—16.
- Nicholson, Ralph A., to Intercontinental Mfg. Co., Inc. Cooling devices. 2,951,352, 9-6-60, Cl. 62—223.
- Nicholson, Robert T.: *See*—  
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- Nicholson, Thomas W. Centering log-barker roll hold-down. 2,923,333, 2-2-60, Cl. 144—249.
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- Nickel, Eberhard, to Kohlerscherdungs-Gesellschaft, m.b.H. Radiant tubular heat exchanger. 2,947,288, 8-2-60, Cl. 122—478.
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- Nickel, Willard T.: *See*—  
Dietrich, Howard H., Jorgensen, and Nickel. 2,942,496.
- Nickell, Creigh, to Appalachian Electronic Instruments, Inc. Temperature control and indicator mechanism. 2,954,695, 10-4-60, Cl. 73—362.
- Nickell, Louis G., to Chas. Pfizer & Co., Inc. Transformation of steroids with sansevieria zeylanica. 2,962,422, 11-29-60, Cl. 195—51.
- Nickell, Louis G., F. C. Pennington, and I. A. Solomons, to Chas. Pfizer & Co., Inc. Parastitidic agent and process for producing same. 2,935,444, 5-3-60, Cl. 167—33.
- Nickells, Stanley W., to Minneapolis-Honeywell Regulator Co. Hum-free solenoid device. 2,922,614, 1-26-60, Cl. 251—54.
- Nickells, Stanley W., to Minneapolis-Honeywell Regulator Co. Solenoid valve. 2,936,997, 5-17-60, Cl. 251—54.
- Nickerson, Basil S.: *See*—  
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- Nickerson, Basil S., to The Greist Mfg. Co. Pantograph attachment for sewing machines. 2,932,267, 4-12-60, Cl. 112—102.
- Nickerson, Beverly A., and W. M. Rand, Jr., to W. R. Grace & Co. Production of gel-adhered streamlined balloons. 2,929,110, 3-22-60, Cl. 18—58.7.
- Nickerson, John T. R., and L. D. Starr; said Nickerson assor. to Dirigo Sales Corp. Treatment of processed animal tissue. 2,933,399, 4-19-60, Cl. 99—222.
- Nickerson, Ralph F., to Monsanto Chemical Co. Process for the preparation of silica gel and silica aerogels. 2,927,083, 3-1-60, Cl. 252—317.
- Nickl, Franklyn G., to Automatic Music, Inc. Phonograph control unit. 2,959,418, 11-8-60, Cl. 274—10.
- Nickl, Julius: *See*—  
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- Nicklas, Julius F. Cultivator. 2,934,156, 4-26-60, Cl. 172—771.
- Nicklasson, Richard, E. Marks, and R. Johnson. Pallet forming machine. 2,958,938, 11-8-60, Cl. 29—208.
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- Nickols, Chester R., to Elgin Softener Corp. Water softener. 2,919,805, 1-5-60, Cl. 210—141.
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- Nicola, Renato N.: *See*—  
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- Nicolai, Lloyd A., to Esso Research and Engineering Co. Olefin and town gas production. 2,956,093, 10-11-60, Cl. 260—683.
- Nicolai, Willem H. J., to North American Phillips Co., Inc. Automatic telephone exchanges having connections to external lines. 2,948,782, 8-9-60, Cl. 179—18.
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- Nicolaro, Louis L.: *See*—  
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- Nicolaus, Bruno J. R.: *See*—  
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- Nicolaus, Frank G., to R. T. Moloney, deceased, and American National Bank and Trust Co. of Chicago, executor. Coinchute anti-fraud means. 2,932,374, 4-12-60, Cl. 194—97.
- Nicolaus, Frank G., to Lion Mfg. Corp. Convertible locking relay. 2,932,705, 4-12-60, Cl. 200—87.
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- Nicolazzi, John J. Motor conveyor and stripper. 2,944,685, 7-12-60, Cl. 214—6.
- Nicolet Watch Co. S.A.: *See*—  
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- Nicoll, Frederick H., to Radio Corp. of America. Radiant energy sensitive device. 2,929,934, 3-22-60, Cl. 250—211.
- Nicolle, Charles. Apparatus for handling suppositories and similar articles. 2,945,335, 7-19-60, Cl. 53—142.
- Nicolodi, Robert E.,  $\frac{1}{2}$  each to G. Glass and F. E. Gardiner. Booster system for hydraulic governors of diesel engines and method of starting such engines. 2,931,349, 4-5-60, Cl. 123—179.
- Nicolosi, Robert V., and M. Kotler, to F. W. Sandler. Automatic reversing mechanism. 2,938,396, 5-31-60, Cl. 74—322.
- Nicolson, Kingsley M., to California Research Corp. Safety joint. 2,950,929, 8-30-60, Cl. 285—86.
- Niconchuk, Alec W., and W. C. Ross, to W. R. Grace & Co. Resilient lapping element especially adapted for use in textile printing. 2,963,393, 12-6-60, Cl. 154—54.5.
- Nicot, Georgette nee Voillot, to H. Padova. Automatic clutch. 2,952,345, 9-13-60, Cl. 192—052.
- Nicot, Ralph E. Device for removing covers from paint cans and the like. 2,931,259, 4-5-60, Cl. 81—346.
- Nicotra, Joseph P.: *See*—  
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- Niebergall, Heinz, and B. Langenfeld, to Koppers Co., Inc. Process for the preparation of alkylphosphines. 2,959,621, 11-8-60, Cl. 260—606.5.
- Niederhauser, Jean-Paul: *See*—  
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- Niederhauser, Warren D.: *See*—  
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- Niederhauser, Warren D., to Rohm & Haas Co. Quaternary ammonium bactericides. 2,926,119, 2-23-60, Cl. 167—30.
- Niederhauser, Warren D., E. Broderick, and F. F. Owings, to Rohm & Haas Co. Method for preparing salts of sulfoalkyl methacrylates. 2,964,557, 12-13-60, Cl. 260—486.
- Niedermann, Ernst, to I-T-E Circuit Breaker Co. Reverse cycle aerodynamic wave machine. 2,959,344, 11-8-60, Cl. 230—69.
- Niederost, Henry. Safety brake. 2,945,546, 7-19-60, Cl. 180—82.
- Nieders, Harold, to P. R. Mallory & Co., Inc. Clamp for electrolytic capacitor. 2,962,638, 11-29-60, Cl. 317—230.



- Niederst, George, to Femar Corp. Gasoline metering and vending device. 2,955,725, 10-11-60, Cl. 222-17.
- Nief, Guy, to Commissariat a l'Energie Atomique. Ion sources. 2,930,917, 3-29-60, Cl. 313-63.
- Niehaus, Henry A. Carrier for pneumatic tube conveyors. 2,934,285, 4-26-60, Cl. 243-34.
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- Nielsen, Adolph. Hose nozzle. 2,955,766, 10-11-60, Cl. 239-456.
- Nielsen, Axel L. Sump pump control. 2,922,854, 1-26-60, Cl. 200-83.
- Nielsen, Chester L., to Wesbar Stamping Corp. Water ski tow line fastening bar. 2,920,598, 1-12-60, Cl. 114-235.
- Nielsen, Clarence E. Automatic dispenser attachment for washing machines. 2,948,437, 8-9-60, Cl. 222-70.
- Nielsen, Clarence W., to United States Steel Corp. Safety mitten. 2,923,946, 2-9-60, Cl. 2-161.
- Nielsen, Erick R. Chain saw supporting and guide bar. 2,962,061, 11-29-60, Cl. 143-32.
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- Nielsen, James W., to Bell Telephone Laboratories, Inc. Method of making single crystal garnets. 2,957,827, 10-25-60, Cl. 252-62.5.
- Nielsen, Joy W., to United States Steel Corp. Method of preparing a sand mold for an ingot mold. 2,962,781, 12-6-60, Cl. 22-199.
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- Nielsen, Morris L., to Monsanto Chemical Co. Quaternary ammonium thiocarbonates. 2,961,466, 11-22-60, Cl. 260-567.6.
- Nielsen, Oliver M.: See—  
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- Nielsen, Robert J., to Bell Telephone Laboratories, Inc. Fabrication of grid structures for electron discharge devices. 2,921,363, 1-19-60, Cl. 29-25.14.
- Nielsen, Stanley: See—  
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- Nielsen, Watrous A. Lock apparatus. 2,936,607, 5-17-60, Cl. 70-277.
- Nielsen, William F., to United States of America, Atomic Energy Commission. Random pulse generator producing fiducial marks. 2,923,588, 2-2-60, Cl. 342-23.
- Nielsson, Francis T., to International Minerals & Chemical Corp. Apparatus for the granulation of fertilizers. 2,945,747, 7-19-60, Cl. 23-259.1.
- Niemann, Walter A. Lawn mower. 2,956,386, 10-18-60, Cl. 56-25.4.
- Niemi, Francis J. Electric welding device. 2,936,365, 5-10-60, Cl. 219-138.
- Nienburg, Hans, G. Schiller, H. Weber, and H. Boehm, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Polymerization of ethylene. 2,927,105, 3-1-60, Cl. 260-94.9.
- Nierhaus, Henry, to Stoffel Seals Corp. Seal. 2,965,401, 12-20-60, Cl. 292-315.
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- Nieset, Robert T., to Girod Associates. Method and apparatus for photo-composing and the like. 2,963,544, 12-6-60, Cl. 178-6.8.
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- Nifenecker, Jean, to Societe Alsacienne de Constructions Mecaniques. Textile machine frame. 2,923,119, 2-2-60, Cl. 57-1.
- Nigrelli, Biagio J., W. E. Standley, and R. B. Wittmann, to R. W. Johns, B. J. Nigrelli, and R. R. Johns, d.b.a. Johns, Nigrelli, Johns. Case loading mechanism and method of loading cases. 2,939,256, 6-7-60, Cl. 53-26.
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- Nihlen, Arvid C. K.: See—  
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- Niki, Eiji. Derivative polarograph by the alternating current bridge method. 2,941,142, 6-14-60, Cl. 324-31.
- Nikirk, Harry S., and H. C. Hoffman, Jr., to United States of America, Navy. Resonant circuit tuning apparatus. 2,962,587, 11-29-60, Cl. 250-40.
- Nikitin, Alexander A., C. C. Fite, Jr., and J. S. Gary, to Tennessee Corp. Nutrient spray composition for plants. 2,950,183, 8-23-60, Cl. 71-11.
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- Niklas, Wilfrid F., to The Rauland Corp. Electron discharge device. 2,941,857, 6-21-60, Cl. 316-21.
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- Niles, John R., to The Dow Chemical Co. Well treating apparatus. 2,935,021, 5-3-60, Cl. 102-20.
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- Nilo, Dominick J., 1/2 to Sebastian C. Gaeta. Tissue press. 2,955,530, 10-11-60, Cl. 160-289.
- Nilsen, Alfred, to Joaquin Agricultural & Engineering Co., Inc. Gypsum applicator. 2,957,493, 10-25-60, Cl. 137-268.
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- Nilsson, Ole K., to Radio Corp. of America. Distribution network. 2,922,962, 1-26-60, Cl. 333-8.
- Nilsson, Bengt E., to Aktiebolaget Elektrolux. Lifting and carrying handle for domestic appliance. 2,946,071, 7-26-60, Cl. 15-49.
- Nilsson, Bengt E., to Aktiebolaget Elektrolux. Rotatable surface treating members. 2,950,583, 8-30-60, Cl. 51-195.
- Nilsson, Bengt E., to Aktiebolaget Elektrolux. Surface treating apparatus. 2,953,807, 9-27-60, Cl. 15-345.
- Nilsson, Bengt E., and N. G. Cronhage, to Aktiebolaget Elektrolux. Surface treating members and mechanism for detachably connecting same to rotatable structure. 2,960,705, 11-22-60, Cl. 15-4.
- Nilsson, Hans R., and W. P. S. Persson, to Svenska Rotor Maskiner Aktiebolag. Regenerative heat exchanger, specifically air preheater. 2,936,160, 5-10-60, Cl. 257-268.
- Nilsson, Herman B., to Aktiebolaget Inventing. Sensing means. 2,953,725, 9-20-60, Cl. 317-123.
- Nilsson, Johan: See—  
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- Nilsson, Nils A.: See—  
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- Nilsson, Nils E., J. C. H. Bjork, and G. O. Rodnert, to Telefonaktiebolaget L M Ericsson. Automatic telephone system with automatic transfer service. 2,924,664, 2-9-60, Cl. 179-18.
- Nilsson, Nils E. F. Artificial ice rink. 2,955,437, 10-11-60, Cl. 62-235.
- Nilsson, Nils L., and W. R. McDurmott, to Anderson Electric Corp. Parallel tap connector. 2,964,585, 12-13-60, Cl. 174-94.
- Nilsson, Sven A., to Koppers Co., Inc. Article imprinter. 2,944,480, 7-12-60, Cl. 101-11.
- Ninet, Leon, and J. Verrier, to Societe des Usines Chimiques Rhone-Poulenc. Production of spiramycin. 2,943,023, 6-28-60, Cl. 195-80.
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- Ninneman, Lawrence D., to Baker Brothers, Inc. Safety device for presses. 2,923,973, 2-9-60, Cl. 18-16.
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- Nirenberg, Robert P., to The Chemstrand Corp. Pleating process for fabrics of thermoplastic fibers. 2,924,361, 2-9-60, Cl. 223-33.
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- Nisbet, James D., E. G. Vogt, and F. M. Richmond, to Universal-Cyclops Steel Corp. Method of preparing high temperature alloys. 2,920,956, 1-12-60, Cl. 75-171.
- Nisbet, William R., and W. H. Agee, to Monsanto Chemical Co. Production of ethylene. 2,928,886, 3-15-60, Cl. 260-683.
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- Nison, Morris, and D. A. Ludwig. Centrifugal dispenser. 2,956,709, 10-18-60, Cl. 222-52.
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- Nitsch, Rudolf, to Siemens and Halske Aktiengesellschaft. Sealed-in contact device having contacts providing for uniform performance characteristics. 2,927,178, 3-1-60, Cl. 200-87.
- Nitto, Hajime, to Yawata Iron and Steel Co., Ltd. Electrodeposition of Fe-Cr alloy. 2,938,842, 5-31-60, Cl. 204-43.
- Nix, Edmund A., to Dominion Engineering Works Ltd. Apparatus for augmenting hoist brake capacity. 2,948,412, 8-9-60, Cl. 212-69.
- Nixdorf-Krein Mfg. Co.: *See*—  
Sander, Benjamin, and Elckmeier. 2,954,958.
- Nixon, Alan C.: *See*—  
Thorpe, Roy E., and Nixon. 2,943,986.
- Nixon, Bryan E.: *See*—  
Spalding, Charles W., West, and Nixon. 2,956,405.
- Nixon, Carl C. Windshield washer for automobiles. 2,952,864, 9-20-60, Cl. 15-250.04.
- Nixon, Charles E., to Inso Electronic Products, Inc. Core wrapping method and apparatus. 2,963,847, 12-13-60, Cl. 57-17.
- Nixon, Leslie R., to J. Stone & Co. (Deptford) Ltd. Magnet systems of electromagnetic regulators, relays or the like. 2,937,322, 5-17-60, Cl. 317-158.
- Nixon, Ralph D., to The General Electric Co. Ltd. Cathode ray display devices. 2,964,672, 12-13-60, Cl. 315-21.
- Nixon, Raymond F., to Beaver Tool & Engineering Corp. Adjustable tool unit. 2,959,991, 11-15-60, Cl. 77-58.
- Nixon, William G., to Universal Oil Products Co. Preparation of alumina-containing catalysts. 2,927,903, 3-8-60, Cl. 252-466.
- Nixon, William G., to Universal Oil Products Co. Catalyst manufacturing. 2,944,032, 7-5-60, Cl. 252-441.
- Nixon, William G., to Universal Oil Products Co. Reactivation of molybdenum containing catalysts. 2,963,443, 12-6-60, Cl. 252-416.
- Nixon, William G., to Universal Oil Products Co. Reactivating noble metal containing catalysts. 2,963,444, 12-6-60, Cl. 252-416.
- Nixon, William G., to Universal Oil Products Co. Reactivating platinum catalyst. 2,963,445, 12-6-60, Cl. 252-416.
- Nixon, William G., to Universal Oil Products Co. Method of activating a catalyst. 2,963,449, 12-6-60, Cl. 252-466.
- Noack, Rolf: *See*—  
Hahn, Werner, Schulze, and Noack. 2,931,285.
- Leuschke, Siegfried, and Noack. 2,953,076.
- Noack, Walter, and F. Faulhaber. Balancing apparatus. 2,935,904, 5-10-60, Cl. 77-5.
- Noakes, Gordon E.: *See*—  
Tumath, Jack L. 2,950,025.
- Noakes, Thomas E.: *See*—  
Dillman, Earnest J., Noakes, and Philips. 2,936,595.
- Noakes, Thomas E., to American Radiator & Standard Sanitary Corp. Liquid dispenser. 2,959,341, 11-8-60, Cl. 222-181.
- Noall, Sampson T., Jr.: *See*—  
Kovach, Julius W., Noall, and Cialek. 2,951,641.
- Nobel Bozel (Societe Anonyme): *See*—  
Lehmann, Rene L., Petusseau, and Pinazzi. 2,931,845.
- Nobes, William D., to The Caldwell Mfg. Co. Sash balance. 2,929,095, 3-22-60, Cl. 16-197.
- Nobile, Arthur: *See*—  
Herzog, Hershel L., and Nobile. 2,928,850.
- Nobile, Arthur, to Schering Corp. 9 $\alpha$ -halo-11,17-dioxogenated-1,4-androstadiene-3-ones. 2,955,118, 10-4-60, Cl. 260-397.3.
- Nobili a.r.l.: *See*—  
Nobili, Arduino. 2,961,139.
- Nobili, Arduino, to Nobili a.r.l. Corrugated cardboard package for garden and fruit products. 2,961,139, 11-22-60, Cl. 229-6.
- Nobis, John F.: *See*—  
Hansley, Virgil L., Frank, and Nobis. 2,966,526.
- Nobis, John F., to National Distillers and Chemical Corp. Organo aluminum compounds. 2,960,516, 11-15-60, Cl. 260-448.
- Nobis, John F., C. E. Frank, and W. F. McFadyen, to National Distillers and Chemical Corp. Preparation of triethylaluminum. 2,954,388, 9-27-60, Cl. 260-448.
- Nobis, John F., C. E. Frank, and W. F. McFadyen, to National Distillers and Chemical Corp. Preparation of triethylaluminum. 2,954,389, 9-27-60, Cl. 260-448.
- Nobis, John F., and L. F. Moormeier, to National Distillers and Chemical Corp. Production of triethylaluminum. 2,957,898, 10-25-60, Cl. 260-448.
- Nobis, John F., and L. M. Watson, to National Distillers and Chemical Corp. Desulfurization of aromatic hydrocarbons. 2,960,546, 11-15-60, Cl. 260-674.
- Noble Drilling Corp.: *See*—  
Kennitz, George E. 2,957,525.
- Noble, Jack D., G. W. Bentley, and E. C. Rice. Plate lifting device. 2,941,675, 6-21-60, Cl. 212-14.
- Noble, John. Valve and magnetic actuating tool. 2,943,837, 7-5-60, Cl. 251-110.
- Noble, John M. Sweep attachment for auger feed. 2,934,881, 5-3-60, Cl. 56-158.
- Noble, John W. Floor mopping machine. 2,949,620, 8-23-60, Cl. 15-98.
- Noble, Le Isle D.: *See*—  
Stanton, Arthur H., Jr., and Noble. 2,948,169.
- Noble, Lowell A.: *See*—  
Heil, Oskar, Noble, and Wolfson. 2,956,192.
- Noble Mfg. Co. Inc.: *See*—  
Green, Frank T., and Smith. 2,926,445.
- Noble, Norman, Inc.: *See*—  
Gary, Lonnie M. 2,955,832.
- Noble, Roger R.: *See*—  
Philbrick, George A., and Noble. 2,935,260.
- Noble, Sid, to Ideal Toy Corp. Toy gun. 2,936,543, 5-17-60, Cl. 46-1.
- Noble, Sid, to Ideal Toy Corp. Interlockable toy elements. 2,959,888, 11-15-60, Cl. 46-28.
- Noble, Sid, to Ideal Toy Corp. Missile launcher toy. 2,964,032, 12-13-60, Cl. 124-26.
- Noble, Stuart D., 10% to V. D. Beehler. Polarized vibration recording medium and system therefor. 2,960,578, 11-15-60, Cl. 179-100.4.
- Noble & Wood Machine Co., The: *See*—  
Roberson, Cyrus E. 2,934,278.
- Noblee & Thorl G.m.b.H.: *See*—  
Schwartzkopf, Fritz E., and Eger. 2,939,770.
- Nobles, Charles E., to Westinghouse Electric Corp. Radar system. 2,957,171, 10-18-60, Cl. 343-17.1.
- Nobles Engineering and Mfg. Co.: *See*—  
Ingersoll, Ward H. 2,945,105.
- Nobles, Joe C.: *See*—  
Boesch, John C., Jr., and Nobles. 2,953,887.
- Nocek, Stanley J.: *See*—  
Seifried, Paul E., and Nocek. 2,935,724.
- Nock, William: *See*—  
McAnslan, James H. L., and Nock. 2,944,157.
- Nockels, John P. Latch mechanism. 2,961,262, 11-22-60, Cl. 292-113.
- Noda, Shozo, to Howa Kogyo Kabushiki Kaisha (known as Howa Machinery Ltd.). Apparatus for the back motion of the cone drum belt in a flyer frame. 2,925,704, 2-23-60, Cl. 57-102.
- Noda, Shozo, to Howa Kogyo Kabushiki-Kaisha. Carding machine. 2,949,645, 8-23-60, Cl. 19-105.
- Noda, Shozo, to Howa Kogyo Kabushiki-Kaisha. Draft assembly capable of drafting sliver or roving in a spinning frame. 2,955,329, 10-11-60, Cl. 19-131.
- Nodurft, Imogene A. Protective collars. 2,965,903, 12-27-60, Cl. 2-50.
- Noe, Harold C., to Kidde Textile Machinery Corp. Guide bar lifting mechanism for warp knitting machines. 2,921,453, 1-19-60, Cl. 66-86.
- Noe, Harold C., to Kidde Mfg. Co., Inc. Machine for washing drinking glasses and the like. 2,955,304, 10-11-60, Cl. 15-75.
- Noe, Harold C., to Kidde Textile Machinery Corp. Warping machine. 2,955,897, 10-11-60, Cl. 28-38.
- Noe, Isaac J., and R. V. Norton. Handle for sheet material. 2,930,583, 3-29-60, Cl. 254-113.
- Noe, Richard T., to Ford Motor Co. Motor vehicle body telescopic roof construction. 2,947,570, 8-2-60, Cl. 296-117.
- Noel, Eugene M. Continuous griddle. Re. 24,855, 8-9-60, Cl. 107-57.
- Noel, Eugene M. Product turn-over and transfer means for continuous griddles. 2,962,984, 12-6-60, Cl. 107-57.
- Noeske, Heinz, to Ruhrchemie Aktiengesellschaft. Process for the chlorination of polyethylene. 2,928,819, 3-15-60, Cl. 260-94.9.
- Noeske, Heinz, F. Gross, and W. Borns, to Ruhrchemie Aktiengesellschaft. Coatings of chlorinated polyethylene on substrates of metals, textiles or paper. 2,962,387, 11-29-60, Cl. 117-47.
- Nofi, Peter. Static lift wing plane. 2,945,642, 7-19-60, Cl. 244-12.
- No Fog Corp.: *See*—  
Ball, Arthur L. 2,934,275.
- Nogami, Tatsunosuke. Coal carrying apparatus. 2,938,751, 5-31-60, Cl. 302-36.
- Noguera, Joseph, to Casablanca High Draft Co. Ltd. Drafting apparatus for textile fibres. 2,931,074, 4-5-60, Cl. 19-137.



- Noguera, Joseph, to Casablancas High Draft Co. Ltd. Creel bobbin holder for spinning or preparing machines. 2,931,594, 4-5-60, Cl. 242-130.2.
- Noguera, Joseph, to Casablancas High Draft Co. Ltd. Textile fiber drafting mechanisms. 2,933,773, 4-26-60, Cl. 19-134.
- Noguera, Joseph, to Casablancas High Draft Co. Ltd. Textile fibre drafting apparatus. 2,951,267, 9-6-60, Cl. 19-135.
- Nohl, Walter, and A. Streng, to Nowibag A.G. Stretching frame. 2,957,269, 10-25-60, Cl. 45-24.
- Nolr, Rene. Fluidtight valve. 2,964,292, 12-13-60, Cl. 251-342.
- Nojima, Takeo, to Amagasaki Seitetsu Kabushiki Kaisha. Car wheels. 2,920,918, 1-12-60, Cl. 295-1.
- Nojiri, Tatuo, to Canon Camera Co., Inc. Lens turret mechanism for motion picture cameras. 2,926,578, 3-1-60, Cl. 95-44.
- Noll, Frank R., to International Telephone and Telegraph Corp. Semi-conductor device for heat transfer utilization. 2,938,130, 5-24-60, Cl. 307-88.5.
- Nolan, Edward J., D. H. Pflug, and F. Roberts, to Republic Aviation Corp. Canopy supporting tool. 2,924,418, 2-9-60, Cl. 248-354.
- Nolan, James. Drain board mounting. 2,956,288, 10-18-60, Cl. 4-189.
- Nolan, John H. Defoliating crop-bearing plants with elemental iodine. 2,937,081, 5-17-60, Cl. 71-2.2.
- Nolan, John T.: See—  
Chafetz, Harry, Schallenberg, Nolan, and Patterson. 2,962,527.
- Nolan, Terence C., to General Electric Co. Securement means for wall-mounted cooking ovens. 2,921,576, 1-19-60, Cl. 126-273.
- Nolan, Thomas J.: See—  
Shoemaker, Robert H., Faler, and Nolan. 2,936,278.
- Nolan, William J., Jr., to Motorola, Inc. Capillary spark light source. 2,937,299, 5-17-60, Cl. 313-113.
- Noland, Albert R., and H. G. Tasker, to Gilfillan Bros., Inc. System for measuring differential phase delay in electrical apparatus. 2,929,987, 3-22-60, Cl. 324-57.
- Noland, James A., Jr. Tractor safety system. 2,956,633, 10-18-60, Cl. 180-82.
- Noland, Robert A., and C. C. Stone, to United States of America, Atomic Energy Commission. Apparatus and method for arc welding. 2,936,363, 5-10-60, Cl. 219-123.
- Noland, Wayne B., to Woodford Mfg. Co. All weather water hydrant. 2,932,313, 4-12-60, Cl. 137-339.
- Nold, Henry G., to Holley Carburetor Co. Fuel injection apparatus. 2,923,283, 2-2-60, Cl. 123-139.
- Nolden, John L., and I. J. Swartz, to said Swartz assor. to said Nolden. Hydraulic bumper jack. 2,947,513, 8-2-60, Cl. 254-2.
- Nolden, William F., and C. F. Robbins, to Cutler-Hammer, Inc. Electric switches. 2,930,859, 3-29-60, Cl. 200-16.
- Noldge, Hellmut, C. Grober, and E. Todten. Method and device for measuring quantities of heat. 2,931,222, 4-5-60, Cl. 73-193.
- Nolen, Herbert I.: See—  
Wroblewski, Richard E., and Nolen. 2,948,409.
- Nolen, John L., deceased (M. Nolen, executrix of J. L. Nolen). Pivoted outer jaw pipe wrench. 2,953,050, 9-20-60, Cl. 81-99.
- Nolen, Mildred: See—  
Nolen, John L. 2,953,050.
- Noll, Edward M., and M. Mandl, to Snyder Mfg. Co. Antenna structure with switching means. 2,934,764, 4-26-60, Cl. 343-876.
- Noll, Frank R.: See—  
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- Nolle, Ernst, to Patent-Treuhand-Gesellschaft für elektrische Glühlampen m.b.H., (Patent Fiduciary Co. for Electric Incandescent Lamps Ltd.) Flashtube. 2,941,107, 6-14-60, Cl. 313-185.
- Nöllner, Hans-Georg, to Firma E. Leybold's Nachfolger. Pump. 2,938,664, 5-31-60, Cl. 230-141.
- Noller, Robert M., to Research Specialties Co. Streaking pipette. 2,958,345, 11-1-60, Cl. 141-18.
- Nolt, Edwin B.: See—  
Tarbox, John P., and Nolt. 2,926,601.
- Nolt, Edwin B., H. C. Eberly, and J. W. McDuffie, to Sperry Rand Corp. Hay balers. 2,950,670, 8-30-60, Cl. 100-142.
- Nolte, Albert C., Jr.: See—  
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- Nolte, Albert C., Jr. Knife. 2,950,531, 8-30-60, Cl. 30-353.
- Nolte, David G., to Halifax Paper Co., Inc. Package or container. 2,964,175, 12-13-60, Cl. 206-65.
- Nolte, Henry J.: See—  
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- Nolte, Louis C. Miter box for portable electric saws. 2,949,139, 8-16-60, Cl. 143-6.
- Nolte, Walter G., to Allis-Chalmers Mfg. Co. Brush holder assembly. 2,950,404, 8-23-60, Cl. 310-241.
- Nomarski, Georges, to Etablissement Public dit: Centre National de la Recherche Scientifique. Interferential polarizing device for study of phase objects. 2,924,142, 2-9-60, Cl. 88-14.
- Nomine, Gerard: See—  
Joly, Robert, and Nomine. 2,951,856.  
Joly, Robert, Nomine, and Jolly. 2,930,806.  
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Muller, Georges, Nomine, and Warnant. 2,931,815.  
Muller, Georges, Nomine, and Warnant. 2,952,682.
- Nomine, Gerard, to Les Laboratoires Francais de Chimiotherapie. Process for the production of 3 $\alpha$ -acetoxy-17 $\alpha$ -hydroxy-16 $\alpha$ -methyl- $\Delta^5$ -pregnene-20-one and intermediates. 2,945,029, 7-12-60, Cl. 260-239.55.
- Nomine, Gerard, and M. Vignau, to Les Laboratoires Francais de Chimiotherapie. Water-soluble derivatives of testosterone and process. 2,933,513, 4-19-60, Cl. 260-397.4.
- Nomine, Gerard, and P. Barthelemy, to UCLAF. Process of recovering vitamin B. 2,941,993, 6-21-60, Cl. 260-211.5.
- Nommensen, Erwin W., E. A. Hunter, J. K. Mertzweiler, and E. T. Delaune, to Esso Research and Engineering Co. Alcohol hydrofinishing. 2,944,087, 7-5-60, Cl. 260-643.
- Nomura, Atsushi. Tube container having a screw-cap with a cord. 2,925,935, 2-23-60, Cl. 220-38.5.
- Nomura, Kaworu C., to Minneapolis-Honeywell Regulator Co. Process for the production of semiconductor devices. 2,921,362, 1-19-60, Cl. 29-25.3.
- Nonnenmacher, Helmut: See—  
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- Nonnemaker, George M.: See—  
Cole, Addison D., James, Nonnemaker, and Sternberg. 2,921,305.
- Nonomaque, Clyde J., to General Electric Co. Refrigerating system including auxiliary hot gas defrosting circuit. 2,928,256, 3-15-60, Cl. 62-156.
- Nonomaque, Clyde J., to General Electric Co. Refrigerating system including hot gas defrost means. 2,961,848, 11-29-60, Cl. 62-278.
- Noodelman, Samuel, to The B. A. Wesche Electric Co. Angular movement transmitting device. 2,958,812, 11-1-60, Cl. 318-27.
- Noon, T. Cyril, to Thompson Ramo Wooldridge Inc. Control valve actuator system for alternator drive turbine. 2,927,591, 3-8-60, Cl. 137-30.
- Noon, T. Cyril, and W. R. Chapman, to Thompson Ramo Wooldridge Inc. Throttle valve having flow passages for minimizing drift. 2,925,242, 2-16-60, Cl. 251-63.
- Noon, T. C., and W. R. Chapman, to Thompson Ramo Wooldridge Inc. Fuel control unit. 2,956,578, 10-18-60, Cl. 137-108.
- Noonan, William G., and V. L. Vice, to Marine Exploration Co. Seismic exploration. 2,952,834, 9-13-60, Cl. 340-15.
- Noordanus, Johannes, and H. Volkers, to North American Philips Co., Inc. Transistor oscillator. 2,951,994, 9-6-60, Cl. 331-113.
- Noorlander, Daniel O.: See—  
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- Noot, Paul R. Wagon covering attachment for child's wagon. 2,942,914, 6-28-60, Cl. 296-102.
- Nopco Chemical Co.: See—  
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Kapp, Roland, and Griffith. 2,935,528.  
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- Norbäck, Per J. G.: See—  
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Munters, Carl G., and Norbäck. 2,957,321.
- Norbom, Ragnar A. Demountable railway container transfer apparatus. 2,922,537, 1-26-60, Cl. 214-516.
- Norby, Clifford J.: See—  
Weber, Karl F., Clouse, and Norby. 2,934,181.
- Norcross, James E.: See—  
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- Norcross, Sterling E. Coin and ticket holder. 2,954,120, 9-27-60, Cl. 206-84.
- Nord Aviation Societe Nationale de Constructions Aeronautiques: See—  
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- Nord, Eric T., to U.S. Automatic Corp. Coupling unit. 2,956,826, 10-18-60, Cl. 287-52.
- Nord, Eric T., and S. R. Rosen, to Bede Products Corp. Spray gun. 2,936,959, 5-17-60, Cl. 239-127.
- Nord, John C. Aircraft arrester. 2,919,872, 1-5-60, Cl. 244-110.
- Nordahl, John G., and W. D. Winter, to Sperry Rand Corp. Electronic amplifier. 2,949,543, 8-16-60, Cl. 307-88.5.
- Nordberg Mfg. Co.: See—  
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Lieberherr, Hans U. 2,936,575.  
Lieberherr, Hans U. 2,952,968.  
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- Nordgren, Sven-Ake, to Aktiebolaget Vibro-Verken. Vibrators, more particularly an immersion vibrator. 2,945,970, 7-19-60, Cl. 310-81.
- Nordell, Carl H. Trash rack. 2,930,485, 3-29-60, Cl. 210-158.



- Nordell, Carl H. Curtain support. 2,946,378, 7-26-60, Cl. 160-348.
- Nordell, Carl H., 15% to L. N. Millsbaugh, and 15% to A. N. Kasper. Method of and apparatus for cleaning screens. 2,963,156, 12-6-60, Cl. 210-67.
- Norden, Alexander R., to Federal Pacific Electric Co. Circuit breakers. 2,923,788, 2-2-60, Cl. 200-74.
- Norden, Alexander R., to Federal Pacific Electric Co. Automatic circuit breakers. 2,941,058, 6-14-60, Cl. 200-116.
- Norden, Alexander R., to Federal Pacific Electric Co. Circuit breaker having locking provision. 2,943,162, 6-28-60, Cl. 200-44.
- Norden, Alexander R., to Federal Pacific Electric Co. Multiple-wire connectors. 2,943,394, 6-28-60, Cl. 339-242.
- Norden Laboratories, Inc.: See—  
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- Nordholt, Louis E., and R. M. Scherer, to Temco, Inc. Hermetically sealed heaters. 2,964,034, 12-13-60, Cl. 126-110.
- Nordin, Overt L. Couplings and safety devices therefor. 2,943,869, 7-5-60, Cl. 285-90.
- Nordin, Overt L., to Thornhill-Craver Co., Inc. Injector apparatus and methods of injecting a slurry into a pipeline. 2,957,484, 10-25-60, Cl. 137-1.
- Nordischer Maschinenbau Rud. Baader: See—  
Christie, Peter J. F. 2,938,229.  
Michael, Johannes. 2,961,696.
- Nordlin, Henry G., to International Telephone and Telegraph Corp. Electromagnetic delay cable. Re. 24,813, 4-19-60, Cl. 333-31.
- Nordmark, Walter E.: See—  
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Humphries, Douglas N., and Nordmark. 2,921,623.
- Nordmark, Walter E., to American Seating Co. Table top construction. 2,940,805, 6-14-60, Cl. 311-107.
- Nordquist, Ronald E. J., to American Can Co. Can vending machine. 2,956,660, 10-18-60, Cl. 194-2.
- Nordquist, Ronald E. J., and J. E. Socke, to American Can Co. Demountable freight carrier. 2,922,517, 1-26-60, Cl. 206-56.
- Nordquist, Ronald E. J., and L. N. Brager, to American Can Co. Method of and apparatus for coating containers. 2,952,567, 9-13-60, Cl. 117-95.
- Nordstrand, Sven-Gosta, to Aktiebolaget Nordstrandsventilen. Valves. 2,928,421, 3-15-60, Cl. 137-595.
- Nordstrom, Gordon L.: See—  
Swanson, Walter S., and Nordstrom. 2,939,352.
- Nordstrom, Kenneth L.: See—  
Mertz, Lyle C., and Nordstrom. 2,941,730.
- Nordstrom, Magnus: See—  
Fink, William C., and Nordstrom. 2,955,447.
- Nordstrom, Sven L.: See—  
Hultin, Eskil A., and Nordstrom. 2,929,764.
- Nordwald, Leo: See—  
Alexander, Walter C., Wanger, and Nordwald. 2,931,168.
- Norehad, Onnig M. Cord. 2,963,716, 12-13-60, Cl. 5-360.
- Norelius, Emil F., to Allis-Chalmers Mfg. Co. Multiple wheel drive mechanism. 2,936,036, 5-10-60, Cl. 180-49.
- Norelius, Russell G., to Dresser Industries, Inc. Radioactivity well surveying. 2,933,609, 4-19-60, Cl. 250-83.6.
- Noren, Tore H.: See—  
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Federighi, George J., and Noren. 2,948,436.  
Federighi, George J., and Noren. 2,949,120.
- Noreen, Alfred E.: See—  
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- Norfleet, Charles E.: See—  
Benson, John L., and Norfleet. 2,933,327.
- Norgaard, Donald E., to General Electric Co. Modulator and modulation system. 2,940,056, 6-7-60, Cl. 332-44.
- Norgine Laboratories Inc.: See—  
Stein, Walter. 2,958,627.
- Norgren, C. A., Co.: See—  
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- Norkin, Morris, to Marvel Umbrella Frames, Inc. Telescopic stick for folding umbrella. 2,929,388, 3-22-60, Cl. 135-25.
- Norlin, Francis E., to Borg-Warner Corp. Pump. 2,930,321, 3-29-60, Cl. 103-37.
- Norlin, Francis E., to Borg-Warner Corp. Pump. 2,943,574, 7-5-60, Cl. 103-37.
- Norlin, Francis E., to Borg-Warner Corp. Variable volume wobble plate pump. 2,956,501, 10-18-60, Cl. 103-37.
- Norlin, Francis E., to Borg-Warner Corp. Pump. 2,962,970, 12-6-60, Cl. 103-37.
- Norlin, Nils, to Carl Allers, Etablissements A/S. Roller vibrator mechanism. 2,948,158, 8-9-60, Cl. 74-22.
- Norlin, Nils H. V., to Carl Allers Etablissement A/S. Liquid feed device. 2,955,532, 10-11-60, Cl. 101-350.
- Norma Pencil Corp.: See—  
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- Normalair Ltd.: See—  
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- Norman, Alexandra. Bottle support. 2,963,167, 12-6-60, Cl. 211-74.
- Norman, George H. C., to The International Nickel Co., Inc. Process for roasting sulfides. 2,943,929, 7-5-60, Cl. 75-9.
- Norman, George K., to The Lubrizol Corp. Preparation of substituted phosphoric acids. 2,952,699, 9-13-60, Cl. 260-461.
- Norman, Irwin, and C. J. Barter, Jr., to Courtaulds, Inc. Spinning jet and process of using same. 2,932,851, 4-19-60, Cl. 18-8.
- Norman, Noah M., to Dorsey Trailers, Inc. Refrigerating unit for cargo transporting vehicle bodies. 2,932,957, 4-19-60, Cl. 62-329.
- Norman, Oscar L.: See—  
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- Norman, Robert H., to Sperry Rand Corp. Parallel fast carry counter with serial carry gate propagation. 2,956,181, 10-11-60, Cl. 307-88.5.
- Norman, Robert H., to Sperry Rand Corp. Binary half adder circuit. 2,956,182, 10-11-60, Cl. 307-88.5.
- Norman, Robert W., and R. R. Hiams. Water closet tank liner. 2,942,275, 6-23-60, Cl. 4-18.
- Norman, William S., to C.D. Patents Ltd. Heat exchanger. 2,927,877, 3-8-60, Cl. 154-75.
- Normand, James K.: See—  
Bulls, James W., Normand, and Claassen. 2,922,612.
- Normandie Bedspread Co.: See—  
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- Normandin, Robert F. Safety clamp. 2,926,410, 3-1-60, Cl. 24-252.
- Normandin, William O., to Canada Envelope Co. Gusset type envelopes. 2,945,616, 7-19-60, Cl. 229-68.
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- Normant, Henri, to Societe des Usines Chimiques Rhone-Poulenc. Preparation of cyclohexenone derivatives. 2,927,134, 3-1-60, Cl. 260-586.
- Normant, Henri, to Societe des Usines Chimiques Rhone-Poulenc. Preparation of acetylenic Grignard compounds. 2,938,932, 5-31-60, Cl. 260-665.
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- Normington, James B., E. V. Hort, and H. B. Freyermuth, to General Aniline & Film Corp. Stabilization of aromatic amines. 2,964,561, 12-13-60, Cl. 260-578.
- Norquist, Harry H., and H. A. Gilbert, to Martinson Machine Co. Materials handling pallet and method of making pallets. 2,957,668, 10-25-60, Cl. 248-120.
- Norrbom, Gordon: See—  
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- Norrhede, Lars S. R., to Isoleringssaktiebolaget WMB. Method for pre-expanding expandable granules of a synthetic thermoplastic material. 2,944,292, 7-12-60, Cl. 18-48.
- Norholm, P. Henry. Apparatus for applying flexible tape to a cylindrical magazine. 2,963,291, 12-6-60, Cl. 270-79.
- Norrie, George O.: See—  
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- Norrie, Robert C., to Pacific Car and Foundry Co. Exhaust stack for tilting-cab vehicles. 2,925,874, 2-23-60, Cl. 180-64.
- Norrie, Robert C., to Pacific Car and Foundry Co. Steering mechanism for tilting cab. 2,937,881, 5-24-60, Cl. 280-87.
- Norrie, Robert C., to Pacific Car and Foundry Co. Towing tractor for airplanes. 2,941,611, 6-21-60, Cl. 180-45.
- Norrie, Robert C., to Pacific Car and Foundry Co. Latching mechanism for tilting cab vehicle. 2,943,693, 7-5-60, Cl. 180-89.
- Norrie, Robert C., to Pacific Car and Foundry Co. Automotive vehicle with tilting over-engine cab. 2,947,376, 8-2-60, Cl. 180-89.
- Norris, Alton C., and S. H. Johnson, Jr., to Moore-Handley Hardware Co., Inc. Removable vehicle container and body having retractable supports. 2,958,538, 11-1-60, Cl. 280-34.
- Norris, Bevvitt J., to International Telephone and Telegraph Corp. Screen grid amplifier. 2,926,309, 2-23-60, Cl. 330-111.
- Norris, Bevvitt J., and F. R. Noll, to International Telephone and Telegraph Corp. Transistorized voltage regulators. 2,922,945, 1-26-60, Cl. 323-22.
- Norris, Bob, and J. M. Kendall. Torpedo exploder mechanism. 2,961,960, 11-29-60, Cl. 102-17.
- Norris, Frank A.: See—  
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- Norris, Isaac S. Bank teller's protective device. 2,937,602, 5-24-60, Cl. 109-12.
- Norris, James C.: See—  
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- Norris, James C., and J. S. Oliver, to General Motors Corp. Distributor. 2,965,726, 12-20-60, Cl. 200-30.
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- Norris, John B.: See—  
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- Norris, Richard H., and C. O. Malmstrom, to New Method Steel Stamps, Inc. End stamping die. 2,939,386, 6-7-60, Cl. 101-28.
- Norris, Walter L.: See—  
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- Norrish, Kenneth A., and J. C. White, to The Bridgeport Metal Goods Mfg. Co. Liquid spray dispenser. 2,940,641, 6-14-60. Cl. 222—183.
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- North, Edwin W., and W. C. Bates, to National Lock Co. Cabinet guide and catch assembly. 2,962,319, 11-29-60. Cl. 292—275.
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- Blashfield, William H. 2,956,127.
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- Bundus, Robert H., North, and Noznick. 2,959,192.
- North, John D. Balanced rotary hydraulic valves. 2,946,348, 7-26-60. Cl. 137—624.
- North, Philip P.: See—Kummer, Joseph T., Kressley, Grossman, and North. 2,932,739.
- North, Oliver S. Smoking tobacco products. 2,955,060, 10-4-60. Cl. 131—17.
- North American Aviation, Inc.: See—Abbott, Wilton R. 2,928,033.
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- Norton, James A., to General Motors Corp. Filter and method for purifying oil. 2,943,737, 7-5-60, Cl. 210-75.
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- Norton, James H., and W. C. Pattenden, to Esso Research and Engineering Co. Lubricant compositions containing metal salts of aromatic hydroxy carboxylic acids as anti-oxidants. 2,951,808, 9-6-60, Cl. 252-18.
- Norton, James L., to Bristol Aero-Engines Ltd. Ram-jet mounting structure. 2,947,140, 8-2-60, Cl. 60-35.6.
- Norton, John, to Leeson Holt Ltd. Compact three diameter knot for flexible or slippery filaments. 2,942,904, 6-28-60, Cl. 289-1.
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- Norton, Lowell E., to Radio Corp. of America. System for utilizing impact induced transitions in a microwave resonant medium. 2,965,795, 12-20-60, Cl. 315-535.
- Norton, Ralph S., to McGraw-Edison Co. Apparatus for indicating the number of turns of an electrical coil. 2,921,255, 1-12-60, Cl. 324-34.
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- Norton, Verald N. Compound internal combustion engine. 2,937,630, 5-24-60, Cl. 123-53.
- Norwald, Leo, to United States of America, Air Force. Fuel control for gas turbine power plants. 2,966,210, 12-27-60, Cl. 158-36.4.
- Norway, Harold L., and E. R. Billington, to The Bastian-Blessing Co. Horizontal filler. 2,951,502, 9-6-60, Cl. 137-558.
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- Norwood, Leland B., and D. L. Pearson, to North American Aviation, Inc. Enclosure device. 2,939,186, 6-7-60, Cl. 20-40.
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- Notley, Norman T., to E. I. du Pont de Nemours and Co. Photopolymerizable compositions and elements. 2,951,753, 9-6-60, Cl. 96-35.



- Notter, George K., and C. E. Hendel, to United States of America, Agriculture. Production of dehydrated potatoes. 2,959,487, 11-8-60, Cl. 99-207.
- Nottes, Guenther, and E. Weiss, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Removal of sulfur compounds from hydrocarbons with a sodium-sodium acetate. 2,957,820, 10-25-60, Cl. 208-232.
- Notthoff, Arthur P., Jr.: *See—*
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- Nottingham, Ralph K. Self-operating door and hinge. 2,958,091, 11-1-60, Cl. 16-156.
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- Novák, Bedřich, J. Bartůšek, and K. Kerhart. Boarding element for the boarding of iron-concrete plate-ceilings. 2,965,951, 12-27-60, Cl. 25-131.5.
- Novak, Emil J., to Jet Ignition Co., Inc. Spark plugs. 2,921,109, 1-12-60, Cl. 123-169.
- Novak, George J., to Western Electric Co., Inc. Assembly apparatus. 2,929,279, 3-22-60, Cl. 78-1.
- Novak, George J., to Western Electric Co., Inc. Staking apparatus. 2,959,076, 11-8-60, Cl. 78-1.
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- Novak, Leo J., to Commonwealth Engineering Co. of Ohio. Wood stains and method of preparing. 2,921,829, 1-19-60, Cl. 8-6.5.
- Novak, Leo J., to Midland Chemical Corp. Thickened or gelled normally liquid nitroparaffin propellants. 2,921,846, 1-19-60, Cl. 52-5.
- Novak, Leo J., to The Commonwealth Engineering Co. of Ohio. Metal particles and method of making. 2,930,767, 3-29-60, Cl. 252-477.
- Novak, Leo J., to The Commonwealth Engineering Co. of Ohio. Method of dry cleaning and rendering fabrics water repellent. 2,933,411, 4-19-60, Cl. 117-66.
- Novak, Leo J., to The Commonwealth Engineering Co. of Ohio. Reaction product of dextran-modified polyester with organic diisocyanate and method of producing same. 2,933,463, 4-19-60, Cl. 260-9.
- Novak, Leo J., to Basic Research Corp. Septic tank with sterilizer. 2,938,630, 5-31-60, Cl. 210-114.
- Novak, Leo J., to The Commonwealth Engineering Co. of Ohio. Method of preparing pigmented-dextran modified polyesters. 2,954,351, 9-27-60, Cl. 260-9.
- Novak, Leo J., to Midland Chemical Corp. Dextran ether formaldehyde reaction product. 2,961,439, 11-22-60, Cl. 260-209.
- Novak, Leo J., and J. R. Whitacre, to Union Carbide Corp. Continuously gas plated wires for potentiometers. 2,933,710, 4-19-60, Cl. 338-308.
- Novak, Leo J., and J. J. Bulloff, to Union Carbide Corp. Metal-to-metal adhesive bonding. 2,934,820, 5-3-60, Cl. 29-488.
- Novak, Leo J., and J. G. McCallum, to Union Carbide Corp. Method of making quick curing metal containing epoxy resin composition. 2,956,039, 10-11-60, Cl. 260-37.
- Novak, Louis, to R. Novak. Mounting structure for mirrors and the like. 2,923,199, 3-15-60, Cl. 40-152.1.
- Novak, Mathew A. Hydraulic brake locking device. 2,930,864, 3-29-60, Cl. 200-61.86.
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- Novak, Warren D., to General Electric Co. Electrical connector with printed circuit elements. 2,932,810, 4-12-60, Cl. 339-17.
- Novak, William R. Face guard for football players. 2,929,070, 3-22-60, Cl. 2-9.
- Novello, Frederick C., to Merck & Co., Inc. Derivatives of 4-quinoxalone. 2,952,680, 9-13-60, Cl. 260-256.5.
- Novello, Frederick C., to Merck & Co., Inc. Sulfamyl derivatives of certain saccharins and process. 2,957,883, 10-25-60, Cl. 260-301.
- Novello, Frederick C., to Merck & Co., Inc. Nitro-aniline disulfonyl chlorides. 2,961,463, 11-22-60, Cl. 260-543.
- Novello, Frederick C., to Merck & Co., Inc. Process for preparing substituted 1-amino-2,4 benzene disulfonamides. 2,965,655, 12-20-60, Cl. 260-397.7.
- Novello, Frederick C., to Merck & Co., Inc. Process for preparing substituted 1-amino-2,4 benzene disulfonamides. 2,965,656, 12-20-60, Cl. 260-397.7.
- Novello, Frederick C., to Merck & Co., Inc. Aniline compounds. 2,965,675, 12-20-60, Cl. 260-543.
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- Novick, Abraham, to F. L. Smithe Machine Co., Inc. Mechanism for cutting, notching and feeding diamond shaped envelope blanks. 2,951,408, 9-6-60, Cl. 83-88.
- Novick, Abraham, to F. L. Smithe Machine Co., Inc. Feeding mechanism for envelopes and the like. 2,954,225, 9-27-60, Cl. 271-1.
- Novick, Jack. Can stacking device. 2,957,601, 10-25-60, Cl. 220-97.
- Novkov, Raymond E., to Portage Double-Quick Inc. Quick change tool holder. 2,931,659, 4-5-60, Cl. 279-35.
- Novkov, Raymond E. Adjustable chip breaker. 2,937,432, 5-24-60, Cl. 29-96.
- Novkov, Raymond E. Combination cut-off and chamfering tool. 2,940,160, 6-14-60, Cl. 29-97.
- Novkov, Raymond E., to Portage Double Quick, Inc. Off-setting attachment for rotating spindle. 2,960,013, 11-15-60, Cl. 90-15.
- Novkov, Raymond E., to Manchester Machine & Tool Co. Adjustable chip breaker. 2,961,743, 11-29-60, Cl. 29-96.
- Novkov, Raymond E., to Manchester Machine & Tool Co. Cutoff tool and holder therefor. 2,964,833, 12-20-60, Cl. 29-95.
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- Nowak, Edward A., to Owens-Illinois Glass Co. Colorant dispenser for decorating machines. 2,956,499, 10-18-60, Cl. 101-124.
- Nowak, Klaus F. Muffler for internal combustion engines. 2,929,462, 3-22-60, Cl. 181-42.
- Nowak, Leon J., Jr. Gravity feeding chute for granular particles. 2,964,153, 12-13-60, Cl. 193-32.
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- Nowell, Richard A.: *See—*
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- Nowicki, Henry F., and H. J. Smiley, to James Lees and Sons Co. Method of weaving a pile fabric. 2,924,251, 2-9-60, Cl. 139-403.
- Nowlin, Anne C., to John A. Manning Paper Co., Inc. Sugar composition containing a crystallizing agent and process for producing the same. 2,928,747, 3-15-60, Cl. 99-134.
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- Nowlin, Gene, and H. D. Lyons, to Phillips Petroleum Co. Process and catalyst for production of olefin polymers. 2,920,066, 1-5-60, Cl. 260-94.9.
- Nowlin, Gene, and H. D. Lyons, to Phillips Petroleum Co. Removal of organometallic halides from organometals. 2,923,725, 2-2-60, Cl. 260-448.
- Nowlin, Gene, and H. D. Lyons, to Phillips Petroleum Co. Process and catalysts for production of olefin polymers. 2,935,500, 5-3-60, Cl. 260-94.9.
- Nowlin, Gene, and H. D. Lyons, to Phillips Petroleum Co. Process and catalyst for production of olefin polymers. 2,944,043, 7-5-60, Cl. 260-94.9.
- Nowlin, Gene, and H. D. Lyons, to Phillips Petroleum Co. Process and catalyst for production of olefin polymers. 2,956,993, 10-18-60, Cl. 260-94.9.
- Nowlin, Gene, and H. D. Lyons, to Phillips Petroleum Co. Preparation of organometal compounds. 2,958,703, 11-1-60, Cl. 260-448.
- Nowotny, William H., to Central California Engineering Corp. Patching apparatus. 2,956,460, 10-18-60, Cl. 81-15.5.
- Nowotny, William H., to Central California Engineering Corp. Cartridge plug tire patching apparatus. 2,966,190, 12-27-60, Cl. 152-370.
- Nowotny, William H. Welding and work tool mounting apparatus. 2,966,576, 12-27-60, Cl. 219-125.
- Noy, Jack M., and D. C. Smith, to American Metal Climax, Inc. Sublimed oxide furnace. 2,958,588, 11-1-60, Cl. 23-264.
- Noyce, Robert N., to Beckman Instruments, Inc. Transistor structure and method. 2,929,753, 3-22-60, Cl. 148-33.
- Noyce, Robert N., to Fairchild Semiconductor Corp. Semiconductor scanning device. 2,959,681, 11-8-60, Cl. 250-211.
- Noyes, Charles W., to Marco Industries Co. Multiple unit indicator with individual testing system. 2,925,592, 2-16-60, Cl. 340-366.
- Noyes, Edwin G., Jr.: *See—*
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- Noyes, Edwin G., Jr., and O. N. Bryant, to Westinghouse Electric Corp. Control apparatus. 2,932,306, 4-12-60, Cl. 137-29.
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- Nubani, Jawdat L., to Radio Corp. of America. Glass bulb fabrication. 2,956,374, 10-18-60, Cl. 49-89.
- Nubar, Yves, and W. H. Heath, to United States of America, Navy. Device for measuring the orientation of a surface. 2,937,585, 5-24-60, Cl. 95-12.5.



- Nuber, John H.: *See*—  
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- Nucci, Louis M.: *See*—  
Kaplan, Richard D., Nucci, and Maravel. 2,939,651.
- Nuclear-Chicago Corp.: *See*—  
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- Nuclear Corp. of America: *See*—  
Bernstein, Bernard. 2,957,098.  
Konner, Wilfred R. 2,943,199.
- Nuclear Development Corp. of America: *See*—  
Kolodney, Morris, and Hyman. 2,964,380.  
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- Nuclear Research Corp.: *See*—  
Cherry, Norman H. 2,928,947.  
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- Nuffield Tools and Gauges Ltd.: *See*—  
Sharp, William L. 2,953,856.
- Nugent, Henry E. Visual display and method of making same. 2,937,931, 5-24-60, Cl. 41-34.
- Nugent, Robert F., to Bendix Aviation Corp. Fuel control system for gas turbine engines. 2,947,142, 8-2-60, Cl. 60-39.28.
- Nugey, Anthony L. Method of gelatinizing raw cereals with enzymes. 2,951,762, 9-6-60, Cl. 99-51.
- Null, Fay E.: *See*—  
Jones, Thomas G., Jr., and Null. 2,951,658.
- Null, Fay E., to United States of America, Air Force. Detector system. 2,951,175, 8-30-60, Cl. 315-10.
- Null, Fay E., and W. D. Adams. Infra-red television detector and controller. 2,955,777, 10-11-60, Cl. 244-14.
- Nummy, William R.: *See*—  
Holly, Earl D., and Nummy. 2,947,730.
- Nummy, William R., to The Dow Chemical Co. Vinylbenzyl thioesters of carboxylic acids and polymers thereof. 2,947,731, 8-2-60, Cl. 260-79.7.
- Nunrich, Fred H., to International Telephone and Telegraph Corp. Signal detection circuit. 2,934,642, 4-26-60, Cl. 250-27.
- Nunan, J. K.: *See*—  
Kiebert, Martin V., Jr. 2,965,724.
- Nunes, John T.: *See*—  
Bonnard, Armand A., and Nunes. 2,965,124.
- Nunn, Leslie G.: *See*—  
Hyatt, Robert C., Mayhew, and Nunn. 2,946,721.
- Nunnelee, Harold B., and W. A. Schumacker, to Allis-Chalmers Mfg. Co. Apparatus for cladding. 2,931,886, 4-5-60, Cl. 219-76.
- Nuorivaara, Zachris E. M., to Svenska Tändsticks Aktiebolaget. Sound deadening or absorbing wallboard. 2,954,838, 10-4-60, Cl. 181-33.
- Nupp, Wayne E., and W. Kimball. Vehicle pit with hoist. 2,930,449, 3-29-60, Cl. 187-8.41.
- Nurmi, Eino R. Means for mounting a rotary element or an axle. 2,920,389, 1-12-60, Cl. 30-307.
- Nurmi, Eugene O.: *See*—  
Gresky, Alan T., Nurmi, Foster, Wischow, and Savolainen. 2,951,706.
- Nursmatic Corp.: *See*—  
Witz, Henry W. 2,960,088.
- Nusbaum, Simon R., to Pennco Engineering Co. Dispensing containers for refrigerants. 2,956,708, 10-18-60, Cl. 222-4.
- Nuss, Oscar F., to Paper Mate Mfg. Co. Writing instruments. 2,921,557, 1-19-60, Cl. 120-42.03.
- Nussbaum, Harold J.: *See*—  
Baker, Eleanor S. 2,940,443.
- Nussbaum, Herbert H., to Miller Hydro Co. Power driven conveyors. 2,966,251, 12-27-60, Cl. 198-31.
- Nussbaum, Otto J.: *See*—  
Malkoff, Hyman, and Nussbaum. 2,963,877.
- Nussbaum, Wilmer C.: *See*—  
De Voe, Paul R., and Nussbaum. 2,954,492.
- Nussli, Guillaume. Time piece. 2,930,183, 3-29-60, Cl. 58-125.
- Nussle, Guillaume. Wrist-watch. 2,952,967, 9-20-60, Cl. 58-125.
- Nutone, Inc.: *See*—  
Jolly, John G. 2,946,905.
- Nuttall, Edwin D., to United Gas Corp. Methods of and apparatus for determining the wall thickness of metallic elements. 2,963,644, 12-6-60, Cl. 324-37.
- Nuttall, Hubert V., to Hughes Aircraft Co. Magnetic amplifier circuit. 2,933,617, 4-19-60, Cl. 307-88.
- Nuttall, Thomas C., to Cinema-Television Ltd. Electronic apparatus for timing events. 2,921,258, 1-12-60, Cl. 324-88.
- Nuttall, Thomas C., and L. C. Bentley, to W. D. Engineering Co., Ltd. Cathode ray tube apparatus for the inspection of articles. 2,930,898, 3-29-60, Cl. 250-217.
- Nutter, Edward H.: *See*—  
Burns, William E., and Nutter. 2,939,116.
- Nutter, Irvin E. Valve mechanism for fluid and liquid contact apparatus. 2,951,691, 9-6-60, Cl. 261-114.
- Nutter, Walter, to T.M.M. (Research) Ltd. Textile combing and other machine. 2,925,627, 2-23-60, Cl. 19-130.
- Nutting, Lee, R. M. Silverstein, and C. M. Himel, to Hills Bros. Coffee, Inc. Bis (2-pyrrolemethyl) disulfide and its N,N-dimethyl derivative. 2,951,848, 9-6-60, Cl. 260-313.
- Nutting, Lee, R. M. Silverstein, and C. M. Himel, to Hills Bros. Coffee, Inc. Diveratryl disulfide and its preparation. 2,957,919, 10-25-60, Cl. 260-608.
- Nuut, August, and M. J. Hillman, to Hycon Mfg. Co. Power regulator. 2,963,638, 12-6-60, Cl. 323-22.
- Nya Murbruksfabriken i Stockholm Aktiebolag: *See*—  
Ostergren, Jarl, O. B. 2,950,206.
- Nyberg, Carl E. J. Hose coupling. 2,919,935, 1-5-60, Cl. 284-18.
- Nychka, Henry R.: *See*—  
Gilbert, Everett E., and Nychka. 2,928,836.
- Nycz, Joseph C., and L. J. Lunas, to Westinghouse Electric Corp. Moving coil electrical instrument. 2,929,994, 3-22-60, Cl. 324-144.
- Nyden, Robert. Valved closures for containers. 2,961,169, 11-22-60, Cl. 239-327.
- Nye, Benjamin E., and I. D. Smith, to Cleveland Pneumatic Industries, Inc. Landing gear shock absorber system. 2,943,826, 7-5-60, Cl. 244-104.
- Nye, Clifford: *See*—  
Kopprasch, William A., and Nye. 2,945,621.
- Nye, Dudley D., and E. J. Ross, to Robertshaw-Fulton Controls Co. Transducer. 2,932,777, 4-12-60, Cl. 317-246.
- Nye, Dudley D., and R. Y. Paradise, to Robertshaw-Fulton Controls Co. Parallel component controller servosystem. 2,946,943, 7-26-60, Cl. 318-448.
- Nye, Maurice A., and J. C. Bittman, to The Vaughn Machinery Co. Wire drawing and winding machine. 2,927,744, 3-8-60, Cl. 242-82.
- Nye Rubber Co., The: *See*—  
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- Nye Tool Co.: *See*—  
Halligan, Eugene P. 2,962,140.
- Nyes, Jean M., and M. J. Libeer, to Gevaert Photo-Producten N.V. Polymethine dyes containing a 4-(hydroxymethyl)- or 4-(acetoxymethyl)-Δ 2-thiazoline or -oxazoline nucleus, and preparation thereof. 2,954,376, 9-27-60, Cl. 260-240.
- Nygaard, Herman, to Daystrom Inc. Endless loop magnetic tape cartridge and magazine. 2,940,753, 6-14-60, Cl. 271-218.
- Nygard, Halvor: *See*—  
Teer, Kees, and Nygard. 2,935,568.
- Nygard, John C.: *See*—  
Dewey, Davis R., II, and Nygard. 2,931,941.
- Nygard, John C., to High Voltage Engineering Corp. Compact linear accelerator. 2,922,921, 1-26-60, Cl. 315-5.42.
- Nygren, Aarre E. E. Door lock. 2,939,737, 6-7-60, Cl. 292-170.
- Nylander, Arnold L., to General Electric Co. Multi-range hook-on electrical indicating instrument. 2,948,853, 8-9-60, Cl. 324-115.
- Nylin, Nels E., to Aerojet-General Corp. Explosive valve device. 2,966,163, 12-27-60, Cl. 137-68.
- Nyquist, Nels H. Hinges. 2,954,578, 10-4-60, Cl. 16-164.
- Nyrop, Aage. Centrifugal separator. 2,955,754, 10-11-60, Cl. 233-20.
- Nyrop, Johan E., P. Høhne, and A. Møller, to Aktieselskabet Niro Atomizer. Atomizer for the atomization of liquid dispersions in a reaction chamber. 2,920,830, 1-12-60, Cl. 239-222.
- Nysco Laboratories, Inc.: *See*—  
Nalin, Edward, Yoss, Sacks, and Smedresman. 2,963,402.
- Sacks, Milton. 2,946,332.
- Nystad, Harry: *See*—  
Naystad, Ruth and H. 2,957,251.
- Nystad, Ruth and H. Educational jigsaw globe puzzles. 2,957,251, 10-25-60, Cl. 35-46.
- Nystrand, Ernst D., to Paper Converting Machine Co., Inc. Web winding mandrel. 2,931,590, 4-5-60, Cl. 242-72.
- Nystrand, Ernst D., to Paper Converting Machine Co., Inc. Apparatus for handling cylindrical objects. 2,938,319, 6-31-60, Cl. 53-214.
- Nystrom, Carl H., to American Bosch Arma Corp. Fuel injection apparatus. 2,922,369, 1-26-60, Cl. 103-2.
- Nystrom, Carl H., and A. T. Huse, to American Bosch Arma Corp. Fuel injection apparatus. 2,950,095, 8-23-60, Cl. 261-26.
- Nystrom, Karl T. Axle stop for journal boxes. 2,959,455, 11-8-60, Cl. 308-38.
- Nystuen, Marcus I., to Economics Laboratory, Inc. Thermo-static time delay relay. 2,949,518, 8-16-60, Cl. 200-122.
- OPW Corp.: *See*—  
Boone, Wallace D., and Briede. 2,965,116.
- O & S Bearing & Mfg. Co.: *See*—  
Gross, Elmer J. 2,921,702.  
Kogstrom, Axel W. 2,921,809.
- Oades, Jack L., to C. L. Shinn. Portable collapsible stretcher. 2,947,007, 8-2-60, Cl. 5-82.
- Oak Mfg. Co.: *See*—  
Fichter, Ludwig J. 2,943,165.  
Fichter, Ludwig J., and Mastney. 2,949,043.  
Gelzer, John R. 2,954,469.  
Howell, Hugh A. 2,922,859.  
Howell, Hugh A. 2,933,571.  
Howell, Hugh A. 2,935,583.  
Howell, Hugh A., and Jedd. 2,933,572.  
Meyer, Walter. 2,957,356.  
Williams, John H. 2,960,581.
- Oak Rubber Co., The: *See*—  
Ebel, Adolf G. 2,952,094.
- Oakden, Richard R., 1/2 to Richard Lees Ltd. Casting of reinforced concrete beams. 2,938,255, 5-31-60, Cl. 25-41.
- Oakes, E. T. Corp., The: *See*—  
Oakes, Earle T. 2,920,964.



- Oakes, Billy D., to The Dow Chemical Co. Inhibition of corrosion of metals. 2,931,700, 4-5-60, Cl. 21-27.
- Oakes, Earle T., to The E. T. Oakes Corp. Method of producing soda crackers and other fermented products. 2,920,964, 1-12-60, Cl. 99-90.
- Oakes, Vincent, and H. N. Rydon, said Oakes assor. to The Anchor Chemical Co. Ltd. Derivatives of 1:3:5-triazanaphthalene. 2,924,399, 2-9-60, Cl. 260-256.4.
- Oakes, William S., to General Electric Co. Grid current detector for automatic tube testing. 2,965,839, 12-20-60, Cl. 324-25.
- Oakley, Charles B.: *See*—  
Larky, Norbert D., and Oakley. 2,948,775.
- Oakley, Gilbert F., to MacLean-Fogg Lock Nut Co. Retractable lading strap anchor. 2,953,104, 9-20-60, Cl. 105-369.
- Oakley, Howard T.: *See*—  
Leary, Robert F., Oakley, and McKay. 2,964,504.
- Oakley, Sterling A. Sheathed heating element and process of making the same. 2,947,963, 8-2-60, Cl. 338-278.
- Oaklyn Specialty Co.: *See*—  
Schaefer, William. 2,957,440.
- Oakman, Albert S.: *See*—  
Alio, Peter, and Oakman. 2,961,505.
- Oaks, Willis C.: *See*—  
Runkel, La Vern E., Berry, and Oaks. 2,938,624.
- Oates, Robert F., and H. W. Buckmeyer, to Texas Instruments, Inc. Method and apparatus for testing a record element. 2,922,106, 1-19-60, Cl. 324-34.
- Oathout, John E., to Lyon Inc. Gang spindle fixture for knife handles or the like. 2,920,425, 1-12-60, Cl. 51-84.
- Oatman, Elmer L.,  $\frac{1}{2}$  to T. J. Short. Automatic hod carrier. 2,955,716, 10-11-60, Cl. 212-91.
- Obeck, Ferdinand J., to Pittsburgh Plate Glass Co. Brush display card. 2,944,665, 7-12-60, Cl. 206-79.
- Obeck, Ferdinand J., to Pittsburgh Plate Glass Co. Package for displaying and protecting brushes. 2,958,087, 11-1-60, Cl. 15-184.
- Oebenhaus, Victor M., to Sprague Electric Co. Tubular capacitor. 2,948,838, 8-9-60, Cl. 317-242.
- Oben-Stintenberg, Erwin: *See*—  
Rolph, Henry D., and Oben-Stintenberg. 2,956,302.
- Oberauer, John, to The J. B. Ehrsam & Sons Mfg. Co. Splicing machine and method. 2,945,462, 7-19-60, Cl. 113-1.
- Oberbacher, Bonifaz, and O. Schlier, to Norddeutsche Affinerie. Process for the production of selenium of at least 99.99% purity. 2,930,678, 3-29-60, Cl. 23-209.
- Oberdorfer, Robert A., J. S. Baer, and R. D. Grapes, to Radio Corp. of America. Indexing mechanism. 2,934,006, 4-28-60, Cl. 101-99.
- Oberdorfer, Paul E., Jr., to Sun Oil Co. Partial oxidation of methane in a motored engine. 2,922,809, 1-26-60, Cl. 260-451.
- Oberdorfer, Paul E., Jr., to Sun Oil Co. Engine deposit removal. 2,932,618, 4-12-60, Cl. 252-143.
- Oberdorfer, Paul E., Jr., to Sun Oil Co. Composition for engine deposit removal. 2,935,479, 5-3-60, Cl. 252-170.
- Oberdorfer, Paul E., Jr., to Sun Oil Co. Motor fuel compositions. 2,939,774, 6-7-60, Cl. 44-63.
- Oberg, Albert E., to Westinghouse Electric Corp. Electron discharge device. 2,949,556, 8-16-60, Cl. 313-82.
- Oberg, Andrew L., C. L. Henley, and C. S. Bidwell. Indoor pet sand box. 2,963,003, 12-6-60, Cl. 119-1.
- Oberg, Fred N., to International Minerals & Chemical Corp. Spiral concentrator apparatus. 2,952,360, 9-13-60, Cl. 209-211.
- Oberg, Paul E., R. W. Olmen, and W. J. Geipel, to Sperry Rand Corp. Ferroelectrics. 2,964,832, 12-20-60, Cl. 29-25.35.
- Oberg, William O., to Reynolds Metals Co. Extrusion conveying apparatus. 2,950,815, 8-30-60, Cl. 207-1.
- Oberholtz, Lester E., and E. S. Miller, to Allis-Chalmers Mfg. Co. Mounting for a threshing cylinder concave. 2,959,175, 11-8-60, Cl. 130-27.
- Oberholtzer, Ralph W.: *See*—  
Farkin, Harry W., and Oberholtzer. 2,922,225.
- Oberhuber, William F., and E. Wollin. Burner for finely divided fuel. 2,960,047, 11-15-60, Cl. 110-28.
- Oberlin, Max, to Ciba Pharmaceutical Products Inc. Process for preparation of 20-keto-16-pregnenes from 16-acyloxy-20-keto pregnanes. 2,929,826, 3-22-60, Cl. 260-397.4.
- Oberlin, Richard P.: *See*—  
Eder, Harvey P., Barrett, Monk, and Oberlin. 2,940,747.
- Oberly, Richard W., to The Standard Oil Co. Corrosion testing device. 2,928,726, 3-15-60, Cl. 23-253.
- Obermaier & Cie.: *See*—  
Scholl, Mario, Obermaier, and Scharfenberger. 2,944,318.
- Obermaier, Frank E., to The Dole Valve Co. Check valve. 2,962,047, 11-29-60, Cl. 137-525.
- Obermaier, Walter: *See*—  
Scholl, Mario, Obermaier, and Scharfenberger. 2,944,318.
- Obermajer, Vladimir, to Procesdes Sauter. Anti-vibratory suspension for centrifugally drying washing machine. 2,948,401, 8-9-60, Cl. 210-365.
- Oberman, Roelof M. M.: *See*—  
Kosten, Leendert, Van der Toorn, and Oberman. 2,963,220.
- Oberman, Roelof M. M., to De Staat Der Nederlanden, Ten Deze Verteenwoordigd Door De Directeur-General der Posterijen, Telegrafie en Telefonie. Apparatus for determining the phase of an A.C. voltage which can occur in 12 different phases having consecutive shifts of 30 degrees. 2,923,883, 2-2-60, Cl. 324-83.
- Obermayer, S. Co., The: *See*—  
Jacobs, Louis J. 2,949,704.
- Oberstar, Helen E.: *See*—  
Lerner, Louis L., Oberstar, and Safianoff. 2,964,770.
- Obes, Andrew N. Retractable landing gear for trailer bodies. 2,926,889, 3-1-60, Cl. 254-86.
- Oblinger, Edwin F.: *See*—  
Parker, Richard W., and Oblinger. 2,933,748.  
Parker, Richard W., and Oblinger. 2,939,717.  
Parker, Richard W., and Oblinger. 2,945,249.
- Obolensky, Guy, 10% to I. J. Kunik. Transport system for tape recorder and the like. 2,930,540, 3-29-60, Cl. 242-55.12.
- O'Boyle, Charles M.: *See*—  
Stultz, Posy G., Jr. 2,945,396.
- Obraz, Jaraslav,  $\frac{1}{2}$  to Chirana Praha, narodni podnik. Suppression of secondary over swings or overlaps in multistage amplifiers of wide dynamic range. 2,956,231, 10-11-60, Cl. 328-32.
- O'Brian, Edward D.: *See*—  
Bourns, Richard W., and Oblinger. 2,933,748.  
Bourns, Marlan E., Boode, and O'Brian. 2,932,808.  
Bourns, Marlan E., Hardison, and O'Brian. 2,935,715.  
O'Brian, Edward D., D. M. Malick, and W. C. Whitteker. Toy doll structures. 2,944,368, 7-12-60, Cl. 46-156.  
O'Brian, Edward D., and R. E. Tabulating constructions. 2,953,300, 9-20-60, Cl. 235-61.12.  
O'Brian, Edward D., and R. E. Electrolytic devices. 2,956,213, 10-11-60, Cl. 317-230.
- O'Brian, John E.: *See*—  
Fisher, Webster E., and O'Brian. 2,944,886.
- O'Brian, Robert E.: *See*—  
O'Brian, Edward D. and R. E. 2,953,300.  
O'Brian, Edward D. and R. E. 2,956,213.
- O'Brien, Arthur W., Jr., to American Potash & Chemical Corp. Continuous method of recording the progress of the reaction zone in detonating or burning columns. 2,925,729, 2-23-60, Cl. 73-35.
- O'Brien, Chester H. and N. L. Agricultural soil treatment with granulated foamed rubber latex. Re. 24,820, 5-3-60, Cl. 47-1.
- O'Brien, Edward D. Vertical flight conveyors. 2,934,201, 4-26-60, Cl. 198-213.
- O'Brien, Edward G. Golf practice device. 2,922,653, 1-26-60, Cl. 273-181.
- O'Brien, Edward J., and F. W. Wahlin, to Spraying Systems Co. Plural orifice fan shaped spray nozzle. 2,964,248, 12-13-60, Cl. 239-544.
- O'Brien, Francis L., 60% to B. E. Byrd. Musical instruments. 2,925,006, 2-16-60, Cl. 84-174.
- O'Brien, Frederic L.: *See*—  
Zabriskie, Douglas M., and O'Brien. 2,961,287.
- O'Brien, George, and O. W. Hill, to Phillips Petroleum Co. Method of testing heat exchangers for leaks. 2,927,005, 3-1-60, Cl. 23-230.
- O'Brien, Howard T. Cable retriever for pipe line cleaning machine. 2,926,775, 3-1-60, Cl. 203-45.
- O'Brien, Jeremiah W., to United Engineering and Foundry Co. Apparatus for coiling strip material. 2,937,821, 5-24-60, Cl. 242-78.5.
- O'Brien, John F., to United States of America, Army. Ob-turating cartridge. 2,938,458, 5-31-60, Cl. 102-38.
- O'Brien, John F., to United States of America, Army. Chambering mechanism for an automatic revolver type gun. 2,950,652, 8-30-60, Cl. 89-155.
- O'Brien, John F., to United States of America, Army. Plural-barrel gun with drum and chambering mechanism. 2,959,106, 11-8-60, Cl. 89-126.
- O'Brien, John F., to United States of America, Army. Twin-barrel gun with a drum and a multistation rammer. 2,965,006, 12-20-60, Cl. 89-155.
- O'Brien, John M., to Sylvania Electric Products Inc. Bi-stable device. 2,920,196, 1-5-60, Cl. 250-27.
- O'Brien, John V., to H. D. Conkey & Co. Sewer cleaning machine. 2,926,372, 3-1-60, Cl. 15-104.3.
- O'Brien, Joseph L., to Rohm & Haas Co. Dialkylphosphatoalkyl vinyl sulfides. 2,960,523, 11-15-60, Cl. 260-461.
- O'Brien, Joseph L., and C. A. Lane, to Rohm & Haas Co. Dialkylphosphonoalkyl acrylates and methacrylates and process for preparing same. 2,934,555, 4-26-60, Cl. 260-461.
- O'Brien, Joseph P.: *See*—  
Adams, Chester E., and O'Brien. 2,952,654.
- O'Brien, Leo J., to The Pure Oil Co. Secondary recovery. 2,941,597, 6-21-60, Cl. 166-42.
- O'Brien, Loren J., to Dana Corp. Differential gearing. 2,966,076, 12-27-60, Cl. 74-711.
- O'Brien, Norman L.: *See*—  
O'Brien, Chester H. and N. L. Re. 24,820.
- O'Brien, Richard C.: *See*—  
Hooven, Frederick J., and O'Brien. 2,944,472.
- O'Brien, Richard C., to Harris-Intertype Corp. Sheet detector for printing presses. 2,947,917, 8-2-60, Cl. 317-149.
- O'Brien, Richard J.: *See*—  
Gratian, Joseph W., and O'Brien. 2,923,488.



- O'Brien, Robert F., and E. S. Marvin, to Eastman Kodak Co. Camera wall and optical mount construction. 2,936,685, 5-17-60, Cl. 95-11.
- O'Brien, Robert J., and G. A. Vold, to Ekco-Alcoa Containers Inc. Apparatus for hooding open-faced containers. 2,950,590, 8-30-60, Cl. 53-342.
- O'Brien, Samuel J., to American Cyanamid Co. Fluorescent printing ink. 2,940,937, 6-14-60, Cl. 252-301.2.
- O'Brien, Thomas H., and E. J. Fuller, to Sperry Rand Corp. Radar system evaluator. 2,934,758, 4-26-60, Cl. 343-17.7.
- O'Brien, William H.: *See*—  
Swedish, Frank, Jr., O'Brien, and Picard. 2,940,591.
- Obrist, Heinrich A., to Escher Wyss Aktiengesellschaft. Hydraulic turbine plant having a concrete spiral housing. 2,945,960, 7-19-60, Cl. 290-52.
- Obszarny, Theodore J., and J. Schmidt, to Guardian Electric Mfg. Co. Relay. 2,937,249, 5-17-60, Cl. 200-87.
- O'Callaghan, Jerome J., to The Rauland Corp. Cathode-ray tube processing apparatus. 2,930,386, 3-29-60, Cl. 134-169.
- O'Callaghan, Thomas: *See*—  
Bergh, Sverre E., O'Callaghan, and Vining. 2,934,486.
- O'Callaghan, Thomas, to E. I. du Pont de Nemours and Co. Anode for fused salt electrolysis. 2,921,894, 1-19-60, Cl. 204-243.
- Ocean Drilling & Exploration Co.: *See*—  
Laborer, Alden J., and Graham. 2,921,442.
- Oceana International, Inc.: *See*—  
Trojanowski, George, and Brandt. 2,962,764.  
Trojanowski, George, and Brandt. 2,962,767.
- Ocenasek, William F. High-speed, sensitive drilling attachment. 2,960,893, 11-22-60, Cl. 77-55.
- Ochello, Thomas J.: *See*—  
Ochello, Thomas J. and Thomas J. 2,944,277.
- Ochello, Thomas J. and Thomas J. Side-mounted rear view mirror for vehicles having wiper means thereon. 2,944,277, 7-12-60, Cl. 15-250.3.
- Ochial, Shigeru. Synchronized picture film and sound record apparatus. 2,932,235, 4-12-60, Cl. 88-16.2.
- Ochs, Richard A.: *See*—  
Fohrbalt, Howard A., Hasko, and Ochs. 2,927,781.
- Ochsner, Howard J. Wrench having socket-size-adjusting inserts. 2,953,954, 9-27-60, Cl. 81-186.
- Ochsner, Paul: *See*—  
Verheyden, Albert, and Ochsner. 2,940,962.
- Ockels, Theodore S.: *See*—  
Funk, Walter F., Ockels, and Fisher. 2,964,122.
- O'Connell, Harry E.: *See*—  
Allen, Thomas S., Gould, Haas, and O'Connell. 2,942,039.
- O'Connell, John J., to General Motors Corp. Refrigerating apparatus. 2,960,849, 11-22-60, Cl. 62-407.
- O'Connell, Thomas B. Packaging structure. 2,935,222, 5-3-60, Cl. 220-21.
- O'Connell, Thomas J., to United States of America, Navy. Non-permanent radiation shield structure. 2,942,115, 6-21-60, Cl. 250-108.
- O'Connor, Bernard E.: *See*—  
Barr, Aaron C., Gorman, Minch, O'Connor, and Weaver. 2,953,324.
- O'Connor, Charles A., to Lesnor Machr Marine Co., Inc. Variable pitch marine propeller. 2,953,208, 9-20-60, Cl. 170-160.24.
- O'Connor, David E.: *See*—  
Came, Donald M., O'Connor, and Richardson. 2,947,541.
- O'Connor, Dagmar. Fastening devices for suspenders, belts and the like. 2,940,149, 6-14-60, Cl. 24-206.
- O'Connor, Donald J., to Morton Salt Co. Disposable shaker packet. 2,956,710, 10-18-60, Cl. 222-107.
- O'Connor, George L., D. W. Peck, and M. A. Eccles, to Union Carbide Corp. Hydrogenolysis of styrene residues. 2,929,855, 3-22-60, Cl. 260-668.
- O'Connor, J. C., & Sons, Inc.: *See*—  
Smiley, Earl I. 2,950,659.
- O'Connor, John J.: *See*—  
Edgemond, John W., Jr., and O'Connor. 2,945,516.
- O'Connor, Laurence T., to Gadget-Of-The-Month Club, Inc. Baby shower bath support. 2,933,735, 4-26-60, Cl. 4-185.
- O'Connor, Philip K.: *See*—  
Hessler, John O., O'Connor, and Stomiany. 2,943,892.
- O'Connor, Philip K., and S. J. Stomiany, to American-Marietta Co. Compression sponge mop. 2,947,014, 8-2-60, Cl. 15-119.
- O'Connor, Robert J. Electric wall and ceiling washer. 2,932,844, 4-19-60, Cl. 15-321.
- O'Connor, Thomas H.: *See*—  
Lotz, Henry. 2,964,862.
- O'Connor, Walter J. Self-regulating pumping mechanism. 2,957,427, 10-25-60, Cl. 103-120.
- O'Connor, William M., to Lockheed Aircraft Corp. Landing gear for aircraft. 2,954,188, 9-27-60, Cl. 244-102.
- O'Connor, Frank, C. K. Henninger, and W. C. Smith, to American Machine and Metals, Inc. Control apparatus. 2,955,753, 10-11-60, Cl. 233-4.
- Odasz, Francis B., Jr.; R. V. Witter, an original applicant, and said Odasz, assors. to J. R. Benson. Process for the manufacture of rubberized bitumen. 2,921,313, 1-12-60, Cl. 260-28.5.
- O'Day, Cortland N. Air diffusers. 2,947,237, 8-2-60, Cl. 98-40.
- O'Day, Cortland N. Air distributing outlet. 2,947,238, 8-2-60, Cl. 98-40.
- O'Day, Cortland N., and G. J. Sweeney, to Air Devices, Inc. Air diffuser. 2,959,116, 11-8-60, Cl. 98-40.
- O'Day, Marcus D., and D. R. Young, to United States of America, War. Transponder system responsive to simultaneous identification and object locating signals. 2,929,925, 3-22-60, Cl. 250-17.
- Odden, Robert B., to International Telephone and Telegraph Corp. Electronic distance measuring device. 2,938,203, 5-24-60, Cl. 343-13.
- Oddie, Fredrick B., to Rolls-Royce Ltd. Optical apparatus for checking bore-cross-sections. 2,947,213, 8-2-60, Cl. 88-14.
- Oddson, Elmer H. Coupling mechanism for vehicle. 2,947,550, 8-2-60, Cl. 280-477.
- O'Dea, John A., to The Jaeger Machine Co. Pavement finishing machine. 2,962,949, 12-6-60, Cl. 94-45.
- Odegard, Eugene A.: *See*—  
Fox, Samuel S., Hull, Odegard, and Bristol. 2,958,457.
- Odegard, Eugene A., to United Aircraft Corp. Exhaust nozzle flap movement limiting and interlap seal centering means. 2,934,890, 5-3-60, Cl. 60-35.6.
- Odell, Alexander D.: *See*—  
Ridler, Desmond S., Weir, and Odell. 2,933,688.
- Odell, Alexander D., and H. F. Hartley, to International Standard Electric Corp. Electrical circuits using two-electrode devices. 2,944,164, 7-5-60, Cl. 307-88.5.
- O'Dell Brothers: *See*—  
Barth, Hans, and Odell. 2,948,890.
- O'Dell, Ethel L. Feminine wearing apparel. 2,928,396, 3-15-60, Cl. 128-454.
- Odell, Carl H.: *See*—  
Barth, Hans, and Odell. 2,948,890.
- Odell, Norman R.: *See*—  
Lyons, Joseph F., and Odell. 2,936,285.
- Odell, Norman R., and J. F. Lyons, to Texaco Inc. Lubricating greases thickened with reaction products of arylamine dyes with phosphomolybdic, phosphotungstic and phosphotungstomolybdic acids. 2,946,750, 7-26-60, Cl. 252-33.
- Odell, Robert C., H. C. Frenzler, D. T. Scag, and J. M. Netzler, to Allis-Chalmers Mfg. Co. Capacitor pack winding machine. 2,944,753, 7-12-60, Cl. 242-67.3.
- Oden, Alonzo F. Mounting structures for electrical assemblies and methods of forming same. 2,929,965, 3-22-60, Cl. 317-101.
- Odendahl, Wilhelm, to Strico Gesellschaft fur Metallurgie und Warmetechnik m.b.H. Bustle pipe for blast furnaces. 2,926,903, 3-1-60, Cl. 266-30.
- Odenwald, Helmut, to Richard Hirschmann Radiotechnisches Werk. Antenna. 2,932,367, 4-12-60, Cl. 189-23.
- Odenweller, Hugo F., to Mohasec Industries, Inc. Industrial apparatus. 2,932,339, 4-12-60, Cl. 254-1.7.
- Odenweller, Joseph D., and L. E. Goddard, to Ethyl Corp. Process for preparing phenyl phosphorodichloridates. 2,938,048, 5-24-60, Cl. 260-461.
- Odenweller, Joseph D., and U. A. Lehtikolinen, to Ethyl Corp. Manufacture of sodium cyclopentadiene from cyclopentadiene dimer. 2,942,040, 6-21-60, Cl. 260-665.
- Oderman, Sam: *See*—  
Ricards, Charles L., Tollison, Campbell, and Oderman. 2,945,438.
- Odum, William H., and J. R. Gracious, to Dura Metal Products Co. Wall rack for mechanics' tools. Re. 24,862, 8-23-60, Cl. 211-87.
- Odman, Tor A.: *See*—  
Lindhagen, Teodor I., and Odman. 2,946,573.
- Odman, Tor A., to Svenska Rotor Maskiner Aktiebolag. Element set for heat exchangers. 2,940,736, 6-14-60, Cl. 257-245.
- Odum, Charles H.: *See*—  
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Vanaman, Frank P., Odum, and Gordon. 2,959,709.
- Odum, Prentice, to Sun Oil Co. Automatic tank switching system. 2,947,318, 8-2-60, Cl. 137-122.
- O'Donald, George E.: *See*—  
Buss, Edward J., Fansher, Groves, and O'Donald. 2,956,189.
- O'Donnell, Anthony J. Supporting plates for turbine blades. 2,931,621, 4-5-60, Cl. 253-39.
- O'Donnell, Henry J. Telescopic jack. 2,960,308, 11-15-60, Cl. 254-98.
- O'Donnell, James, and D. F. Duckworth, to The British Petroleum Co. Ltd. Reduction of sludge deposition from crude oils. 2,951,037, 8-30-60, Cl. 208-370.
- O'Donnell, John C.: *See*—  
Pierce, Roger V., O'Leary, and O'Donnell. 2,937,773.
- O'Donnell, Robert T., to Rubber Corp. of America. Aqueous phase emulsion polymerization of vinyl chloride, and products produced thereby. 2,957,858, 10-25-60, Cl. 260-92.8.
- O'Donovan, Harry M., to Pye Ltd. Four-terminal networks. 2,921,275, 1-12-60, Cl. 333-28.
- O'Donovan, Roland J.: *See*—  
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- Oechsle, Alfred C.: *See*—  
Gribin, Murray A., and Oechsle. 2,934,963.
- Oechslin, Konrad: *See*—  
Spillmann, Werner, and Oechslin. 2,925,954.
- Oechsner, John G. Poppet valve operating mechanism. 2,939,443, 6-7-60, Cl. 123-90.
- Oechsner, Lester G.: *See*—  
Hanson, Berger G., and Oechsner. 2,941,451.



- Oeckl, Otto. Bending press. 2,965,148, 12-20-60, Cl. 153-21.
- Oehler, William P., and C. H. Youngberg, to Deere & Co. Disk harrow with double extensions. 2,930,437, 3-29-60, Cl. 172-568.
- Oehler, William P., and C. H. Youngberg, to Deere & Co. Lift type convertible disk harrow. 2,955,664, 10-11-60, Cl. 172-581.
- Oehler, William P., C. H. Youngberg, and L. W. Johnson, to Deere & Co. Disk harrow and mounting frame. 2,960,171, 11-15-60, Cl. 172-441.
- Oehler, William P., and C. H. Youngberg, to Deere & Co. Furrow leveling attachment. 2,963,095, 12-6-60, Cl. 172-178.
- Oehrl, John W., to McCulloch Corp. Planetary transmission for automotive vehicle. 2,958,234, 11-1-60, Cl. 74-472.
- Oele, Adriaan P., M. J. G. Muyltjens, and J. R. H. Goris, to Stamicarbon N.V. Process for reducing the quantity of thiophenes in an aromatic hydrocarbon. 2,948,764, 8-9-60, Cl. 260-674.
- Oelkers, Ore: See—  
Manahan, John W. 2,922,658.
- Oelze, Heinz, and W. Neitzert, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the aftertreatment of a rigid deep-drawn can formed from synthetic thermoplastic material and filled with a sterilizable product. 2,964,889, 12-20-60, Cl. 53-25.
- Oerlikon Engineering Co.: See—  
Greuter, Robert. 2,922,915.
- Oertling, L., Ltd.: See—  
Hodsmann, George F., and Chappell. 2,950,099.
- Oertling, Sewall J., to Shell Oil Co. Catalytic cracking feed stock preparation. 2,952,632, 9-13-60, Cl. 208-361.
- Oesterle, Adolph G., to Electronic Communications, Inc. Relay control circuitry. 2,962,635, 11-29-60, Cl. 317-142.
- Oesterlein, Fritz: See—  
Menzi, Karl, Oesterlein, and Ruetimeyer. 2,929,809.  
Riat, Henri, and Oesterlein. 2,957,862.  
Ruetimeyer, Bernhard, and Oesterlein. 2,931,794.
- Oesterlein, Fritz, to Ciba Ltd. Metalliferous disazo dyestuffs containing heavy metal in complex union and a reactive triazine nucleus. 2,938,895, 5-31-60, Cl. 260-146.
- Oesterlein, Fritz, to Ciba Ltd. Complex metal compounds of monoazo triazine dyestuffs. 2,943,085, 6-28-60, Cl. 260-146.
- Oestermeyer, Carl F. Ground meat mold. Re. 24,824, 5-10-60, Cl. 17-32.
- Oesterreichische Stickstoffwerke Aktiengesellschaft: See—  
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- Oestreicher, Georg, to Klockner-Humboldt-Deutz Aktiengesellschaft. Universal joint shaft drive for two and more axle trucks. 2,922,383, 1-26-60, Cl. 105-108.
- Oestreicher, Warren J.: See—  
Phillips, Sam J., and Oestreicher. 2,943,621.
- Oestreicher, Warren J., to Kendon Electronics, Inc. Color reproduction systems of the cathode ray tube type. 2,922,073, 1-19-60, Cl. 315-21.
- Oestreicher, Warren J., to Kendon Electronics, Inc. Control of color television systems of the cathode ray tube type. 2,938,142, 5-24-60, Cl. 315-26.
- Oetiker, Hans. Safety control system for coke removal plants. 2,938,640, 5-31-60, Cl. 214-23.
- Oetiker, Hans. Safety device for container cover. 2,944,699, 7-12-60, Cl. 220-44.
- Oettinger, Norman, to O. K. Murphy. Upholstered massage furniture. 2,937,641, 5-24-60, Cl. 128-33.
- Oettinger, Willi: See—  
Von Fuener, Wilhelm, Oettinger, Reitz, and Lorenz. 2,932,620.
- Oettinger, Willi, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Method of treating a crude benzene with purified coke oven gas. 2,957,925, 10-25-60, Cl. 260-674.
- Oetti, John R. Micrometer caliper. 2,927,376, 3-8-60, Cl. 33-147.
- Oetzel, John G., and V. R. Edgar, to Warner Electric Brake & Clutch Co. Collector ring assembly. 2,920,300, 1-5-60, Cl. 339-8.
- Oeze Hoffmann, Emmerich. Contrivances for a pattern making loom. 2,920,658, 1-12-60, Cl. 139-33.
- Offenhauser, William H., Jr.: See—  
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- Offensend, Glen W.: See—  
Hayden, James F., and Offensend. 2,947,218.
- Offermann, Willy: See—  
Hopfner, Konrad, and Offermann. 2,925,397.
- Office National d'Etudes et de Recherches: See—  
Mattel, Jean I., Blaise, and Manganne. 2,925,582.
- Office National d'Etudes et de Recherches Aeronautiques, O.N.E.R.A.: See—  
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Mestre, Andre. 2,927,427.  
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- Office National Industriel de l'Azote: See—  
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- Officine Galileo Societa per Azioni: See—  
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- Offner, Eugen, to Fritz Howaldt Maschinenfabrik. Tree-pruning device. 2,932,892, 4-19-60, Cl. 30-249.
- Offner, Franklin F. Electronic engine speed control system. Re. 24,809, 4-12-60, Cl. 60-39.28.
- Offner, Franklin F. Differential D.-C. amplifier. 2,931,985, 4-5-60, Cl. 330-10.
- Offner, Franklin F. Apparatus for test-measuring electrical components. 2,934,699, 4-26-60, Cl. 324-57.
- Offner, Franklin F. Arrangement for inhibiting drift in amplifiers. 2,954,529, 9-27-60, Cl. 330-9.
- O'Flynn, Denis J.: See—  
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- O'Gara, Francis C., 33 $\frac{1}{3}$  to F. Pasko. Combination heat transfer applicator and massager. 2,929,374, 3-22-60, Cl. 128-24.1.
- Ogata, Hisae. Light-diffusing glass and process for making the same. 2,955,927, 10-11-60, Cl. 41-42.
- Ogawa, Chusaku. Illuminating devices for the phonograph. 2,949,529, 8-16-60, Cl. 240-2.12.
- Ogawa, Hiroshi, and S. Inoue, to American Cyanamid Co. Method of purifying tetracycline. 2,929,837, 3-22-60, Cl. 260-501.
- Ogawa, Shimeo: See—  
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- Ogawa, Tetsuo, T. Tsunoda, R. Aoki, K. Kinoshita, S. Okumara, and Y. Kondo, to Ajinomoto Co., Inc. Process for producing L-glutamic acid. 2,940,903, 6-14-60, Cl. 195-47.
- Ogawa, Tetsuo, and T. Akashi, to Ajinomoto Co., Inc. Process for resolution of racemic glutamic acid and salts thereof. 2,940,998, 6-14-60, Cl. 260-534.
- Ogden Corp.: See—  
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- Ogden, Dennis R.: See—  
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- Ogden, Frank, and R. B. Bell. Pontoon boats. 2,950,699, 8-30-60, Cl. 114-61.
- Ogden, Harry: See—  
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- Ogden, John: See—  
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- Ogden, John F., to James A. Patterson & Associates, Inc. Conduit system for swimming pools. 2,932,397, 4-12-60, Cl. 210-169.
- Ogden, Paul, to Art Iron and Wire Works, Inc. Guard rail assembly. 2,946,568, 7-26-60, Cl. 256-65.
- Ogelvie, Guy B. Coring and slicing machine. 2,958,353, 11-1-60, Cl. 146-52.
- Ogg, Alvin W.: See—  
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- Ogilvie Flour Mills Co., Ltd., The: See—  
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- Ogilvie, Ian B.: See—  
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- Ogle, Claude B., Jr.: See—  
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- Ogle, George L., T. R. Betts, and G. W. Turner, to Container Corp. of America. Machine for closing container flaps. 2,939,260, 6-7-60, Cl. 53-374.
- Oglebay Norton Co.: See—  
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- O'Gorman, Vincent G., and J. G. Hollick, to United Shoe Machinery Corp. Method of controlling the finishing of leather. 2,952,563, 9-13-60, Cl. 117-66.
- O'Gorman, William F., to Garrett Container Corp. Slide box for cigarettes or the like. 2,929,542, 3-22-60, Cl. 229-11.
- O'Gorman, William F., to Garrett Container Corp. Cigarette package. 2,958,418, 11-1-60, Cl. 206-41.2.
- O'Grady, Joseph V., and D. T. Moynihan, to Elevators Supplies Co., Inc. Elevator control system. 2,938,604, 5-31-60, Cl. 187-29.
- O'Haffey, Thomas E. Wire fences having means to render them impervious to light and air. 2,954,964, 10-4-60, Cl. 256-34.
- O'Halloran, Rosemary: See—  
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- O'Halloran, Rosemary, to Esso Research and Engineering Co. Lithium-calcium greases. 2,929,780, 3-22-60, Cl. 252-40.
- O'Halloran, Rosemary, H. G. Vesterdal, and A. Beerbower, to Esso Research and Engineering Co. Process for forming a lithium-calcium grease composition. 2,959,548, 11-8-60, Cl. 252-40.
- O'Hara, John J. Safety locks for harness. 2,945,563, 7-19-60, Cl. 188-65.1.
- Ohara, Shoji. Diaper holder. 2,956,564, 10-18-60, Cl. 128-287.
- O'Hara, William W.: See—  
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- O'Harah, Alvin F., to Castle Machines, Inc. Soldering machine. 2,961,985, 11-29-60, Cl. 113-128.
- O'Haver, Stanford R.: See—  
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- Ohio Brass Co., The: See—  
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- Ohlen, Karl G., to Svenska Rotor Maskiner Aktiebolag. Hydraulic torque converters. 2,935,898, 5-10-60, Cl. 74-677.
- Ohlen, Leif O. G., and C. B. Sjöholm, to Aktiebolaget Separator. Outlet device for liquids which foam when discharged. 2,966,166, 12-27-60, Cl. 137-170.1.
- Ohlendorf, Emil F.: *See*—  
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- Ohlheimer, Carlton E., to American Instrument Co., Inc. Humidity control device. 2,943,245, 6-28-60, Cl. 317-149.
- Ohliger, Lewis P., to Bausch & Lomb Optical Co. Method for making fused multifocal lenses. 2,963,823, 12-13-60, Cl. 49-82.1.
- Ohlmann, Edward O., to The Dow Chemical Co. Glycol antifreeze mixtures. 2,923,686, 2-2-60, Cl. 252-74.
- Ohlmeyer, Donald W., to B. L. Sarett. Enzymatic process. 2,940,904, 6-14-60, Cl. 195-66.
- Ohloff, Guenther, to Dragoco, Spezialfabrik konzentrierter Riech- und Aromastoffe, Gerberding & Co., G.m.b.H. 1,1-dimethyldecane lactones and their 6- and 7-pyridyl, thienyl and furyl substituted derivatives. 2,933,506, 4-19-60, Cl. 260-343.3.
- Ohlson, Bengt E. Arrangement for operating a skeet trap and loading targets thereon. 2,928,383, 3-15-60, Cl. 124-8.
- Ohlson, John L.: *See*—  
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- Ohlson, John L., and E. K. Wilip, to W. R. Grace & Co. Vinyl N,N-dibutyl adipamate. 2,945,878, 7-19-60, Cl. 260-482.
- Ohlsson, Bengt-Åke, to Aktiebolaget Separator. Device for suspending plates in heat exchanger. 2,958,497, 11-1-60, Cl. 248-817.
- Ohlsson, Fall J. O. W.: *See*—  
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- Ohlsson, Leonard W., to Whirlpool Corp. Overcounter water disposal system. 2,954,683, 10-4-60, Cl. 62-277.
- Ohlund, John A. I., to Svenska Aeroplan Aktiebolaget. Ballistic missile shock wave detector. 2,965,878, 12-20-60, Cl. 340-16.
- Ohlund, Rolf E. H., to Allmänna Svenska Elektriska Aktiebolaget. Instantaneous reserve aggregates for telecommunication plants. 2,922,896, 1-26-60, Cl. 307-68.
- Ohm, Edward A., to Bell Telephone Laboratories, Inc. Electromagnetic wave transducer. 2,960,671, 11-15-60, Cl. 333-85.
- Ohm, Edward A., to Bell Telephone Laboratories, Inc. Selective mode transducer. 2,961,618, 11-22-60, Cl. 333-9.
- Ohm, Edward A., to Bell Telephone Laboratories, Inc. Broad-band electromagnetic wave transmission means. 2,963,668, 12-6-60, Cl. 333-93.
- Ohmann, William, to Whirlpool Corp. Drain funnel. 2,922,526, 1-26-60, Cl. 210-455.
- Ohmart Corp.: *See*—  
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 Ohmart, Philip E. 2,964,628.
- Ohmart, Philip E., to The Ohmart Corp. Low noise level measuring and control apparatus. 2,956,166, 10-11-60, Cl. 250-83.6.
- Ohmart, Philip E., to The Ohmart Corp. Radiation source for density responsive apparatus. 2,964,628, 12-13-60, Cl. 250-43.5.
- Ohmega Laboratories: *See*—  
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 Foster, Harry R., and Crump. 2,939,085.
- Ohnacker, Gerhard, and H. Scheffler, to Dr. Karl Thomae G.m.b.H. Derivatives of 4-oxo-2,3-dihydro-(benzo-1,3-oxazines). 2,943,087, 6-28-60, Cl. 260-244.
- Ohnishi, Hiromu. Break detection apparatus. 2,956,392, 10-18-60, Cl. 57-81.
- Ohno, Yasuji: *See*—  
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- Ohnstad, Ralph E. Flush ball guide shaft and sleeves. 2,931,049, 4-5-60, Cl. 4-57.
- Ohm, Gustav, to Aktiebolaget Svenska Flaktfabriken. Method of treating sheets of ligno cellulose. 2,960,428, 11-15-60, Cl. 162-206.
- Ohre, Frithjof F. Stabilizer for portable irrigation equipment. 2,939,666, 6-7-60, Cl. 248-76.
- Ohringer, Philip, to Cutler-Hammer, Inc. Machine tool control. 2,963,832, 12-13-60, Cl. 51-165.
- Ohse, Charles W. Vacuum die casting process and apparatus. 2,958,104, 11-1-60, Cl. 22-68.
- Ohse Meat Products of Oklahoma, Inc.: *See*—  
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- Oickle, Charles, Jr., to United Aircraft Corp. Blade damping means. 2,955,799, 10-11-60, Cl. 257-77.
- Oikawa, Shozo: *See*—  
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- Oil Capital Valve Co.: *See*—  
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- Oil Equipment Laboratories, Inc.: *See*—  
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 Smith, Horace V., and Repal. 2,938,381.
- Oilgear Co., The: *See*—  
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 Neuendorffer, Carl, and Clafflin. 2,921,285.
- Oil Recovery Corp.: *See*—  
 Martin, James W. 2,964,109.
- Oil Shale Corp., The: *See*—  
 Aspegren, Olof E. A. Re. 24,894.
- Oishel, John R., to Trico Products Corp. Coordinated windshield washing and wiping system. 2,927,337, 3-8-60, Cl. 15-250.02.
- Oishel, John R., and A. F. Spicciati, to Trico Products Corp. Windshield wiper motor arrangement. 2,942,585, 6-28-60, Cl. 121-114.
- Oishel, John R., and R. Delbel, to Trico Products Corp. Windshield cleaner. 2,948,010, 8-9-60, Cl. 15-250.27.
- Oka, Tokichi. Method of manufacturing racket frames. 2,923,652, 2-2-60, Cl. 154-90.
- Okada, Robert H., to Burroughs Corp. Transistor binary counter. 2,954,163, 9-27-60, Cl. 235-92.
- O'Kain, John. Knife assembly. 2,951,290, 9-6-60, Cl. 30-329.
- Okamoto, Shosuke: *See*—  
 Nagasawa, Fujio, Takagi, Yokoi, Sato, Mangyo, Ensaka, Okamoto, and Tsukada. 2,939,817.
- Okamura, Siro. Wide band antenna with integral reflector. 2,958,868, 11-1-60, Cl. 343-795.
- Okaya, Akira. Matched magic tee. 2,949,587, 8-16-60, Cl. 333-11.
- O'Keefe, Charles J.: *See*—  
 Gever, Gabriel, and O'Keefe. 2,927,110.
- O'Keefe, John M., W. E. Engle, and R. F. Donnelly, to United States of America, Navy. Ball and socket antenna mounting. 2,956,280, 10-11-60, Cl. 343-772.
- O'Keefe, Robert A. J., and I. F. Matthisse, to Burndy Corp. Tap-off connector. 2,951,892, 9-6-60, Cl. 174-71.
- O'Keefe, Thomas J. Extension and straight knockdown ladder. 2,959,245, 11-8-60, Cl. 182-151.
- O'Kelley, O'Dell. Apparatus for forming and driving joint nails. 2,947,990, 8-9-60, Cl. 1-44.4.
- Oken, Aaron: *See*—  
 Perkins, Melvin A., Oken, and Whelen. 2,957,004.
- Okonite Co., The: *See*—  
 Gooding, Francis H. 2,937,336.  
 Lapsley, Rhea P., and Feller. 2,939,903.
- Okress, Ernest C., to United States of America, Navy. Indirect heater for magnetron. 2,927,241, 3-1-60, Cl. 313-337.
- Okukawa, Tunataro: *See*—  
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- Okumara, Shinji: *See*—  
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- Okuniewski, Vincent F.: *See*—  
 Flowers, Leonard B., and Okuniewski. 2,964,155.
- Okunuki, Kazuo, B. Hagihara, and T. Ukita, to Nagase & Co., Ltd. Purification of proteases. 2,952,586, 9-13-60, Cl. 195-66.
- Olalainty, Edouard. Psychological testing apparatus. 2,958,956, 11-8-60, Cl. 35-22.
- Olander, Donald E.: *See*—  
 Ellern, Herbert, and Olander. 2,954,735.
- Olander, Karl E., to Aktiebolaget Manus. Milk strainer and cooler. 2,932,490, 4-12-60, Cl. 257-180.
- Olander, Kemuel B., and D. J. Munson, to The J. R. Clark Co. Stop for folding support frame. 2,957,736, 10-25-60, Cl. 311-83.
- Olander, Robert G., to The Marquardt Corp. Fluid actuated toggle mechanism. 2,948,116, 8-9-60, Cl. 60-35.6.
- Olbrich, Alvin P.: *See*—  
 Sloan, Earl L., Olbrich, Mustard, Gillum, and Wendel. 2,929,397.
- Olbrych, John E.: *See*—  
 Bonia, Walter J., and Olbrych. 2,946,958.
- Old, Albert F., and H. E. Seifert, to Southern Lightweight Aggregate Corp. Air and gas treatment chamber. 2,922,490, 1-26-60, Cl. 183-120.
- Old, Albert F., R. F. Gibson, and R. V. K. Duey, to Southern Lightweight Aggregate Corp. Method and apparatus for flotation separation of lightweight aggregate and product. 2,933,187, 4-19-60, Cl. 209-464.
- Old, Albert F., and R. F. Gibson, to Southern Lightweight Aggregate Corp. Rotary kiln. 2,939,693, 6-7-60, Cl. 263-33.
- Oldberg Mfg. Co.: *See*—  
 Deremer, Floyd E. 2,950,777.  
 Deremer, Floyd E. 2,958,389.  
 Ely, Walter J. 2,929,914.
- Oldberg, Sidney: *See*—  
 Roper, Daniel W., and Oldberg. 2,948,268.
- Oldberg, Sidney, to Eaton Mfg. Co. Tappet. 2,925,809, 2-23-60, Cl. 123-90.
- Oldberg, Sidney, to Eaton Mfg. Co. Valve mechanism with integral spring and cage member. 2,950,736, 8-30-60, Cl. 137-529.
- Old Dominion Box Co., Inc.: *See*—  
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- Oldenboom, Derk J.: *See*—  
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- Oldenboom, Derk J., to International Business Machines Corp.  
Cascade developing apparatus. 2,927,554, 3-8-60, Cl. 118-637.
- Oldenburg, Kenneth F.: *See*—  
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- Oldenburger, Rufus, to Woodward Governor Co. Method and apparatus for controlling a condition. 2,960,629, 11-15-60, Cl. 317-5.
- Oldenburger, Rufus, and G. F. Drake, to Woodward Governor Co. Method and apparatus for hydraulic control systems. 2,931,342, 4-5-60, Cl. 121-41.
- Oldershaw, Charles F., to The Dow Chemical Co. Washing tow bundles of synthetic fibers. 2,949,337, 8-16-60, Cl. 8-151.2.
- Oldershaw, Charles F., and C. A. Levine, to The Dow Chemical Co. Production of acetylene by pyrolysis. 2,920,123, 1-5-60, Cl. 260-679.
- Oldfield, Eric: *See*—  
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- Oldfield, Howard P. Pattern control device for looms. 2,960,116, 11-15-60, Cl. 139-77.
- Oldfield, Lucy F., and J. H. Partridge, deceased (E. and M. J. A. Partridge, administrators), to The General Electric Co. Ltd. Glass compositions and glass-to-metal seals. 2,929,727, 3-22-60, Cl. 106-52.
- Oldfield, Lucy F., and J. H. Partridge, deceased (by E. and M. J. A. Partridge, administrators), to The General Electric Co. Ltd. Glass compositions and glass-to-metal seals. 2,937,100, 5-17-60, Cl. 106-53.
- Oldfield, Lucy F., and J. H. Partridge, deceased (by E. and M. J. A. Partridge, administrators), to The General Electric Co. Ltd. Glass compositions and glass-to-metal seals. 2,948,992, 8-16-60, Cl. 49-92.5.
- Oldham, Albert H.: *See*—  
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Timms, Ross L. 2,950,799.  
Timms, Ross L. 2,951,164.
- Oldham, Vern L.: *See*—  
Burtner, Richard L., and Timms. 2,932,392.  
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Timms, Ross L. 2,951,164.
- Olds, Howard V. Earth digging apparatus. 2,950,902, 8-30-60, Cl. 255-21.
- Old Scratch, Inc.: *See*—  
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- Old Town Corp.: *See*—  
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- O'Leary, Charles M. Air pressure control system. 2,919,910, 1-5-60, Cl. 267-1.
- O'Leary, Paul C.: *See*—  
Pierce, Roger V., O'Leary, and O'Donnell. 2,937,773.
- O'Leary, Theodor A., 7½% to J. Kunik. Spring-toggle mechanism for tool elements or the like. 2,936,011, 5-10-60, Cl. 145-50.
- O'Leary, William V.: *See*—  
Hobrough, Gilbert L., and O'Leary. 2,923,003.
- Oleksij, Dimitrij. Descending parachute device. 2,941,763, 6-21-60, Cl. 244-138.
- Olender, Bruno J., to General Motors Corp. Tail gate latch for pick-up truck box. 2,955,863, 10-11-60, Cl. 292-264.
- Olenicki, Joseph A.: *See*—  
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- Oleo-Pneumatics Ltd.: *See*—  
Thornhill, Peter W. 2,963,175.
- Oles, John S. Vibration damper. 2,961,894, 11-29-60, Cl. 74-574.
- Oleson, George R.: *See*—  
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- Oleson, Wrisley B.: *See*—  
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- Olgiati, Mario A. Bread making machine. 2,951,456, 9-6-60, Cl. 107-4.
- Olgiati, Mario A. Cutting and forming roll assembly for bread making machine. 2,962,986, 12-6-60, Cl. 107-69.
- Olin, Howard, and B. L. Glen. Self-adjusting outer garment. 2,926,359, 3-1-60, Cl. 2-211.
- Oliffson, Marc: *See*—  
Billard, Paul L., and Oliffson. 2,959,099.
- Olin, John M., to Olin Mathieson Chemical Corp. Projectile. 2,926,612, 3-1-60, Cl. 102-92.5.
- Olin Mathieson Chemical Corp.: *See*—  
Adams, Richard F. 2,944,328.  
Adams, Richard F. 2,949,875.  
Andrew, Eugene A. 2,929,107.  
Audrieth, Ludwig F., and Ryker. 2,943,927.  
Barels, Clarence W. 2,938,929.  
Barr, Claude J. 2,960,393.  
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Batha, Howard D., and Urbach. 2,930,675.  
Berthold, George H., and Pace. 2,935,418.  
Bleikamp, Donald K., Wenger, and Pauls. 2,933,806.  
Bleikamp, Roy H., Jr. 2,923,237.  
Brock, Jean A. M. 2,939,779.  
Brock, Jean A. M. 2,939,780.  
Brown, Bernard B. 2,940,978.  
Brunelle, Lawrence J. 2,922,241.  
Bruson, Herman A., and Rockett. 2,942,013.  
Campbell, Huntly M. 2,957,679.  
Chiras, Stanley J. 2,947,776.  
Churchill, John W. 2,939,766.  
Clark, Charles C., and Kanda. 2,963,347.
- Olin Mathieson Chemical Corp.: *See*—Continued  
Coffee, Ralph E. 2,964,521.  
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Cords, Holmuth. 2,940,985.  
Dale, Kenneth H. 2,938,841.  
Dear, John C., Owens, and Guley. 2,919,647.  
De Caro, Charles J. 2,920,563.  
De Caro, Charles J. 2,960,902.  
Denton, William I. 2,963,484.  
Donin, Milton N., Fried, and Thoma. 2,960,435.  
Eilers, Melvin E., and Smith. 2,927,498.  
Evans, Richard C., and Ready. 2,952,725.  
Foster, Harry C. 2,925,812.  
Fried, Josef. 2,930,804.  
Fried, Josef. 2,941,997.  
Fried, Josef. 2,941,998.  
Fried, Josef. 2,949,478.  
Fried, Josef. 2,952,691.  
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Fried, Josef, and Herz. 2,920,084.  
Fried, Josef, and Herz. 2,963,492.  
Fried, Josef, and Herz. 2,963,495.  
Fried, Josef, and Thoma. 2,946,807.  
Fried, Josef, and Thoma. 2,964,450.  
Fried, Josef, and Thoma. 2,964,523.  
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Gassner, Francis X., and McLellan. 2,960,407.  
Good, Carl D. 2,946,663.  
Grant, Dale W. 2,956,932.  
Griffin, Donald N., and Orr. 2,947,221.  
Hamilton, Norl A. 2,932,251.  
Harshman, Richard C., and Fusco. 2,963,438.  
Harshman, Richard C., and Holbrook. 2,936,289.  
Hartley, James C. 2,935,912.  
Hechinger, Carl J. 2,919,471.  
Heilig, Harland E., and Jehle. 2,954,322.  
Henning, Robert W., and Kopf. 2,957,175.  
Henning, Robert W., Kopf, and Marsh. 2,957,176.  
Henning, Robert W., and Marsh. 2,931,039.  
Henning, Robert W., Pfaff, and Kopf. 2,954,717.  
Heuer, Charles A. 2,953,843.  
Heuer, Charles A., and Kunz. 2,941,280.  
Heuser, Leon J. 2,921,062.  
Heuser, Leon J. 2,921,063.  
Heying, Theodore L. 2,930,674.  
Ivins, Herbert L. 2,928,444.  
Janson, Stefan K. 2,935,915.  
Johnson, Wallace C. 2,957,230.  
Jurist, Alfred E. 2,945,850.  
Kaltenbach, Ernest G. 2,922,592.  
Karabinos, Joseph V., and Ballum. 2,954,369.  
Kopf, Rowland J. 2,964,752.  
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Kopf, Rowland J., Henning, and Marsh. 2,925,604.  
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King, Aden J., and Russell. 2,942,935.  
Klein, Ralph, Nadeau, Schoen, and Bliss. 2,946,664.  
Krus, Alva C. 2,925,755.  
Kuehlewind, William E., Jr. 2,934,569.  
Kutscher, Austin H. 2,937,099.  
Landesman, Herbert. 2,964,568.  
Lewis, Richard N. 2,963,407.  
Lott, William A. 2,940,971.  
Lott, William A. 2,965,672.  
Lott, William A., and Yale. 2,930,732.  
Lyding, Arthur R. 2,933,450.  
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Maag, Raymond H., and Foster. 2,923,613.  
Maier, Karl W. 2,948,526.  
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Meissner, Milton F. 2,922,344.  
Miller, Charles E. 2,953,990.  
Mills, William. 2,924,608.  
Moore, Theodore R. 2,951,784.  
Neff, Joseph A. 2,964,567.  
Olin, John M. 2,926,612.  
O'Neill, John J., Jr. 2,945,751.  
Pagano, Joseph F., Temple, and Yacowitz. 2,944,907.  
Pan, Samuel C., and Weisenborn. 2,964,451.  
Pauls, Theron F. 2,938,413.  
Pauls, Theron F. 2,949,664.  
Perrine, John C., Jr. 2,939,885.  
Pfaff, Elmer F., and Henning. 2,925,600.  
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Pfaff, Elmer F., and Masters. 2,925,603.  
Pribyl, Edward J., and Spitzmiller. 2,964,556.  
Pulsifer, Verne. 2,926,003.  
Pulsifer, Verne. 2,955,334.  
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Rabern, Joseph W., and Wilkattis. 2,942,547.  
Robson, Homer L. 2,959,554.  
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Rockett, Jack. 2,922,791.  
Rockett, Jack. 2,922,792.  
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 Schur, Milton O., 2,952,103.  
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 Seavey, Frederick R., 2,934,018.  
 Seavey, Frederick R., 2,936,709.  
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 Shermer, David A., 2,951,844.  
 Show, William A., Wilkaitis, and Miller, 2,955,535.  
 Sowinski, Francis A., Lott, and Bernstein, 2,951,092.  
 Ter Horst, William P., 2,932,158.  
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 Thoma, Richard W., and Fried, 2,955,075.  
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 Thomas, Gordon H., and Fried, 2,963,496.  
 Toeniskoetter, Richard H., and Schaeffer, 2,921,833.  
 Treat, John W., Jr., 2,922,341.  
 Troyan, James E., 2,935,451.  
 Voelz, Gordon J., 2,963,831.  
 Weisenborn, Frank L., 2,950,289.  
 Wencker, Russell E., 2,938,462.  
 Wilkins, John D., 2,924,437.  
 Williams, Henry M., and Campbell, 2,920,380.  
 Wilson, John L., 2,932,915.  
 Wilson, John L., 2,935,913.  
 Wojcik, Bruno H., 2,942,957.  
 Wolf, Ernest, 2,941,988.  
 Woodring, William B., and Morgan, 2,935,808.  
 Yale, Harry L., 2,926,171.  
 Yale, Harry L., 2,928,855.  
 Yale, Harry L., and Bernstein, 2,943,086.  
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- Olinger, Donald R.: *See*—  
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 Oliveau, John V., to The Aerotec Industries, Inc., Pressure actuated electric switch, 2,944,125, 7-5-60, Cl. 200-82.  
 Oliver, Chauncey B., to Everpure Inc., Pressurized dosage system, 2,955,610, 10-11-60, Cl. 137-111.  
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 Oliver, Edwin L., Jr., and D. Richards, to Dorr-Oliver Inc., Filter construction, 2,964,194, 12-13-60, Cl. 210-486.  
 Oliver, George D.: *See*—  
 Drott, Esmond E., and Oliver, 2,965,642.  
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 Oliver, George R., Animal grooming implement, 2,961,997, 11-29-60, Cl. 119-93.  
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 Evans, Walter W., Oliver, and Ronnquist, 2,962,792.  
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 Oliver, Robert C., to R. A. Johnson, Machine for continuously producing pancakes and the like, 2,922,356, 1-26-60, Cl. 99-373.  
 Oliver, Robert C., and C. P. Reeg, to Union Oil Co. of California, Process and apparatus for solids-fluid contacting, 2,922,757, 1-26-60, Cl. 208-175.  
 Oliver, Robert R.: *See*—  
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 Oliver, Roy F., to Enterprise Railway Equipment Co., Conveyor, Re. 24,916, 12-27-60, Cl. 302-36.  
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 Oliver, Wilbur C., to International Business Machines Corp., Scanning device, 2,937,283, 5-17-60, Cl. 250-233.  
 Oliver, William, Automatic rotary flood valves, 2,962,043, 11-29-60, Cl. 137-409.  
 Oliveto, Eugene P., D. H. Gould, and T. Clayton, to Schering Corp., 3,20-bis-ketals of cortisone, 2,927,108, 3-1-60, Cl. 260-239.55.
- Oliveto, Eugene P., and E. B. Hershberg, to Schering Corp., Process for the manufacture of 3-ketals of polyketo steroids and products obtained thereby, 2,927,921, 3-8-60, Cl. 260-239.55.  
 Oliveto, Eugene P., and H. L. Herzog, to Schering Corp.,  $\Delta^{14,16,17}$ -oxido-pregnadienes, 2,932,639, 4-12-60, Cl. 260-239.55.  
 Oliveto, Eugene P., and E. B. Hershberg, to Schering Corp., Preparation of Pregnan-11 alpha, 17 alpha, 21 triol 3,20 diones and the corresponding 4-pregnenes, 2,938,043, 5-24-60, Cl. 260-397.45.  
 Oliveto, Eugene P., and E. B. Hershberg, to Schering Corp., 11 $\beta$ -formyloxy steroids and process for manufacturing same, 2,946,810, 7-26-60, Cl. 260-397.45.  
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 Ole, Earl W., Ash tray attachable to cigarette package, 2,937,741, 5-24-60, Cl. 206-38.  
 Ollendorf, Joel, and H. R. Meisel, to Radio Corp. of America, Hermetic seal and method of making the same, 2,965,962, 12-27-60, Cl. 29-470.1.  
 Ollig, John L., R. V. Miller, M. E. Hirsch, and J. M. Westerholm, to First Bank of Grantsburg, Power nail driving tool, 2,927,324, 8-8-60, Cl. 1-46.  
 Ollig, John L., J. M. Westerholm, R. V. Miller, and M. E. Hirsch, to The First Bank of Grantsburg, Power nail driving tool, 2,953,787, 9-27-60, Cl. 1-44.4.  
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 Olmsted, Michael F., to Smith Kline & French Laboratories, New preparation of substituted pinoxazines and intermediates therefor, 2,947,746, 8-2-60, Cl. 260-244.  
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 Olney, George J., to George J. Olney, Inc., Vegetable separating machine, 2,945,589, 7-19-60, Cl. 209-164.  
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 Olschner, Heinz: *See*—  
 MacCracken, Calvin D., and Olschner, 2,936,792.  
 Olsen, Allen J., to Rogers Industries, Inc., Combination window, 2,965,935, 12-27-60, Cl. 20-52.2.  
 Olsen, Anders C., Building structure clip means, 2,921,464, 1-19-60, Cl. 72-118.  
 Olsen, Carl E.: *See*—  
 Martin, Claude F., Olsen, and Peterson, 2,937,894.  
 Olsen, Charles, Scaffold ladder clamp, 2,947,555, 8-2-60, Cl. 287-54.  
 Olsen, Charles R., to United States of America, Navy, Fuze assembly, 2,934,019, 4-26-60, Cl. 102-78.  
 Olsen Douglas R.: *See*—  
 Harris, Robert L., and Olsen, 2,948,739.  
 Olsen, Earl, to Burroughs Corp., Platform read-out, 2,961,155, 11-22-60, Cl. 235-60.28.  
 Olsen, Edward W.: *See*—  
 Brogdon, Vas H., Jr., and Olsen, 2,941,868.  
 Olsen, Ernest R., Crank-case ventilator, 2,937,629, 5-24-60, Cl. 123-41.86.  
 Olsen, Ernest R., Wear-resistant piston, 2,966,382, 12-27-60, Cl. 309-5.  
 Olsen, Everett O., to The Foxboro Co., Industrial process control apparatus, 2,956,234, 10-11-60, Cl. 330-10.  
 Olsen, Everett O., and H. L. Bowditch, to The Foxboro Co., Transducing apparatus, 2,956,212, 10-11-60, Cl. 317-172.  
 Olsen, George A.: *See*—  
 Kobryner, Herman H., and Olsen, 2,938,191.  
 Olsen, Helen N., Hair covering cap with spacer, 2,944,556, 7-12-60, Cl. 132-46.  
 Olsen, Herbert C., to National Starch and Chemical Corp., Warp sizing process, 2,946,705, 7-26-60, Cl. 117-139.5.  
 Olsen, Joseph O.: *See*—  
 Flick, Francis S., and Olsen, 2,953,118.  
 Olsen, Joseph O., and H. H. Weber, to H. G. Weber & Co. Inc., Slicing machine, 2,962,069, 11-29-60, Cl. 146-151.  
 Olsen, Kenneth H., to Research Corp., Saturable switch, 2,937,285, 5-17-60, Cl. 307-88.  
 Olsen, Ole K.: *See*—  
 Irons, R. D., 2,950,089.  
 Olsen, Oliver C., Rivet anvil for field mower sickle, 2,955,493, 10-11-60, Cl. 78-3.  
 Olsen, Owen K., and L. E. Fessler, to Flexonics Corp., Laterally movable pipe joint with bellows, 2,936,185, 5-10-60, Cl. 285-226.



- Olsen, Raymond B., to The Elwood Research Co., Inc., a division of Audiger. Low pressure tire. 2,952,292, 9-13-60, Cl. 152-354.
- Olsen, Robert A.: *See*—  
Underwood, Herbert N., Olsen, and Lussky. 2,940,608.
- Olsen, Robert F.: *See*—  
Logan, Maurus C., and Olsen. 2,958,723.
- Olsen, Sydney A., J. P. Townsend, and J. A. Sharpsteen, to Deere & Co. Internal-combustion engine cooling system. 2,960,974, 11-22-60, Cl. 123-41.08.
- Olsen, Albert M.: *See*—  
Conley, Weld E., Kopp, Olson, and Behn. 2,924,271.
- Olsen, Albert M., to Lockheed Aircraft Corp. Landing gear interlocking mechanism for towing the aircraft. 2,919,933, 1-5-60, Cl. 280-442.
- Olsen, Albert W., and J. N. Keller, to Libbey-Owens-Ford Glass Co. Metallizing apparatus. 2,922,391, 1-26-60, Cl. 119-11.
- Olsen, Albert W., and J. A. Woods, to Libbey-Owens-Ford Glass Co. Burner apparatus. 2,964,105, 12-13-60, Cl. 158-107.
- Olsen, Carl M., to United States of America, Atomic Energy Commission. Scavenger and process of scavenging. 2,934,404, 4-26-60, Cl. 23-14.5.
- Olsen, Claude E., to The Dorris Lumber and Moulding Co. Lumber return system. 2,926,707, 3-1-60, Cl. 143-92.
- Olsen, David C.: *See*—  
Beach, James B., and Olson. 2,931,626.
- Olsen, David C., to Lockheed Aircraft Corp. Handling tool. 2,940,643, 6-14-60, Cl. 222-333.
- Olsen, Earl R.: *See*—  
Barrett, Robert E., Olson, and Schall. 2,932,590.
- Olsen, Edgar W.: *See*—  
Bowen, John T., Olson, Beemer, and Shea. 2,961,783.
- Olsen, Elmer: *See*—  
Dennison, Frederick R., Olson, and Wentis. 2,946,577.
- Olsen, Elwyn H., to Minneapolis-Honeywell Regulator Co. Control device. 2,966,073, 12-27-60, Cl. 74-504.
- Olsen, Eugene E., and R. C. Trow, to King-Seeley Corp. Finishing apparatus. 2,923,104, 2-2-60, Cl. 51-164.
- Olsen, Frederick F., to The B. F. Goodrich Co. Container. 2,937,744, 5-24-60, Cl. 206-45.33.
- Olsen, Frederick F., and J. J. Cairns, to The B. F. Goodrich Co. Arch support. 2,943,405, 7-5-60, Cl. 36-71.
- Olsen, George L. Mechanical carburetor. 2,932,495, 4-12-60, Cl. 261-89.
- Olsen, Gordon A., to North American Aviation, Inc. Means for varying a jet engine orifice. 2,939,274, 6-7-60, Cl. 60-35.6.
- Olsen, Harold M., to The Harshaw Chemical Co. Zirconium stabilized resinous compositions. 2,932,624, 4-12-60, Cl. 260-45.75.
- Olsen, Harold M., to The Harshaw Chemical Co. Vinyl chloride resins stabilized with titanium chelates. 2,933,465, 4-19-60, Cl. 260-23.
- Olsen, Harriette M. Job performance board. 2,965,978, 12-27-60, Cl. 35-23.
- Olsen, Harry F., to Radio Corp. of America. Vibration control apparatus. 2,964,272, 12-13-60, Cl. 248-19.
- Olsen, Henry L., to Camfield Mfg. Co. Toaster. 2,940,378, 6-14-60, Cl. 99-329.
- Olsen, Herbert O. Gear finishing machine and method. 2,952,067, 9-13-60, Cl. 29-90.
- Olsen, Irwin D., R. B. Taylor, C. B. Monk, Jr., and J. P. Wogulis, to Structural Clay Products Research Foundation. Casting jig. 2,964,820, 12-20-60, Cl. 25-121.
- Olsen, J. T.: *See*—  
Christie, William J. 2,960,247.
- Olsen, John E., to Hyster Co. Bleedback valve for lift truck hoist cylinders. 2,964,021, 12-13-60, Cl. 121-46.
- Olsen, John J., to Brown & Bigelow. Multiple card index. 2,960,781, 11-22-60, Cl. 40-104.
- Olsen, Keith W.: *See*—  
Johnstone, John H., and Olson. 2,945,147.
- Olsen, Kenneth E. Match book. 2,935,184, 5-3-60, Cl. 206-29.
- Olsen, Lester T. Adjustable live-center unit. 2,951,407, 9-6-60, Cl. 82-33.
- Olsen, Melvin M., and R. M. Christenson, to Pittsburgh Plate Glass Co. Novel copolymers. 2,945,003, 7-12-60, Cl. 260-47.
- Olsen, Melvin M., and R. M. Christenson, to Pittsburgh Plate Glass Co. Cyclopentadienyltrialkoxysilanes and derivatives thereof. 2,957,901, 10-25-60, Cl. 260-448.8.
- Olsen, Melvin T.: *See*—  
Jones, Lloyd E., and Olson. 2,924,838.
- Olsen, Merton E., to The Youngstown Sheet and Tube Co. Variable speed transmission. 2,947,184, 8-2-60, Cl. 74-69.
- Olsen, Oscar R. Apparatus for feeding elongated articles through a bath type furnace. 2,951,491, 9-6-60, Cl. 134-134.
- Olsen, Otis J., to Borg-Warner Corp. Remote-control manipulator. 2,953,261, 9-20-60, Cl. 214-1.
- Olsen, Paul G.: *See*—  
Van Dusen, Charles I., and Olson. 2,960,091.
- Olsen, Ralph H., and U. P. Trudeau, to Owens-Illinois Glass Co. Apparatus for aligning glass forming molds. 2,949,701, 8-23-60, Cl. 49-9.
- Olsen, Ramon L.: *See*—  
Kroeger, William J., Kafadar, and Olson. 2,926,525.
- Olsen, Raymond F.: *See*—  
Newmark, Marshall F., and Olson. 2,940,666.
- Olson, Robert H.: *See*—  
Palmer, Donald R., and Olson. 2,955,559.
- Olson, Walter H.: *See*—  
Rask, Eric H., Olson, and Reitsma. 2,956,545.
- Olson, Walter J.: *See*—  
Fraula, William S., and Olson. 2,943,353.
- Olson, Walter J., to Specialties Development Corp. Valve for confining fluid under pressure. 2,938,529, 5-31-60, Cl. 137-68.
- Olson, Wendell W.: *See*—  
Stone, Kenneth F., Force, Olson, and Cagle. 2,964,710.
- Olson, Willard A. Diaper holder. 2,928,270, 3-15-60, Cl. 68-199.
- Olson, William N., to International Harvester Co. Multi-row planter. 2,947,372, 8-2-60, Cl. 172-624.
- Olsson, Billy E. Handkerchief holder. 2,965,939, 12-27-60, Cl. 24-3.
- Olsson, Erik, to Aktiebolaget Electrolux. Combined door handle and latch. 2,947,559, 8-2-60, Cl. 292-128.
- Olsson, Olof I.: *See*—  
Bengtsson, Erik B., and Olsson. 2,927,873.
- Olstowski, Franciszek, to The Dow Chemical Co. Preparation of a metal fluoride. 2,958,576, 11-1-60, Cl. 23-88.
- Olthuis, Eugene G., to General Electric Co. Noise reducing arrangement for use in clothes dryers. 2,927,380, 3-8-60, Cl. 34-133.
- Olthuis, Eugene G., to General Electric Co. Clothes washer with an improved water level control system. 2,955,448, 10-11-60, Cl. 68-12.
- Olton, Peter F., to The Cincinnati Milling Machine Co. Automatic milling machine. 2,937,576, 5-24-60, Cl. 90-13.
- Olton, Peter F., to The Cincinnati Milling Machine Co. Automatic variable counterbalance. 2,956,482, 10-18-60, Cl. 90-17.
- Olvey, Charles L., to The Wood Shovel and Tool Co. Shovel. 2,937,046, 5-17-60, Cl. 294-49.
- Olympia Werke AG: *See*—  
Hense, Theo. 2,932,007.  
Hense, Theo. 2,936,704.  
Hense, Theo. 2,964,740.  
Hess, Hans. 2,958,407.  
Heuer, Hans, and Reichert. 2,934,749.  
Kernchen, Günter. 2,949,177.  
Rix, Albert, and Sauer. 2,919,781.  
Siebels, Ernst, and Beyer. 2,947,404.
- Olympic Screw & Rivet Corp.: *See*—  
Wilson, Raymond O., Sothern, and Brenner. 2,965,258.
- O'Mahoney, Joseph F., Jr., to United States Rubber Co. Adhesion of butyl rubber cured with dimethylol phenols to cuprous metal. 2,960,426, 11-15-60, Cl. 154-130.
- O'Maley, James B.: *See*—  
Carbonara, Victor E., Eckweiler, and O'Maley. 2,947,872.  
Eckweiler, Howard J., Jr., Hansell, O'Maley, Barnes, and Dickerson. 2,955,209.
- O'Maley, James B., and J. W. Barnes, to Kollsman Instrument Corp. Tracking device. 2,950,395, 8-23-60, Cl. 250-203.
- O'Malley, Charles T.: *See*—  
Folkins, Hillis O., Miller, and O'Malley. 2,921,024.
- Oman, Richard W., and M. I. Glass; said Oman assor. to said Glass. Toy. 2,942,379, 6-28-60, Cl. 46-228.
- O'Mara, Edward A., to Minnesota Mining and Mfg. Co. Copying machine. 2,927,210, 3-1-60, Cl. 250-49.5.
- O'Mara, Richard F., and R. G. Patterson. Kiln process having increased thermal efficiency. 2,965,366, 12-20-60, Cl. 263-32.
- O'Mara, Robert J., to Pass & Seymour, Inc. Switch trigger locking pin. 2,922,012, 1-19-60, Cl. 200-157.
- Omark Industries, Inc.: *See*—  
Carlton, Raymond R., Scott, and Mortensen. 2,964,902.  
Kvavle, Robert C. 2,923,940.
- O'Meara, John R.: *See*—  
Volckening, Lloyd L., O'Meara, and Lefebvre. 2,921,731.
- O'Meara, Thomas R., to United States of America, Navy. Gain control for phase and gain matched multi-channel radio receivers. 2,959,674, 11-8-60, Cl. 250-20.
- Omega Aircraft Corp.: *See*—  
Szyner, Bernard W. 2,947,497.  
Szyner, Bernard W. 2,960,883.
- Omega, Louis Brandt & Frere S.A.: *See*—  
Aeschmann, Nicolas. 2,961,587.  
Kwartiroff, Alexis A., and Patkevitch. 2,962,643.
- Omellanchuk, Paul P.: *See*—  
Hargrave, Delbert A., and Omellanchuk. 2,932,955.
- Omes Ltd.: *See*—  
Mora, Grato. 2,952,902.
- Omietskii, George M., to The Ohio State University Research Foundation. Hydrazinium salts. 2,945,884, 7-19-60, Cl. 260-566.
- Omietskii, George M., to The Ohio State University Research Foundation. Process for 1,1,1-trisubstituted hydrazinium chlorides. 2,955,108, 10-4-60, Cl. 260-205.
- Omohundro, William A., and G. J. Reisch, to General Electric Co. Adjustable fan support. 2,927,757, 3-8-60, Cl. 248-161.
- Onak, Frank M.: *See*—  
Bredtschneider, Kurt B., Drewes, Laird, and Onak. 2,933,333.  
Bredtschneider, Kurt B., and Onak. 2,945,504.



- Oncley, Paul B., to Gulton Industries, Inc. Electronic musical instrument having voltage sensitive frequency variation means. 2,933,697, 4-19-60, Cl. 331-48.
- Onde, Marcel A., and J. Guerin. Servo-steering device for motor vehicles. 2,934,158, 4-26-60, Cl. 180-79.2.
- O'Neal, John B.: *See*—
- Steele, Arthur B., O'Neal, and Anderson. 2,932,675.
- O'Neal, Joseph I., to Wegner Machinery Corp. Flange lubricator. 2,946,404, 7-26-60, Cl. 184-3.
- O'Neill, Edgar A., and A. F. Jackson, to United States of America, Navy. Apparatus for assisting the landing of aircraft. 2,954,946, 10-4-60, Cl. 244-110.
- O'Neill, Frederick L., to Garland Mfg. Co. Lubricant applicator. 2,930,061, 3-29-60, Cl. 15-131.05.
- O'Neil-Irwin Mfg. Co.: *See*—
- Antila, Frank W. 2,920,913.
- O'Neill, John B., to Texaco Inc. Lubricating grease thickened with lithium soap of styrenated fatty acid. 2,953,528, 9-20-60, Cl. 252-42.
- O'Neill, John G., to Rapinwax Paper Co. Method and machine for making a container. 2,935,919, 5-10-60, Cl. 93-82.
- O'Neill, Leonard. Lockable tire rack. 2,951,588, 9-6-60, Cl. 211-4.
- O'Neill, William T., to Gilfillan Bros., Inc. Traffic analyzer. 2,932,812, 4-12-60, Cl. 340-23.
- O'Neill, Clifford F.: *See*—
- Davis, Paul B., O'Neill, Slomski, and Speros. 2,957,231.
- O'Neill, Dennis D. Electro magnetic scale. 2,934,304, 4-26-60, Cl. 249-47.
- O'Neill, Edward J.: *See*—
- Heft, Robert G., O'Neill, and D'Agostino. 2,954,689.
- O'Neill, Frank E., to Johnston Testers, Inc. Filling device. 2,944,606, 7-12-60, Cl. 166-194.
- O'Neill, Harry T., Jr., to The Continental Elastic Corp. Hank winding machine. 2,952,417, 9-13-60, Cl. 242-56.
- O'Neill, James P.: *See*—
- Camp, Leon W., and O'Neill. 2,930,913.
- O'Neill, James P., to Bendix Aviation Corp. Sonic transducers for fluid mediums. 2,946,981, 7-26-60, Cl. 340-8.
- O'Neill, John J., Jr., to Olin Mathieson Chemical Corp. Process for making smokeless powder. 2,945,751, 7-19-60, Cl. 52-20.
- O'Neill, John P., and J. S. Leigh, to United States of America, Navy. Underwater signalling. 2,921,288, 1-12-60, Cl. 340-5.
- O'Neill, John W. Fluid pressure warning apparatus. 2,966,658, 12-27-60, Cl. 340-58.
- O'Neill, Paul J., Jr., to Union Machine Co. Laundering method and apparatus. 2,948,661, 8-9-60, Cl. 195-134.
- O'Neill, Robert C., and A. J. Basso, to Merck & Co., Inc. Substituted carbanilide compositions for treating coccidiosis. 2,951,010, 8-30-60, Cl. 167-53.1.
- O'Neill, Robert J.: *See*—
- Eccles, Edwin J., and O'Neill. 2,926,142.
- O'Neill, Thomas L., and J. F. Wisler; said Wisler assor. to said O'Neill. Disintegrating device. 2,940,487, 6-14-60, Cl. 144-2.
- Ong, Sing P., to North American Philips Co., Inc. X-ray shadow microscope. 2,939,954, 6-7-60, Cl. 250-49.5.
- Onians, Frank A.: *See*—
- Beck, Geoffrey E., and Onians. 2,932,823.
- Onksen, George W.: *See*—
- Miller, Charles W., and Onksen. 2,934,676.
- Woodward, Myrnethe L., Todd, and Onksen. 2,965,813.
- Onksen, George W., to General Motors Corp. Reversing switching circuit for automatic headlight control. 2,927,244, 3-1-60, Cl. 315-83.1.
- Onksen, George W., C. W. Miller, W. E. Griner, R. A. Martin, and K. R. Skinner, to General Motors Corp. Hermetically sealed relay. 2,937,250, 5-17-60, Cl. 200-87.
- On Mark Couplings, Inc.: *See*—
- De Cenzo, Herbert A. 2,956,820.
- Ono, Iwao. Plastic elastic products of piece-goods. 2,958,620, 11-1-60, Cl. 154-106.
- Onori, Paul. Shish kebap skewer. 2,935,013, 5-3-60, Cl. 99-419.
- Onsen, Marvin C.: *See*—
- Zmania, Leo, and Onsen. 2,957,221.
- Zmania, Leo, and Onsen. 2,957,222.
- Onsrud Machine Works, Inc.: *See*—
- Onsrud, Rudolph F. 2,944,445.
- Onsrud, Rudolph F., to Onsrud Machine Works, Inc. Boring fixture. 2,944,445, 7-12-60, Cl. 77-5.
- Ontario Paper Co. Ltd., The: *See*—
- Burkhard, George, and Wrist. 2,928,466.
- Wrist, Peter E. 2,928,465.
- Ontario Research Foundation: *See*—
- Marshall, Harry B., and Shaw. 2,952,507.
- Schumacher, Berthold W., and Gruen. 2,952,776.
- Onulak, Eugene W., to The Locke Steel Chain Co. Chain link. 2,938,329, 5-31-60, Cl. 59-8.
- Oom, Benjamin J.: *See*—
- Braal, Eman, and Oom. 2,952,496.
- Henrikson, Bror W., and Oom. 2,921,622.
- Ooms, Hugo T. G. Arrangement for the distribution and regulation of the heating fluid in baker's ovens and the like. 2,961,976, 11-29-60, Cl. 107-63.
- Oopa, David. Tuning means for stringed instruments. 2,960,901, 11-22-60, Cl. 84-306.
- Oosterdijk, Gerrit J., to E.N.N.A.M. N.V. Device for feeding a combustion motor with liquified petroleum gas. 2,962,366, 11-29-60, Cl. 48-184.
- Oosterhof, Hendricus A.: *See*—
- Bruin, Pieter, Oosterhof, and Selman. 2,921,923.
- Opal Mfg. Co.: *See*—
- Muller, Alois. 2,937,785.
- Opderbecke, Otto, to Didier-Werke A.G. Device for removing dust and liquid particles from gases. 2,936,852, 5-17-60, Cl. 183-34.
- Opdyke, George, Jr.: *See*—
- Kassner, Rudolf R., and Opdyke. 2,956,404.
- Operhall, Theodore, C. W. Schwartz, and D. van Schoik, to Misco P.C., Inc. Ceramic metal casting process. 2,961,751, 11-29-60, Cl. 22-196.
- Opitz, Wolfgang, H. Spruck, and K. H. Steigerwald, to Carl Zeiss. Apparatus for working materials by means of a beam of charged particles. 2,944,172, 7-5-60, Cl. 313-7.
- Opletal, Robert, and B. Dvofacek, to Vyzkumny ustav tvarecich stroju a technologie tvareni. Device on jet weaving looms. 2,936,002, 5-10-60, Cl. 139-127.
- Oplinger, Kirk A.: *See*—
- Hanna, Clinton R., and Oplinger. 2,933,269.
- Hanna, Clinton R., Oplinger, and Lynn. 2,924,200.
- Oplinger, Kirk A., and I. M. Holliday, to Westinghouse Electric Corp. Control arrangements for craft operable in space. 2,945,648, 7-19-60, Cl. 244-77.
- Opocensky, Willard J., to General Precision, Inc. Switch actuator for counter. 2,956,437, 10-18-60, Cl. 74-54.
- Oppegard, Christ A.: *See*—
- Margetic, Joseph C., and Oppegard. 2,920,724.
- Oppegard, Melvin E. Container opener. 2,964,843, 12-20-60, Cl. 30-16.
- Oppen, Walter R., to Sperry Rand Corp. Ford Instrument Co. Division. Eliminating servo dynamics in velocity servos. 2,921,249, 1-12-60, Cl. 318-448.
- Oppenheim, Ben J., M. Sapoff, and M. L. Miller, to Victory Engineering Corp. Multi-terminal non-linear resistors. 2,935,712, 5-3-60, Cl. 338-20.
- Oppenheim, David. Safety belt for vehicles. 2,937,882, 5-24-60, Cl. 280-150.
- Oppenheim, Stanley G. Gauging device. 2,930,235, 3-29-60, Cl. 73-411.
- Oppenheimer, Edgar D., to Eldorado Tool & Mfg. Corp. Safety drivers for gun drills. 2,950,636, 8-30-60, Cl. 77-29.
- Oppenheimer, Jess, to Javo Corp. Prompting apparatus for cameras. 2,926,559, 3-1-60, Cl. 88-16.
- Oppenheimer, Jess. Closed circuit television system and method of operation. 2,934,601, 4-26-60, Cl. 178-6.8.
- Opperman, Raymond H.: *See*—
- Blittner, Eurt J., and Opperman. 2,943,275.
- Oppermann, Frederick T., to American Can Co. Mechanism for controlling advancement of bodies in can bodymaker. 2,926,774, 3-1-60, Cl. 193-232.
- Opsahl, Eugene G.: *See*—
- Kayler, Frank H., and Opsahl. 2,963,990.
- Opsahl, Eugene G., to American Steel Foundries. Dipper tooth assembly. 2,921,391, 1-19-60, Cl. 37-142.
- Opsahl, Eugene G., to American Steel Foundries. Dipper tooth assembly. 2,936,538, 5-17-60, Cl. 37-142.
- Opsahl, Eugene G., and L. E. Robinson,  $\frac{1}{2}$  to American Steel Foundries, and  $\frac{1}{2}$  to The Rail-Trailer Co. Trailer support arrangement. 2,963,989, 12-13-60, Cl. 105-368.
- Optical Gaging Products, Inc.: *See*—
- Dombrowski, Frank A., and MacLeish. 2,936,209.
- Polldor, Edward C. 2,949,057.
- Optical Measuring Tools Ltd.: *See*—
- Baker, Deryck A., and Dietrich. 2,933,013.
- Dietrich, Cornelius F. 2,958,255.
- Smith, Harry J., and Dietrich. 2,930,283.
- Optische Werke C. A. Steinheil Soehne G.m.b.H.: *See*—
- Maiershofer, Karl N. 2,926,583.
- Optische Werke C. A. Steinheil Sohn G.m.b.H.: *See*—
- Schiks, Albert. 2,943,552.
- Opti-Werk G.m.b.H.: *See*—
- Porepp, Hans. 2,945,276.
- OPTOmechanisms, Inc.: *See*—
- Brault, Andre R. 2,949,005.
- O'Quinn, Jackson H. Combined pulpwood saw and loader. 2,960,123, 11-15-60, Cl. 143-43.
- O'Quinn, Trueman. Hose nozzle holder. 2,921,762, 1-19-60, Cl. 248-75.
- Orban, John. Convertible water heating system. 2,920,608, 1-12-60, Cl. 122-20.
- Orchard Development Co. (Proprietary) Ltd.: *See*—
- Burgell, Roy J. G. 2,958,666.
- Orchin, Milton, to Houdry Process Corp. Preparation of urethanes wherein triethylene diamine is used as the catalyst. 2,939,851, 6-7-60, Cl. 260-2.5.
- Orchin, Milton, to Houdry Process Corp. Cyclopropyl derivatives and processes for making the same. 2,950,328, 8-23-60, Cl. 260-648.
- Ordahl, Douglas D.: *See*—
- La Haye, Frank, and Ordahl. 2,921,521.
- Ordelt, Hermann, and E.-M. Jahn, to The British Petroleum Co. Ltd. Insulating oil compositions. 2,921,011, 1-12-60, Cl. 208-14.
- Ore, Clarence: *See*—
- Schneider, William S. 2,942,760.
- O'Rear, Charles J.: *See*—
- Wilson, Wilmer G., and O'Rear. 2,928,635.



- O'Rear, Harrel W. Fire extinguisher systems. 2,933,139, 4-19-60, Cl. 169-9.
- O'Rear, Jacques G., and P. D. Faurote, to United States of America, Navy. Process for the production of fluoroesters. 2,921,957, 1-19-60, Cl. 260-485.
- Orebaugh, Leonard T.  $\frac{1}{2}$  to L. D. Hoover, and  $\frac{1}{2}$  to V. S. Orebaugh. Dump rake, 2,952,111, 9-13-60, Cl. 56-27.
- Orebaugh, Vernon S.: *See*—
- Orebaugh, Leonard T. 2,952,111.
- Oreclone Concentrating Corp.: *See*—
- Rodman, Norman H. A., 2,930,484.
- Oregon Metallurgical Corp.: *See*—
- Shelton, Stephen M. 2,946,677.
- Orehoski, Michael A.: *See*—
- Hornak, John N., and Orehoski. 2,962,779.
- Orel, Ben. Magnetically coupled toys. 2,939,245, 6-7-60, Cl. 46-241.
- Orelind, John R., and E. M. Clark, to International Harvester Co. Beet harvester clod crusher. 2,947,366, 8-2-60, Cl. 171-116.
- Orelind, John R., and O. E. Johnson, to International Harvester Co. Draft control for implements. 2,947,367, 8-2-60, Cl. 172-239.
- Orelind, John R., and F. M. Pierson, to International Harvester Co. Implement attaching structure. 2,952-323, 9-13-60, Cl. 172-248.
- Orenda Engines Ltd.: *See*—
- Balfour, Ronald B. 2,940,463.
- Clarke, Alfred G. 2,959,697.
- Comery, Peter D. 2,946,609.
- Creek, John O. 2,923,525.
- Creek, John O. 2,958,362.
- Creek, John O. 2,966,097.
- Creek, John O. 2,966,331.
- Davies, Ronald M. 2,959,090.
- Dowling, Cecil J. 2,960,012.
- Hyde, John A. C. 2,926,491.
- Hyde, John A. C. 2,927,424.
- Hyde, John A. C. 2,931,623.
- Hyde, John A. C. 2,931,624.
- Hyde, John A. C. 2,932,163.
- Hyde, John A. C. 2,957,310.
- Jay, Kenneth W. 2,963,862.
- Klompas, Nicholas. 2,934,168.
- Klompas, Nicholas. 2,949,977.
- Klompas, Nicholas, Davis, and Avery. 2,931,622.
- Lang, Robert A. B. 2,934,894.
- Lindsey, Albert S., and Jameson. 2,964,972.
- McEachern, Alexander B. 2,931,460.
- McGregor, John C. 2,921,655.
- Metcalfe, Philip A. 2,930,492.
- Muraszew, Alexander. 2,940,516.
- Porter, Kenneth W. 2,929,755.
- Pritchard, Ross E., and Hoefer. 2,957,239.
- Whiting, James C. 2,934,077.
- Orendorff, John W., to International Harvester Co. Flexible drive for planters. 2,923,444, 2-2-60, Cl. 222-410.
- Orenick, Emil H. and M. W. Cable fastener. 2,937,834, 5-24-60, Cl. 248-71.
- Orenick, Michael W.: *See*—
- Orenick, Emil H. and M. W. 2,937,834.
- Orenstein, Hyman: *See*—
- Friedman, Philip and G. J. 2,929,651.
- Friedman, Philip and G. J. 2,931,206.
- Orford, Roy C., to Power Jets (Research and Development) Ltd. Aircraft jet propulsion arrangement. 2,961,193, 11-22-60, Cl. 244-15.
- Organ Industries, Inc.: *See*—
- Raymond, Chester A. 2,954,716.
- Organico, S.A.: *See*—
- Chizallet, Georges, and Dumon. 2,930,838.
- Organon Inc.: *See*—
- Szpilfogel, Stefan A. 2,966,503.
- Oringer, Kenneth, to American Cyanamid Co. Refining of proteolytic enzymes. 2,927,060, 3-1-60, Cl. 195-66.
- Orkin Exterminating Co., Inc.: *See*—
- Dettelbach, Louis L. Jr. 2,939,815.
- Orlando, Matthew, and L. Schub. Machine for making dry cells. 2,962,844, 12-6-60, Cl. 53-36.
- Orloff, Daniel L., to Oscar Mayer & Co., Inc. Labeling machine. 2,952,376, 9-13-60, Cl. 216-55.
- Orloff, George, to British Messier Ltd. Servo valve mechanism. 2,927,766, 3-8-60, Cl. 251-35.
- Orloff, George, to British Messier Ltd. Shock absorbers for aircraft. 2,930,609, 3-29-60, Cl. 267-64.
- Orloff, George, to British Messier Ltd. Remote control servo systems. 2,936,738, 5-17-60, Cl. 121-41.
- Orloff, George, R. Roy, B. E. Cooper, and K. T. P. Langdon, to British Messier Ltd. Aircraft undercarriage. 2,943,819, 7-5-60, Cl. 244-50.
- Orloff, Harold D.: *See*—
- Kolka, Alfred J., and Orloff. 2,920,110.
- Markley, Francis X., and Orloff. 2,926,185.
- Orloff, Harold D., and F. X. Markley, to Ethyl Corp. Process of preparing phenyl dimethyl phosphates. 2,929,833, 3-22-60, Cl. 260-461.
- Orloff, Harold D., and F. X. Markley, to Ethyl Corp. Gasoline fuel compositions. 2,948,599, 8-9-60, Cl. 44-69.
- Ormonaterapia Richter S.P.A.: *See*—
- De Ruggieri, Pietro, and de Ferrari. 2,924,597.
- Ormond, Alfred N. Load measuring device. 2,962,893, 12-6-60, Cl. 73-141.
- Ormond, Alfred N. Universal flexure joint. 2,966,049, 12-27-60, Cl. 64-15.
- Ormond, Na Ray H.: *See*—
- Roundy, Zola D., and Ormond. 2,956,885.
- Ormonaterapia Richter S.P.A.: *See*—
- De Ruggieri, Pietro, and de Ferrari. 2,959,585.
- Ormsby, Edwin P., to Giddings & Lewis Machine Tool Co. Sliding way for machine tools and method of making same. 2,919,956, 1-5-60, Cl. 308-3.
- Ormsby, George S., to Phillips Petroleum Co. Rotary seal. 2,927,774, 3-8-60, Cl. 255-23.
- Orner, Harry. Ball bearing screw and nut mechanism. 2,924,113, 2-9-60, Cl. 74-459.
- Ornhjelm, Runar M. R., to Kymin Osakeyhtio-Kymmene Aktiebolag. Process for the production of alkali metal peroxide. 2,959,468, 11-8-60, Cl. 23-184.
- Orozio De Nora Impianti Elettrochimici: *See*—
- Messner, Georg. 2,951,026.
- Oros, John. Rotary percussive power tool. 2,947,180, 8-2-60, Cl. 74-22.
- Oros, John J., to Air Mite Devices, Inc. Valve structure and linkage therefor. 2,965,131, 12-20-60, Cl. 137-622.
- Oroshnik, William: *See*—
- Karmas, George, and Oroshnik. 2,926,170.
- Oroshnik, William, to Ortho Pharmaceutical Corp. 11-monocis isomer of vitamin A. 2,920,103, 1-5-60, Cl. 260-488.
- Oroshnik, William, and A. D. Mebane, to Ortho Pharmaceutical Corp. Quaternary ammonium salts of 2,2-diphenyl ethyl-amino ethyl ethers. 2,949,485, 8-16-60, Cl. 260-567.6.
- O'Rourke, Innis O., Jr.: *See*—
- Pinter, George S., and O'Rourke. 2,942,321.
- Orozco, Gilbert H., to Fin Del Co. Apparatus for polishing. 2,964,887, 12-20-60, Cl. 51-193.
- Orr, Charles P., to Spray Products Corp. Spray applicator system for injecting starting fluid into diesel and gasoline engines. 2,943,766, 7-5-60, Cl. 222-180.
- Orr, Charles P., to Spray Products Corp. Engine starting fluid propellant. 2,948,595, 8-9-60, Cl. 44-52.
- Orr, Clyde, Jr., to Georgia Tech Research Institute. Cascade impactor for sampling smokes, dusts and fumes. 2,947,164, 8-2-60, Cl. 73-28.
- Orr, Clyde, Jr., to The Georgia Tech Research Institute. Continuous thermal precipitator. 2,947,382, 8-2-60, Cl. 183-32.
- Orr, Harry A.: *See*—
- Pike, Gerald L. 2,960,808.
- Orr, John A., Sr. Lawn edger. 2,939,262, 6-7-60, Cl. 56-25.4.
- Orr, John B., to Sheffield Plastics, Inc. Protecting polystyrene. 2,955,955, 10-11-60, Cl. 117-66.
- Orr, John W.: *See*—
- Griffin, Donald N., and Orr. 2,947,221.
- Orr, Palmer, and C. L. Swift. Turbine transmission. 2,924,990, 2-16-60, Cl. 74-645.
- Orr, Raymond H. M. Device for sharpening safety razor blades. 2,931,143, 4-5-60, Cl. 51-59.
- Orr & Sembower Inc.: *See*—
- Tatem, John A., and Northcote. 2,947,268.
- Orrange, Robert J., to International Business Machines Corp. Velocity servo system electromechanical integrator. 2,958,813, 11-1-60, Cl. 318-47.
- Orren, Royal C.: *See*—
- Bergman, Herbert F., Jr. 2,939,584.
- Orscheln Brake Lever Mfg. Co.: *See*—
- Hirst, Charles M., Jr. 2,928,292.
- Orshansky, Elias, Jr., to The New York Air Brake Co. Fluid pressure pump or motor. 2,932,256, 4-12-60, Cl. 103-161.
- Orshansky, Elias, Jr., to Chicago Railway Equipment Co. Disk brake. 2,964,138, 12-13-60, Cl. 188-72.
- Orsini, Rene, to S.A. Plastus. Method and machine for filling bags of thermoweldable material. 2,928,216, 3-15-60, Cl. 53-22.
- Orsini, René, to S.A. Plastus. Packages for liquid, pasty and pulverulent materials. 2,950,037, 8-23-60, Cl. 229-14.
- Ort, Carl, to Eastman Kodak Co. Combined range- and viewfinders having projected frame lines. 2,940,354, 6-14-60, Cl. 88-2.4.
- Ortega, Isidoro, and A. Wallace. Safety landing platform for aircraft. 2,923,504, 2-2-60, Cl. 244-114.
- Ortles, Raymond C., to American Air Filter Co., Inc. Electric melting furnace hood. 2,935,927, 5-10-60, Cl. 98-115.
- Orth, Helmut: *See*—
- Reicheneder, Franz, Suter, Orth, Stoeckl, and Seefelder. 2,950,329.
- Orth, George O., Jr., to Minnesota Mining and Mfg. Co. Method of reacting monoesters of fatty acids and pentaerythritol with aromatic diisocyanates and preparing porous resins therefrom. 2,936,293, 5-10-60, Cl. 260-2.5.
- Orthner, Ludwig: *See*—
- Reuter, Martin, Orthner, Jakob, and Wolf. 2,937,207.
- Orthner, Ludwig, and M. Reuter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Organic aluminum compounds and a process of preparing them. 2,932,659, 4-12-60, Cl. 260-414.



- Ortho Pharmaceutical Corp.: See—  
 Himm, Roger E. 2,941,896.  
 Karmas, George. 2,928,842.  
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 Oroshnik, William. 2,920,103.  
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 Senger, Frank A. 2,925,100.  
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- Orthodontic Specialties, Inc.: See—  
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- Orthuber, Richard K., and G. Papp, to International Telephone and Telegraph Corp. Electron multiplier mosaics. 2,931,914, 4-5-60, Cl. 250—213.
- Orthuber, Richard K., L. R. Ullery, and C. V. Stanley, to International Telephone and Telegraph Corp. Radiation-amplifying device. 2,936,379, 5-10-60, Cl. 250—213.
- Ortis, Edmund T.: See—  
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- Ortiz, Ralph G., D. R. Ogden, and R. C. Piper, Jr., to Markel Electric Products, Inc. Mobile adjustable fan support. 2,963,249, 12-6-60, Cl. 248—122.
- Ortleb, Douglas B. Box construction. 2,950,849, 8-30-60, Cl. 229—8.
- Ortman, Alva H.: See—  
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- Ortman, Cecil K., to M & R Dietetic Laboratories, Inc. Dry creaming powder. 2,933,393, 4-19-60, Cl. 99—56.
- Ortman-Miller Machine Co., Inc.: See—  
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- Ortman, Robert A. and A. H., to Ortman-Miller Machine Co., Inc. Cushioned cylinder construction. 2,935,047, 5-3-60, Cl. 121—38.
- Ortmann, Walter, and K. Neubeck, to Westinghouse-Bremsen-Gesellschaft, m.b.H. Load-responsive brake control apparatus. 2,940,796, 6-14-60, Cl. 303—22.
- Ortner, Samuel. Push button knife. 2,948,961, 8-16-60, Cl. 30—162.
- Ortwig, Thomas B., to James R. Kearney Corp. Electrical switches. Re. 24,913, 12-20-60, Cl. 200—48.
- Ortynsky, Roman L.: See—  
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- Orville Simpson Co., The: See—  
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- Osaka, Rikijiro. Combined salt and pepper shaker condiment holder. 2,922,551, 1-26-60, Cl. 222—142.4.
- Osawa, Hirosaburo. Method of and an apparatus for carrying coals out of a vertical shaft with the aid of heavy liquid in the coal mine. 2,937,049, 5-17-60, Cl. 302—14.
- Osberg, Stanley C., to National Lock Co. Means for and manner of packaging valves and similar products. 2,941,662, 6-21-60, Cl. 206—65.
- Osborn, William O.: See—  
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- Osborn, John M., to Hoffmann-La Roche Inc. Preparation of hexahydrobenzoquinolizidine compounds and intermediates. 2,954,382, 9-27-60, Cl. 260—289.
- Osborg, Hans, D. Horvitz, and A. H. Pope. High energy fuels containing ethylene imine. 2,955,032, 10-4-60, Cl. 52—5.
- Osborn, Charles W.: See—  
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- Osborn, Ernest O. Water bag carrier for vehicles. 2,950,034, 8-23-60, Cl. 24—42.03.
- Osborn, Francis W.: See—  
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- Osborn, Harry B., Jr.: See—  
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- Osborn, John H. Shaper head. 2,960,129, 11-15-60, Cl. 144—240.
- Osborn, Leonard C., to Gardner Machines, Inc. Ply wrench. 2,958,246, 11-1-60, Cl. 81—99.
- Osborn Mfg. Co., The: See—  
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- Osborn, Oliver, and R. P. George, to The Dow Chemical Co. Production of hydrogen. 2,935,382, 5-3-60, Cl. 23—211.
- Osborn, Oliver, and J. J. Newport, III, to The Dow Chemical Co. Alkaline hydroxides in cathodic protection of metals in seawater and brines. 2,954,332, 9-27-60, Cl. 204—56.
- Osborn, Ralph P., to Hughes Aircraft Co. Voltage regulator. 2,963,637, 12-6-60, Cl. 323—22.
- Osborn, Scott G. Ski binding having releasable heel securing means. 2,954,236, 9-27-60, Cl. 280—11.35.
- Osborn, William M. Non-corrodible battery terminal connector. 2,925,579, 2-16-60, Cl. 339—225.
- Osborne, Albert H., to The Bendix Corp. System for cooling kinetic-energy-absorbing devices. 2,958,399, 11-1-60, Cl. 188—72.
- Osborne, Alec V., to Pfaudler Permutit Inc. Fluid distributor plate for counterflow contact apparatus. 2,924,441, 2-9-60, Cl. 261—113.
- Osborne, Charles V. Four wheel steering mechanism for a mine car. 2,944,830, 7-12-60, Cl. 280—96.
- Osborne, Fred, to S. P. Kinney Engineers, Inc. Apparatus for preparation of cellulated slag. 2,928,609, 3-15-60, Cl. 239—273.
- Osborne, Gerald L., and L. A. Lawson; said Lawson assor. to said Osborne. Variable voltage transformer device. 2,946,903, 7-26-60, Cl. 307—156.
- Osborne, Lloyd M., to Inventions Management Corp. Single stroke air hammer. 2,960,067, 11-15-60, Cl. 121—13.
- Osborne, Lyle E., to Bendix Aviation Corp. Anti-skid device. 2,941,845, 6-21-60, Cl. 303—24.
- Osborne, Lyle E., and J. P. White, to The Bendix Corp. Anti-skid device. 2,954,262, 9-27-60, Cl. 303—24.
- Osborne, Robert E., to General Motors Corp. Steering gear or the like. 2,964,967, 12-20-60, Cl. 74—498.
- Osborne, Robert J.: See—  
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- Osborne, Wesley M., D. Edge, Jr., and A. D. Johnston, to Hooker Chemical Corp. Process for production of calcium hypochlorite bleach liquor. 2,965,443, 12-20-60, Cl. 23—86.
- Osborne, William E., to Aerojet-General Corp. Tracking system. 2,948,813, 8-9-60, Cl. 250—203.
- Osborne, William H., and G. D. Harden, to Shell Oil Co. Apparatus for controlling the pumping of fluids in a pipeline. 2,953,157, 9-20-60, Cl. 137—268.
- Osborne, William H., and R. E. Zimmerman, to Shell Oil Co. Apparatus for controlling the pumping of fluids in a pipeline. 2,965,125, 12-20-60, Cl. 137—268.
- Osburn, Carl L., Jr.: See—  
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- Osburn, John G.: See—  
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- Osburn, John G., to Kearney & Trecker Corp. Vibration dampener. 2,960,189, 11-15-60, Cl. 188—1.
- Osceola Equipment Corp.: See—  
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- Osenberg, Werner, to Bisterfeld & Stolting. Fusion abrading process for surface-working flat and curved surfaces of metal bodies and apparatus for carrying out said process. 2,940,226, 6-14-60, Cl. 51—209.
- Osenberg, Werner, to Bisterfeld & Stolting. Grinding wheels with abrasive elements of rectangular shape. 2,952,103, 9-13-60, Cl. 51—209.
- Osepchuk, John M., to Raytheon Co. Traveling wave device. 2,925,518, 2-16-60, Cl. 315—3.5.
- Osgood, Richard E. High response flow-meter. 2,943,486, 7-5-60, Cl. 73—228.
- Oshatz, Jack, and H. J. Kaye, said Kaye assor. to J. Katz. Cotton picking spindle attachment. 2,929,189, 3-22-60, Cl. 56—50.
- O'Shaughnessy, Bernard T., Jr., to The Preferred Engineering and Research Corp. Quick disconnect coupling. 2,939,729, 6-7-60, Cl. 285—315.
- Osher, Benjamin B., to American Kleer-Vu Plastics, Inc. Wing assembly for billfolds, wallets, pass cases and the like. 2,926,714, 3-1-60, Cl. 150—39.
- Oshima, Shintaro: See—  
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- Ospow, Lloyd I., and W. C. York, deceased (R. M. York, administratrix), to W. R. Grace & Co. Substituted carbamide detergent composition. 2,921,909, 1-19-60, Cl. 252—137.
- Ospow, Lloyd I., and D. C. Marra, to F. R. Heyman. Coating composition adapted for over-coating a wax surface. 2,936,245, 5-10-60, Cl. 106—189.
- Oslund, Herbert D. Belt type sanding machine. 2,930,165, 3-29-60, Cl. 51—141.
- Osmond, Charles W., and P. R. Fechheimer, to The Karl Kiefer Machine Co. Device for removing improperly filled containers from a filling line. 2,922,445, 1-26-60, Cl. 141—170.
- Osmun, Dean W. Stump planing machine. 2,923,332, 2-2-60, Cl. 144—219.
- Osmun, Dean W. Grappling tool. 2,945,720, 7-19-60, Cl. 294—96.
- Osmun, Dean W. and F. N. Safety joint. 2,924,433, 2-9-60, Cl. 255—28.
- Osmun, Fred N.: See—  
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- Osoba, Joseph S.: See—  
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- Osovski, Conrad A., and R. H. Shaver, to Chesebrough Whitman Mfg. Corp. Convertible ladders. 2,942,686, 6-28-60, Cl. 182—26.
- Ost, Clarence S. Light integrator. 2,944,190, 7-5-60, Cl. 315—156.



- Ostberg, George W., to Esso Research and Engineering Co. Naphtha air sweetening. 2,932,318, 4-12-60, Cl. 137-592.
- Östberg, Karl G. Device for the manufacture of saw blades. 2,935,902, 5-10-60, Cl. 76-25.
- Osteen, Belmont D., to Birmingham Paper Co. Combination carrying and display container. 2,926,780, 3-1-60, Cl. 206-45.21.
- Osteen, Belmont D., to St. Regis Paper Co. Holder for punched sheets. 2,954,034, 9-27-60, Cl. 129-23.
- Ostendorf, Bernard, Jr., to Bell Telephone Laboratories, Inc. Station selector and control apparatus. 2,953,631, 9-20-60, Cl. 178-2.
- Ostendorf, Bernard, Jr., to Bell Telephone Laboratories, Inc. Character timing impulse circuit for telegraph receiver. 2,954,487, 9-27-60, Cl. 307-88.5.
- Oster, John, Mfg. Co.: *See*—  
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- Oster, John, to John Oster Mfg. Co. Cutting head assembly for electric hair clippers. 2,928,171, 3-15-60, Cl. 30-221.
- Oster, John, Jr., to John Oster Mfg. Co. Vibratory therapeutic cushion. 2,920,618, 1-12-60, Cl. 128-33.
- Oster, Thomas H., to Ford Motor Co. Fuel filter. 2,923,411, 2-2-60, Cl. 210-172.
- Osterberg, Carl T., to Cornell Paperboard Products Co. Can pack, carrier tube and blank. 2,931,492, 4-5-60, Cl. 206-65.
- Ostergaard, Martin P., Jr., to Gulton Industries, Inc. Photographic processing method. 2,945,760, 7-19-60, Cl. 96-48.
- Ostergard, Emil G. Smoking pipes. 2,933,091, 4-19-60, Cl. 131-202.
- Ostergren, Jarl O. B., to Nya Murbruksfabrikens i Stockholm Aktiebolag. Finishing mortars. 2,950,206, 8-23-60, Cl. 106-119.
- Ostergren, Ralph H., to North American Aviation, Inc. Stationary field scanning system. 2,949,672, 8-23-60, Cl. 33-1.
- Ostergren, Ralph H., and L. L. Nalley, to Northrop Corp. Automatic star tracker. 2,931,910, 4-5-60, Cl. 250-203.
- Osterhaus, Leo A., to Silver Streak Mfg. Co. Feed mixer and unloader unit attachment for wagons. 2,931,529, 4-5-60, Cl. 214-519.
- Osterkamp, Henry C., to Westinghouse Air Brake Co. Control system for fluid compressors. 2,961,147, 11-22-60, Cl. 230-9.
- Osterloh, Erich: *See*—  
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- Ostermann, Philipp: *See*—  
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- Ostermeyer, Gunter, A. Wittmoser, and R. Kaufmann, to Eisenwerke Gelsenkirchen Aktiengesellschaft. Continuous casting process and apparatus. 2,941,266, 6-21-60, Cl. 22-57.3.
- Osthoff, Robert C., to General Electric Co. Process for extracting tungsten valves. 2,942,940, 6-23-60, Cl. 23-18.
- Ostland, Fredrick G., to The National Cash Register Co. Switching sequencer. 2,963,628, 12-6-60, Cl. 317-157.
- Ostline, John E., S. W. Benson, and M. H. Esperseth, to General Telephone Laboratories, Inc. Automatic toll ticketing telephone system. 2,955,163, 10-4-60, Cl. 179-7.1.
- Ostrander, Robert K. Doll with simplified tear unit. 2,959,890, 11-15-60, Cl. 46-135.
- Ostrander, Robert K., Jr., to Loma Plastics, Inc. Magazine rack. 2,924,337, 2-9-60, Cl. 211-50.
- Ostroff, Edward D., to Laboratory for Electronics, Inc. Bistable circuit. 2,955,211, 10-4-60, Cl. 307-88.
- Ostrom, Raymond: *See*—  
Grunwald, Arthur A., and Ostrom. 2,946,039.
- Ostwald, Adolph, to Uniforms By Ostwald, Inc. Adjustable collar for military coats. 2,932,828, 4-19-60, Cl. 2-98.
- Osugi, Tetsuro, K. Tanabe, and Y. Ohno, ½ to Kurashiki Rayon Co., Ltd., and ¼ to Air Reduction Co., Inc. Method of improving the mechanical and dyeing properties of shaped polyvinyl alcohol structures. 2,960,384, 11-15-60, Cl. 8-115.5.
- O'Sullivan, Denis J., ½ to E. Lefebvre. Methods of copy reproduction. 2,935,938, 5-10-60, Cl. 101-149.4.
- O'Sullivan, John F.: *See*—  
Barry, Vincent C., Belton, Conalty, Twomey, O'Sullivan, and Hodel. 2,943,089.  
Barry, Vincent C., Belton, Conalty, Twomey, O'Sullivan, and Hodel. 2,946,792.  
Barry, Vincent C., Belton, Conalty, Twomey, O'Sullivan, and Hodel. 2,948,726.
- Oswald, Fritz, to Alfred Teves Maschinen- und Armaturenfabrik K.G. Device for increasing torsional force. 2,939,428, 6-7-60, Cl. 121-41.
- Oswald, Jacques, to Compagnie Industrielle des Telephones. Adjustable correcting networks. 2,948,866, 8-9-60, Cl. 333-28.
- Oswald, Jacques, to Compagnie Industrielle des Telephones. Eight-terminal directional filter network with constant impedance on the four pairs of terminals. 2,963,666, 12-6-60, Cl. 333-10.
- Oswald, James H.: *See*—  
Saunders, Frank L., and Oswald. 2,964,456.
- Oswald, Karl, to G. A. Messen-Jaschin. Separator-electrode-system for electrofilters. 2,926,749, 3-1-60, Cl. 183-7.
- Oswald, Karl, to G. A. Messen-Jaschin. Apparatus for electrically charging particles suspended in an air current by means of radioactive preparations. 2,939,006, 5-31-60, Cl. 250-44.
- Oswald, Walter A. Fishing device. 2,940,208, 6-14-60, Cl. 43-44.6.
- Oswalt, Burlin G., to The B. F. Goodrich Co. Hydraulic automatic adjusting mechanism. 2,923,132, 2-2-60, Cl. 60-54.5.
- Oswalt, Burlin W., to The B. F. Goodrich Co. Adjusting mechanism for hydraulic motors. 2,924,945, 2-16-60, Cl. 60-54.5.
- Oswalt, Burlin W., to The B. F. Goodrich Co. Hydraulic adjusting mechanism. 2,926,498, 3-1-60, Cl. 60-54.5.
- Oswalt, Burlin W., to The B. F. Goodrich Co. Hydraulic brake actuating mechanism. 2,952,338, 9-13-60, Cl. 188-152.
- Oswalt, Burlin W., to The B. F. Goodrich Co. Hydraulic adjusting mechanism. 2,954,673, 10-4-60, Cl. 60-54.5.
- Oswalt, Burlin W., to The B. F. Goodrich Co. Brake mechanism. 2,961,074, 11-22-60, Cl. 188-78.
- Oswold, Oluf G., to Bausch & Lomb Optical Co. Adjusting mechanism for slit lamp apparatus. 2,940,357, 6-14-60, Cl. 88-20.
- Ota, Isamu, to Nippon Seal Co., Ltd. Power transmission mechanism. 2,941,410, 6-21-60, Cl. 74-229.
- Otani, Koichi, to Canon Camera Co., Inc. Safety lamp switch for movie projectors coupled with a magnetic sound reproducer. 2,937,565, 5-24-60, Cl. 88-16.2.
- Otavka, Michael A., to United States of America, Atomic Energy Commission. Means and method for producing a vacuum. 2,947,465, 8-2-60, Cl. 230-69.
- Otero-Uhrenrohwerke Otto Epple KG.: *See*—  
Murrele, Kurt. 2,928,231.
- Otis, Carl W. Cooking utensil support. 2,935,982, 5-10-60, Cl. 126-30.
- Otis, Carl W. Knockdown stand for holding bottles. 2,936,144, 5-10-60, Cl. 248-150.
- Otis, Charles F.: *See*—  
Fisher, Roy S., Otis, and Vasilevskis. 2,963,609.
- Otis Elevator Co.: *See*—  
Bruns, William H., Couturier, and Gherzi. 2,960,187.  
Heart, Herbert L. 2,931,462.  
Hornung, Stephen A. 2,926,756.  
Hornung, Stephen A. 2,932,365.  
Schenkelberger, Frank J. 2,920,775.
- Otis Engineering Corp.: *See*—  
Bostock, James H., and Fredd. 2,948,340.  
Boyle, William G. 2,947,086.  
Boyle, William G. 2,959,187.  
Canalizo, Carlos R. 2,954,043.  
Canalizo, Carlos R. 2,959,227.  
Dollison, William W. 2,944,605.  
Dollison, William W. 2,962,097.  
Fabula, Andrew. 2,949,178.  
Fredd, John V. 2,920,396.  
Fredd, John V. 2,920,704.  
Fredd, John V. 2,940,525.  
Fredd, John V. 2,948,339.  
Fredd, John V. 2,948,341.  
Garwood, Turner G., and Grimmer. 2,964,110.  
Hornung, Stephen A., and Fusco. 2,936,858.  
Lusti, John. 2,936,859.  
Lusti, John, and Glaser. 2,938,605.  
Paulson, Arthur W., and Fabula. 2,946,319.  
Prince, Arthur E. 2,944,244.  
Raulins, George M. 2,925,660.  
Raulins, George M. 2,966,170.  
Raulins, George M., Bostock, and Garwood. 2,948,338.  
Schramm, Harry B. 2,942,671.  
Schramm, Harry B. 2,960,165.  
Sizer, Phillip S. 2,963,089.  
Traeger, William V. 2,953,257.  
Wall, John, Jr., and Mitchell. 2,922,477.
- Otis, Samuel S. Automatic checking machine. 2,919,851, 1-5-60, Cl. 235-61.9.
- O'Toole, John J., to Admiral Corp. Dual mode phase detector. 2,956,112, 10-11-60, Cl. 178-5.4.
- O'Toole, John T.: *See*—  
Puckett, Ralph C., and O'Toole. 2,933,817.
- Ototani, Tohei, to The Research Institute for Iron, Steel and Other Metals of the Tohoku University. Iron-calcium base alloy. 2,950,187, 8-23-60, Cl. 75-122.
- Ots, Joseph M. Reinforcement for brassieres and the like garments for ladies. 2,923,300, 2-2-60, Cl. 128-469.
- Osttot, James L.: *See*—  
Parr, Russell D., and Osttot. 2,931,420.
- Ott, Charles J.: *See*—  
Roberts, John S., Ott, and Gittinger. 2,922,492.
- Ott, Hans: *See*—  
Petrzikla, Theodor, Frey, Hofmann, Ott, Schenk, and Troxler. 2,959,591.
- Ott, Heinrich: *See*—  
Ehrhart, Gustav, Hennig, Lindner, and Ott. 2,941,002.
- Ott, Henry G., to Union Carbide Corp. Quick disconnect type brush terminal. 2,962,693, 11-29-60, Cl. 339-258.
- Ott, John B.: *See*—  
Contois, Leo L., Jr., and Ott. 2,952,565.



- Ott, John B., to Monsanto Chemical Co. Water-soluble inter-polymers of acrylic acids and 2-ethylhexyl esters of acrylic acids and method of making same. 2,945,013, 7-12-60, Cl. 260—86.1.
- Ott, William F.: *See—*  
Smith, Robert J., and Ott. 2,964,303.
- Ottenheimer, Richard J., and R. V. Gaumer, to McGraw-Edison Co. Apparatus for constructing magnetic cores. 2,956,755, 10-18-60, Cl. 242—9.
- Ottestad, Jack B., to General Dynamics Corp. Actuating pressure release system. 2,925,803, 2-23-60, Cl. 121—38.
- Ottestad, Jack B., to General Dynamics Corp. Controlled actuator. 2,931,218, 4-5-60, Cl. 73—12.
- Ottestad, Jack B., S. A. Skeen, and R. C. Du Vall, to General Dynamics Corp. Forming apparatus. 2,932,951, 4-19-60, Cl. 60—97.
- Ottestad, Jack B., and S. A. Skeen, to General Dynamics Corp. Tube flaring machine. 2,941,568, 6-21-60, Cl. 153—79.
- Ottestad, Jack B., and S. A. Skeen, Jr., to General Dynamics Corp. Pressure generator. 2,949,080, 8-16-60, Cl. 103-50.
- Ottestad, Jack B., and S. A. Skeen, to General Dynamics Corp. Pneumatic actuator. 2,949,096, 8-16-60, Cl. 121-38.
- Ottico Meccanica Italiana e Rilevamenti Aerofotogrammetrici-O.M.I.-Soc. p. Az.: *See—*  
Parenti, Gino. 2,952,186.
- Ottico Meccanica Italiana e Rilevamenti Aerofotogrammetrici, Soc. p. Az.: *See—*  
Bartorelli, Ugo. 2,960,006.
- Ottke, Robert C.: *See—*  
Wrenshall, Charlton L., McMahan, and Ottke. 2,942,982.
- Otto, Dr. C., & Comp. G.m.b.H.: *See—*  
Becker-Boost, Erich H., and Kronacher. 2,946,402.
- Otto, Carl, to Otto Construction Corp. Gravity flow liquid and gas conductor. 2,954,216, 9-27-60, Cl. 261—21.
- Otto, Carl L., and E. B. Grongqvist, to Aktiebolaget Electrolux. Refrigerator door. 2,944,304, 7-12-60, Cl. 20—35.
- Otto, Carl L., and L. B., and J. Briton. Hair curlers for permanent waving. 2,941,534, 6-21-60, Cl. 132—41.
- Otto, Carl L., and L. B., and J. Briton, to Caronelle, Inc. Cosmetic holders. 2,964,045, 12-13-60, Cl. 132—85.
- Otto, Carl L., and L. B. Cosmetic devices. 2,964,170, 12-13-60, Cl. 206—56.
- Otto, Charles W.: *See—*  
Davies, James E., and Otto. 2,951,133.
- Otto Construction Co.: *See—*  
Cooper, Franklin D. 2,939,763.
- Otto, Carl. 2,954,216.
- Otto, George F., to Anchem Products, Inc. Method, bath and composition for coating corrosion resistant alloys. 2,953,487, 9-20-60, Cl. 148—6.14.
- Otto, Harold L. Speaker. 2,923,371, 2-2-60, Cl. 181—32.
- Otto, Harold L. Synthetic milk. 2,923,628, 2-2-60, Cl. 99—63.
- Otto, Joachim E.: *See—*  
Schaffernicht, Walter, and Otto. 2,945,142.
- Otto, Joachim E., to Telefunken G.m.b.H. Signal storage tube. 2,937,313, 5-17-60, Cl. 315—12.
- Otto, Julian A.: *See—*  
Gilbert, Everett E., Marsilio, and Otto. 2,954,320.  
Gilbert, Everett E., Otto, and Donleavy. 2,929,759.  
Gilbert, Everett E., Otto, and Rumanowski. 2,954,316.
- Otto, La Nelle B.: *See—*  
Otto, Carl L. and L. B. 2,964,170.  
Otto, Carl L. and L. B., and Briton. 2,941,534.  
Otto, Carl L. and L. B., and Briton. 2,964,045.
- Otto, William H.: *See—*  
Whitehurst, Harry B., and Otto. 2,928,716.  
Whitehurst, Harry B., and Otto. 2,963,739.
- Ottolm, Cyrill. Mechanical toy. 2,941,331, 6-21-60, Cl. 46—120.
- Ouellette, Clarence P., to Crompton & Knowles Corp. Tear tape applying mechanism for a wrapping machine. 2,942,528, 6-28-60, Cl. 93—1.
- Ouellette, Clarence P., and R. T. Nathan, to Crompton & Knowles Corp. Protector mechanism for wrapping machine. 2,921,421, 1-19-60, Cl. 53—53.
- Ouellette, Ludger A.,  $\frac{1}{2}$  to R. B. Rudder. Painter's pail. 2,932,838, 4-19-60, Cl. 15—121.3.
- Ouimet, Emil R. Composite strap. 2,941,914, 6-21-60, Cl. 154—53.6.
- Ousley, James A.: *See—*  
Johnson, Kenneth A., Ousley, and Stark. 2,939,393.
- Oussani, James J. Stapling device. 2,957,174, 10-25-60, Cl. 1—3.
- Outboard Marine Corp.: *See—*  
Hansen, Einar T. 2,939,448.  
Hart, Charles A. 2,954,950.  
Irgens, Finn T. 2,947,331.  
Irgens, Finn T. 2,961,207.  
Irgens, Finn T., and Watkins. 2,959,986.  
Shaw, Gerald J. 2,947,132.  
Shimanckas, William J. 2,947,194.  
Stevens, Clifford B. 2,947,277.  
Trapp, Robert L. 2,947,300.
- Outboard, Marine & Mfg. Co.: *See—*  
Irgens, Finn T. 2,942,599.
- Outt, John R., to General Electric Co. Meteor particle impact sensing apparatus. 2,944,250, 7-5-60, Cl. 340—201.
- Outterson, George G. Measurement and control system. 2,927,455, 3-8-60, Cl. 73—37.7.
- Overbury, Austin: *See—*  
Calvache, Manuel, and Overbury. 2,964,893.
- Overdeer, Robert H.: *See—*  
Bonner, Howard E., and Overdeer. 2,921,131.
- Overhead Door Corp.: *See—*  
Crosswell, Flay D. 2,932,056.  
Fimbel, Edward, Jr. 2,966,212.  
Pemberton, Paul E. 2,932,057.  
Stroup, Earl L. 2,952,313.
- Overholser, John S., to Ta-Mar, Inc. Coaxial adapter. 2,933,714, 4-19-60, Cl. 339—177.
- Overholser, Lyle G., C. J. Barton, Sr., and J. W. Ramsey, to United States of America, Atomic Energy Commission. Separation of hafnium from zirconium. 2,938,769, 5-31-60, Cl. 23—23.
- Overholt, Ralph, Jr.: *See—*  
Blasingame, Jesse J., and Overholt. 2,965,895.
- Overland, Bernard O. Muffler repair kit. 2,946,895, 7-26-60, Cl. 181—72.
- Overman, Earl R., deceased, by M. B. Overman, executrix, to Rock Wool Engineering and Equipment Co., Inc. Roll-up machine. 2,927,742, 3-8-60, Cl. 242—55.1.
- Overman, Earl R., to Rock Wool Engineering and Equipment Co., Inc. Machine for filling containers to predetermined weight. 2,927,763, 3-8-60, Cl. 249—57.
- Overman, Mary B.: *See—*  
Overman, Earl R. 2,927,742.
- Overn, Leif, to S. Haug Ellingsen & Co. Apparatus for the continuous preparation of a solution constant concentration. 2,942,859, 6-28-60, Cl. 259—7.
- Overton, Hugh T. Knitting machine. 2,928,266, 3-15-60, Cl. 66—40.
- Overton, Lyle S. Doctor blade assembly for dehydrating machines. 2,929,155, 3-22-60, Cl. 34—112.
- Ovigran, Angelle. Garment with a floating hem line. 2,942,272, 5-28-60, Cl. 2—74.
- Øvretveit, Karsten A. Rotary fluid pumps and motors and the like. 2,960,039, 11-15-60, Cl. 103—125.
- Ovshinsky, Herbert C., to Tann Corp. Magnetic snap switch. 2,951,135, 8-30-60, Cl. 200—87.
- Ovshinsky, Stanford R., to Tann Corp. Circuit control device. 2,961,511, 11-22-60, Cl. 200—112.
- Ovshinsky, Stanford R., to Tann Corp. Circuit control devices. 2,966,567, 12-27-60, Cl. 200—87.
- Owczarek, Jerzy A. Offset umbrella. 2,948,289, 8-9-60, Cl. 135—20.
- Owen, Alexander B., to Texas Instruments Inc. Power transmission mechanism for use in a portable drill rig. 2,939,681, 6-7-60, Cl. 255—19.
- Owen, Arthur E. J.: *See—*  
Doherty, John H., and Owen. 2,935,939.
- Owen, Charles J., to Hubbard and Co. Method of aluminizing ferrous materials. 2,963,834, 12-6-60, Cl. 117—52.
- Owen, George W. Pyrophoric lighter. 2,940,286, 6-14-60, Cl. 67—7.1.
- Owen, Henry A., and I. H. Brodey. Means for achieving a predetermined extent of loading in tightening up nuts on bolts and studs. 2,928,302, 3-15-60, Cl. 81—56.
- Owen, Joe D., to Phillips Petroleum Co. Electrical well logging. 2,920,266, 1-5-60, Cl. 324—1.
- Owen, John C., to The Bendix Corp. Thrust control for aircraft. 2,950,075, 8-23-60, Cl. 244—77.
- Owen, John C., to The Bendix Corp. Aircraft control system. 2,953,328, 9-20-60, Cl. 244—77.
- Owen, Louis D.: *See—*  
Sloan, Rollin J., and Owen. 2,931,935.
- Owen, Robert E.: *See—*  
Schilling, Robert, Owen, and Jackson. 2,923,557.
- Owen, Wallace, to Saro (Anglesey) Ltd. Jacking mechanism for elongated members. 2,966,336, 12-27-60, Cl. 254—106.
- Owen, Wilhelm, to F. Kuhlmann, Sr., sole proprietor of The Kommandit-Gesellschaft Franz Kuhlmann. Engraving machines. 2,925,756, 2-23-60, Cl. 90—13.1.
- Owen, William H.: *See—*  
Schofield, William W., Owen, and Bidner. 2,957,213.
- Owens, Alan, to Sporan Valve Co., Inc. Reversible cycle refrigeration system. 2,924,079, 2-9-60, Cl. 62—160.
- Owens-Corning Fiberglas Corp.: *See—*  
Bauers, Barton M. 2,954,138.  
Biefeld, Lawrence P., and Shannon. 2,966,473.  
Brautigam, Richard H., and Cunningham. 2,935,179.  
Butler, Charles K. 2,951,771.  
Butler, Charles K., and Woodward. 2,937,436.  
Kalousek, George L. 2,926,997.  
Kleist, Dale. 2,936,480.  
Kleist, Dale, and Snow. 2,949,631.  
Kleist, Dale, and Snow. 2,949,632.  
Kleist, Dale, and Snow. 2,962,754.  
Leaman, Harold E. 2,931,062.  
Leedy, Nelson J., and Russell. 2,933,590.  
Long, David M. 2,931,422.  
Marzocchi, Alfred, and Alexander. 2,958,114.  
Marzocchi, Alfred, Brown, and Blankmeyer. 2,959,701.  
Marzocchi, Alfred, and Caroselli. 2,938,812.  
Marzocchi, Alfred, and Janetos. 2,931,739.  
Marzocchi, Alfred, and Janetos. 2,951,772.  
Marzocchi, Alfred, Rammel, and Charon. 2,961,821.  
Morgan, Willard L. 2,953,849.  
Morrison, Albert R. 2,936,479.  
Muttart, Lawrence E. 2,953,834.  
Rachlin, Joel R. 2,937,589.  
Rees, Willis M., and Schultz. 2,962,385.  
Russell, Robert G. 2,919,970.



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- Russell, Robert G. 2,947,489.  
 Siefert, August C., and Stalego. 2,921,342.  
 Stalego, Charles J. 2,935,127.  
 Stalego, Joseph P. 2,931,738.  
 Stalego, Joseph P. 2,941,899.  
 Stalego, Joseph P. 2,941,904.  
 Slayter, Games. 2,947,027.  
 Slayter, Games. 2,947,028.  
 Slayter, Games. 2,951,316.  
 Slayter, Games. 2,961,758.  
 Slayter, Games, Warden, and Mercer. 2,927,621.  
 Walker, Frederick W. 2,938,737.  
 Whitehurst, Harry B. 2,920,981.  
 Whitehurst, Harry B. 2,932,071.  
 Whitehurst, Harry B., and Otto. 2,928,716.  
 Whitehurst, Harry B., and Otto. 2,963,739.  
 Owens, Freeman H. Camera. 2,931,282, 4-5-60, Cl. 95-31.  
 Owens, Howard V., to The Celon Co. Tear strip for seals. 2,954,139, 9-27-60, Cl. 215-38.

Owens-Illinois Glass Co.: *See*—

- Adams, Elmer L., and Gasmire. 2,943,349.  
 Allen, Richard C., and Miller. 2,950,671.  
 Aubry, Richard M. 2,955,395.  
 Augsburger, Herbert M. 2,932,921.  
 Babcock, Clarence L., and McDavitt. 2,961,328.  
 Baker, Theodore C. 2,963,821.  
 Barnby, Herbert A. 2,931,147.  
 Beck, Basil D. Sr., and Swain. 2,923,635.  
 Bivens, Paul E., and Schaefer. 2,925,801.  
 Bjering, Olav. 2,950,842.  
 Bjering, Olav, and Hohl. 2,942,394.  
 Chapman, George C. 2,950,569.  
 Cooke, Charles C., and McCormick. 2,958,160.  
 Denman, Robert R. 2,958,159.  
 Downs, Samuel M. 2,936,879.  
 Franc, Josef, and Logiudice. 2,962,383.  
 Garman, Edward B. 2,920,757.  
 Greene, Joseph F., and Hinson. 2,947,117.  
 Greene, Joseph F., and McCallum. 2,947,615.  
 Hagedorn, Erwin C., and Hall. 2,965,503.  
 Hall, Everett, and Walsh. 2,953,269.  
 Hamilton, Joseph C. 2,957,223.  
 Harmon, Shepard L., and Hohl. 2,950,587.  
 Harmon, Shepard L., and Hohl. 2,962,060.  
 Hohl, John. 2,959,847.  
 Hohl, John, and Mumford. 2,953,271.  
 Johnson, John R. 2,925,030.  
 Johnson, John R. 2,928,521.  
 Johnson, Robert D. 2,966,260.  
 Keefer, George E. 2,933,545.  
 Keefer, George E. 2,953,613.  
 Keefer, George E. 2,960,555.  
 Landis, Paul A. 2,936,539.  
 Lauck, Albert G. 2,926,458.  
 Lauck, Albert G. 2,955,383.  
 Marino, Joseph A., and Mayer. 2,944,723.  
 McDavitt, Murray, and Vincent. 2,941,393.  
 McCormick, Francis A., and Maze. 2,958,882.  
 McWhorter, William E. 2,920,808.  
 Medert, Warren C., and Wonders. 2,920,556.  
 Miller, John G., and Rex. 2,953,817.  
 Montague, Charles H. 2,958,390.  
 Mumford, Eustace H. 2,928,214.  
 Mumford, George V. 2,921,343.  
 Mumford, George V. 2,953,814.  
 Mumford, George V., and Sherman. 2,943,348.  
 Mumford, George V., and Soubier. 2,958,907.  
 Mumford, George V., and Whitney. 2,953,272.  
 Nowak, Edward A. 2,956,499.  
 Olson, Ralph H., and Trudeau. 2,949,701.  
 Pfander, Lawrence V. 2,928,967.  
 Phillips, Leonard G. 2,937,391.  
 Pinotti, Alfred D. 2,926,459.  
 Pinotti, Alfred D. 2,941,335.  
 Randlett, Edward A. 2,946,471.  
 Santell, T. Robert, and Erard. 2,948,636.  
 Schaefer, Earl F. 2,926,101.  
 Schaich, Wilbur A. 2,964,795.  
 Selbert, Charles F. 2,921,664.  
 Sherman, Orville B. Re. 24,784.  
 Sherman, Orville B. 2,936,489.  
 Sherman, Orville B. 2,940,121.  
 Sherman, Orville B. 2,944,288.  
 Sherman, Orville B. 2,951,261.  
 Sherman, Orville B. 2,960,425.  
 Siebenthal, Kirby, and Jackson. 2,939,249.  
 Silverman, William B. 2,955,384.  
 Silverman, William B. 2,955,948.  
 Smith, William E. 2,955,024.  
 Soubier, Leonard D. 2,954,588.  
 Stark, Charles H. 2,947,267.  
 Strzala, Kazimer A. 2,937,749.  
 Swain, Arthur B. 2,923,634.  
 Thomson, John W., Jr. 2,950,814.  
 Torok, Julius J. 2,953,483.  
 Trudeau, Urban P. 2,926,457.  
 Veres, Frank. 2,920,785.  
 Veres, Frank. 2,931,142.  
 Veres, Frank. 2,936,923.  
 Vincent, Harvard B. 2,959,493.  
 Wallace, Robert T. 2,936,920.  
 Whitney, Ralph H. 2,921,724.  
 Wilkins, Colbert W. 2,926,829.

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- Wilson, James C. 2,950,039.  
 Wilson, James C. 2,955,733.  
 Zink, Harold F. 2,943,355.  
 Owens, Ralph H. Vehicle safety device. 2,923,559, 2-2-60, Cl. 280-150.  
 Owens, Ralph V., Sr. Preference tab counter for addressograph machines. 2,926,847, 3-1-60, Cl. 235-92.  
 Owens, Robert G.: *See*—  
 Dear, John C., Owens, and Gulley. 2,919,647.  
 Owens, Thomas M. Removing impurities from fluid suspensions. 2,949,187, 8-16-60, Cl. 209-2.  
 Owens, William V., to Paper Sacks Ltd. Multiply paper bags. 2,956,724, 10-18-60, Cl. 229-66.  
 Owner, Frank M.: *See*—  
 Halford, Frank B., Owner, and Clarke. 2,926,489.  
 Owings, Franklin F.: *See*—  
 Niederhauser, Warren D., Broderick, and Owings. 2,964,557.  
 Owsiak, Joseph. Quick detachable adjustable bracket for curtain rods. 2,927,762, 3-8-60, Cl. 248-262.  
 Ox Fibre Brush Co., Inc.: *See*—  
 Lundgren, Eric. 2,922,179.  
 Oxberry, John W.: *See*—  
 Blank, Fritz A., and Oxberry. 2,950,647.  
 Oxberry, John W.,  $\frac{1}{2}$  to A. K. Livingston and  $\frac{1}{2}$  to Longines-Wittnauer Watch Co., Inc. Combined camera and projector. 2,943,535, 7-5-60, Cl. 88-17.  
 Oxenham, John K.: *See*—  
 Graham, Reginald, and Oxenham. 2,945,087.  
 Oxenham, John K., to Sylvania-Thorn Colour Television Laboratories Ltd. Indexing in color television receivers. 2,960,564, 11-15-60, Cl. 178-54.  
 Oxford Filing Supply Co., Inc.: *See*—  
 Jonas, Frank D., and Patterson. 2,935,204.  
 Oxford International Corp.: *See*—  
 Propst, Matthias J. 2,931,028.  
 Oxford, Ltd.: *See*—  
 Dutmers, James E. 2,962,334.  
 Oxford Paper Co.: *See*—  
 Perkins, Glenn H. 2,930,317.  
 Oxley, Le Roy V., and C. M. Blythe, to Robotyper Corp. Convertible valve structure. 2,947,320, 8-2-60, Cl. 137-271.  
 Oxley, Leroy V., C. M. Blythe, and M. Popovich, to Robotyper Corp. Scoring mechanism for automobile races and the like. 2,958,567, 11-1-60, Cl. 346-14.  
 Oxy-Catalyst, Inc.: *See*—  
 Adey, Wilfred M. 2,933,080.  
 Calvert, Willard R. 2,937,490.  
 Houdry, Eugene J. 2,921,033.  
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 Bruno, Frederic J. 2,956,301.  
 Oy, Kaukas Ab.: *See*—  
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 Ikavalko, Erkki. 2,934,142.  
 Oyler, Glenn W.: *See*—  
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 Ozai-Durrani, Ataulah K. Process for preparing quick cooking rice. 2,937,946, 5-24-60, Cl. 99-80.  
 Ozark-Mahoning Co.: *See*—  
 Gilliland, Joe E., Ray, and White. 2,924,508.  
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 Ozlek, Leon F. Caddy golf carts. 2,926,925, 3-1-60, Cl. 280-42.  
 Ozor, Louis. Device for intucking the mouths of paper bags. 2,925,699, 2-23-60, Cl. 53-371.  
 P & D Sales Co.: *See*—  
 Rutten, Peter. 2,962,151.  
 P. D. & P. Processing Inc.: *See*—  
 Hobson, Frank B. 2,947,670.  
 PGAC Development Co.: *See*—  
 Le Bus, Jake H. 2,927,534.  
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 P-M Associates: *See*—  
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 PRD Electronics, Inc.: *See*—  
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 Paajanen, Erkki. Auxiliary crank for a screw driver. 2,938,555, 5-31-60, Cl. 145-61.  
 Paalu, Alex, to A. O. Smith Corp. Speed and acceleration detection of a rotating shaft. 2,944,419, 7-12-60, Cl. 73-116.  
 Paar, Josef. Impedance bridge arrangements. 2,931,957, 4-5-60, Cl. 317-153.  
 Paasche Co.: *See*—  
 Paasche, Jens A. 2,929,566.  
 Paasche, Jens A., to Paasche Co. Cooling method and apparatus for metal working. 2,929,566, 3-22-60, Cl. 239-273.  
 Pabcor, Inc.: *See*—  
 Covert, Kenneth B., Park, and Brist. 2,931,733.  
 Pabst Brewing Co.: *See*—  
 Stern, Robert M. 2,923,666.



- Pabst, Richard E. Rotary pump. 2,922,378, 1-26-60, Cl. 103-130.
- Pabst, Walter W., and H. F. Buschow. Dust collector. 2,927,659, 3-8-60, Cl. 183-19.
- Pacaud, Bernard F. D.: See—  
Davies, R. J., and Pacaud. 2,949,316.
- Pacault, Pierre H., and J. F. Tilleguin, to Babcock & Wilcox Ltd. Power plant including a gas-cooled nuclear reactor. 2,957,815, 10-25-60, Cl. 204-193.2.
- Pacciarini, Antonio: See—  
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- Pacciarini, Antonio, and D. Giletta, to Pirelli S.p.A. Machines for building pneumatic tires. 2,956,614, 10-18-60, Cl. 154-9.
- Pace, Anderson, Jr.: See—  
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- Pace, Charles J., and W. F. Scanlon, to Sylvania Electric Products Inc. Control shaft. 2,954,706, 10-4-60, Cl. 74-504.
- Pace, Clarence, Jr.: See—  
Moon, Volney W. 2,928,365.
- Pace, Frank P., to Bell Telephone Laboratories, Inc. Transistor ring counter with bistable stages. 2,957,091, 10-18-60, Cl. 307-88.5.
- Pace, Hartsel W. Expandable garment hanger. 2,954,150, 9-27-60, Cl. 223-95.
- Pace, Inc.: See—  
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- Pace Mfg. Co.: See—  
Hall, Gardner V. 2,936,705.
- Pace, William M., to H. L. Conner. Oil well fire extinguisher apparatus. 2,949,960, 8-23-60, Cl. 166-79.
- Pacey, John J., to Gilbert & Barker Mfg. Co. Hose mounting arrangement for liquid dispensing units. 2,930,514, 3-29-60, Cl. 222-530.
- Pachmayr, Frank A., and L. L. Huskey; said Huskey assor. to said Pachmayr. Shot pattern control device for shot guns. 2,922,242, 1-26-60, Cl. 42-79.
- Pacific Automation Products, Inc.: See—  
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- Witt, Russell E. 2,962,542.
- Pacific Car and Foundry Co.: See—  
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- Anderson, Emil E. 2,955,661.
- Henrikson, Thor O. 2,949,751.
- Kramer, Gideon, and Dickey. 2,926,040.
- Magnusson, Roland A. 2,950,765.
- Norrie, Robert C. 2,925,874.
- Norrie, Robert C. 2,937,881.
- Norrie, Robert C. 2,941,611.
- Norrie, Robert C. 2,943,693.
- Norrie, Robert C. 2,947,376.
- Stephens, Donald L. 2,950,764.
- Pacific Industrial Mfg. Co.: See—  
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- Pacific Lumber Co., The: See—  
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- Pacific Mercury Television Mfg. Corp.: See—  
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- Cutler, Stanley, and Hunt. 2,962,922.
- Cutler, Stanley, and Sanders. 2,963,564.
- Simons, Gerald F. 2,947,914.
- Pacific Pumping Co.: See—  
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- Pacific Scientific Co.: See—  
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- Mescher, Harold E., and Heyer. 2,954,789.
- Mescher, Harold E., and Rosensson. 2,954,997.
- Phelan, Charles S. 2,921,481.
- Phelan, Charles S. 2,934,971.
- Wrighton, Robert J., and Cushman. 2,921,480.
- Pacific Semiconductors, Inc.: See—  
Martin, Stephen. 2,962,363.
- Pacific Shoes, Inc.: See—  
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- Pacific Tool and Mfg. Co.: See—  
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- Dayton, Theodore S. and G. V. 2,926,020.
- Pacific Turning Unit Corp.: See—  
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- Pacific Wood Products Co.: See—  
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- Pacific States Box and Basket Co.: See—  
Paine, Herman, Jr. 2,924,926.
- Pack Mfg. Co.: See—  
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- Package Containers, Inc.: See—  
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- Package Homes Mfg., Inc.: See—  
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- Package Machinery Co.: See—  
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- Gross, Frank C. 2,928,370.
- Gross, Frank C. 2,940,235.
- Hoppe, William, and Schoppee. 2,934,119.
- Labine, Roland A. 2,930,173.
- Labine, Roland A. 2,934,338.
- Lucek, Walter, and Roberts. 2,952,957.
- Sloan, Francis J. 2,944,295.
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- Packaging Corp. of America: See—  
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- Kernan, James M. 2,922,302.
- Kernan, James M., and Lewis. 2,949,770.
- Rupp, Charles E. 2,950,038.
- Packard-Bell Electronics Corp.: See—  
Plass, Stanley. 2,957,082.
- Packard, Damon R., to AMP Inc. Wire crimping and stripping apparatus. 2,965,957, 12-27-60, Cl. 29-203.
- Packard, George D., to Engelhard Industries, Inc. Clamp for milling elongated workpieces. 2,965,007, 12-20-60, Cl. 90-11.
- Packard, George N.: See—  
Kolding, Aaron R., and Packard. 2,957,946.
- Packard, George N., to Bell Telephone Laboratories, Inc. Timing circuit. 2,957,945, 10-25-60, Cl. 179-15.
- Packard Instrument Co., Inc.: See—  
Packard, Lyle E., Scott, Mason, and Soderquist. 2,924,718.
- Packard, Karl S., to Cutler-Hammer, Inc. Microwave circuits. 2,964,718, 12-13-60, Cl. 333-73.
- Packard, Lyle E., W. S. Scott, E. B. Mason, and C. E. Soderquist, to Packard Instrument Co., Inc. Radioactivity measuring apparatus. 2,924,718, 2-9-60, Cl. 250-71.5.
- Packard, Mall. Hot-air furnace for domestic use. 2,961,220, 11-22-60, Cl. 257-171.
- Packard, Martin E.: See—  
Bell, William E., and Packard. 2,930,966.
- Bloom, Arnold L., and Packard. 2,922,947.
- Malling, Leonard R., Mansir, Nelson, and Packard. 2,944,212.
- Packer, Herbert: See—  
Herczog, Andrew, Packer, and Middleton. 2,959,499.
- Packers Package Co., Inc.: See—  
Durham, Philip F. 2,965,497.
- Packie, John W., and C. O. Rhys, Jr., to Esso Research and Engineering Co. Fluid hydroformer reactor distributor. 2,948,671, 8-9-60, Cl. 208-134.
- Packing Material Co., Inc.: See—  
Foster, Mitchell E. 2,965,276.
- Packman, Gordon: See—  
Mossop, Isaac A., Fay, and Packman. 2,945,955.
- Packman, Percival J., to The Plessey Co. Ltd. Mass production processes. 2,929,130, 3-22-60, Cl. 29-25.42.
- Packman, Percival J., to Baker Perkins Ltd. Apparatus for guiding moving articles. 2,955,697, 10-11-60, Cl. 198-34.
- Packman, Percival J., and D. C. Morton, to Baker Perkins Ltd. Apparatus for supporting and guiding substantially flat articles. 2,925,926, 2-23-60, Cl. 214-7.
- Packman, Percival J., and P. H. Morrison, to Baker Perkins Ltd. Apparatus for repositioning articles lying on a conveying surface. 2,955,698, 10-11-60, Cl. 198-34.
- Packwood, G. H., Mfg. Co.: See—  
Gianladis, James L. 2,948,686.
- Packwood, George H., and W. L. Wells, said Wells assor. to said Packwood. Granular soap dispensing apparatus. 2,924,358, 2-9-60, Cl. 222-239.
- Padberg, Louis R., Jr. Magnetostrictive electro-acoustical transducer. 2,961,638, 11-22-60, Cl. 340-11.
- Padberg, Louis R., Jr., F. D. Parker, and M. D. Papineau. High power short pulse transmitting apparatus. 2,948,879, 8-9-60, Cl. 340-1.
- Padbury, John J., W. M. Thomas, and W. H. Schuller, to American Cyanamid Co. High dry strength-low wet strength paper. 2,963,396, 12-8-60, Cl. 162-168.
- Paddock, Raymond E., to Ekco Products Co. Receptacle stacking device. 2,942,734, 6-28-60, Cl. 211-126.
- Paddock, William J., to Ega Electric Ltd. Electrical multi-contact devices. 2,956,139, 10-11-60, Cl. 200-166.
- Padek, Ted: See—  
Glazer, Morris, and Padek. 2,965,305.
- Padgett, Walter C., to Stewart-Warner Corp. Apparatus for indicating the true and relative bearings of incoming radio signals. 2,933,727, 4-19-60, Cl. 343-113.
- Padlo, Bernard J., to F. W. Gollbach. Folding ladders. 2,957,539, 10-25-60, Cl. 182-94.
- Padova, Heiman: See—  
Nicot, Georgette, nee Voillot. 2,952,345.
- Padovani, Carlo, and V. Berti. Process for removal of sulfur, metals and asphalt from petroleum crudes. 2,929,776, 3-22-60, Cl. 208-213.
- Padrick, John R., to J. I. Case Co. Trailing type tractor mounted implements. 2,966,217, 12-27-60, Cl. 172-137.
- Padula, Lawrence: See—  
Goepfrich, George A., and Padula. 2,956,728.
- Padula, Pasquale C., to The Carborundum Co. Metallized ceramics. 2,938,806, 5-31-60, Cl. 106-1.
- Padykula, John A. Captive cap construction. 2,965,260, 12-20-60, Cl. 220-30.5.
- Paerse, Cyril, 1/2 to Paerse-Laing Ltd. Machines for producing pile fabrics. 2,931,418, 4-5-60, Cl. 154-1.1.
- Paerse-Laing Ltd.: See—  
Paerse, Cyril. 2,931,418.
- Paetz, Robert A.: See—  
Compton, William A., Cummings, and Paetz. 2,950,083.
- Paffrath, Hans-Willi: See—  
Hoppe, Peter, and Paffrath. 2,927,876.
- Pagano, Frank, to Surelock Mfg. Co., Inc. U-shaped washers having retaining tabs. 2,933,970, 4-26-60, Cl. 85-8.8.



- Pagano, Joseph F., A. E. Temple, and H. Yacowitz, to Olin Mathieson Chemical Corp. Retarding the spoilage of meat products. 2,944,907, 7-12-60, Cl. 99—157.
- Pagdin, William G., to P. Ballantine & Sons. Apparatus for handling materials. 2,920,916, 1-12-60, Cl. 294—64.
- Page, Albert E., and H. L. Curtis, to Scott & Williams, Inc. Stitch length control mechanism for knitting machine. 2,963,887, 12-13-60, Cl. 66—54.
- Page, Anthony J., to Johns-Manville Corp. Non-burnishing flat paint. 2,941,891, 6-21-60, Cl. 106—148.
- Page, Clarence, to Page and Cox. Supporting means for cage series in chicken houses. 2,946,309, 7-26-60, Cl. 119—22.
- Page and Cox: *See*—  
Page, Clarence. 2,946,309.
- Page, Edward C., Jr., and R. W. Erling, to Henry Bower Chemical Mfg. Co. Copper hydrate-phosphorus complex and process for making same. 2,924,505, 2-9-60, Cl. 23—14.
- Page, Frank R., to Scott & Williams, Inc. Knitting machine magnetic controlled yarn tension. 2,949,757, 8-23-60, Cl. 66—146.
- Page, Franklin H., Jr.: *See*—  
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Du Fresnoe, Armand F., and Page. 2,959,454.
- Page, James A., to Delta Tank Mfg. Co., Inc. Portable storage plant. 2,936,910, 5-17-60, Cl. 214—17.
- Page, John R.: *See*—  
Page, Robert M. 2,948,893.
- Page, John S., Jr., to Page Oil Tools, Inc. Hydraulic tubing anchor for wells. 2,925,128, 2-16-60, Cl. 166—121.
- Page Oil Tools, Inc.: *See*—  
Page, John S., Jr. 2,925,128.
- Page, Paul F.: *See*—  
Lambert, Harry L., Page, and Snyder. 2,932,375.  
Snyder, Alton G., Lambert, and Page. 2,964,108.
- Page, Ralph E.: *See*—  
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Beattie, Horace S., Page, and Palmer. 2,966,660.
- Page, Raymond L., to Truckstell Mfg. Co. Load shifting suspension for tandem axles. 2,952,326, 9-13-60, Cl. 180—22.
- Page, Robert B.: *See*—  
Hinton, Raymond C. P., Page, and Larkin. 2,950,464.
- Page, Robert K., to North American Aviation, Inc. Electronic commutator. 2,964,657, 12-13-60, Cl. 307—88.5.
- Page, Robert M. Simultaneous lobe comparison, pulse echo locator system. 2,929,056, 3-15-60, Cl. 343—7.4.
- Page, Robert M., 8% to J. R. Page, 16% to G. G. Leaf, as trustee, 12% to L. R. Philpott, and 37½% to L. C. Young. Automatic range indicating system. 2,948,893, 8-9-60, Cl. 343—7.3.
- Page, Robert M. Missile guiding system. 2,950,474, 8-23-60, Cl. 343—7.
- Pagel, Warren C.: *See*—  
Martin, Albert F., Pagel, and Rambosek. 2,951,004.
- Pages, Alix: *See*—  
Fiehrer, Marcel, and Pages. 2,927,207.
- Pagnotti, Joseph R., and S. Barron, to Mineral Processing Corp. Separation of fine sized solids. 2,949,190, 8-16-60, Cl. 209—172.5.
- Pagnotti, Joseph R., and S. Barron, to Mineral Processing Corp. Separation of solids. 2,954,870, 10-4-60, Cl. 209—172.5.
- Pahl, Emil F. and J. G., to K-P-F Electric Co. Wire locating and holding device. 2,955,818, 10-11-60, Cl. 269—122.
- Pahl, James H., to Rodgers Hydraulic, Inc. Hydraulic pumps. 2,922,373, 1-26-60, Cl. 103—37.
- Pahl, John G.: *See*—  
Pahl, Emil F. and J. G. 2,955,818.
- Pahl, William: *See*—  
Tumath, Jack L. 2,950,025.
- Paholsky, Edward J.: *See*—  
Bayuk, Robert K., and Paholsky. 2,956,731.
- Pahud, George M.: *See*—  
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- Pahud, René, to La Fonte Electrique S.A. Process for the purification of alkali metal hypophosphite solutions containing alkali metal phosphites. 2,938,770, 5-31-60, Cl. 23—107.
- Paillard S.A.: *See*—  
Gagnebin, Gustave. 2,951,573.  
Vimic, Milorad. 2,936,131.
- Paillarse, Edmond M. B., to La Polymecanique. Method of machining tools, tool equipment for operating this or similar methods and tool according to those obtained. 2,938,104, 5-24-60, Cl. 219—69.
- Pain, William A. Globe support and orienting means. 2,957,252, 10-25-60, Cl. 35—46.
- Paine, Harold G. Lead angle solver. 2,924,882, 2-16-60, Cl. 33—98.
- Paine, Herman, Jr., to Pacific States Box and Basket Co. Device for covering containers. 2,924,926, 2-16-60, Cl. 53—135.
- Paine, Joseph L.: *See*—  
Baranowski, Frank, Jr., and Paine. 2,929,571.  
Harriman, Herbert A., and Paine. 2,924,769.
- Paine, Stanley W. T., to The A.P.V. Co. Ltd. Processing of brewers' wort. 2,948,617, 8-9-60, Cl. 99—52.
- Paine, William A., II. Apparatus and method for strain rod assembly and filament core. 2,935,709, 5-3-60, Cl. 338—2.
- Paine, William A., II. Electro-hydraulic servo and inverter system. 2,954,794, 10-4-60, Cl. 137—84.
- Painter, Clarence E.: *See*—  
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- Painter, Delbert J., to General Electric Co. Unbalance sensing arrangement for machines having a centrifugal liquid extraction step. 2,943,472, 7-5-60, Cl. 68—12.
- Painter, Giles W., to Lord Mfg. Co. Resilient mounting. 2,926,881, 3-1-60, Cl. 248—358.
- Painter, Giles W., to Lord Mfg. Co. Resilient mounting. 2,955,795, 10-11-60, Cl. 248—358.
- Painter Mfg. Co.: *See*—  
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- Painter, Peter C., to Painter Mfg. Co. Bar conveyor with pockets. 2,942,722, 6-28-60, Cl. 198—195.
- Painton and Co. Ltd.: *See*—  
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- Paitechell, Harold: *See*—  
Schneider, Abe, and Paitechell. 2,936,518.
- Paivinen, John O.: *See*—  
Einhorn, Sidney N., Hoberg, Paivinen, and Weise. 2,932,011.
- Meyerhoff, Albert J., and Paivinen. 2,952,007.
- Pajak, Theodore P., to Hexcel Products Inc. Flexible wave guide. 2,923,902, 2-2-60, Cl. 333—95.
- Pajenkamp, Horst, A. Russ, H. zur Strassen, K. Meyer, and H. Rausch, to Dyckerhoff Zementwerke Aktiengesellschaft, and Metallgesellschaft Aktiengesellschaft. Process for manufacturing white cement. 2,945,688, 7-19-60, Cl. 263—53.
- Pajes, Wolf S. Curved reflector. 2,952,189, 9-13-60, Cl. 88—73.
- Pakan, John J., to United States of America, Army. Wave-form generator. 2,934,654, 4-26-60, Cl. 250—233.
- Pakish, Anthony E., F. A. Pence, and W. Langer, to General Electric Co. Mount making apparatus. 2,932,877, 4-19-60, Cl. 29—25.2.
- Pako Corp.: *See*—  
Sardeson, Robert. 2,925,246.  
Sardeson, Robert, and Miller. 2,934,000.
- Pal, Jozsef, to "Licencia" Talamanyokat Ertekesito Vallalat. Apparatus for moving parts of machinery on a support. 2,942,385, 6-28-60, Cl. 51—170.
- Palat, Karel: *See*—  
Sekera, Ales, Palat, Borovansky, and Sova. 2,933,519.
- Palay, Morley: *See*—  
Palay, Robert and M. 2,941,669.
- Palay, Robert and M. Rotary display stand. 2,941,669, 6-21-60, Cl. 211—1.6.
- Palazzo, Dominic F., and W. C. Schreiner, to The M. W. Kellogg Co. Gas separation. 2,940,270, 6-14-60, Cl. 62—17.
- Palazzo, Dominic F., and W. C. Schreiner, to The M. W. Kellogg Co. Gas separation. 2,956,410, 10-18-60, Cl. 62—13.
- Palazzo, Fortunato: *See*—  
Alessandrini, Maria E., and Palazzo. 2,937,193.
- Palazzo, Pietro V. Padlock for valves. 2,924,960, 2-16-60, Cl. 70—180.
- Palazzolo, Richard J.: *See*—  
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- Paldanius, Leo A. Windshield washer. 2,941,728, 6-21-60, Cl. 239—284.
- Paldino, Domenico, and S. Kachadoorian. Wire type slicing machine. 2,936,522, 5-17-60, Cl. 31—24.
- Palen, William E.: *See*—  
Doepel, Wallace A., Edgar, Gajda, and Palen. 2,946,298.
- Palermo, Antonio E. Flying motor scooter. 2,938,681, 5-31-60, Cl. 244—49.
- Palermo, Carmine J. Insulated dual container. 2,963,188, 12-6-60, Cl. 215—13.
- Palermo, Vincent J. Nail extractor. 2,957,676, 10-25-60, Cl. 254—22.
- Paley, Albert A. Knockdown container. 2,964,210, 12-13-60, Cl. 220—4.
- Paley, James J., and C. E. Rettig, to General Electric Co. Ignitron control circuits. 2,955,233, 10-4-60, Cl. 315—234.
- Palfreyman, Jack: *See*—  
Haworth, Lionel, and Palfreyman. 2,928,474.
- Paliz-Holding A.G.: *See*—  
Bräm, Walter. 2,958,214.
- Palkowski, Emil L. Device for remote operation of aerosol. 2,953,283, 9-20-60, Cl. 222—394.
- Palkowski, Henry W. Vane generating machine. 2,958,263, 11-1-60, Cl. 90—13.
- Pall Corp.: *See*—  
Pall, David B. 2,925,650.  
Pall, David B. 2,942,572.  
Pall, David B. 2,945,591.
- Pall, David B., to Pall Corp. Method of forming perforate metal sheets. 2,925,650, 2-23-60, Cl. 29—160.
- Pall, David B., to Pall Corp. Magnetic pressure indicator. 2,942,572, 6-28-60, Cl. 116—117.
- Pall, David B., to Pall Corp. Filter. 2,945,591, 7-19-60, Cl. 210—234.
- Pallenberg, Joseph C., and W. H. Petering, to Detrex Chemical Industries, Inc. Process for the separation of chlorinated hydrocarbon components. 2,952,713, 9-13-60, Cl. 260—654.
- Pallet Adapter Co., Inc.: *See*—  
Berry, Moses E. 2,935,283.



- Pallissard, Joseph W., to Identification, Inc. Hanger release. 2,930,510, 3-29-60, Cl. 221-289.
- Pallister, Thomas K., to Monsanto Chemicals Ltd. Process for the production of silicon tetrachloride. 2,942,950, 6-28-60, Cl. 23-205.
- Pallo, Karl. Fluid engines. 2,945,479, 7-19-60, Cl. 121-120.
- Pallotta, Arthur J., D. F. Bogdanski, and R. O. Thomas, to Basic Research Corp. Microorganism culture method and apparatus. Re. 24,822, 5-3-60, Cl. 47-58.
- Palm, Bernhard N., to Electra Motors, Inc. Transmission mechanism of the fluid shear type. 2,954,857, 10-4-60, Cl. 192-58.
- Palm, Clifford W., to Celanese Corp. of America. Process and apparatus for producing voluminous yarn. 2,942,402, 6-28-60, Cl. 57-34.
- Palm, Hermann, to F. Torwegge. Machine for working the edge of packs of veneers. 2,936,007, 5-10-60, Cl. 144-117.
- Palm, Hubert: *See—*  
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- Palmatier, Everett P., to Carrier Corp. Lubricant cooling system. 2,963,886, 12-13-60, Cl. 62-468.
- Palm, Rudolf, to Schwarzkopf Development Corp. Method for electrolytic thickness reduction of metal wires. 2,953,507, 9-20-60, Cl. 204-141.
- Palmer, Alex D. Ellipse guides. 2,933,818, 4-26-60, Cl. 33-174.
- Palmer, Alvin D. Protective wire wrapping and method for protecting electrical wires. 2,946,840, 7-26-60, Cl. 174-136.
- Palmer, Ansell W., to General Electric Co. Surge relief system for wattour meter. 2,922,953, 1-26-60, Cl. 324-110.
- Palmer, Charles E. Plastic container secured to card. 2,941,664, 6-21-60, Cl. 206-80.
- Palmer, Charles E. Method and apparatus for folding plastic sheet stock. 2,954,725, 10-4-60, Cl. 93-51.
- Palmer, Charles G., to Borg-Warner Corp. Linearizing indicating system. 2,926,247, 2-23-60, Cl. 250-27.
- Palmer, Charles H.: *See—*  
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- Palmer, Charles L., and C. F. Mills, Jr. Easel and horizontal projector photographic apparatus. 2,952,185, 9-13-60, Cl. 88-24.
- Palmer Chemical & Equipment Co., Inc.: *See—*  
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- Palmer, David A., to United States of America, Navy. Ball and socket antenna mounting. 2,955,288, 10-4-60, Cl. 343-779.
- Palmer, Delos M. Method of melting glass. 2,958,161, 11-1-60, Cl. 49-77.
- Palmer, Donald R., and R. H. Olson. Hydrofoil watercraft. 2,955,559, 10-11-60, Cl. 114-66.5.
- Palmer, Elmer D.,  $\frac{1}{2}$  to B. O. Mohr. Wheel and balancing device. 2,927,821, 3-8-60, Cl. 301-5.
- Palmer, Elton M., to Gulf Research & Development Co. Apparatus for controlling an analog computer. 2,931,567, 4-5-60, Cl. 235-61.6.
- Palmer, Elton M., W. E. Wickerham, and R. D. Wyckoff, to Gulf Research & Development Co. Amplitude record conversion apparatus. 2,928,070, 3-8-60, Cl. 340-15.
- Palmer, Everett S., Jr., to Phillips Petroleum Co. Stripping still-dephlegmator operation. 2,934,491, 4-26-60, Cl. 208-104.
- Palmer, Harley K.: *See—*  
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- Palmer, Harold C.: *See—*  
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- Palmer, Howard R.: *See—*  
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- Palmer, Jack, to The FR Corp. Method of producing a package. 2,937,481, 5-24-60, Cl. 53-39.
- Palmer, James C., to United States Steel Corp. Conductor roll and method of making the same. 2,958,742, 11-1-60, Cl. 191-1.
- Palmer, James F., and R. B. Turner, to Atomic Energy of Canada Ltd. Vapour leak detector. 2,947,166, 8-2-60, Cl. 73-40.7.
- Palmer, James P.: *See—*  
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- Palmer, John A.: *See—*  
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- Palmer, John A., to The Emerson Electric Mfg. Co. Limit valve. 2,922,439, 1-26-60, Cl. 137-622.
- Palmer, John E. Anti-friction drive means. 2,936,632, 5-17-60, Cl. 74-49.
- Palmer, John H.: *See—*  
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- Palmer, John S., to International Harvester Co. Control for liquid dispenser. 2,959,328, 11-8-60, Cl. 222-176.
- Palmer, John S., B. J. Shager, and J. N. Segura, to International Harvester Co. Implement control means. 2,943,584, 7-5-60, Cl. 111-67.
- Palmer, Leon E.: *See—*  
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- Palmer, Lewis E., and W. M. Parker, Jr., deceased (by E. M. Parker, executrix), to Union Insulating Co., Inc. Molded plastic outlet boxes with concealed knockouts. 2,959,633, 11-8-60, Cl. 174-50.
- Palmer, Montague and P., to The Lionel Corp. Selective electric motor control system. 2,963,985, 12-13-60, Cl. 104-151.
- Palmer, Philip: *See—*  
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- Palmer, Ralph L.: *See—*  
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Beattie, Horace S., Page, and Palmer. 2,966,660.
- Palmer, Reed A., to Westinghouse Electric Corp. Appliance. 2,926,234, 2-23-60, Cl. 219-44.
- Palmer, Richard C., to Allen B. Du Mont Laboratories, Inc. Cathode ray tube. 2,937,233, 5-17-60, Cl. 178-6.6.
- Palmer, Richard O.: *See—*  
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- Palmer, Robert H. Means and method for fleshing pelts. 2,933,914, 4-26-60, Cl. 69-20.
- Palmer, Robert T., to Westinghouse Electric Corp. Combined axial air gap motor and gas compressor. 2,947,467, 8-2-60, Cl. 230-117.
- Palmer, Kundlette K. Body attached writing accessory. 2,926,631, 3-1-60, Cl. 120-8.
- Palmer, Stanley, to Versil Ltd. Method and apparatus for producing insulating material. 2,958,919, 11-8-60, Cl. 28-1.
- Palmer, Vernon J.: *See—*  
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- Palmer, Walter M., and N. L. Larue, to Canadian Celanese Ltd. Artificial fiber production. 2,955,320, 10-11-60, Cl. 18-8.
- Palmer, William D., and J. Bronstein, to United States of America, Air Force. Termination of coaxial transmission lines. 2,965,858, 12-20-60, Cl. 333-22.
- Palmer, Winslow, to Seismograph Service Corp. Continuous wave navigation system. Re. 24,891, 10-25-60, Cl. 343-105.
- Palmer, Winslow, to Sperry Rand Corp. Sweep circuit. 2,929,658, 3-22-60, Cl. 315-27.
- Palmer, Winslow, to Sperry Rand Corp. Demodulator for a phase or frequency modulated signal. 2,930,892, 3-29-60, Cl. 250-27.
- Palmese, Samuel. Lateral insertion waste pipe connector having an oval hub. 2,937,889, 5-24-60, Cl. 285-31.
- Palmiter, Daniel A., to Shepherd Machinery Co. Airplane moving device. 2,920,845, 1-12-60, Cl. 244-50.
- Palmleaf, Herbert: *See—*  
Koehler, Albert T., Palmleaf, and Ross. 2,933,958.
- Palmquist, Philip V.: *See—*  
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- Palmquist, Philip V., and W. R. Beck, to Minnesota Mining & Mfg. Co. Glass beads hemispherically refectorized with metallic coating and compositions thereof. 2,963,378, 12-6-60, Cl. 106-193.
- Palmqvist, Fredrik T. E., to Aktiebolaget Separator. Continuous manufacture of soap. 2,946,813, 7-26-60, Cl. 260-417.
- Palmqvist, Fredrik T. E., and W. Hoffmann, to Aktiebolaget Separator. System for continuous operation of series connected hermetically closed centrifugal separators. 2,963,219, 12-6-60, Cl. 233-18.
- Palo, Maurice M., to The Astatic Corp. Phonograph stylus and holder therefor. 2,957,052, 10-18-60, Cl. 179-100.41.
- Palomino, Carlos, and J. V. Schmill. High voltage transmission line tower. 2,927,148, 3-1-60, Cl. 174-45.
- Palos, Gabor. Breech bolt moved by rifle grip. 2,919,513, 1-5-60, Cl. 42-16.
- Paltier Corp., The: *See—*  
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Skubic, Leroy F. 2,925,920.  
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Skubic, Leroy F. 2,953,340.
- Palumbo, Henry J., to Johns-Manville Corp. Porous ceramic plant husbandry equipment and methods of production thereof. 2,939,247, 6-7-60, Cl. 47-34.
- Palush, Louis J.: *See—*  
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- Pamphilon, George, to Johnson Gear & Mfg. Co., Ltd. Shaft drive structure. 2,944,440, 7-12-60, Cl. 74-665.
- Pan, Paul M., to General Electric Co. Loop antenna utilizing conductive cabinet. 2,950,479, 8-23-60, Cl. 343-702.
- Pan, Paul M., to General Electric Co. Variable transmission network. 2,951,996, 9-6-60, Cl. 333-9.
- Pan, Samuel C., and F. L. Weisenborn, to Olin Mathieson Chemical Corp. Synthesis of alkaloids. 2,964,451, 12-13-60, Cl. 195-81.
- Pan, Wen Y., to Radio Corp. of America. High frequency tuner having temperature compensating means. 2,959,743, 11-8-60, Cl. 331-66.
- Panagrossi, Ahmed, and R. L. Hauser, to The Connecticut Hard Rubber Co. Lamination or coating of fluorine-substituted polyethylenes with or on other substances. Re. 24,856, 8-9-60, Cl. 154-139.
- Panagrossi, Ahmed, R. L. Hauser, and F. C. Fusco, to The Connecticut Hard Rubber Co. Lamination or coating of fluorine-substituted polyethylenes with or on other substances. 2,945,773, 7-19-60, Cl. 117-138.8.
- Pan-Am Plastics Corp.: *See—*  
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- Pan American Petroleum Corp.: *See*—  
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 Gordon, Leon B., and Moote. 2,927,086.  
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- Pan American Refining Corp.: *See*—  
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- Panasewicz, Anton Z., to General Motors Corp. Cross beam assembly. 2,942,362, 6-28-60, Cl. 37-144.
- Pan-Atlantic Steamship Corp.: *See*—  
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- Pancherz, Hans J. J. Method of manufacturing sections and rods of glass fibre-reinforced plastic. 2,948,649, 8-9-60, Cl. 154-97.
- Pandia, Inc.: *See*—  
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- Panek, Julian R.: *See*—  
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- Panellit, Inc.: *See*—  
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- Panepinto, Frank W., to William Amer Co. Depilating pre-determined areas in leather preparation. 2,937,068, 5-17-60, Cl. 8-94.16.
- Panepinto, Gloria C., to Colgate-Palmolive Co. Dentifrice composition comprising an N-higher alkyl morpholine. 2,921,886, 1-19-60, Cl. 167-93.
- Panerai Giuseppe: *See*—  
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- Panerai, Maria and G. Indicator dials. 2,926,626, 3-1-60, Cl. 116-133.
- Panerai, Maria and G. Tight seal device. 2,954,665, 10-4-60, Cl. 58-90.
- Panborn Corp.: *See*—  
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- Panhard, Jean, to Societe Anonyme des Anciens Etablissements Panhard & Levassor. Variable-output hydraulic generator. 2,929,334, 3-22-60, Cl. 103-161.
- Panhard, Paul, to Societe Anonyme des Anciens Etablissements Panhard & Levassor. Universal joints in particular for automobile vehicle transmissions. 2,924,954, 2-16-60, Cl. 64-9.
- Panhard, Paul, to Societe Anonyme des Anciens Etablissements Panhard & Lessor. Foot operable control device for an automobile vehicle. 2,951,567, 9-6-60, Cl. 192-3.
- Panici, Richard L., to Hampden Specialty Products, Inc. Mechanism for locking back of article of furniture in adjusted position. 2,949,155, 8-16-60, Cl. 155-139.
- Panici, Richard L., to Hampden Specialty Products, Inc. Tension mechanism for webbing. 2,964,099, 12-13-60, Cl. 155-187.
- Panissidi, Hugo: *See*—  
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- Panissidi, Hugo A.: *See*—  
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- Panissidi, Hugo A., to International Business Machines Corp. Hydraulic control apparatus. 2,935,046, 5-3-60, Cl. 121-38.
- Panissidi, Hugo A., and D. P. Darwin, to International Business Machines Corp. Hydraulic drive and control therefor. 2,922,399, 1-26-60, Cl. 121-40.
- Pankey, Lindsey D.: *See*—  
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- Pankey, William O. W., and R. A. Wasson. Apparatus for making precast concrete bridges or the like. 2,921,354, 1-19-60 Cl. 25-118.
- Pankonin, William G., to Ace Fastener Corp. Non-displaceable feeder mechanism for a stapling machine. 2,937,375, 5-24-60, Cl. 1-3.
- Pankove, Jacques I.: *See*—  
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- Pankove, Jacques I., to Radio Corp. of America. Method of producing rectifying junctions of predetermined shape. 2,937,960, 5-24-60, Cl. 148-15.
- Pankove, Jacques I., to Radio Corp. of America. Semiconductor devices. 2,940,022, 6-7-60, Cl. 317-235.
- Pankove, Jacques I., to Radio Corp. of America. Method of producing rectifying junctions of predetermined size. 2,962,396, 11-29-60, Cl. 148-15.
- Pankratz, A. J.: *See*—  
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- Pannell, Calvin E.: *See*—  
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- Pannell, Calvin E., to Shell Oil Co. Diester of an unsaturated monocarboxylic acid and a di(hydroxy) compound of a tetra-alkylbenzene, and polymers thereof. 2,965,622, 12-20-60, Cl. 260-85.5.
- Pannenberg, Anton E.: *See*—  
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- Panner, Edward J., to Bell Telephone Laboratories, Inc. Computing circuit. 2,920,826, 1-12-60, Cl. 235-176.
- Pannier Corp. The: *See*—  
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- Pannier, Ralph A., to The Pannier Corp. Carton printer. 2,929,318, 3-22-60, Cl. 101-231.
- Pannier, Ralph A., to The Pannier Corp. Flexible snap-on elastomer die. 2,943,567, 7-5-60, Cl. 101-377.
- Pannier, Ralph A., and G. E. Martin, to The Pannier Corp. Marker for cylindrical articles. 2,943,561, 7-5-60, Cl. 101-40.
- Pansing, William F.: *See*—  
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- Pantchechnikoff, Jacques I., now by change of name, J. I. Pankove, to Radio Corp. of America. High frequency semiconductor devices. 2,953,730, 9-20-60, Cl. 317-235.
- Pantke, Heinz-Dieter: *See*—  
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- Panyl, Levante: *See*—  
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- Panza, Eugene. Electric dry shaver having rotary operating blade means. 2,943,390, 7-5-60, Cl. 30-43.
- Panza, Joseph E., to The Powers Regulator Corp. Pneumatic control system. 2,966,143, 12-27-60, Cl. 121-41.
- Papa, Domenick: *See*—  
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- Papa, Domenick, to Schering Corp. X-ray diagnostic agent. 2,940,996, 6-14-60, Cl. 260-521.
- Papa, Paolo, and F. Capetti. Sheet reversing cylinder with blowing tubes for stop-cylinder printing machines. 2,931,647, 4-5-60, Cl. 271-74.
- Papa, Paolo, and F. Capetti, to Nebiolo S.p.A. Bed and cylinder printing machine of the two-revolution type. 2,938,457, 5-31-60, Cl. 101-283.
- Papacosta, Constantine G. Impact absorbing safety device. 2,929,637, 3-22-60, Cl. 280-29.
- Papadakis, Galen. Decalcomania kit for making models of aeroplanes and the like. 2,939,242, 6-7-60, Cl. 46-17.
- Papaleck, Robert J.: *See*—  
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- Papenguth, Loren R., to General Motors Corp. Horizontally operable hydraulic valve lifter. 2,938,508, 5-31-60, Cl. 123-90.
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- Paper Machinery Corp.: *See*—  
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- Papke, Friedrich, to Voigtlander A.G. Photographic view finder. 2,923,196, 2-2-60, Cl. 88-15.
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- Papo, Maurice, to International Business Machines Corp. Information recording control and check. 2,923,924, 2-2-60, Cl. 340-174.
- Papp, George: *See*—
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- Papp, George, to International Telephone and Telegraph Corp. Electron discharge device. 2,927,235, 3-1-60, Cl. 313-70.
- Pappas, Philip M. Portable motor driven filter pump. 2,953,097, 9-20-60, Cl. 103-87.
- Pappazoglu, Constantin, to Compagnie Industrielle des Telephones. System for setting telecommunication switches by marking. 2,938,958, 5-31-60, Cl. 179-18.
- Pappo, Raphael: *See*—
- Laos, Ivar, and Pappo. 2,933,511.
- Pappo, Raphael, to G. D. Searle & Co. 13-aldehydo and 13-carboxy-18-nor-4-pregnene-3,20-dione and derivatives thereof. 2,951,076, 8-30-60, Cl. 260-239.57.
- Papworth, Walter A. Power driven reciprocable cutting tool. 2,931,402, 4-5-60, Cl. 143-68.
- Papworth, Walter A. Portable power reciprocating saw. 2,961,016, 11-22-60, Cl. 143-68.
- Paquet, René: *See*—
- Leclercq, René, and Paquet. 2,926,148.
- Leclercq, René, and Paquet. 2,926,157.
- Leclercq, René, and Paquet. 2,947,714.
- Paquette, Elmer G. Pressure operated gun type liquid feed device. 2,929,355, 3-22-60, Cl. 119-51.
- Paquette, Merle W.: *See*—
- Karde, Klaus C., Paquette, and Putz. 2,926,975.
- Paquin, James H., to Burroughs Corp. Magnetic head switching system. 2,927,304, 3-1-60, Cl. 340-174.
- Parachutes Inc.: *See*—
- Istel, Jacques A., and Sanborn. 2,925,971.
- Paradise, Francis C., to Barrett-Cravens Co. Safety bumper for industrial truck. 2,920,713, 1-12-60, Cl. 180-83.
- Paradise Mfg. Co.: *See*—
- Baker, Bill P. 2,939,158.
- Paradise, Ronald Y.: *See*—
- Nye, Dudley D., and Paradise. 2,946,943.
- Paragon Electric Co.: *See*—
- Platt, George J. 2,920,594.
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- Hoagland, Kenneth A. 2,939,981.
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- Wieselman, Irving L., and Brown. 2,961,482.
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- Mathews, Robert M. 2,964,183.
- Parcell, Robert F., to Parke, Davis & Co. Heterocyclic compounds and methods for producing the same. 2,921,076, 1-12-60, Cl. 260-293.4.
- Parcell, Robert F., to Parke, Davis & Co. Phenylpiperazine compounds and process for producing the same. 2,922,788, 1-26-60, Cl. 260-268.
- Pardee, Edward L. E. Photographic film and paper processing machine. 2,933,032, 4-19-60, Cl. 95-89.
- Pardee, Edward L. E. Packaged tree. 2,934,204, 4-26-60, Cl. 206-46.
- Pardee, William A., to Gulf Research & Development Co. Process for producing olefins. 2,945,076, 7-12-60, Cl. 260-683.
- Pardo, Clay E., Jr.: *See*—
- Binkley, Charles H., and Pardo. 2,933,409.
- Moore, Joseph E., and Pardo. 2,925,317.
- Pardue, Don R.: *See*—
- Hedrich, Albert L., and Pardue. 2,921,467.
- Pardue, Turner E., to Motorola, Inc. Transistor process and product. 2,947,923, 8-2-60, Cl. 317-235.
- Pardue, Turner E., to Motorola, Inc. Semiconductor devices and methods of making the same. 2,947,924, 8-2-60, Cl. 317-235.
- Parechoc S.A.: *See*—
- Loretan, Edouard. 2,929,158.
- Matthey, Roger, and Schlatter. 2,958,998.
- Parekh, Rasiklal H.: *See*—
- Barnes, Brunner C., and Parekh. 2,945,073.
- Parenti, Gino, to Ottico Meccanica Italiana E Rilevamenti Aerofotogrammetrici-O.M.I.-Soc. p. Az. Enlargement changer for binocular viewing systems. 2,952,186, 9-13-60, Cl. 88-29.
- Parfrey, Francis T. Method of and means for forming hollow articles. 2,930,079, 3-29-60, Cl. 18-5.
- Parham, Charles L., Jr., and M. M. Martin; said Martin assor, to said Parham. Thermally insulating door. 2,924,860, 2-16-60, Cl. 20-35.
- Parham, Lee R., to Burlington Industries, Inc. Sock printing machine. 2,927,526, 3-8-60, Cl. 101-37.
- Parliaud, Jean-Charles: *See*—
- Paris, René, Parliaud, Bonny, and Dufour. 2,936,282.
- Parigian, Albert: *See*—
- Manos, Gus. 2,959,422.
- Parigini, Harry T. Disc computer. 2,943,789, 7-5-60, Cl. 235-88.
- Parigini, Harry T. Disc computer. 2,954,162, 9-27-60, Cl. 235-78.
- Paris, August F. Garment pressing and finishing apparatus. 2,948,444, 8-9-60, Cl. 223-67.
- Paris, August F. Steaming apparatus for fabrics and wearing apparel. 2,906,287, 12-27-60, Cl. 223-51.
- Paris, Francois G., J. H. Bertin, and B. J. M. Salmon, to Societe Bertin & Cie. Ram-jet unit. 2,944,391, 7-12-60, Cl. 60-35.6.
- Paris, René, J.-C. Parliaud, P. Bonny, and A. Dufour, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Method of isolating constituents of complex mixtures. 2,936,282, 5-10-60, Cl. 208-45.
- Parish, Fred: *See*—
- Dukes, John A., and Parish. 2,937,078.
- Parish, Richard L., Jr., and C. R. Bee, to American Flange & Mfg. Co., Inc. Closure and reversible spout assemblies for containers. 2,947,453, 8-2-60, Cl. 222-539.
- Parisi, Charles W., to Parker Metal Products Co. Hand tool for removing dents. 2,957,376, 10-25-60, Cl. 81-15.
- Parisi, Pasquale. Construction toy. 2,937,471, 5-24-60, Cl. 46-29.
- Parisi, Roger. Apparatus for automatically making and delivering ice cream. 2,931,193, 4-5-60, Cl. 62-342.
- Park, Arthur, to The Dow Chemical Co. Control of swelling of silicates. 2,961,400, 11-22-60, Cl. 252-8.55.
- Park, Arthur D., to Armstrong Cork Co. Method of making an acoustical panel. 2,931,736, 4-5-60, Cl. 117-9.
- Park, Arthur L., to Saco-Lowell Shops. Slasher. 2,927,363, 3-8-60, Cl. 28-28.
- Park, Harry B.: *See*—
- Richardson, Arthur E. 2,933,765.
- Park, John H. Tape dispenser. 2,926,807, 3-1-60, Cl. 216-22.
- Park, John L., Jr., to American Lava Corp. Method of making ceramic insulators. 2,952,877, 9-20-60, Cl. 18-47.5.
- Park, Kenneth J.: *See*—
- Fisher, Frank J., and Park. 2,930,997.
- Park, Robert E. Internal combustion engine. 2,944,533, 7-12-60, Cl. 123-13.
- Park, Robert H.: *See*—
- Glennon, James B., Park, Estes, and Klas. 2,941,493.
- MacDonald, Waldron S., Brown, Park, and Sindeband. 2,959,123.
- Sellman, Albert H., Park, Wallace, and Hobbs. 2,958,281.
- Park, Robert W.: *See*—
- Covert, Kenneth B., Park, and Brist. 2,931,733.
- Park, Rodney F., and R. D. Thomas, to Cutler-Hammer, Inc. Electric switch. 2,947,840, 8-2-60, Cl. 200-160.
- Park, Russell H., to Gower Mfg. Co. Materials handling and storage racks. 2,960,238, 11-15-60, Cl. 211-134.
- Park, William R. R., to The Dow Chemical Co. Process for preparing heat sealable films, composition useful therein and the articles produced thereby. 2,948,696, 8-9-60, Cl. 260-28.5.
- Park, William R. R., and R. D. Foley, to The Dow Chemical Co. Process for preparing heat sealable films. 2,955,054, 10-4-60, Cl. 117-72.
- Parke, Davis & Co.: *See*—
- Davoll, John, and Laney. 2,927,116.
- Ehrlich, John, Bartz, Dion, and Fusari. 2,965,547.
- Elslager, Edward F., and Worth. 2,925,417.
- Hoefle, Milton L., and Meyer. 2,949,466.
- Moore, Alexander M., and De Wald. 2,965,634.
- Moore, Alexander M., and De Wald. 2,965,635.
- Moore, Alexander M., and De Wald. 2,965,636.
- Moore, Alexander M., De Wald, Westland, Bartz, Dion, and Fusari. 2,965,633.
- Parcell, Robert F. 2,921,076.
- Parcell, Robert F. 2,922,788.
- Westland, Roger D. 2,965,637.
- Parke, Franklin E.: *See*—
- Israelson, Arlo F., Parke, and Rossi. 2,939,568.
- Parke, Franklin E. Magnetic conveyors. 2,957,569, 10-25-60, Cl. 198-24.
- Parker, Alfred O.: *See*—
- Chow, Wen M., and Parker. 2,938,055.
- Parker, Alfred O., to American Cyanamid Co. Converter temperature control with fuel gas and steam injection. 2,955,925, 10-11-60, Cl. 23-288.
- Parker, Almon S., and M. P. Sweeney, to United Engineers & Constructors, Inc. Process for the pyrolysis of hydrocarbonaceous material. 2,939,893, 6-7-60, Cl. 260-679.
- Parker, Benjamin L. Photo print mounts. 2,963,809, 12-13-60, Cl. 40-158.
- Parker, Brooks O'C. Materials handling pallet and method of making same. 2,928,578, 3-15-60, Cl. 229-6.
- Parker, Brooks O'C. Portable pallet and method of fabricating it. 2,928,638, 3-15-60, Cl. 248-120.
- Parker, Cecil: *See*—
- Wright, Esmond P. G., and Parker. 2,942,332.
- Parker, Charles A., to Monroe Calculating Machine Co. Sequence switch. 2,959,658, 11-8-60, Cl. 200-166.
- Parker, Charles B., and P. D. Houston, Sr., deceased; by First American National Bank of Nashville, and P. D. Houston, Jr., co-executors. Vehicle brake system. 2,944,855, 7-12-60, Cl. 303-8.
- Parker, Charles O., to Rohm & Haas Co. Process for the preparation of dinitroacetates. 2,925,433, 2-16-60, Cl. 260-465.



- Parker, Charles O. Dinitrocyanoacetates. 2,925,434, 2-16-60, Cl. 260-465.
- Parker, Charles S., and A. Melville,  $\frac{1}{2}$  to Bleachers Association Ltd., and  $\frac{1}{2}$  to Bradford Dyers' Association. Ornamentation of fabrics. 2,919,484, 1-5-60, Cl. 26-69.
- Parker, Charles T., to Deere & Co. Material unloader with longitudinally shiftable shaft. 2,954,235, 9-27-60, Cl. 275-3.
- Parker, Clair F., Jr.: *See*—  
Kelleher, Kenneth S., and Parker. 2,946,999.
- Parker, Clarence D.: *See*—  
MacPherson, William G., and Parker. 2,956,047.
- Parker, Clarence E., to The Coe Mfg. Co. Sheet handling apparatus. 2,921,663, 1-19-60, Cl. 198-20.
- Parker, Clarence E., to The Coe Mfg. Co. Work loader for lathes and the like. 2,931,403, 4-5-60, Cl. 143-92.
- Parker, Clifford, to Ideal School Supply Co. Chart support ring. 2,945,594, 7-19-60, Cl. 211-46.
- Parker, Clive F.: *See*—  
Parker, Jack F. and C. F. 2,929,908.
- Parker, David R.: *See*—  
Hawtin, Selwyn G., Parker, and Downing. 2,943,946.
- Parker, Donald J.: *See*—  
Copping, Geoffrey P., Parker, and Barr. 2,950,675.
- Parker, Donald W., Jr.: *See*—  
Switzer, Joseph L., and Parker. 2,920,203.
- Parker, Earl E.: *See*—  
Bush, David C., and Parker. 2,950,262.
- Parker, Earl E., to Pittsburgh Plate Glass Co. Preparation of polyurethane resin foams using mixtures of tertiary amines and acid anhydrides as catalysts. 2,957,831, 10-25-60, Cl. 260-2.5.
- Parker, Edith M.: *See*—  
Palmer, Lewis E., and Parker. 2,959,633.
- Parker, Emory: *See*—  
Mack, Gerry P., and Parker. 2,938,013.  
Mack, Gerry P., and Parker. 2,938,877.
- Parker, Eric, to The Decca Record Co. Ltd. Radio antenna systems. 2,929,059, 3-15-60, Cl. 343-16.
- Parker, Eric, to The Decca Record Co. Ltd. Radio direction indicating systems. 2,944,255, 7-5-60, Cl. 343-106.
- Parker, Edwin D., and A. F. MacLean, to Celanese Corp. of America. Production of sorbic acid. 2,921,090, 1-12-60, Cl. 260-526.
- Parker, Ernest G., to International Telephone and Telegraph Corp. Omnidirectional beacon antenna. 2,928,087, 3-8-60, Cl. 343-106.
- Parker Feeders, Inc.: *See*—  
Walton, Robert L. 2,956,540.
- Parker, Frederick D.: *See*—  
Padberg, Louis K., Jr., Parker, and Papineau. 2,948,879.
- Parker-Hannifin Corp.: *See*—  
Badger, Everett H., Jr., and Brown. 2,923,314.  
Davies, Robert H. 2,931,378.  
Davies, Robert H. 2,931,381.  
Hartley, Emmett C. 2,961,713.  
Klamm, Carl E. 2,927,490.  
Klamm, Carl E. 2,938,565.  
Klamm, Carl E., and Boddy. 2,938,550.  
Le Clair, Camille C. S. 2,954,190.  
Menzell, Joseph F. 2,949,325.  
Schmohl, Leland H., and Currie. 2,965,395.  
Smith, Paul F. 2,955,857.  
Stanley, John H. 2,921,369.  
Tucker, Warren R. 2,933,285.  
Webster, William G. 2,928,412.
- Parker, Harold B., to Parker Refrigeration Development Co. Refrigeration system for delivery trucks. 2,957,317, 10-25-60, Cl. 62-186.
- Parker, Harry W., to Phillips Petroleum Co. In situ combustion of carbonaceous deposits. 2,930,598, 3-29-60, Cl. 262-3.
- Parker, Hermon M., to United States of America, Navy. Magnetically supported gyroscope. 2,919,583, 1-5-60, Cl. 74-5.
- Parker, Humphrey F.: *See*—  
Robins, Erford E., Parker, and Lerch. 2,925,298.
- Parker, Humphrey F., and E. E. Robins, to Columbus McKinnon Chain Corp. Chain powered conveyors. 2,947,264, 8-2-60, Cl. 104-172.
- Parker, Humphrey F., and E. E. Robins, to Evans Products Co. Hoist. 2,959,262, 11-8-60, Cl. 192-4.
- Parker, Jack F. and C. F., to Fordham Pressings Ltd. Electric kettles. 2,929,908, 3-22-60, Cl. 219-44.
- Parker, John M.: *See*—  
Wasson, Burton K., and Parker. 2,926,190.
- Parker, John R., to A. O. Smith Corp. Backbone-type vehicle frame. 2,939,719, 6-7-60, Cl. 280-106.
- Parker, Johnnie H. Shoe sole attachment. 2,930,148, 3-29-60, Cl. 36-15.
- Parker, Leon O., to San Francisco Research Corp. Prefabricated casts or mold and method for making the same. 2,960,984, 11-22-60, Cl. 128-91.
- Parker, Leslie K., to Telephone Mfg. Co. Ltd. Signal switched telecommunication circuits. 2,964,598, 12-13-60, Cl. 179-170.2.
- Parker, Levi C.: *See*—  
Stanley, Maurice E., and Parker. 2,941,876.
- Parker, Louis W. Inter-carrier television receiver. 2,937,232, 5-17-60, Cl. 178-5.8.
- Parker, Louis W. Television tuning indicator. 2,943,145, 6-28-60, Cl. 178-5.8.
- Parker, Louis W. Radiant energy heating apparatus. 2,943,174, 6-28-60, Cl. 219-10.47.
- Parker, Louis W. Regulated high voltage power supply. 2,943,256, 6-28-60, Cl. 321-16.
- Parker, Louis W. Shunts for printed circuit meters. 2,945,180, 7-12-60, Cl. 324-126.
- Parker, Louis W. Multiple reading instruments. 2,961,570, 11-22-60, Cl. 315-1.
- Parker Metal Products Co.: *See*—  
Parisi, Charles W. 2,957,376.
- Parker, Norman W., to Motorola, Inc. Color demodulator output controlled subcarrier oscillator. Re. 24,864, 8-30-60, Cl. 178-5.4.
- Parker, Norman H., and H. Mountjoy, to General American Transportation Corp. Stirring apparatus. 2,965,364, 12-20-60, Cl. 259-95.
- Parker Pen Co., The: *See*—  
Kersten, William H. 2,960,066.  
Philippi, John. 2,936,639.  
Wittebert, Frederick R., Spaulding, and Lawton. 2,935,044.
- Parker, Richard B., to Carnation Co. Powdered yeast product and method of making same. 2,921,854, 1-19-60, Cl. 99-96.
- Parker, Richard H.: *See*—  
Saurwein, Albert G., and Parker. 2,931,005.
- Parker, Richard W., and E. F. Oblinger, to Parker Sweeper Co. Power operated tool. 2,933,748, 4-26-60, Cl. 15-79.
- Parker, Richard W., and E. F. Oblinger, to Parker Sweeper Co. Readily removable debris receptacle for lawn sweeper. 2,939,717, 6-7-60, Cl. 280-47.26.
- Parker, Richard W., and E. F. Oblinger, to The Parker Sweeper Co. Lawn sweeping machine. 2,945,249, 7-19-60, Cl. 15-79.
- Parker Refrigeration Development Co.: *See*—  
Parker, Harold B. 2,957,317.
- Parker, Robert: *See*—  
Gravlee, Leland C., Jr. 2,942,604.
- Parker, Roy A. Mop holder. 2,959,802, 11-15-60, Cl. 15-147.
- Parker Rust Proof Co.: *See*—  
Andrade, Donald S. 2,927,046.  
Jenkins, Herbert A. H., Freeman, and King. 2,955,061.
- Parker Sweeper Co.: *See*—  
Parker, Richard W., and Oblinger. 2,933,748.  
Parker, Richard W., and Oblinger. 2,939,717.  
Parker, Richard W., and Oblinger. 2,945,249.
- Parker, Vincent E.: *See*—  
King, Rutledge F., Moak, and Parker. 2,956,169.
- Parker, Walter O.: *See*—  
Gay, Fred G., Jr., and Parker. 2,936,459.
- Parker, William M., Jr.: *See*—  
Palmer, Lewis E., and Parker. 2,959,633.
- Parker, Wilton E.: *See*—  
Collins, Jerome, MacInnes, and Parker. 2,953,416.
- Parker, Wilton E., and A. Silver, to The Garrett Corp. Mixing valve for gas turbine compressor. 2,932,452, 4-12-60, Cl. 236-12.
- Parkes, Ralph C. Drying machine. Re. 24,871, 9-27-60, Cl. 34-156.
- Parkes, Ralph C. Loop dryer for drying non-uniform sheet material. 2,951,698, 9-6-60, Cl. 271-2.2.
- Parkhurst, Douglas L., deceased (D. L. Parkhurst, Jr., executor of D. L. Parkhurst). Pressure-type tide recorder. 2,955,467, 10-11-60, Cl. 73-300.
- Parkhurst, Douglas L., Jr.: *See*—  
Parkhurst, Douglas L. 2,955,467.
- Parkhurst, Robert D. Apparatus for the practice and study of mathematical tables. 2,945,303, 7-19-60, Cl. 35-9.
- Parkin, Leslie, to United-Carr Fastener Corp. Fastener devices for securing a channel or like shape moulding strip to a support. 2,964,814, 12-20-60, Cl. 24-73.
- Parkinson, Morris D. Office organization board. 2,944,355, 7-12-60, Cl. 40-63.
- Parkinson, Russell W., to Maryland Shipbuilding and Drydock Co. Apparatus for condensing and deaerating. 2,956,784, 10-18-60, Cl. 257-43.
- Parkinson, Wayne M.: *See*—  
Hinz, Walter W., Stansbury, Parkinson, and Boutwell. 2,925,849.
- Parks-Cramer Co.: *See*—  
Granberry, Edgar H. 2,922,273.  
Hewitt, Woodrow W. 2,946,538.  
Holtzclaw, Grover B. 2,931,061.  
Powell, Benjamin S., Jr. 2,928,140.
- Parks, Edward C.: *See*—  
Koller, Edward J., and Parks. 2,937,022.
- Parks, George J., to Milprint, Inc. Method and apparatus for treating plastic materials. 2,939,956, 6-7-60, Cl. 250-49.5.
- Parks, Herman D., to Time, Inc. Combined sinusoidal drive mechanism. 2,943,505, 7-5-60, Cl. 74-394.
- Parks, Herman D., and R. W. Porter, to General Electric Co. System for feeding combustion fluids to rocket motors. 2,935,844, 5-10-60, Cl. 60-39.46.
- Parks, John H., to Caterpillar Tractor Co. Centrifugal governor. 2,961,229, 11-22-60, Cl. 264-3.
- Parks, Mercer H.: *See*—  
Knapp, Richard P., and Parks. 2,938,352.



- Parks, Mercer H., to Jersey Production Research Co. Off-shore apparatus and method of installing same. 2,959,016, 11-8-60, Cl. 61-63.
- Parks, Noble L.,  $\frac{1}{2}$  to R. A. Goodling, and  $\frac{1}{2}$  to W. L. Runge. Demountable cargo box for vehicles. 2,925,930, 2-23-60, Cl. 214-515.
- Parks, Robert F. Filling control device. 2,943,649, 7-5-60, Cl. 139-217.
- Parks, Robert R., and W. A. Weaver, to General Motors Corp. Safety steering wheel and horn blowing means. 2,946,869, 7-26-60, Cl. 200-61.57.
- Parks, Thomas B., to Jos. Schlitz Brewing Co. Glass composition colored by copper and tin, and method of manufacturing same. 2,922,720, 1-26-60, Cl. 106-52.
- Parks, Walter J., to The W. S. Tyler Co. Vibrating screening apparatus. 2,925,911, 2-23-60, Cl. 209-412.
- Parks, Walter J., to The W. S. Tyler Co. Rubber mounting unit. 2,962,254, 11-29-60, Cl. 248-358.
- Parlatore, Neal R.: See—
- Wheeler, Henry H., and Parlatore. 2,933,003.
- Parlin, David B., to Bigelow-Sanford Carpet Co., Inc. Machine for producing drawn loop pile fabric. 2,940,405, 6-14-60, Cl. 112-79.
- Parlour, A. Kenneth, to Tee-Pak, Inc. Regenerated cellulose structure and method of making same. 2,952,550, 9-13-60, Cl. 99-176.
- Parlyn, Inc.: See—
- Munro, Donald H. 2,961,234.
- Parmater, Lee W., and R. M. Cain. Portable ignition timing light. 2,959,711, 11-8-60, Cl. 315-224.
- Parmatic Engineering Ltd.: See—
- Gutkowski, Janiss. 2,955,712.
- Parmelee, Benjamin J. Centrifugal pulverizer. 2,919,864, 1-5-60, Cl. 241-253.
- Parmelee Pharmaceutical Co.: See—
- Moeller, William C., and Smith. 2,955,982.
- Parmenter, Charles R., and R. V. Lastrup, to Alpar Mfg. Co. Telescoping tower. 2,942,700, 6-28-60, Cl. 189-14.
- Parmerton, John A.: See—
- Cooper, Julius L., Feingold, and Parmerton. 2,922,929.
- Parmet, Bernard S., and H. Tyzack, to Motorola, Inc. Restorable fine tuner. 2,920,198, 1-5-60, Cl. 250-40.
- Parmet, Bernard S., and J. J. Krakora, Jr., to Motorola, Inc. Remote control system. 2,947,812, 8-2-60, Cl. 178-7.5.
- Parmet, Joseph. Automatic adjustable removable and washable mop cover. 2,942,287, 6-28-60, Cl. 15-247.
- Parnell, John: See—
- Newbold, William F., Power, and Parnell. 2,932,782.
- Parnell, John, to Minneapolis-Honeywell Regulator Co. Electrical signal power amplifier. 2,920,282, 1-5-60, Cl. 330-181.
- Parnell, John E., to E. I. du Pont de Nemours and Co. Process of introducing modifier into a polymer melt. 2,962,466, 11-29-60, Cl. 260-37.
- Parodi, Guilio L.: See—
- Henderson, Jack C., and Parodi. 2,934,238.
- Paroselli, Leopold,  $\frac{1}{2}$  to M. Ghia. X-Ray tubes. 2,948,822, 8-9-60, Cl. 313-56.
- Parot, Jean C., to Societe Nationale de Constructions Aeronautiques due Sud-Ouest. Aircraft load-release device. 2,921,501, 1-19-60, Cl. 89-1.5.
- Parow, Gunter O., to Syntron Co. Rectifier assemblies. 2,931,959, 4-5-60, Cl. 317-234.
- Parr, Keith. Vacuum control apparatus. 2,921,597, 1-19-60, Cl. 137-116.5.
- Parr, Russell D., and J. L. Otstot, to Carlisle Corp. Machine for building tires. 2,931,420, 4-5-60, Cl. 154-9.
- Parrack, Alvin L., to Texaco Inc. Method and apparatus for speed variation compensation in a recording system. 2,957,167, 10-18-60, Cl. 340-174.1.
- Parrack, Alvin L., to Texaco Inc. Apparatus related to seismic exploration. 2,960,176, 11-15-60, Cl. 181-5.
- Parraga, Alfredo J. Beverage making and dispensing apparatus. 2,939,380, 6-7-60, Cl. 99-283.
- Parre, Edwin: See—
- Stoner, Harry B., and Parre. 2,934,191.
- Stoner, Harry B., Parre, and McGary. 2,946,483.
- Stoner, Harry B., Parre, and Rogers. 2,934,613.
- Parre, Edwin, and F. A. Walter, to The Vendo Co. Price-change mechanism for coin-controlled vending machines. 2,925,163, 2-16-60, Cl. 194-55.
- Parrett, Dent, to Lambert Brake Corp. Actuator means for mechanically and hydraulically operated disc brakes. 2,937,721, 5-24-60, Cl. 188-72.
- Parrino, Vincent A.: See—
- Shapiro, Seymour L., Freedman, and Parrino. 2,926,165.
- Shapiro, Seymour L., Freedman, and Parrino. 2,937,172.
- Parris, Samuel R., to Burroughs Corp. Temperature stable transistor amplifier. 2,963,656, 12-6-60, Cl. 330-17.
- Parrish, Charles R. Tension screen. 2,931,436, 4-5-60, Cl. 160-328.
- Parrish, Clarence E., to American Machine & Foundry Co. Cigarette turning apparatus. 2,923,397, 2-2-60, Cl. 198-33.
- Parrish, Clarence E., to American Machine & Foundry Co. Cigarette turn around device. 2,929,489, 3-22-60, Cl. 198-33.
- Parrish, Frank W., to International Rectifier Corp. Mounting arrangement. 2,923,869, 2-2-60, Cl. 317-234.
- Parrish, Frank W., and J. Eisler, to International Rectifier Corp. Cartridge assembly for rectifier. 2,922,091, 1-19-60, Cl. 317-234.
- Parrish, James E. Power device. 2,941,608, 6-21-60, Cl. 180-6.2.
- Parrish, Walter A., Jr.: See—
- Shallenberg, Robert L., and Parrish. 2,947,299.
- Parrish, Wilbert J., to United States Register Co. Register for heating and air conditioning systems. 2,935,926, 5-10-60, Cl. 98-110.
- Parrish, William C.: See—
- Waugh, Charles C., and Parrish. 2,934,897.
- Parrott, Clarence F. Mixing apparatus. 2,965,309, 12-20-60, Cl. 239-310.
- Parry, Forrest C., to International Business Machines Corp. Hydraulic positioning device. 2,927,432, 3-8-60, Cl. 60-54.5.
- Parry, Harvey L.: See—
- De Hoff, Ronald L., and Parry. 2,938,004.
- Parry, Robert D., 20% to C. B. Bolton, 10% to K. C. Bolton, and 20% to J. G. Sholes, Jr. Aircraft with ducted lifting fan. 2,953,320, 9-20-60, Cl. 244-12.
- Parry, Robert L.: See—
- Mills, Michael J., and Parry. 2,959,789.
- Parry, William L.: See—
- Mills, Michael J., and Parry. 2,959,789.
- Parse, Claude J.: See—
- Parse, Eugene R. and C. J. 2,944,279.
- Parse, Eugene R. and C. J. Depth finder for fishermen. 2,944,279, 7-12-60, Cl. 16-1.
- Parse, Kendrick T. Cabinet for merchandising packages of frozen food. 2,949,018, 8-16-60, Cl. 62-251.
- Parshall, Mills V.: See—
- Schjolin, Hans O., and Parshall. 2,936,864.
- Parske, Charles A.: See—
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- Parsons, C. A., & Co. Ltd.: See—
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- Patterson, John A., to Texaco Inc. Process for preparing ureas. 2,957,913, 10-25-60, Cl. 260-555.
- Patterson, John K. Strut servicing apparatus. 2,955,625, 10-11-60, Cl. 141-49.
- Patterson, Joseph A., and W. A. Bruce. Combination high and low pressure valve. 2,919,887, 1-5-60, Cl. 251-189.
- Patterson, Joseph A., and W. A. Bruce. Triple electrical seal vault. 2,927,453, 3-8-60, Cl. 72-7.
- Patterson, Joseph C., Jr.: See—
- Lienau, Carl C., and Patterson. 2,942,247.
- Patterson, Lawrence B.: See—
- Mazura, Louis P., and Patterson. 2,939,567.
- Patterson, Morehead, A. C. Wall, and G. G. Thiem, to American Machine & Foundry Co. Mechanism for arranging and aligning bowling pins. 2,932,512, 4-12-60, Cl. 273-43.
- Patterson, Morehead, to American Machine & Foundry Co. Bowling pin handling mechanism. 2,932,513, 4-12-60, Cl. 273-43.
- Patterson, Morehead, to American Machine & Foundry Co. Bowling ball return mechanism. 2,936,176, 5-10-60, Cl. 273-47.
- Patterson, Morehead, and C. E. Schon, to American Machine & Foundry Co. Bowling pin removing apparatus. 2,944,819, 7-12-60, Cl. 273-43.
- Patterson, Morton K., and R. L. Loofbourow. Refrigerated underground storage system. 2,932,170, 4-12-60, Cl. 61-5.
- Patterson, Omar L., to Sun Oil Co. Subtraction circuit. 2,930,982, 3-29-60, Cl. 328-158.
- Patterson, Orville L. Earring mounting. 2,964,927, 12-20-60, Cl. 63-14.
- Patteson, Perry B.: See—
- Aitken, William H., Connor, Haskell, and Patteson. 2,922,185.
- Patterson, Richard F. Articulated arm aerodynamic drag device. 2,960,291, 11-15-60, Cl. 244-113.
- Patterson, Richard Y.: See—
- Hale, Clarence A. 2,942,078.
- Patterson, Robeg G.: See—
- O'Mara, Richard F., and Patterson. 2,965,366.
- Patterson, Robert C., to Combustion Engineering, Inc. Apparatus and method for firing comminuted fuel. 2,941,517, 6-21-60, Cl. 122-235.
- Patterson, Roger W., to United States of America, Navy. Centrifugal switch. 2,936,352, 5-10-60, Cl. 200-80.
- Patterson, Roger W., to United States of America, Navy. Shock damping apparatus. 2,937,865, 5-24-60, Cl. 267-1.
- Patterson, Thomas G.: See—
- Starks-Field, Alfred B., and Patterson. 2,944,227.
- Patterson, V. C. & Associates, Inc.: See—
- Ruff, Alonzo W. 2,954,680.
- Patterson, William J.: See—
- Van Dolah, Delos B., and Patterson. 2,942,429.
- Pattilloch, Donald K., and C. Polowczyk, to Michigan Research Laboratories, Inc., and Electro-Chem Fiber Seal Corp. Sheet comprising leather fibers, ethylene oxidizedicyanamide condensation product and rubber latex and process for preparing same. 2,948,692, 8-9-60, Cl. 260-8.
- Pattilloch, Donald K., and C. Polowczyk, to Michigan Research Laboratories, Inc., and Electro-Chem Fiber Seal Corp. Grease-proof paper. 2,957,796, 10-25-60, Cl. 162-157.
- Pattison, Charley R., to Plains Athletic Mfg. Co. Water ski and swim belt. 2,950,489, 8-30-60, Cl. 9-340.
- Patison, Dexter B., to E. I. du Pont de Nemours and Co. Preparation of oxetanes. 2,924,607, 2-9-60, Cl. 260-333.
- Pattison, Walter T., to The Russell Auto-Feed Screwdrivers Ltd. Screw-driving machines. 2,932,332, 4-12-60, Cl. 144-32.
- Pattison, Walter T., to The Russell Auto-Feed Screwdrivers Ltd. Screw-driving machines. 2,955,630, 10-11-60, Cl. 144-32.
- Patton, Charles E.: See—
- Barbknecht, Fred W., and Patton. 2,934,878.
- Patton, Henry W., to Collins Radio Co. Autopilot monitor system. 2,941,193, 6-14-60, Cl. 340-248.
- Patton, Henry W., to Collins Radio Co. Transistor-controlled magnetic amplifier. 2,965,834, 12-20-60, Cl. 323-89.
- Patton, James O., Jr.: See—
- Daniel, Kenneth R., Farlow, Lowery, and Patton. 2,943,335.
- Patton, John T., and D. E. Trucker, to Wyandotte Chemicals Corp. Total chlorination of C<sub>4</sub> and higher aliphatic hydrocarbons. 2,960,543, 11-15-60, Cl. 260-655.
- Patton, John T., Jr., to Wyandotte Chemicals Corp. Separation of isopropanolamine from mixtures thereof with 2,5-dimethylpiperazine by azeotropic distillation. 2,940,975, 6-14-60, Cl. 260-268.
- Patton, John T., Jr., to Wyandotte Chemicals Corp. Binary emulsifiers. 2,944,030, 7-5-60, Cl. 252-356.
- Patton, Paul W.: See—
- Beecher, Norman, Hnilicka, Patton, and Walsh.
- Patton, Richard A.: See—
- Baugh, Charles, and Patton. 2,955,956.
- Patton, Tad L.: See—
- Johnson, William K., and Patton. 2,938,049.
- Patton, Theodore E., to American Enka Corp. Spun dyed yarn. 2,934,448, 4-26-60, Cl. 106-165.
- Patton, Wade H., W. H. Patton, Jr., and A. Roth, to Lanston Monotype Machine Co. Type casting and composing machines. 2,947,411, 8-2-60, Cl. 199-91.
- Patton, Wade H., Jr.: See—
- Patton, Wade H. and W. H. Patton, Jr., and Roth. 2,947,411.
- Patty, Clyde. Control for machines dispensing frozen products. 2,952,140, 9-13-60, Cl. 62-342.
- Patty, Clyde. Freezing cylinders. 2,962,879, 12-6-60, Cl. 62-342.
- Patty, Florence: See—
- McBroom, James C. 2,951,504.
- Patty, Harry R., Jr.,  $\frac{1}{2}$  to L. C. McClure. Tilttable and steerable dual propeller drive for boats equipped with inboard motors. 2,936,730, 5-17-60, Cl. 115-37.
- Patzelt, Harold I.: See—
- Mindick, Morris, and Patzelt. 2,957,206.
- Patzler, William A., to The Patten Co. Coin control device. 2,923,165, 2-2-60, Cl. 74-126.
- Patzler, William A., to S. B. Atwood. Coin device. 2,942,713, 6-28-60, Cl. 194-9.
- Patzler, William A., to S. B. Atwood. Test device for printed papers and elements of same. 2,957,387, 10-25-60, Cl. 88-14.
- Paukstela, Stanley: See—
- Chastaney, Ruth G., and Paukstela. 2,945,568.
- Paul, Adolf: See—
- Schmid-Nisoli, Theodor, Duerig, and Paul. 2,928,498.
- Paul, Albert P.: See—
- Tsang, Sien M., Lewis, and Paul. 2,938,908.
- Paul, Albert P., to Shell Oil Co. Conversion of hydrogen iodide to iodine. 2,965,452, 12-20-60, Cl. 23-216.
- Paul, Alex G., to Radio Steel & Mfg. Co. Scooter. 2,955,839, 10-11-60, Cl. 280-87.04.
- Paul, Charles E., 50% to L. Z. Paul. Motor actuated action toy. 2,928,207, 3-15-60, Cl. 46-118.
- Paul, Charles E., 50% to L. Z. Paul. Tumbler toy. 2,928,673, 3-15-60, Cl. 272-31.
- Paul, Francis V. F., to Societe anonyme dite: Pneumatiques & Caoutchouc Manufacture Kleber Colombes. Method of repairing a wire-reinforced conveyor belt. 2,955,065, 10-4-60, Cl. 154-104.
- Paul, Frank B., to General Motors Corp. Spark-plug socket wrench. 2,956,462, 10-18-60, Cl. 81-125.
- Paul, Frederick W., and V. F. Sepavich, to Crompton & Knowles Corp. Weft stop motion for loom. 2,962,056, 11-29-60, Cl. 139-336.
- Paul, Gerald R., to General Dynamics Corp. Key sender. 2,930,854, 3-29-60, Cl. 179-90.
- Paul, Gerald R., and C. R. Fisher, Jr., to General Dynamics Corp. Range selector (telegraph switching). 2,945,093, 7-12-60, Cl. 178-53.1.
- Paul, Herman J., Jr. Trailer hitch. 2,966,369, 12-27-60, Cl. 280-489.
- Paul, Herman L., Jr., and R. E. Taylor, Jr., to Paul Valve Corp. Regulating valve. 2,923,316, 2-2-60, Cl. 137-489.3.
- Paul, Hermann: See—
- Weber, Heinrich, and Paul. 2,930,783.
- Paul, James T., Jr.: See—
- Kouba, Delore L., Paul, and Stow. 2,951,746.
- Kouba, Delore L., Paul, and Stow. 2,951,877.
- Paul, Lena Z.: See—
- Paul, Charles E. 2,928,207.
- Paul, Charles E. 2,928,673.
- Paul, Millard N., to Union Carbide Corp. Process for preparing polyepoxide solder. 2,965,930, 12-27-60, Cl. 18-47.5.
- Paul, Milton. Combined sponge and metallic scouring pad. 2,941,225, 6-21-60, Cl. 15-118.
- Paul, Nancy C.: See—
- Clark, Carroll F., and Paul. 2,932,580.
- Paul, Nicholas. Price tag attachment for canned goods. 2,924,901, 2-16-60, Cl. 40-11.
- Paul, Theodore R. Banding or binding electrical rotors or armatures. 2,949,555, 8-16-60, Cl. 310-271.
- Paul Valve Corp.: See—
- Paul, Herman L., Jr., and Taylor. 2,923,316.
- Paul, Wolfgang, and H. Steinwedel; said Steinwedel assor. to Paul. Apparatus for separating charged particles of different specific charges. 2,939,952, 6-7-60, Cl. 250-41.9.
- Paul, Wolfgang, H.-P. Reinhard, and H. Frohlich,  $\frac{1}{2}$  to Siemens-Schuckertwerke Aktiengesellschaft,  $\frac{1}{2}$  to said P. Wolfgang. Method of separating ions of different specific charges. 2,950,389, 8-23-60, Cl. 250-41.9.
- Paulding, John I., Inc.: See—
- Bettencourt, Theodore R. 2,946,036.
- Paule, Kurt: See—
- Aldinger, Ulrich, and Paule. 2,941,524.
- Mittag, Hermann, and Paule. 2,958,033.
- Paule, Kurt, to Robert Bosch G.m.b.H. Regulating apparatus with diode for generator. 2,927,262, 3-1-60, Cl. 322-25.
- Paule, Kurt, and H. Knapp, to Robert Bosch G.m.b.H. Fuel injection system. 2,936,744, 5-17-60, Cl. 123-32.
- Pauli, Julius A., to Lockheed Aircraft Corp. Combined loading ramp and interior pressurization door for aircraft. 2,942,812, 6-28-60, Cl. 244-118.
- Paulison, William L., Jr., to Bailey Meter Co. Steam temperature control. 2,926,636, 3-1-60, Cl. 122-479.
- Pauli, Ambrose D., H. A. Kelly, Sr., and E. E. Culp, to Wheeling Stamping Co. Collapsible tube and insert therefor. 2,935,231, 5-3-60, Cl. 222-94.
- Pauli, Melvin. Signal system. 2,942,249, 6-21-60, Cl. 340-312.



- Paull, Peter L.: *See*—  
Teichmann, Charles F., Paull, 2,954,290.
- Paull, Peter L., to Texaco Development Corp. Generation of carbon monoxide and hydrogen. 2,932,561, 4-12-60, Cl. 48-215.
- Paulus, Clarence L., to Hillerich & Bradsby Co. Ball-striking implement. 2,944,820, 7-12-60, Cl. 273-72.
- Paulos, Harry: *See*—  
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- Pauls, Gerhard, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Process for manufacturing dense, extra pure silicon. 2,943,918, 7-5-60, Cl. 23-223.5.
- Pauls, Theron F.: *See*—  
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- Pauls, Theron F., to Olin Mathieson Chemical Corp. Sheet metal bending tool. 2,938,413, 5-31-60, Cl. 81-15.
- Pauls, Theron F., to Olin Mathieson Chemical Corp. Method of making a heat exchanger tube. 2,949,664, 8-23-60, Cl. 29-157.3.
- Paulsen, Albert L.: *See*—  
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- Atkinson, Frederick M., Paulsen, and Mattson. 2,946,626.
- Paulsen, Chris H. Muffer. 2,958,388, 11-1-60, Cl. 181-42.
- Paulsen, Hans C., to United Shoe Machinery Corp. Resin mixing machines. 2,954,214, 9-27-60, Cl. 259-8.
- Paulsen, Hans C., to B. B. Chemical Co. Means for coating flexible rod shaped material. 2,961,992, 11-29-60, Cl. 118-68.
- Paulsen, Hans C., to United Shoe Machinery Corp. Apparatus for applying pressure-sensitive adhesive to sheet material. 2,965,066, 12-20-60, Cl. 118-5.
- Paulsen, Henry A., to Brown & Bigelow. Depository calendar. 2,943,778, 7-5-60, Cl. 229-8.5.
- Paulsen, Henry C., to Esso Research and Engineering Co. Removal of nitrogen compounds from heating oil. 2,944,063, 7-5-60, Cl. 260-313.
- Paulsen, Jean-Felix, to Societe: Luxembourgeoise de Brevets et de Participations. Dynamic dampers. 2,926,546, 3-1-60, Cl. 74-574.
- Paulsen, Paul L., to Hamilton Mfg. Corp. Angle drafting group connection means. 2,928,703, 3-15-60, Cl. 312-111.
- Paulsen, Robert C., to International Business Machines Corp. Registration control. 2,943,194, 6-28-60, Cl. 250-27.
- Paulsen, Thorwell H., to Ashland Oil & Refining Co. Recovery and purification of benzene. 2,951,886, 9-6-60, Cl. 260-674.
- Paulsen, Thorwell H., and C. D. Hoertz, to Ashland Oil & Refining Co. Preparation of cyclohexane. 2,934,573, 4-26-60, Cl. 260-667.
- Paulson, Arthur W., and A. Fabula, to Otis Elevator Co. Hydraulic control system for elevators. 2,946,319, 7-26-60, Cl. 121-41.
- Paulson, Elmir E.: *See*—  
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- Paulson, Elmir E., to General Electric Co. Turbo-machine rotor. 2,922,618, 1-26-60, Cl. 253-39.
- Paulson, Harold E. Side guide register for sheet feeders. 2,938,723, 5-31-60, Cl. 271-49.
- Paulson, Rueben E.: *See*—  
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- Paulson, William A., to Barber-Colman Co. Transmitter for a remote control system. 2,932,733, 4-12-60, Cl. 250-17.
- Paulson, William A., to Barber-Colman Co. Power operator. 2,945,393, 7-19-60, Cl. 74-472.
- Paulton, Richard A., to The Cincinnati Milling Machine Co. Metal forming press. 2,937,606, 5-24-60, Cl. 113-45.
- Paulus, Edward F., to Roto-Tork Mfg. Co. Speed control for oscillating hydraulic motors. 2,941,513, 6-21-60, Cl. 121-38.
- Paulre, Marcel-Luc-Amedee. Method of connecting rails, rail-connecting devices and rails obtained therefrom. 2,950,059, 8-23-60, Cl. 238-230.
- Pauquet, Andre, to S. A. Emboutissage et Usinage de Saint-Denis. Hydraulically controlled driving arrangement for movable members. 2,953,121, 9-20-60, Cl. 121-45.
- Pause, Carl W.: *See*—  
Hechenbleikner, Ingenuin, and Pause. 2,960,463.
- Pautze, Hermann. Ticket printer. 2,960,027, 11-15-60, Cl. 101-235.
- Pavelka, Joseph, Jr. Food server. 2,942,926, 6-28-60, Cl. 312-270.
- Pavelka, Viliam: *See*—  
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- Paveza, Charles, to The Forfmit Co. Brassiere. 2,949,916, 8-23-60, Cl. 128-489.
- Pavia, Charles. Auxiliary comminutor. 2,941,561, 6-21-60, Cl. 146-182.
- Pavian, Henry C., to United States of America, Navy. Stabilizing device. 2,943,568, 7-5-60, Cl. 102-7.
- Pavlake, Miloslav: *See*—  
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- Pavlecka, John. Airfoil structure. 2,959,383, 11-8-60, Cl. 244-124.
- Pavlecka, John. Airfoil structure. 2,959,384, 11-8-60, Cl. 244-124.
- Pavlecka, Vladimir H., to American Machine & Foundry Co. Dynamic steam cycle. 2,939,286, 6-7-60, Cl. 60-73.
- Pavlecka, Vladimir H., to American Machine & Foundry Co. Combustion chambers for gas turbine power plants. 2,944,397, 7-12-60, Cl. 60-39.36.
- Pavlecka, Vladimir H., to American Machine & Foundry Co. Supersonic centripetal compressor. 2,949,224, 8-16-60, Cl. 230-124.
- Pavlic, Mary C., to The Hoover Co. Continuous method of and apparatus for making extensible and flexible hose. 2,963,749, 12-13-60, Cl. 18-59.
- Pavlic, Mary C., to The Hoover Co. Electrically conductive extensible hose. 2,963,750, 12-13-60, Cl. 18-59.
- Pavlovic, Dusan, and K. Foster, to Westinghouse Electric Corp. Magnetic products of high aluminum iron alloys. 2,937,115, 5-17-60, Cl. 148-121.
- Pawlek, Franz, to Licentia Patent-Verwaltungs-G.m.b.H. Permanent magnet material. 2,927,898, 3-8-60, Cl. 252-62.5.
- Pawley, Myron G., to United States of America, Navy. Multichannel pulse modulated data transmission system. 2,928,900, 3-15-60, Cl. 179-15.
- Pawley, Myron G., to United States of America, Navy. FM/FM-PWM telemetering decommutator. 2,929,051, 3-15-60, Cl. 340-182.
- Pawlicki, Stefan S., to Worthington Corp. Twin volute pump. 2,955,540, 10-11-60, Cl. 103-103.
- Pawlikowski, Edward T., to Rockwell-Standard Corp. Spring cushion construction. 2,934,133, 4-26-60, Cl. 155-179.
- Pawlowski, Juri: *See*—  
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- Pawlowski, Walter F. Control apparatus for air-operated devices. 2,922,594, 1-26-60, Cl. 242-75.53.
- Pawlowski, Wilfried: *See*—  
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- Paxton, Charles E.: *See*—  
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- Paxton, Charles N., to United States of America, Air Force. Missile launcher adapter. 2,940,362, 6-14-60, Cl. 89-1.7.
- Paxton, Douglas R., to D. L. Bennett. Emergency shut-off valve. 2,934,617, 4-26-60, Cl. 200-61.96.
- Paxton, Ralph R., W. R. Shobert, and R. C. Hachert, to Pure Carbon Co., Inc. Carbon rupture disk. 2,952,383, 9-13-60, Cl. 220-89.
- Payne, Charles E.: *See*—  
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- Payne, Charles F. Wheeled conveyor for transportation containers. 2,932,527, 4-12-60, Cl. 280-43.24.
- Payne, Charles F. Transportation container. 2,956,699, 10-18-60, Cl. 214-515.
- Payne, Edwin L. Measurement of the modulation voltages of a radiated high-frequency carrier. 2,924,790, 2-9-60, Cl. 332-39.
- Payne, Edwin M.: *See*—  
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- Payne, Eric R., to The Austin Motor Co. Ltd. Overhead valve internal combustion engines. 2,929,368, 3-22-60, Cl. 123-55.
- Payne, Eric R., to The Austin Motor Co. Ltd. Overhead valve internal combustion engines. 2,944,536, 7-12-60, Cl. 123-55.
- Payne, Eric R., to The Austin Motor Co. Ltd. Overhead valve internal combustion engines. 2,963,010, 12-6-60, Cl. 123-55.
- Payne, Eugene L. Boat mooring. 2,945,468, 7-19-60, Cl. 114-230.
- Payne, George B.: *See*—  
Williams, Paul H., Payne, and Van Ess. 2,953,579.
- Payne, George B., to Shell Oil Co. Epoxidation of aldehydes. 2,947,761, 8-2-60, Cl. 260-348.5.
- Payne, George B., C. W. Smith, and P. R. Van Ess, to Shell Oil Co. Dialkyl ester of polycarboxylic polyolefinic acids. 2,957,907, 10-25-60, Cl. 260-485.
- Payne, Grady L.: *See*—  
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- Payne, Harold E. Snap action switch. 2,928,918, 3-15-60, Cl. 200-122.
- Payne, Ivan S., to E. Kaye, and J. R. Sharp. Vehicle braking device. 2,942,705, 6-28-60, Cl. 192-2.
- Payne, Ivan S., and A. E. R. Arnot, to E. Kaye, and J. R. Sharp. Battery charges. 2,955,245, 10-4-60, Cl. 320-35.
- Payne, Jimmie S., to Phillips Petroleum Co. Process and catalyst for production of olefin polymers. 2,959,576, 11-8-60, Cl. 260-94.9.
- Payne, John H., Jr., and G. D. Nelson, to Monsanto Chemical Co. Aqueous film forming compositions. 2,964,415, 12-13-60, Cl. 106-74.
- Payne, Leonard R., to Massey-Ferguson (Great Britain) Ltd. Crop engaging time assembly. 2,932,934, 4-19-60, Cl. 56-400.
- Payne, Lyle L., to Hughes Tool Co. Cutter for well drills. 2,939,684, 6-7-60, Cl. 255-342.
- Payne, Otis C.: *See*—  
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- Hackney, Robert F., Payne, and Sapp. 2,954,865.
- Payne, Paul D., Jr., to Philco Corp. Method of manufacturing electrical apparatus. 2,950,193, 8-23-60, Cl. 96-34.
- Payne, Ralph W., to Poor & Co. One-piece rail anchor. 2,936,127, 5-10-60, Cl. 238-327.
- Payne, Robert E., and A. C. Lavanchy, to The Sharples Corp. Air directing and particle removing structure for particle classifiers. 2,943,734, 7-5-60, Cl. 209-144.
- Payne, Robert E., A. C. Lavanchy, and T. D. Sharples, to The Sharples Corp. Particle classifiers. 2,943,735, 7-5-60, Cl. 209-144.



- Payne, William H. Pressure-holding valve with pressure-shifted jet. 2,925,092, 2-16-60, Cl. 137-488.
- Payne, William H., and W. H. Payne II. Hydraulic torque boosters. 2,965,075, 12-20-60, Cl. 121-70.
- Payne, William H., II: *See*—
- Payne, William H., and W. H. Payne II. 2,965,075.
- Paynor, Melvin, to Fufford Mfg. Co. Strap support for shoes. 2,936,533, 5-17-60, Cl. 36-25.
- Paynter, Donald A., to General Electric Co. Deflection circuit. 2,924,744, 2-9-60, Cl. 315-27.
- Paynter, George D. Fishing gear. 2,960,789, 11-22-60, Cl. 43-42.08.
- Paynter, William D., and E. W. Kielsmeier, to Oscar Mayer & Co., Inc. Method of preparing puffed skin products. 2,947,635, 8-2-60, Cl. 99-107.
- Payton, Robert J., to General Electric Co. Air conditioning apparatus. 2,959,035, 11-8-60, Cl. 62-426.
- Paz, Alfred R., to American Cyanamid Co. Process of shaping thermosetting glass-filled molding compounds. 2,936,487, 5-17-60, Cl. 18-48.
- Peabody, Donald W.: *See*—
- Ten Broeck, Theodore R., and Peabody. 2,937,151.
- Peabody Engineering Corp.: *See*—
- Lange, William F., and Anderson. 2,965,163.
- Peabody Seating Co., Inc.: *See*—
- Fields, Clesent O. 2,940,806.
- Fields, Clesent O. 2,951,733.
- Peach, Francis G.: *See*—
- Bate, Stanley C., Peach, and Rogerson. 2,954,312.
- Peachey, Chester J., to Her Majesty Underwear Co. Elastic waistband. 2,922,166, 1-26-60, Cl. 2-237.
- Peacock, Roy L. Tire truing machine. 2,966,011, 12-27-60, Cl. 51-33.
- Peak, Earl L. Air stream fuel injector. 2,962,270, 11-29-60, Cl. 261-50.
- Peak, Joseph D., to Rocky Mountain Metal Products Co. Orthodontic band forming plier. 2,954,606, 10-4-60, Cl. 32-66.
- Peak, William M., and J. Wade. Pouring control for aluminum ingots. 2,962,778, 12-6-60, Cl. 22-79.
- Peaker, Paul R., and L. W. Buckner. Pipe cleaner with resilient cleaning wheel. 2,960,709, 11-22-60, Cl. 15-104.15.
- Peakes, Ralph W.: *See*—
- Faber, Edgar M., Scruton, and Peakes. 2,920,986.
- Pealer, Robert B., to The Toledo Pipe Threading Machine Co. Automatic chuck. 2,932,524, 4-12-60, Cl. 279-114.
- Pealer, Robert B., to The Toledo Pipe Threading Machine Co. Drive release for geared threader. 2,940,093, 6-14-60, Cl. 10-120.5.
- Pearce, Charles R.: *See*—
- Wilson, Edgar G., and Pearce. 2,925,981.
- Pearce, Frank G., to Pan American Petroleum Corp. Process for obtaining metals from their ores. 2,923,615, 2-2-60, Cl. 75-40.
- Pearce, Frank G., to Pan American Petroleum Corp. Processing gas mixtures. 2,934,906, 5-3-60, Cl. 62-13.
- Pearce, George C., and V. G. Sharpe, to General Motors Corp. Storing and dispensing device. 2,925,204, 2-16-60, Cl. 222-431.
- Pearce, George C., and L. M. Miller, to General Motors Corp. Ventilated superposed ovens. 2,965,095, 12-20-60, Cl. 126-21.
- Pearce, Graham, to Painton and Co. Ltd. Electrical resistors. 2,933,589, 4-19-60, Cl. 219-107.
- Pearce, Irvin L.: *See*—
- Reeves, William C. 2,930,585.
- Pearce, James G.: *See*—
- Brightman, Barrie, Pearce, and Tubinis. 2,947,819.
- Pearce, James G., and M. P. Tubinis, to General Dynamics Corp. Multifunction interlocked signaling telephone system. 2,933,564, 4-19-60, Cl. 179-18.
- Pearce, Jesse P.: *See*—
- Webb, Bert, and Pearce. 2,951,517.
- Pearce, Lewis C. Conveyor means for collating machine. 2,930,611, 3-29-60, Cl. 271-87.
- Pearce, Lewis C., to American Greetings Corp. Apparatus for forming and affixing a divider in a box. 2,942,532, 6-28-60, Cl. 93-37.
- Pearce, Willard J.: *See*—
- Schneider, Harold N., and Pearce. 2,964,679.
- Pearce, Woodrow W. Scalp brush. 2,930,060, 3-29-60, Cl. 15-131.
- Pearce, Woodrow W. Indicator knob. 2,957,447, 10-25-60, Cl. 116-124.
- Pearl, Curtis F. Bowling apparatus. 2,963,295, 12-6-60, Cl. 273-127.
- Pearlstine, Morton, to The Bunting Co., Inc. Glider construction. 2,959,210, 11-8-60, Cl. 155-57.
- Pearsall, Ralph E., and W. R. Wade, to United Shoe Machinery Corp. Shoe bottom roughing tools. 2,936,472, 5-17-60, Cl. 15-200.
- Pearse, John J. Revolving and folding mobile floating bridge. 2,944,270, 7-12-60, Cl. 14-27.
- Pearson, Albert, to Atomic Energy of Canada Ltd. Radiation detector. 2,955,207, 10-4-60, Cl. 250-83.6.
- Pearson, Arald B.: *See*—
- Few, William, Pearson, and Dakers. 2,921,166.
- Pearson, Arthur D.: *See*—
- Flaschen, Steward S., and Pearson. 2,961,350.
- Pearson, Bernard A., to Ederer Engineering Co. Stud-pulling crane. 2,964,459, 12-13-60, Cl. 204-194.
- Pearson, Charles, Jr., to M. I. Glass. Toy. 2,926,916, 3-1-60, Cl. 273-102.2.
- Pearson, Charles, Jr., to M. I. Glass. Dancing toy. 2,932,918, 4-19-60, Cl. 46-245.
- Pearson, Donald L.: *See*—
- Norwood, Leland B., and Pearson. 2,939,186.
- Pearson, Edward K.,  $\frac{1}{2}$  to P. Begelman, and  $\frac{1}{2}$  to R. E. Harrison. Receptacle safety latch means. 2,936,189, 5-10-60, Cl. 292-42.
- Pearson, Eugene W., to Pacific Industrial Mfg. Co. Ledger blade adjustment means for shear machine. 2,939,358, 6-7-60, Cl. 83-641.
- Pearson, Gerald L., to Bell Telephone Laboratories, Inc. Silicon alloy diode. 2,952,824, 9-13-60, Cl. 338-20.
- Pearson, Gustav C.: *See*—
- Huffman, Mervin C., Gustafson, and Pearson. 2,942,578.
- Pearson, Harry A., to Sonotone Corp. Acoustic signal transducers. 2,927,976, 3-8-60, Cl. 179-114.
- Pearson, Harry A., to Sonotone Corp. Playback system for stereophonic records with mechanical rumble filter. 2,951,915, 9-6-60, Cl. 170-100.41.
- Pearson, Irving P.: *See*—
- Masin, William, and Pearson. 2,937,588.
- Pearson, John: *See*—
- La Rocca, Edward W., and Pearson. 2,948,923.
- Pearson, John, and J. S. Rinehart, to United States of America, Navy. Controlled fragmentation of impulsively loaded bodies by stress wave interference. 2,948,218, 8-9-60, Cl. 102-67.
- Pearson, John F.: *See*—
- Weatherwax, Kenneth A., Smith, and Pearson. 2,929,408.
- Pearson, Leslie S., to S. D. Warren Corp. Package for transporting paper sheets. 2,932,389, 4-12-60, Cl. 206-60.
- Pearson, Olaf. Automatic machine for routing right and left-hand stair stringers. 2,939,499, 6-7-60, Cl. 144-136.
- Pearson, Otto H.: *See*—
- Strike, Louis N., and Pearson. 2,939,231.
- Pearson, Raymond E., to Boeing Airplane Co. Plug type noise suppressor and thrust reverser. 2,952,124, 9-13-60, Cl. 60-35.54.
- Pearson, Robert G., to Geograph Service Corp. Well logging apparatus. 2,935,871, 5-10-60, Cl. 73-151.5.
- Pearson, Robert L., to Riegel Paper Corp. Liquid discharge measuring means. 2,956,581, 10-18-60, Cl. 137-391.
- Pearson, Roy W., to The Taylor-Winfield Corp. Method and apparatus for maintaining welding electrode wheels and the like. 2,957,975, 10-25-60, Cl. 219-81.
- Pearson, Tillmon H.: *See*—
- Ashby, Eugene C., Foster, Mangham, and Pearson. 2,961,443.
- Blitzer, Sidney M., and Pearson. 2,944,084.
- Blitzer, Sidney M., and Pearson. 2,955,124.
- Blitzer, Sidney M., and Pearson. 2,959,625.
- Giraitis, Albert P., Pearson, and Pinkerton. 2,960,450.
- Pearson, Wendell H. Dust cap for grease fittings. 2,939,519, 6-7-60, Cl. 184-88.
- Pearson, William L., and H. E. Schweller, to General Motors Corp. Reclaiming of uncured and compounded latex foam stock. 2,925,396, 2-16-60, Cl. 260-23.
- Pearson, William S., to Clifton Conduit Corp. Method and apparatus for making seamed tubing. 2,934,981, 5-3-60, Cl. 80-62.
- Pearson, William S., to C.C. Corp. Wire reel pay-off device. 2,935,274, 5-3-60, Cl. 242-128.
- Peary, Donald R., and R. E. Vincent, to Chicago Bridge & Iron Co. Portable photographic film developing apparatus. 2,925,761, 2-23-60, Cl. 95-19.
- Pease, Clifford L. Hitch and wheel mounting for trailers. 2,926,930, 3-1-60, Cl. 280-475.
- Pease, F. B.: *See*—
- Ganze, Ronald A. 2,964,081.
- Pease, James K., to A. O. Smith Corp. Series arc welding circuit. 2,938,107, 5-24-60, Cl. 219-131.
- Pease, John W., to Midland-Ross Corp. Emergency brake system including low brake pedal. 2,948,570, 8-9-60, Cl. 303-63.
- Pease, Lyle F. Mounting attachment for Christmas tree lights. 2,919,810, 1-5-60, Cl. 211-26.
- Pease, Robert L.: *See*—
- Hansen, Robert C., and Pease. 2,921,308.
- Pease, William C. III: *See*—
- Van Doorn, Donald W., and Pease. 2,963,959.
- Peaslee, Lawrence R., to General Electric Co. Selsyn exciter for position programming control system. 2,922,052, 1-19-60, Cl. 307-149.
- Peaslee, Lawrence R., to General Electric Co. Programming control system. 2,937,365, 5-17-60, Cl. 340-174.
- Peasley, Howard P. Apparatus and method of making molds. 2,956,317, 10-18-60, Cl. 22-21.
- Peaster, Bertram A., to Integral Ltd. Hydraulic constant speed devices. 2,956,406, 10-18-60, Cl. 60-53.
- Peat, Maclyn R., to Wm. J. Stange Co. Spice concentrate. 2,925,344, 2-16-60, Cl. 99-140.
- Peca, Joseph: *See*—
- Bolef, Silas, and Peca. 2,954,419.
- Pecceirill, Donald. Apparatus for forming sheet metal articles. Re. 24,833, 5-31-60, Cl. 113-44.
- Pechenino, Paul L., to International Business Machines Corp. Hydraulic positioning device. 2,954,755, 10-4-60, Cl. 121-38.



- Pecha, Richard J., H. Samuels, and D. C. Kay, to Union Carbide Corp. Composition of polyethylene and a copolymer of ethylene and ethyl acrylate. 2,953,541, 9-20-60, Cl. 260—455.
- Pechiney, Compagnie de Produits Chimiques et Electro-metallurgiques: *See*—
- Bollack, Raymond, and Mathieu. 2,922,213.
- D'Ogny, Francois. 2,924,516.
- Jacque, Leon, and Dumez. 2,944,878.
- Legendre, Andre, and Cornuault. 2,941,866.
- Ménegez, Charles D., and Galy. 2,931,719.
- Pauls, Gerhard. 2,943,918.
- Prières, René, and Bollack. 2,962,359.
- Richaud, Henri. 2,965,551.
- Pechmann, Karl, to General Aniline & Film Corp. Preparation of blue colloidal silver dispersions for antihola layer. 2,921,914, 1-19-60, Cl. 252—313.
- Pechy, William, to American Can Co. Machine for treating and sorting can bodies. 2,919,801, 1-5-60, Cl. 209—111.
- Pechy, William, to American Can Co. Machine for unloading articles from containers. 2,940,636, 6-14-60, Cl. 221—104.
- Pedura, Lionginas, to Stubnitz Greene Corp. Plastisol containing a vinyl chloride polymer and calcium oxide. 2,956,976, 10-18-60, Cl. 260—30.6.
- Pecjak, Frances A.: *See*—
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- Peck, Carlton F.: *See*—
- Shute, Charles F., Coakley, and Peck. 2,937,559.
- Peck, David B.: *See*—
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- Peck, David B., to Sprague Electric Co. Method of metallizing polytetrafluoroethylene. 2,951,774, 9-6-60, Cl. 117—227.
- Peck, David B., and P. Robinson, to Sprague Electric Co. Electrical condensers. 2,921,246, 1-12-60, Cl. 317—260.
- Peck, David W.: *See*—
- O'Connor, George L., Pack, and Eccles. 2,929,855.
- Peck, Donald S., to ACF Industries, Inc. Fuel consumption schedule system. 2,963,794, 12-13-60, Cl. 35—12.
- Peck, Gordon V., to P. R. Mallory & Co., Inc. Insulating disc for electrolytic capacitors. 2,944,196, 7-5-60, Cl. 317—230.
- Peck, Robert D. Frame for forming bent or curved glass or other material. 2,953,871, 9-27-60, Cl. 49—67.
- Peck, Sanford C., Jr., to Sylvania Electric Products Inc. Induction lamp. 2,966,601, 12-27-60, Cl. 313—35.
- Peck, T. T., Jr.: *See*—
- Lee, Joseph E. 2,949,110.
- Peck, Walter R., to Amcel Propulsion Inc. Thyatron control system. 2,946,942, 7-26-60, Cl. 318—293.
- Peck, William, to General Dynamics Corp. Pulse generator. 2,920,192, 1-5-60, Cl. 250—27.
- Peck, William S.: *See*—
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- Peckham, Edwin G.: *See*—
- Dietrich, Eric R., and Peckham. 2,945,701.
- Peckham, Wesley L., to L. B. Smith Aircraft Corp. Arm rest and concealed table unit. 2,947,348, 8-2-60, Cl. 155—128.
- Pedar Ltd.: *See*—
- Ramén, Torsten. 2,941,787.
- Pedersen, Arne V.: *See*—
- Chase, Corson W., Jasnowski, and Pedersen. 2,963,234.
- Pedersen, Arne V., and R. E. Wolf, to Miehe-Goss-Dexter, Inc. Automatic web splicing apparatus. 2,963,235, 12-6-60, Cl. 242—58.3.
- Pedersen, Dane H., and J. P. Nicotra, to The Porter-Cable Machine Co. Reversible router guide for straight and circular work. 2,943,655, 7-5-60, Cl. 144—136.
- Pedersen, Edith M.: *See*—
- Pedersen, Jens T. 2,920,576.
- Pedersen, Jens T., ½ to E. M. Pedersen. Elliptical pump and fluid transmission. 2,920,576, 1-12-60, Cl. 103—134.
- Pedersen, Mathias, to American Machine & Foundry Co. Machine for simulating hand overedge stitches. 2,941,486, 6-21-60, Cl. 112—171.
- Pedersen, Norman E., and G. J. Doundoulakis, to General Bronze Corp. Radiation detection. 2,954,477, 9-27-60, Cl. 250—211.
- Pedersen, Norman F. Ambulatory rocking device. 2,941,801, 6-21-60, Cl. 272—70.
- Pedersen, Olaf J.: *See*—
- Rayburn, Donald H., Pedersen, and Fischer. 2,944,263.
- Pedersen, Olaf N. Rotary scaling device. 2,952,066, 9-13-60, Cl. 29—81.
- Pedersen, Olaf N. Rotary wire brush. 2,962,745, 12-6-60, Cl. 15—198.
- Pederson, Carl N., to Hupp Corp. Switching system control. 2,942,253, 6-21-60, Cl. 340—365.
- Pederson, Meyer L. Quick release buckle. 2,920,366, 1-12-60, Cl. 24—170.
- Pederson, Raymond L.: *See*—
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- Dean, Harry C., and Pederson. 2,926,470.
- Pederzani, Theodor, W. Grimm, and K. Steimel, to Telefunken G.m.b.H. Scanning system and method. 2,963,700, 12-6-60, Cl. 343—11.
- Pedigo, Dossie V. Ballast remover. 2,924,030, 2-9-60, Cl. 37—104.
- Pedley, Eric L. Picture hanger. 2,952,431, 9-13-60, Cl. 248—28.
- Pedlow, George W., Jr., and M. H. Thompson, to Trylon Chemicals, Inc. Reciprocating pump. 2,922,380, 1-26-60, Cl. 103—178.
- Pedrick, Robert F., to General Dynamics Corp. Two-way trunk circuit. 2,921,987, 1-19-60, Cl. 179—27.
- Pedrick Tool & Machine Co., Inc.: *See*—
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- Pedrotti, Rudolph L., F. W. Swamer, and D. C. Dewey, to E. I. du Pont de Nemours and Co. Process for preparing bromotrifluoromethane. 2,937,210, 5-17-60, Cl. 260—653.8.
- Pedrow, Andrew: *See*—
- Pedrow, Charles. 2,928,113.
- Pedrow, Charles, ½ to A. Pedrow. Paint roller. 2,928,113, 3-15-60, Cl. 15—132.5.
- Peeples, David D., to Foremost Dairies, Inc. Dried egg product and process of manufacture. 2,950,204, 8-23-60, Cl. 99—210.
- Peed, Garland P., Jr., and J. Hirsch; said Peed assor, to said Hirsch. Wire stripper and cutter. 2,932,224, 4-12-60, Cl. 81—9.5.
- Peek, Robert L., Jr., to Bell Telephone Laboratories, Inc. Contact making device. 2,922,857, 1-26-60, Cl. 200—87.
- Peel, Clyde A., R. O., and D. G. Folding cigarette box with ash receptacle. 2,944,555, 7-12-60, Cl. 131—238.
- Peel, Donald G.: *See*—
- Peel, Clyde A., R. O., and D. G. 2,944,555.
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- Peel, Robert, to Singer-Fidelity, Inc. Yarn tension device. 2,964,259, 12-13-60, Cl. 242—154.
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- Demarest, Le Roy E., and F. S. and J. M. Lapeyre. 2,964,181.
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- Peeps, Donald J., to The De Vilbiss Co. Air motor for a coating material pump. 2,932,285, 4-12-60, Cl. 121—164.
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- Peet, Nick P., to Eesso Research and Engineering Co. Production of synthesis gas. 2,946,754, 7-26-60, Cl. 252—373.
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- Reh, Carter K. 2,938,379.
- Pegard, Pierre, to Ateliers G.S.P. Gear cutting machine. 2,943,538, 7-5-60, Cl. 90—4.
- Pegard, Pierre, to Ateliers G.S.P. Intermittent drive. 2,952,159, 9-13-60, Cl. 74—116.
- Pegram, William B., to International Resistance Co. Tensioner. 2,966,315, 12-27-60, Cl. 242—156.2.
- Pegrum, James W., to Babcock & Wilcox Ltd. Flame responsive means. 2,966,209, 12-27-60, Cl. 158—28.
- Pehrsson, Lennart A., to Aktiebolaget Karlstad Mekaniska Werkstad. Pitch control means for variable pitch propellers. 2,931,443, 4-5-60, Cl. 170—160.32.
- Peickii, Vasalie L., and D. A. Christensen, to Federal-Mogul-Bower Bearings, Inc. Pressure shaft seal. 2,926,035, 2-23-60, Cl. 288—3.
- Peickii, Vasalie L., and R. W. McCandless, to Federal-Mogul-Bower Bearings, Inc. Shaft seals. 2,932,535, 4-12-60, Cl. 288—3.
- Pelerls, Rudolf E., F. E. Simon, and H. S. Arms, to United States of America, Atomic Energy Commission. Separation of gases by diffusion. 2,964,124, 12-13-60, Cl. 183—2.
- Peifer, Albert G., to International Telephone and Telegraph Corp. Traveling wave electron discharge devices. 2,939,992, 6-7-60, Cl. 315—3.5.
- Peifer, William H., to Wegner Machinery Corp. Liquid level gauge. 2,923,157, 2-2-60, Cl. 73—327.
- Peiffer, Robert H. Literature display rack. 2,932,405, 4-12-60, Cl. 211—50.
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- Peilstöcker, Günter, and W. Hechelhammer, to Farbenfabriken Bayer Aktiengesellschaft. Blown articles from high molecular weight thermoplastic polycarbonates and method of making same. 2,964,794, 12-20-60, Cl. 18—55.
- Peilstöcker, Günter, and W. Hechelhammer, to Farbenfabriken Bayer Aktiengesellschaft. Wrapping foils of high molecular weight thermoplastic polycarbonates. 2,964,797, 12-20-60, Cl. 18—57.
- Peimer, Stanley L. Slide closure carton. 2,950,851, 8-30-60, Cl. 229—17.



- Pearce, Walter T., to United States Steel Corp. Apparatus for hot prestressing armored cable. 2,940,883, 6-14-60, Cl. 154—227.
- Pearce, Walter T., to United States Steel Corp. Method of making oil well cable. 2,952,574, 9-13-60, Cl. 154—225.
- Peithman, Albert D.: *See*—  
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- Pelti, Josef. Snow plow. 2,962,821, 12-6-60, Cl. 37—42.
- Pelx, Charles H., ½ to N. S. Blodgett. Window mounted air conditioning apparatus. 2,922,293, 1-26-60, Cl. 62—243.
- Pekay Machine & Engineering Co., Inc.: *See*—  
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- Peklay, William F., and T. P. Kirby, to Electric Steel Foundry Co. Excavating tooth. 2,949,687, 8-23-60, Cl. 37—142.
- Pelabon, Andre, to Societe Anonyme dite: les Ateliers de Construction du Nord de la France. Free wheeling device. 2,953,226, 9-20-60, Cl. 192—3.2.
- Pelander, Carl E., to United States of America, Army. Tool shaping machine. 2,923,209, 2-2-60, Cl. 90—24.3.
- Pelavin, Joseph Y., to Drouman Mfg. Co., Inc. Swingable extendable hanger support for portable wardrobes. 2,965,240, 12-20-60, Cl. 211—116.
- Pelavin, Milton H.: *See*—  
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- Pelavin, Milton H., to Technicon Instruments Corp. Sensitive thermal-control device. 2,945,113, 7-12-60, Cl. 210—20.
- Pelavin, Milton H., to Technicon Instruments Corp. Apparatus for visually indicating or recording numerical values of constituents of fluids under analysis. 2,960,910, 11-22-60, Cl. 88—14.
- Pelavin, Milton H., to The Technicon Co., Inc. Manual control for automatic immersion apparatus. 2,960,962, 11-22-60, Cl. 118—9.
- Pelchowitch, Israel: *See*—  
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- Pelen, Jean J. M.: *See*—  
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- Peles, Julius S. Birdproofing device. 2,938,243, 5-31-60, Cl. 20—2.
- Pelfrey, George G., and K. A. Lennon; said Lennon assor. to said Pelfrey. Disposal bag. 2,966,294, 12-27-60, Cl. 229—53.
- Pelfrey, Lowell: *See*—  
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- Pelfrey, Lowell S., to International Rectifier Corp. Temperature compensating zener diode construction. 2,937,963, 5-24-60, Cl. 148—33.
- Pelham, Clarence W. Automatic feed for paint brushes. 2,959,801, 11-15-60, Cl. 15—128.
- Pelino, William M.: *See*—  
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- Pelino, William M., and H. Remz, to Servo Corp. of America. Hot box detector alarm circuit. 2,963,575, 12-6-60, Cl. 246—169.
- Pellissier, Jacques: *See*—  
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- Pelitti, Enrico: *See*—  
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- Pell, Eric, to Cutler Hammer, Inc. Motor-brake control systems. 2,941,132, 6-14-60, Cl. 318—7.
- Pell, Eric, to Cutler-Hammer, Inc. Motor control systems. 2,962,646, 11-29-60, Cl. 318—258.
- Pell, Erik M., to General Electric Co. Semiconductor devices and methods of preparing the same. 2,957,789, 10-25-60, Cl. 148—1.5.
- Pell, Erik M., to General Electric Co. Asymmetrically conductive device. 2,958,022, 10-25-60, Cl. 317—235.
- Pell, Morris W.: *See*—  
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- Pella Irrigation Co.: *See*—  
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- Pelladeau, Maurice, ½ to Standard Research Consultants, Inc. Rotary pump. 2,925,779, 2-23-60, Cl. 103—4.
- Pellaton, Ernest C., to Fibreboard Paper Products Corp. Polygonal carton construction. 2,922,562, 1-26-60, Cl. 229—41.
- Pellegrini, Giovanni, P. Scrivani, and A. Bugiani, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Compositions based on 2,4-dichlorophenoxyethanol for the weed control in the rice fields. 2,958,595, 11-1-60, Cl. 71—2.3.
- Pellegrini, John P., Jr.: *See*—  
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- Pellegrini, Louis C., to Mario Coll Co. Heat exchangers. 2,954,213, 9-27-60, Cl. 257—255.
- Pellerin, Norvin L. Laundry agent dispensing device. 2,927,600, 3-8-60, Cl. 137—266.
- Pelletier, Albert L. G., to Comptoir de l'Industrie Cotonniere, Etablissements Bousac. Detecting and safety device. 2,938,115, 5-24-60, Cl. 250—27.
- Pelletier, Roger. Electrical switch. 2,947,826, 8-2-60, Cl. 200—15.
- Pelley, Perry H., to Tru-Scale, Inc. Apparatus and method for cleaning abrasively treated plastic webs. 2,923,109, 2-2-60, Cl. 51—282.
- Pelley, Perry H., to Wheelabrator Corp. Apparatus for abrasively surfacing plastic sheets. 2,952,100, 9-13-60, Cl. 51—14.
- Pellicore, Albert P. Securing means for window guards and the like. 2,924,862, 2-16-60, Cl. 20—71.
- Pellier, Christian V., to Burndy Corp. Method of crimping mounted electrical connectors. 2,934,128, 4-26-60, Cl. 153—1.
- Pellis, Giovanni. Mechanical dobby for weaving looms. 2,956,589, 10-18-60, Cl. 139—77.
- Pellissier, Frank L.: *See*—  
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- Pellissier, George E., Jr., to United States Steel Corp. Apparatus for vacuum casting molten metal. 2,965,937, 12-27-60, Cl. 22—73.
- Pellmyr, Bengt, to AB Svenska KRAFTfabriken. Air preheater. 2,938,712, 5-31-60, Cl. 257—230.
- Pellon, Joseph J., to American Cyanamid Co. Copolymers of a polymerizable borazole. 2,954,366, 9-27-60, Cl. 260—55.7.
- Pellow, Charles S. and R. A. Conveyor unloading means. 2,963,141, 12-6-60, Cl. 198—20.
- Pellow, Richard A.: *See*—  
Pellow, Charles S. and R. A. 2,963,141.
- Pelphrey, Harry, to Michigan Tool Co. Method of forming toothed elements. 2,930,877, 3-29-60, Cl. 219—7.5.
- Peltola, Veikko K., to Illinois Testing Laboratories, Inc. Surface contact pyrometers. 2,947,171, 8-2-60, Cl. 73—351.
- Pelton, Harry L. Tape transport mechanism for tape recorders. 2,965,324, 12-20-60, Cl. 242—55.12.
- Peltzer, Albert, Sr., to Dorr-Oliver Inc. Centrifuge machine. 2,958,461, 11-1-60, Cl. 233—14.
- Pelz, Willibald, to AGFA Aktiengesellschaft. Process for the production of symmetrical and unsymmetrical azo compounds. 2,950,273, 8-23-60, Cl. 260—144.
- Pelzer, Harry L., to Sinclair Oil & Gas Co. Opening fissures in low-permeability strata. 2,939,688, 6-7-60, Cl. 262—1.2.
- Pemberton, Albert, & Co. Ltd.: *See*—  
Forster, Henry A. R. 2,953,795.
- Pemberton, Don M., to Air Lift Co. Selectively variable pressure apparatus for yieldably maintaining relatively movable members in spaced apart relation. 2,921,781, 1-19-60, Cl. 267—34.
- Pemberton, Paul E., to Overhead Door Corp. Counterbalance means for upwardly acting doors and the like. 2,932,057, 4-12-60, Cl. 16—198.
- Pembroke, George F.: *See*—  
Molins, Desmond W., Pembroke, and Williams. 2,919,531.
- Pembroke, George F., to Molins Machine Co. Ltd. Apparatus for collecting cigarettes. 2,925,697, 2-23-60, Cl. 53—148.
- Pemco Wheel Co.: *See*—  
Black, John W. 2,923,961.  
Black, John W. 2,944,280.  
Black, John W. 2,947,021.
- Penasse, Lucien: *See*—  
Hagemann, Guy, Penasse, and Teillon. 2,938,836.
- Penca, Frank A.: *See*—  
Pakish, Anthony E., Penca, and Langer. 2,932,877.
- Penca, Frank A., to General Electric Co. Apparatus for heating exhaust tubes. 2,940,742, 6-14-60, Cl. 263—7.
- Pence, Alfred. Metal snake guard. 2,945,308, 7-19-60, Cl. 36—2.
- Pence, Elbert A., Jr.: *See*—  
Bigbie, Claude R., and Pence. 2,966,656.
- Pence, Frederick R.: *See*—  
Copelin, Harry B., and Pence. 2,957,923.
- Pence, Kathryn W. Kitchen utensil. 2,964,773, 12-20-60, Cl. 15—245.
- Pendergast, Raymond F. Sanding machine. 2,934,863, 5-3-60, Cl. 51—141.
- Pendergast, Raymond F. Spreading and feeding assembly. 2,958,989, 11-8-60, Cl. 51—139.
- Pendergast, Raymond F., to Northwestern National Bank, as trustee. Abrasive machine. 2,962,842, 12-6-60, Cl. 51—141.
- Pendl, Gene: *See*—  
Hawkins, Ronald E., and Pendl. 2,963,757.
- Pendlebury, Bruce C. Glare shield assembly for attachment to automobile sun visor. 2,941,839, 6-21-60, Cl. 296—97.
- Pendleton Tool Industries, Inc.: *See*—  
Van Hoose, William E. 2,962,918.
- Penfold, Ronald E.: *See*—  
Scarlett, Arthur A., Penfold, and Harrop. 2,959,233.
- Pengelly, Charles P., to Air Master Corp. Window lock construction. 2,950,136, 8-23-60, Cl. 292—64.
- Penick, Joe E.: *See*—  
Bergstrom, Eric V., and Penick. 2,956,009.
- Penick, S. B., and Co.: *See*—  
Baizer, Manuel M. 2,956,993.  
Salkin, Ralph. 2,948,729.
- Peninsular Chem Research, Inc.: *See*—  
Butler, George B., Angelo, and Crawshaw. 2,926,161.
- Penland, Hilliard H.: *See*—  
Sutherland, Ansel C., and Penland. 2,959,909.
- Penly, James R., to National Rejectors, Inc. Coin separators. 2,934,190, 4-26-60, Cl. 194—1.
- Penman, Hurl W., to The Magee Carpet Co. Loop pile cutter. 2,926,702, 3-1-60, Cl. 139—46.
- Penman, Montgomery B., and H. M. Fry, to The Magee Carpet Co. Method of molding a carpet. 2,939,179, 6-7-60, Cl. 18—56.
- Penn, Alexander, to John Wilkins & Co., Ltd. Supporting structures for shelves, display fittings and similar articles. 2,937,766, 5-24-60, Cl. 211—147.



- Penn Controls, Inc.: *See*—  
 Cobb, Clifton A. 2,919,750.  
 Good, Arthur L. 2,942,624.  
 McCormack, Alex A. 2,954,681.  
 Siri, Louis J. 2,930,876.
- Penn, John J., to Diamond National Corp. Article transfer and spacing device. 2,948,381, 8-9-60, Cl. 198-34.
- Penn, Thomas R., to Wil-Pen Co. Hypodermic needle holder. 2,929,510, 3-22-60, Cl. 211-60.
- Pennco Engineering Co.: *See*—  
 Nusbaum, Simon R. 2,956,708.
- Pennekamp, Elfrid F. H.: *See*—  
 Gleason, Walter W., Lifson, and Pennekamp. 2,921,029.
- Pennell, Elmer V.: *See*—  
 Creveling, Catherine B., and Pennell. 2,952,367.
- Pennell, Ford, to J. B. Pennell. Glass building block unit. 2,931,270, 4-5-60, Cl. 88-60.
- Pennell, James K., Jr. Device for teaching decimal positions in long division. 2,936,531, 5-17-60, Cl. 35-31.
- Pennell, Jane B.: *See*—  
 Pennell, Ford. 2,931,270.
- Penner, Herbert. Game apparatus. 2,932,516, 4-12-60, Cl. 273-105.
- Penney, Ernest. Holder for toilet paper. 2,946,636, 7-26-60, Cl. 312-39.
- Penney, Gaylord W. Gas-cleaning precipitator. 2,948,353, 8-9-60, Cl. 183-7.
- Penney, James H.: *See*—  
 Anderson, Ephraim H., and Penney. 2,937,059.  
 Wren, John B., and Penney. 2,924,729.  
 Wren, John B., Penney, and Irwin. 2,933,169.
- Penney, Ralph E.: *See*—  
 Slater, Frank W. 2,943,858.
- Penniman, Dorothy D. Wearing apparel. 2,927,325, 3-8-60, Cl. 2-76.
- Pennington, Edward N.: *See*—  
 Pollock, Lyle W., Andrews, and Pennington. 2,920,113.
- Pennington, Frank C.: *See*—  
 Nickell, Louis G., Pennington, and Solomons. 2,935,444.
- Pennington, John D., to J. W. Roberts Ltd. Apparatus for feeding fibre. 2,964,244, 12-13-60, Cl. 239-77.
- Pennington, Philip J., to United States of America, Air Force. Droppable marker light. 2,927,314, 3-1-60, Cl. 340-366.
- Pennington, Ralph W. Menu selector. 2,956,358, 10-18-60, Cl. 40-70.
- Pennino, Charles J., to The B. F. Goodrich Co. Method of separating octahydrocyclohexene-3-one-1 from mixtures containing said compound and octahydrocyclohexene-2-one-1. 2,964,565, 12-13-60, Cl. 260-586.
- Pennsalt Chemicals Corp.: *See*—  
 Barth-Wehrenalp, Gerhard. 2,942,948.  
 Barth-Wehrenalp, Gerhard, and Mandell. 2,942,949.  
 Blum, William A. 2,964,472.  
 Braid, Milton, and Hauptschein. 2,920,111.  
 Brown, Lewis J. 2,958,659.  
 Brown, Lewis J. 2,962,395.  
 Dickey, Clarence A. 2,930,816.  
 Engelbrecht, Alfred F. 2,942,947.  
 Ferron, William O. 2,949,777.  
 Goldenhar, Leonard E., Mockrin, and Doorley. 2,965,231.  
 Grigger, John C. 2,945,790.  
 Hauptschein, Murray. 2,966,517.  
 Hauptschein, Murray, Braid, and Lawlor. 2,957,032.  
 Kahler, Ernest J. 2,925,320.  
 Loev, Bernard, and Goshorn. 2,950,324.  
 Loev, Bernard, and Goshorn. 2,951,875.  
 Loev, Bernard, and Massengale. 2,950,323.  
 Loev, Bernard, and Massengale. 2,957,920.  
 McCoy, George, Inman, and Kyker. 2,955,142.  
 Neumoyer, Clifton R. 2,923,727.  
 Popoff, Ivan C., Haines, and Inman. 2,943,112.  
 Sprout, Oliver S., Jr. 2,940,896.  
 Staubly, Julian L., Simkin, Aeppli, and Rex. 2,921,911.  
 Swalm, Charles M., and Spring. 2,954,309.  
 Whitbeck, Roland A. 2,960,061.
- Pennsylvania Furnace and Iron Co.: *See*—  
 Mangini, Andrew J. 2,924,231.
- Pennsylvania Refining Co.: *See*—  
 Glenn, Dale T. 2,955,964.
- Penn-Union Electric Corp.: *See*—  
 Brenner, Morris. 2,956,108.  
 Cornell, Edward S., Jr. 2,956,259.  
 Stoeltzlen, Leo V. 2,956,323.  
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- Pennway Garment Co.: *See*—  
 Sayles, Raymond E. 2,961,186.
- Penny, Francis D., and G. C. Ackroyd. Viscometer. 2,957,339, 10-25-60, Cl. 73-59.
- Penny, Robert N.: *See*—  
 King, Charles S., and Penny. 2,965,042.
- Penny, William A., to Kelvin & Hughes Ltd. Pressure sensitive instruments. 2,922,313, 1-26-60, Cl. 74-393.
- Penote, Vincent S., A. R. Askue, and M. K. Rear, to The Cleveland Trencher Co. Excavating machine. 2,940,188, 6-14-60, Cl. 37-89.
- Penrod, Ralph U. Method and means for drilling with changeable bits. 2,954,211, 9-27-60, Cl. 255-61.
- Penrod, William R., and R. W. Phelps, to The Black-Clawson Co. Paper machinery. 2,940,418, 6-14-60, Cl. 118-63.
- Penrose, Chester F.: *See*—  
 Swanson, Fred R., Kjellstrom, and Penrose. 2,946,249.
- Penrose, James R., to Pirelli-General Cable Works Ltd. Manufacture of tubing and tubular sheathing. 2,948,324, 8-9-60, Cl. 153-54.
- Pensack, Joseph M.: *See*—  
 Bachman, Marvin C., Martin, and Pensack. 2,923,523.  
 Bachman, Marvin C., Martin, and Pensack. 2,924,526.
- Pensak, Louis, to Radio Corp. of America. Semiconductor devices and mounting means therefor. 2,962,639, 11-29-60, Cl. 317-234.
- Penta Laboratories, Inc.: *See*—  
 Norton, Robert L. 2,920,225.
- Pentecost, Eugene E., to North American Aviation, Inc. High selectivity reject network. 2,920,280, 1-5-60, Cl. 330-93.
- Pentecost, Eugene E., and W. F. de Boice, to North American Aviation, Inc. Saturable reactor timed multivibrator. 2,954,532, 9-27-60, Cl. 331-144.
- Pentland, Alex M.: *See*—  
 Merriam, Frank, Jr., and Pentland. 2,923,830.
- Pentony, Joseph.: *See*—  
 Heath, Theodore H. 2,940,292.
- Pentzlin, Kurt. Making molded pastry. 2,960,045, 11-15-60, Cl. 107-54.
- Peoples, Lewis J.: *See*—  
 May, Joseph R. 2,932,326.
- Peoples, Virgil H., to The O. M. Scott & Sons Co. Tractor drawn spreader. 2,925,201, 2-16-60, Cl. 222-177.
- Peperzak, Peter.: *See*—  
 Crespin, George T. F., and Peperzak. 2,965,522.
- Peplin, Stephen C., to Lakewood Mfg. Co. Portable grill. 2,928,385, 3-15-60, Cl. 126-25.
- Peppard, Donald F., to United States of America, Atomic Energy Commission. Process of separating zirconium values from hafnium values by solvent extraction with an alkyl phosphate. 2,923,607, 2-2-60, Cl. 23-312.
- Peppard, Donald F., and G. W. Mason, to United States of America, Atomic Energy Commission. Separation of rare earths by solvent extraction. 2,955,913, 10-11-60, Cl. 23-23.
- Peppel, William J.: *See*—  
 Harwell, Kenneth E., and Peppel. 2,923,696.
- Pepper, Robert K. Casing installing machine. 2,946,567, 7-26-60, Cl. 255-20.
- Peppercorn, Howard N., to The General Tire and Rubber Co. Machine for assembling resilient bushings of the rubber insert type. 2,947,070, 8-2-60, Cl. 29-235.
- Pepple, Allen P. Demonstration mirror and suspending and tilting system therefor. 2,953,969, 9-27-60, Cl. 88-92.
- Peppler, Henry J., and J. A. Thorn, to Red Star Yeast and Products Co. Autolysis process and product. 2,922,748, 1-26-60, Cl. 195-62.
- Pera, John D.: *See*—  
 Buckman, Stanley J., Pera, and Appling. 2,929,758.
- Peras, Lucien, to Regie Nationale des Usines Renault. Low-tension sparking plug for internal combustion engines. 2,920,223, 1-5-60, Cl. 313-131.
- Peras, Lucien, to Regie Nationale des Usines Renault. Sliding spark ignition spark plug. 2,926,275, 2-23-60, Cl. 313-131.
- Peras, Lucien, to Regie Nationale des Usines Renault. Automatic handling devices, notably for a plurality of machine-tools machining a same workpiece successively. 2,926,795, 3-1-60, Cl. 214-1.
- Peras, Lucien, to Regie Nationale des Usines Renault. Automatic control device for gearboxes, more particularly in a vehicle. 2,927,474, 3-8-60, Cl. 74-472.
- Péras, Lucien, to Regie Nationale des Usines Renault. Commercial vehicle. 2,927,653, 3-8-60, Cl. 180-42.
- Peras, Lucien, to Regie Nationale des Usines Renault. Correcting device for the control of gearboxes. 2,929,256, 3-22-60, Cl. 74-336.5.
- Peras, Lucien, to Regie Nationale des Usines Renault. Apparatus for assembling low-tension sparking plugs for engines. 2,932,920, 4-19-60, Cl. 49-1.
- Peras, Lucien, to Regie Nationale des Usines Renault. Automatic device for transferring workpieces from one machine-tool to another. 2,934,218, 4-26-60, Cl. 214-1.
- Peras, Lucien, to Regie Nationale des Usines Renault. Resilient rear wheel suspension arrangement for vehicles. 2,934,355, 4-26-60, Cl. 280-124.
- Peras, Lucien, to Regie Nationale des Usines Renault. Memory device for stock control system. 2,936,081, 5-10-60, Cl. 214-11.
- Peras, Lucien, to Regie Nationale des Usines Renault. Hermetically sealed damping device. 2,936,860, 5-17-60, Cl. 188-94.
- Peras, Lucien, to Regie Nationale des Usines Renault. Control device for fluid-operated reciprocating power apparatus. 2,939,427, 6-7-60, Cl. 121-38.
- Peras, Lucien, to Regie Nationale des Usines Renault. Manufacture of low-tension sparking plugs for internal combustion engines. 2,940,221, 6-14-60, Cl. 49-81.
- Peras, Lucien, to Regie Nationale des Usines Renault. Low-tension spark plugs. 2,941,106, 6-14-60, Cl. 313-131.
- Péras, Lucien, to Regie Nationale des Usines Renault. Resilient packing rings for fluids under pressure. 2,941,541, 6-21-60, Cl. 137-102.
- Péras, Lucien, to Regie Nationale des Usines Renault. Fluid control devices and elastic pressure-responsive valves. 2,941,544, 6-21-60, Cl. 137-525.
- Peras, Lucien, to Regie Nationale des Usines Renault. Semi-automatic machine for the centrifugal casting of cylinder liners. 2,943,368, 7-5-60, Cl. 22-64.



- Peras, Lucien, to Regie Nationale des Usines Renault. Disc brake. 2,946,408, 7-26-60, Cl. 188-73.
- Peras, Lucien, to Regie Nationale des Usines Renault. Automatic devices for adjusting disk brakes. 2,949,173, 8-16-60, Cl. 188-196.
- Peras, Lucien, to Regie Nationale des Usines Renault. Automatic grapple. 2,950,940, 8-30-60, Cl. 294-110.
- Peras, Lucien, to Regie Nationale des Usines Renault. Gear-box synchroneshing devices. 2,957,564, 10-25-60, Cl. 192-53.
- Peras, Lucien, to Regie Nationale des Usines Renault. Heavy pressure lubricants. 2,959,552, 11-8-60, Cl. 252-54.6.
- Péras, Lucien, to Regie Nationale des Usines Renault. Slipping-spark ignition plugs. 2,961,563, 11-22-60, Cl. 313-131.
- Péras, Lucien, to Regie Nationale des Usines Renault. Gear-shift forks of gearboxes. 2,962,914, 12-6-60, Cl. 74-477.
- Péras, Lucien, to Regie Nationale des Usines Renault. Railroad vehicle suspension. 2,962,981, 12-6-60, Cl. 105-199.
- Péras, Lucien, to Regie Nationale des Usines Renault. Servo-action locking devices for vehicles. 2,963,115, 12-6-60, Cl. 188-69.
- Péras, Lucien, to Regie Nationale des Usines Renault. Disc-brake. 2,963,116, 12-6-60, Cl. 188-73.
- Perbury Engineering Ltd.: *See*—
- Perry, Forbes G. D. 2,956,441.
- Perry, Forbes G. D. 2,959,063.
- Perce, Glenn E. Boat. 2,929,346, 3-22-60, Cl. 114-66.5.
- Percival, William S., to Electric & Musical Industries Ltd. Distributed amplifiers and wave filters. 2,921,194, 1-12-60, Cl. 250-27.
- Percival, William S., to Electric & Musical Industries Ltd. Distributed amplifiers. 2,934,710, 4-26-60, Cl. 330-54.
- Percival, Worth H., to General Motors Corp. Mechanism for utilizing waste heat. 2,919,540, 1-5-60, Cl. 60-11.
- Percival, Worth H., to General Motors Corp. Accumulator supercharging. 2,965,083, 12-20-60, Cl. 123-119.
- Perdue, Willard F.: *See*—
- Rowland, Frederick T., and Perdue. 2,920,884.
- Perecmanas, Jaime C. R.: *See*—
- Thompson, Philip R., and Perecmanas. 2,921,381.
- Pereda, Celedonio V. Free-piston engine hydraulic system. 2,924,068, 2-9-60, Cl. 60-12.
- Peregrine, Edgar P., to Bristol Aero-Engines Ltd. Jet engine thrust reverser. 2,944,394, 7-12-60, Cl. 60-35.54.
- Pereira, Joseph C. Disk and interconnected weed knife. 2,926,733, 3-1-60, Cl. 172-181.
- Peretti, Leonard, to Arvey Corp. Display spinner. 2,923,088, 2-2-60, Cl. 46-58.
- Perez, George R.: *See*—
- Rayburn, Charles C., Black, and Perez. 2,949,148.
- Perez, Guillermo, to Royal McBee Corp. Signal printing interlock mechanisms. 2,934,193, 4-26-60, Cl. 197-5.
- Perez, Guillermo, E. H. Dreher, and R. H. Arthur, to Royal McBee Corp. Reader punch unit. 2,965,170, 12-20-60, Cl. 164-115.
- Perfect Circle Corp.: *See*—
- Brenneke, Arthur M. 2,951,732.
- Hill, Robert H. 2,940,395.
- Jones, Cernyw F. 2,922,222.
- Mahoney, Marvin D. 2,958,985.
- Teator, Ralph R. 2,966,224.
- Perfect Doll Moulds Co. Inc.: *See*—
- Lombardo, Vincent, and Newfield. 2,926,387.
- Perfection Mica Co.: *See*—
- Milloit, Henry A. 2,958,724.
- Peri, Cesare A.: *See*—
- Fusco, Raffaello, Losco, and Peri. 2,951,851.
- Losco, Giuseppe, and Peri. 2,947,663.
- Peri, Cesare A., to Montecatini, Società Generale per l'Industria Mineraria e Chimica. Process for the preparation of arsenic xanthates and parasiticide compositions produced thereby. 2,946,814, 7-26-60, Cl. 260-440.
- Pèrières, René, and R. Bollack, to Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Process for making aluminum nitride. 2,962,359, 11-29-60 Cl. 23-192.
- Perini, Harry R.: *See*—
- Tanenbaum, Morton S., and Perini. 2,961,621.
- Perini, Louis A.: *See*—
- Leber, Henry, and Perini. 2,962,379.
- Perini, Mario: *See*—
- Fusco, Raffaello, Losco, and Perini. 2,947,662.
- Perish, Peter W., to General Motors Corp. Pump means. 2,922,374, 1-26-60, Cl. 103-111.
- Perkel, Harold: *See*—
- Ford, John R., Kruger, and Perkel. 2,947,989.
- Perkey, Russell C., and F. R. Rogers, to The Bendix Corp. Signal combining apparatus. 2,962,911, 12-6-60, Cl. 74-388.
- Perkin-Elmer Corp.: *See*—
- Atwood, John G. 2,932,743.
- Golay, Marcel J. E. 2,920,478.
- Kelley, Gaynor N. 2,960,183.
- Landsman, Robert M. 2,962,217.
- Purcell, Edward M. 2,962,636.
- Scott, Larkin B. 2,956,221.
- Perkins, Alfred J.: *See*—
- Perkins, Warren E. and A. J., and Szpakowski. 2,935-777.
- Perkins, Alfred J., to Perkins Pipe Linings, Inc. Pipe lining machine. 2,922,583, 1-26-60, Cl. 239-215.
- Perkins, B. F., & Son, Inc.: *See*—
- Zimmerli, Kurt. 2,936,699.
- Zimmerli, Kurt. 2,941,465.
- Perkins, Beulah: *See*—
- Perkins, Starling. 2,930,200.
- Perkins, Charles H., to Robertshaw-Fulton Controls Co. Flow control device. 2,950,733, 8-30-60, Cl. 137-495.
- Perkins, Charles M.: *See*—
- Backus, Thomas, and Perkins. 2,932,371.
- Backus, Thomas, and Perkins. 2,934,185.
- Backus, Thomas, Perkins, and Visser. 2,924,111.
- McNamara, Thomas V., and Perkins. 2,943,719.
- Perkins, Charles M., to Fuller Mfg. Co. Power shifted auxiliary transmission. 2,923,175, 2-2-60, Cl. 74-740.
- Perkins, Charles M., to Fuller Mfg. Co. Change speed gearing. 2,923,389, 2-2-60, Cl. 192-53.
- Perkins, Charles M., and T. V. McNamara, to Fuller Mfg. Co. Apparatus for the synchronizing and shifting of rotating shiftable toothed elements. 2,943,502, 7-5-60, Cl. 74-339.
- Perkins, Corles M., to Minneapolis-Honeywell Regulator Co. Automatic control apparatus for aircraft. 2,960,284, 11-15-60, Cl. 244-77.
- Perkins, Dana P., to Bendix Aviation Corp. Combustor having high turbulent mixing for turbine-type starter. 2,930,194, 3-29-60, Cl. 60-39.65.
- Perkins, Denis G., to Electric & Musical Industries Ltd. Circuits embodying television pick-up tubes. 2,938,076, 5-24-60, Cl. 178-12.
- Perkins, Earle C. Toy airplane. 2,921,405, 1-19-60, Cl. 46-77.
- Perkins, George D.: *See*—
- Hall, Lawrence G., and Perkins. 2,963,335.
- Perkins, George D., to Consolidated Electrodynamics Corp. Direct writing oscillograph. 2,925,310, 2-16-60, Cl. 346-74.
- Perkins, George D., to Bell & Howell Co. Self-stepping reversible relay chain. 2,935,658, 5-3-60, Cl. 317-140.
- Perkins, Glenn H., to Oxford Paper Co. Planographic printing plate provided with a methylolated polyacrylamide coating and process of making. 2,930,317, 3-29-60, Cl. 101-149.2.
- Perkins, Harley A., Jr.: *See*—
- Kernick, Andrew, and Perkins. 2,953,740.
- Perkins, Harley A., Jr., to Westinghouse Electric Corp. Oscillator circuit. 2,937,287, 5-17-60, Cl. 307-88.
- Perkins, Luther F. Oil gauge. 2,926,526, 3-1-60, Cl. 73-313.
- Perkins, Melvin A., A. Oken, and M. S. Whelen, to E. I. du Pont de Nemours and Co. Bz-phenyl metal phthalocyanine precursors. 2,957,004, 10-18-60, Cl. 260-314.5.
- Perkins, Norwood K., B. E. Toben, and H. S. Beattie, to International Business Machines Corp. Teaching machine. 2,937,455, 5-24-60, Cl. 35-9.
- Perkins Pipe Linings, Inc.: *See*—
- Perkins, Alfred J. 2,922,583.
- Perkins, Warren E. 2,924,867.
- Perkins, Warren E. and A. J., and Szpakowski. 2,935-777.
- Perkins, Ralph W.: *See*—
- Faiver, Kenneth E., and Perkins. 2,955,841.
- Perkins, Richard E., and W. D. Bragdon, to Sylvania Electric Products Inc. Electric discharge lamp starting device. 2,929,960, 3-22-60, Cl. 315-100.
- Perkins, Starling, 1/2 to B. Perkins. Portable apparatus for supporting off shore drilling equipment. 2,930,200, 3-29-60, Cl. 61-46.5.
- Perkins, Starling. Cofferdam. 2,931,187, 4-5-60, Cl. 61-82.
- Perkins, Warren E., to Perkins Pipe Linings, Inc. Pine lining troweling apparatus. 2,924,867, 2-16-60, Cl. 25-38.
- Perkins, Warren E. and A. J., and R. J. Szpakowski, to Perkins Pipe Linings, Inc. Pipelining apparatus. 2,935-777, 5-10-60, Cl. 25-38.
- Perkins, William C., to Collins Radio Co. Low distortion balanced modulator. 2,958,051, 10-25-60, Cl. 332-47.
- Perkins, William E.: *See*—
- Grandy, Andrew J., and Perkins. 2,938,432.
- Perkow, Werner, to Norddeutsche Affinerie, and Firma C. F. Spiess and Sohn. Dichloro vinyl phosphonic acid esters. 2,956,920, 10-18-60, Cl. 167-22.
- Perkow, Werner, to C. F. Spiess, & Sohn. Method of preparing phosphorus containing insecticidal compounds. 2,957,020, 10-18-60, Cl. 260-461.
- Perks, Roy P., to The International Nickel Co., Inc. Apparatus for the production of metal strip from metal powder. 2,922,189, 1-26-60, Cl. 18-9.
- Perla, Martin R., to The Singer Mfg. Co. Sewing machine work-supporting beds. 2,945,461, 7-19-60, Cl. 112-260.
- Perla, Martin R., to The Singer Mfg. Co. Supporting bases for cylinder bed machines. 2,947,271, 8-2-60, Cl. 112-260.
- Perle, Abe J., to Bendix Aviation Corp. Combustion fuel atomizer. 2,938,345, 5-31-60, Cl. 60-39.74.
- Perle, Abe J., to The Bendix Corp. Combustion chamber liquid fuel flow control means. 2,955,423, 10-11-60, Cl. 60-39.28.
- Perlewitz, Robert E., to Tecumseh Products Co. Pressurized proportional mixing device. 2,935,057, 5-3-60, Cl. 123-73.
- Perlman, Yaakov. Beverage-making machine. 2,935,011, 5-3-60, Cl. 99-283.



- Perls, Thomas A., and C. W. Klissinger, to United States of America, Commerce, Resonant-beam calibrator. 2,958,216, 11-1-60, Cl. 73-1.
- Perlit, Sigfred B. J., Washing plants having a plurality of individual, separably operable washing units. 2,932,184, 4-12-60, Cl. 68-27.
- Permachem Corp.: See—  
Leatherland, Lawrence C. 2,957,785.  
Lutz, Garson A., and Sharpe. 2,951,811.
- Permanent Filter Corp.: See—  
Howard, Herbert H. 2,946,446.  
Price, Harold A. 2,943,594.  
Price, Harold A. 2,950,838.
- Permanent Mold & Die Co., Inc.: See—  
Davis, Cray. 2,965,938.
- Permold Co., The: See—  
Jackson, Sidney W., and Fahlman. 2,932,070.
- Permutit Co. Ltd., The: See—  
Bott, Hugh R. 2,933,444.  
Kressman, Theodore R. E. 2,923,674.
- Perraud, Roger, to A. J. Fagard, et Cie. Fountain pen. 2,956,548, 10-18-60, Cl. 120-46.
- Perrault, Arthur, to B. O. Gustafson and an undivided fractional interest to R. L. Dugger. Machine for packaging soft printed butter. 2,945,334, 7-19-60, Cl. 53-64.
- Perrault, Lewis, to H. D. Boggs Co., Ltd. Pipe ejector-pull out. 2,940,119, 6-14-60, Cl. 18-2.
- Perraut, Jean M., to Compagnie de St. Gobain. Delivery device in the drawing of glass. 2,950,572, 8-30-60, Cl. 49-61.
- Perret, Joseph D., Jr., to W. R. Grace & Co. Cyanuric acid preparation. 2,952,679, 9-13-60, Cl. 260-248.
- Perrett, Leslie A., to Anstee & Ware Ltd. Devices for testing rotary machines, electric motors, generators and the like. 2,939,074, 5-31-60, Cl. 324-51.
- Perretz, Clarence H., to Flexible Products, Inc. Mattress handle and ventilator assembly. 2,937,386, 5-24-60, Cl. 5-345.
- Perri, Frank B.: See—  
Du Grenier, Francis C., and Perri. 2,966,279.
- Perriam, Leonard T.: See—  
Bryant, John D. W., and Perriam. 2,955,253.
- Perriam, Leonard T., and S. S. Goldberg, to Imperial Chemical Industries Ltd. Probe device for flaw detection. 2,964,699, 12-13-60, Cl. 324-37.
- Perrier, Robert, and H. S. Mickley, to Fairchild Engine and Airplane Corp. Propulsion motor. 2,930,337, 3-29-60, Cl. 114-20.
- Perrin, Jean A., to Societe Le Carbone-Lorraine. Carbon arrangements for high-intensity electric arcs. 2,946,913, 7-26-60, Cl. 313-231.
- Perrin, Phillip G. Packaging machine. 2,952,954, 9-20-60, Cl. 53-35.
- Perrin, Tom S., R. G. Banner, and R. C. Smith, to Diamond Alkali Co. Alkali metal aluminates. 2,926,069, 2-23-60, Cl. 23-52.
- Perrin, Tom S., and R. G. Banner, to Diamond Alkali Co. Process for making basic chromic chlorides. 2,928,723, 3-15-60, Cl. 23-37.
- Perrine, Emmett B. Selective trigger pull mechanism. 2,965,993, 12-27-60, Cl. 42-69.
- Perrine, John C., Jr., to Olin Mathieson Chemical Corp. Production of trialkylboranes. 2,939,885, 6-7-60, Cl. 260-606.5.
- Perrine, Sterling O., to The Wean Engineering Co., Inc. Reel for strip material. 2,941,745, 6-21-60, Cl. 242-72.1.
- Perrine, Warren L. Multiple motion mechanical integrator. 2,956,439, 10-18-60, Cl. 74-198.
- Perrino, Frank A., to Reverend J. F. McCabe. Rotary grass trimmer. 2,934,876, 5-3-60, Cl. 56-25.4.
- Perron, Yvon G.: See—  
Johnson, David A., Hardcastle, and Perron. 2,936,307.
- Perrone, Arrigo, and A. Salvi. Spacer for twin and multiple conductors of high voltage aerial transmission lines. 2,953,624, 9-20-60, Cl. 174-40.
- Perrot, Jean J.: See—  
Henquet, André J., and Perrot. 2,944,115.
- Perry, Albert D., Jr., to Bell Telephone Laboratories, Inc. Rapid lock-in flywheel synchronizing system. 2,957,045, 10-18-60, Cl. 178-69.5.
- Perry, Arthur G., and P. Gilfix, to Lelanite Corp. Controlled density cushioning. 2,922,559, 1-28-60, Cl. 229-14.
- Perry, Brian R.: See—  
McLean, William B., and Perry. 2,953,310.
- Perry Chain Co. Ltd.: See—  
Blakstad, Nigel H. 2,963,918.
- Perry, Charles A., to The Rola Co., Inc. Method of assembly of a loud speaker. 2,949,663, 8-23-60, Cl. 29-155.59.
- Perry, Charles A., to The Rola Co., Inc. Loud speaker assembly. 2,950,359, 8-23-60, Cl. 179-115.5.
- Perry, Clarence H.: See—  
Tebb, Bernard, and Perry. 2,959,922.
- Perry, D. Cameron, to Armco Steel Corp. Method for hardening chromium-nickel stainless steel. 2,958,617, 11-1-60, Cl. 148-125.
- Perry, Dan E., to Phillips Petroleum Co. Snap friction locking device. 2,926,409, 3-1-60, Cl. 24-217.
- Perry, Donald D.: See—  
Mann, David J., Perry, and Dudak. 2,941,010.
- Perry, Donald S. Parking windshield wiper. 2,934,965, 5-3-60, Cl. 74-70.
- Perry, Donald S., A. N. Kaiser, and J. A. Purdy, to The Electric Auto-Lite Co. Parking windshield wiper. 2,960,881, 11-22-60, Cl. 74-70.
- Perry, Edward G., to Texas Instruments Inc. Seismic record viewer. 2,928,489, 3-15-60, Cl. 181-5.
- Perry, Edmund G.: See—  
Rangabe, Alexander R., and Perry. 2,938,549.
- Perry, Edward G. Method and apparatus for the remote control of a lawn mower. 2,941,346, 6-21-60, Cl. 56-26.
- Perry, Edward G., to Texas Instruments Inc. Aerial camera. 2,955,518, 10-11-60, Cl. 95-12.5.
- Perry, Elijah R.: See—  
Timmerman, Julius W., and Perry. 2,941,545.
- Perry, Fay R. Sled runner for tractors. 2,932,525, 4-12-60, Cl. 280-13.
- Perry, Forbes G. D., to Perbury Engineering Ltd. Infinitely variable change speed gears. 2,956,441, 10-18-60, Cl. 74-200.
- Perry, Forbes G. D., to Perbury Engineering Ltd. Infinitely variable change speed gears. 2,959,063, 11-8-60, Cl. 74-208.
- Perry, Harold O. Tooth brush. 2,956,749, 10-18-60, Cl. 239-24.
- Perry, James W., W. R. Johnson, and J. H. Frazer. Process of making propellants for rockets. 2,929,697, 3-22-60, Cl. 52-5.
- Perry, John R., to General Electric Co. Accelerometers. 2,947,176, 8-2-60, Cl. 73-517.
- Perry Knitting Co., The: See—  
Heilbronner, Harry S. 2,929,072.
- Perry, Landis H., 35% to J. E. Meagher and 15% to T. C. Ellington. Combination lock. 2,957,355, 10-25-60, Cl. 70-25.
- Perry, Mary I. Educational manipulative device and method of teaching. 2,961,779, 11-29-60, Cl. 35-73.
- Perry, Milton A.: See—  
Hagemeyer, Hugh J., Jr., Hull, and Perry. 2,941,011.  
Hagemeyer, Hugh J., Jr., and Perry. 2,921,089.
- Perry, Nathaniel C. Truck attachment. 2,931,526, 4-5-60, Cl. 214-302.
- Perry, Nelson I. Combined accelerator and foot brake. 2,936,867, 5-17-60, Cl. 192-3.
- Perry, Robert H., Jr.: See—  
Bown, Delos E., Earhart, Perry, and Nicholson. 2,945,899.
- Perry, Robert H., Jr., to Esso Research and Engineering Co. Ozonolysis of norbornylenes. 2,963,487, 12-6-60, Cl. 260-339.
- Perry, Roger L.: See—  
Pierce, Melbourne H., Perry, and Adami. 2,946,457.
- Perry, Stephen F., to Esso Research and Engineering Co. Liquid phase butane isomerization process. 2,938,062, 5-24-60, Cl. 260-683.75.
- Perry, Sydney W. H., to Power Jets (Research and Development) Ltd. Gas turbine plant. 2,937,495, 5-24-60, Cl. 60-35.6.
- Perry, Sydney W. H., to Power Jets (Research and Development) Ltd. Mounting of swivelling guide vane elements in elastic fluid machines. 2,950,084, 8-23-60, Cl. 253-78.
- Perry, William M., to General Aniline & Film Corp. Resin coatings for glass materials. 2,958,614, 11-1-60, Cl. 117-126.
- Perry, William M., and G. G. Stoner, to General Aniline & Film Corp. Treatment of vegetable beverages. 2,947,633, 8-2-60, Cl. 99-48.
- Perry, Winthrop L., to Abbott Machine Co., Inc. Automatic tension device. 2,965,332, 12-20-60, Cl. 242-150.
- Perryman, John S., to Curtiss-Wright Corp. Aircraft propeller spinners. 2,924,282, 2-9-60, Cl. 170-160.23.
- Pershon, Victor: See—  
Henderson, William P., and Pershon. 2,953,253.
- Persinger, Narry L. Barbecue igniting device. 2,922,016, 1-19-60, Cl. 219-32.
- Person, Robert P., to Boeing Airplane Co. Articulated aircraft refueling boom. 2,949,265, 8-16-60, Cl. 244-135.
- Personal Products Corp.: See—  
Adams, Warren E., and Wilder. 2,942,831.  
Ashton, William H., and Morse. 2,964,040.  
Ashton, William H., and Morse. 2,964,041.  
Burgeni, Alfred A. 2,952,259.  
Burgeni, Alfred A. 2,952,260.  
Burgeni, Alfred A. 2,955,641.  
Graham, George C., Jr., and Barlow. 2,934,068.  
Johnson, Robert W., Jr., Mortimer, and Ashton. 2,964,039.  
Morse, Edward A. 2,932,052.  
Roberts, Donald R. 2,928,394.  
Schirmer, Henry G., and McGuire. 2,965,101.
- Persson, Eric S. Frame structures. 2,928,144, 3-15-60, Cl. 20-56.5.
- Persson, Ernest, to Friden, Inc. Numbering apparatus. 2,923,233, 2-2-60, Cl. 101-76.
- Persson, Ernest, to Friden, Inc. Printing and inking means. 2,927,532, 3-8-60, Cl. 101-235.
- Persson, Henry. Grinding tool. 2,944,374, 7-12-60, Cl. 51-110.
- Persson, Janne O.: See—  
Bergstrom, Lars O., and Persson. 2,940,390.
- Persson, John A.: See—  
Butler, Thomas E., and Persson. 2,922,028.



- Persson, Per O. R., to Telefonaktiebolaget L M Ericsson. Polarized magnet arrangement. 2,928,028, 3-8-60, Cl. 317-172.
- Persson, Severus, to Ago Steel Radiators of Canada Ltd. Baseboard radiator. 2,930,591, 3-29-60, Cl. 257-133.
- Persson, Sixten I.: *See*—  
Larsson, Gösta E., Persson, and Ahlström. 2,921,514.
- Persson, Sten I., and W. A. Leet, to General Dynamics Corp. Coal-rock sensing system. 2,944,804, 7-12-60, Cl. 262-7.
- Persson, Sven H.: *See*—  
Wiklundh, Leif S.-E., Persson, and Holm. 2,944,924.
- Persson, Walther P. S.: *See*—  
Nilsson, Hans R., and Persson. 2,936,160.
- Pertrix-Union G.m.b.H.: *See*—  
Huber, Richard, and Zottmann. 2,942,057.
- Pertuiset, Noel: *See*—  
Lorenson, Aldo, Pertuiset, and Reinhardt. 2,940,791.
- Pertwee, Kenneth S. G., to General Electric Co. Filament joint for incandescent lamps. 2,961,568, 11-22-60, Cl. 313-271.
- Pervi Auto Stamp Corp.: *See*—  
Grubelic, Nicholas. 2,952,375.
- Perzentka, Thomas R., to A. B. Dick Co. Sheet separating mechanism for duplicators. 2,922,644, 1-26-60, Cl. 271-39.
- Pesa, Henry S., and L. Schleicher, to The National Cash Register Co. Pressure sensitive transfer record sheet. 2,932,582, 4-12-60, Cl. 117-36.
- Pesce, Fred. Land rakes. 2,950,551, 8-30-60, Cl. 37-145.
- Pesch, Herman: *See*—  
Columbus, John, Pesch, and Wilcox. 2,936,702.
- Pesch, Herman, and I. L. Wilcox, to Sealright-Oswego Falls Corp. Container closure. 2,934,232, 4-26-60, Cl. 215-41.
- Peschke, Wilhelm: *See*—  
Haack, Erich, Dimroth, Hagedorn, Heimberger, and Peschke. 2,957,916.
- Peschong, John R. Fish lure. 2,954,634, 10-4-60, Cl. 43-42.09.
- Pesek, Clarence T., and M. H. Riesgraf, to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,964,951, 12-20-60, Cl. 74-5.1.
- Pessel, Leopold, to Radio Corp. of America. Method of sintering and nitriding ferrous bodies. 2,933,386, 4-19-60, Cl. 75-224.
- Pessel, Leopold, and T. Q. Dziemianowicz, to Radio Corp. of America. Thermoelectric compositions and devices utilizing them. 2,953,616, 9-20-60, Cl. 136-5.
- Pessina, Raffaele: *See*—  
Justoni, Romeo, and Pessina. 2,944,064.  
Justoni, Romeo, and Pessina. 2,945,046.  
Justoni, Romeo, and Pessina. 2,947,757.
- Pessolano, Arsenio A.: *See*—  
Clark, Robert L., and Pessolano. 2,933,503.  
Clark, Robert L., and Pessolano. 2,953,598.  
Pfister, Karl, III, and Pessolano. 2,947,753.
- Pessolano, Arsenio A. and R. L. Clark, to Merck & Co., Inc. Acyl hydrazines. 2,944,071, 7-5-60, Cl. 260-404.5.
- Pestel, Guenther, F. C. Langenberg, and C. R. Honeycutt, to Crucible Steel Co. of America. Production of fine grained metal castings. 2,963,758, 12-13-60, Cl. 22-216.
- Pestemer, Max, W. Siefken, and O. Bayer, to Farbenfabriken Bayer Aktiengesellschaft. Shaped articles containing 2,4-dihydroxy-benzoyl furane. 2,965,578, 12-20-60, Cl. 252-300.
- Pester, William B., to Sylvania Electric Products Inc. Projector tilt adjustment. 2,944,776, 7-12-60, Cl. 248-11.
- Pester, William B., and E. A. Waggoner, to Sylvania Electric Products Inc. Slide magazine. 2,931,115, 4-5-60, Cl. 40-79.
- Pet Milk Co.: *See*—  
Baumann, Marie C. 2,947,460.
- Petek, Alvin A., to Container Corp. of America. Carton. 2,959,323, 11-8-60, Cl. 220-115.
- Peteler, George P.: *See*—  
De Maio, Gus H., and Peteler. 2,925,358.
- Peter, Cecil M.: *See*—  
Swift, Harvey C., and Peter. 2,945,691.
- Peter, Rolf W., to Radio Corp. of America. Traveling wave tube. 2,925,515, 2-16-60, Cl. 315-3.5.
- Peterelt, Lothar H., to Morgan Construction Co. Rolling mill. 2,927,488, 3-8-60, Cl. 80-31.1.
- Peterhans, Ernst: *See*—  
Guyer, August, Hess, Marti, Peterhans, and Zollinger. 2,955,916.
- Peterl, Robert, to Compagnie de Saint-Gobain. Extraction of cellulose from vegetable matter. 2,947,657, 8-2-60, Cl. 162-76.
- Petering, Harold G.: *See*—  
Lytle, Douglas A., and Petering. 2,957,875.
- Petering, Wilbur H.: *See*—  
Pallenberg, Joseph C., and Petering. 2,952,713.
- Peterka, Henri. Glass holding means with an embellisher. 2,951,668, 9-6-60, Cl. 248-28.
- Peterkin, Ernest W. Navigation instrument. 2,953,298, 9-20-60, Cl. 235-61.
- Peterlein, Karl, to Gelsenberg Benzin Aktiengesellschaft. Method of polymerizing ethylene. 2,956,994, 10-18-60, Cl. 260-94.9.
- Peterll, Hans J.: *See*—  
Gysling, Hermann, and Peterll. 2,936,290.
- Petermann, Lucien A.: *See*—  
Borel, Jean-Pierre, and Petermann. 2,956,327.
- Petermann, Lucien A., to Gulton Industries, Inc. Ultrasonic soldering pot. 2,926,622, 3-1-60, Cl. 113-111.
- Petermann, Lucien A., to Gulton Industries, Inc. Transducer. 2,928,069, 3-8-60, Cl. 340-10.
- Peters, Arthur C.: *See*—  
Hepner, Charles, and Peters. 2,965,247.
- Peters, Arthur C., to United-Carr Fastener Corp. Terminal grounding strap. 2,941,179, 6-14-60, Cl. 339-14.
- Peters, Beldon A., to Jersey Production Research Co. Radiation emitting target cooler. 2,935,633, 5-3-60, Cl. 313-32.
- Peters, Beldon A., and J. A. Rickard, to Jersey Production Research Co. Adjustable ion collector slit for mass spectrometer. 2,946,886, 7-26-60, Cl. 250-41.9.
- Peters, Clarence E.: *See*—  
Miller, Thomas V., and Peters. 2,926,453.
- Peters, Clifford M.: *See*—  
Brown, Norman F., Peters, and Dinning. 2,940,477.  
Garrett, Henry U., and Peters. 2,924,278.
- Peters, Edwin F., and B. L. Evering, to Standard Oil Co. Catalysts and catalytic preparations. 2,936,291, 5-10-60, Cl. 252-431.
- Peters, Edwin F., and B. L. Evering, to Standard Oil Co. Catalysts and their preparation. 2,963,447, 12-6-60, Cl. 252-430.
- Peters, Forrest I.: *See*—  
Bickford, Fred A., and Peters. 2,933,766.
- Peters, Gerhard W. Electric controller. 2,927,256, 3-1-60, Cl. 317-157.
- Peters, George R., to Ross-Tacony Crucible Co. Long lip crucible. 2,948,522, 8-9-60, Cl. 263-48.
- Peters, Grace A.: *See*—  
Schaefer, Frederic C., and Peters. 2,953,563.
- Peters, Guilford B., to Stapling Machines Co. Clip for joining wirebound containers. 2,929,527, 3-22-60, Cl. 217-13.
- Peters, Harold P., to Whirlpool Corp. Support assembly. 2,940,711, 6-14-60, Cl. 248-205.
- Peters, James: *See*—  
Lavoie, Andrew J., Holthaus, Peters, and Leone. 2,940,695.
- Peters, John: *See*—  
Jones, Merton H., and Peters. 2,939,190.
- Peters, John G.: *See*—  
Cantrell, Troy L., and Peters. 2,920,944.  
Cantrell, Troy L., and Peters. 2,934,500.  
Cantrell, Troy L., Peters, and Smith. 2,943,053.  
Cantrell, Troy L., Peters, and Summers. 2,966,460.
- Peters, Kurt. Separation and purification of metals. 2,943,101, 6-28-60, Cl. 260-429.1.
- Peters, Kurt. Ethylene production process. 2,960,518, 11-15-60, Cl. 260-449.6.
- Peters Machinery Co.: *See*—  
Boehler, Joseph. 2,928,520.  
Fay, Rudolph J. 2,936,557.
- Peters, Melville F. Fluid pressure systems. 2,932,203, 4-12-60, Cl. 74-18.2.
- Peters, Melville F. Control of torque and fluid flow in sealed drives. 2,934,920, 5-3-60, Cl. 64-32.
- Peters, Melville F. Vibration damping in fluid seals. 2,942,838, 6-28-60, Cl. 251-54.
- Peters, Melville F. High temperature coil structure. 2,944,235, 7-5-60, Cl. 336-199.
- Peters, Norman K.: *See*—  
Hegg, Billy S., and Peters. 2,955,416.
- Peters, Otto, to Kurt Korber & Co., K.G. Tobacco feeding devices for cigarette making machines. 2,940,795, 6-14-60, Cl. 302-59.
- Peters, Philip H., Jr., to General Electric Co. Magnetron device and system. 2,928,987, 3-15-60, Cl. 315-39.55.
- Peters & Russell, Inc.: *See*—  
Russell, Linus E. 2,959,137.
- Peters Stamping Co. The: *See*—  
Claus, William A. 2,937,540.  
Roesch, George R. 2,932,981.
- Peters, Theodore J., and A. Gathman, to Esso Research and Engineering Co. Removal of sulfur contaminants from hydrocarbon streams. 2,962,537, 11-29-60, Cl. 260-677.
- Peters, Walter B.: *See*—  
Mastrobattista, Alex A., Bieling, and Peters. 2,930,643.
- Peters, William D.: *See*—  
Parsons, James R., and Peters. 2,939,953.
- Peters, William D., and D. E. Lupfer, to Phillips Petroleum Co. Apparatus for continuous instrument sampling. 2,955,457, 10-11-60, Cl. 73-23.
- Peters, William H.: *See*—  
Sterrett, Vance C., and Peters. 2,946,343.
- Peters, William H. Holder for milk cartons. 2,936,927, 5-17-60, Cl. 220-85.
- Petersen, Axel L. Rotary engine. 2,949,100, 8-16-60, Cl. 123-43.
- Petersen, Byron F., 1/4 to C. L. Drew. Phonograph record extractor. 2,932,387, 4-12-60, Cl. 206-56.
- Petersen, Dale E.: *See*—  
Smith, Andrew N., Petersen, and Oliver. 2,919,890.
- Petersen, Gerald A. Adapter for pulling eye. 2,942,313, 6-28-60, Cl. 24-126.
- Petersen, Gerald A., and R. W. Goode, said Goode assor. to said Petersen. Retractable wheels for vehicle. 2,961,249, 11-22-60, Cl. 280-34.
- Petersen, Gerald A. M.: *See*—  
Goode, Robert W. 2,939,647.  
Goode, Robert W. 2,959,253.



- Petersen, Gerald A. M. Cable stringing apparatus. 2,948,483, 8-9-60, Cl. 242-54.
- Petersen, Gerald A. M. Reversible tooth for earth digging equipment. 2,952,085, 9-13-60, Cl. 37-142.
- Petersen, Gerald A. M. Bull wheel structure for cable tension stringing mechanism. 2,954,702, 10-4-60, Cl. 74-230.7.
- Petersen, Gerald A. M., R. W. Goode, and R. W. Selleck; said Goode and said Selleck assors, to said Petersen. Reel carrier with loading and unloading mechanism therefor. 2,958,478, 11-1-60, Cl. 242-86.5.
- Petersen, Harold. Sidewalk and curb edger. 2,928,479, 3-15-60, Cl. 172-16.
- Petersen, John S.: See—
- Blecker, Raymond H., Petersen, and Unwin. 2,943,333.
- Petersen, Kai F.: See—
- Carlsson, Peter M., and Petersen. 2,954,285.
- Petersen, Karl, and J. Schlichtkrull, to Novo Therapeutisk Laboratorium A/S. Insulin crystals and preparations and processes for producing them. 2,920,014, 1-5-60, Cl. 167-75.
- Petersen, Louis, to F. L. Smith & Co. Rotary drum grinder and plural separator circuit. 2,932,460, 4-12-60, Cl. 241-52.
- Petersen, Paul S.: See—
- Bergsland, Charles H., Neumeier, and Petersen. 2,949,665.
- Petersen, Peter L., and R. M. Merrill, to Lockheed Aircraft Corp. Deflection measuring device. 2,924,883, 2-16-60, Cl. 33-125.
- Petersen, Quentin R. Molecular model demonstration apparatus. 2,962,820, 12-6-60, Cl. 35-18.
- Petersen, Raymond C., to Sprague Electric Co. Electrolytes for electrolytic capacitors. 2,965,817, 12-20-60, Cl. 317-230.
- Petersen, Raymond C., S. D. Ross, and M. Finkelstein, to Sprague Electric Co. Electrical capacitors. 2,965,690, Cl. 317-230.
- Petersen, Richard O. A., to J. L. Burns, as trustee. Method for casting buttons and the like. 2,948,019, 8-9-60, Cl. 18-47.5.
- Petersen, Siegfried: See—
- Gauss, Walter, Petersen, and Domagk. 2,964,522.
- Petersen, Siegfried, and G. Domagk, to Schenley Industries Inc. N-guanido-N'-thioureido-p-quinonediimide, the corresponding phenylenediamine derivatives and certain salts and hydrates. 2,938,041, 5-24-60, Cl. 260-396.
- Petersen, Adolphe C. Axial flow gas turbine. 2,929,207, 3-22-60, Cl. 60-39.15.
- Petersen, Adolphe C. Gas turbine and gas generator means. 2,941,355, 8-21-60, Cl. 60-39.15.
- Petersen, Adolphe C. Power turbine and pressure fluid means. 2,955,422, 10-11-60, Cl. 60-39.18.
- Petersen, Adolphe C. Turbine and rotor arrangement and drive means. 2,955,657, 10-11-60, Cl. 170-135.28.
- Petersen, Albert G. Pitch gage for buttress type screw threads. 2,937,453, 5-24-60, Cl. 33-199.
- Petersen, Aldon M. Combination sill and threshold. 2,963,752, 12-13-60, Cl. 20-11.
- Petersen, Benjamin R., Jr.: See—
- Cummings, Thomas N., Peterson, and Shiu. 2,925,102.
- Cummings, Thomas N., Peterson, and Shiu. 2,925,347.
- Cummings, Thomas N., Peterson, and Shiu. 2,936,161.
- Cummings, Thomas N., Peterson, and Shiu. 2,936,798.
- Saidel, William R. 2,966,292.
- Petersen, Bertil E., to Cardwell Westinghouse Co. Method and device for removing draft gear. 2,956,336, 10-18-60, Cl. 29-261.
- Petersen, C. Lynn, to Peterson Filters & Engineering Co. Quick opening pressure filter. 2,933,190, 4-19-60, Cl. 210-230.
- Petersen, C. Lynn, and B. L. Derringe, to Peterson Filters & Engineering Co. High density thickener. 2,946,448, 7-26-60, Cl. 210-331.
- Petersen, Carl O., and N. J. Spindler, to Watson Mfg. Co., Inc. Combination of covers for open top receptacles. 2,943,903, 7-5-60, Cl. 312-311.
- Petersen, Charles J., to United Aircraft Corp. Gas flow straightening vanes. 2,938,336, 5-31-60, Cl. 60-39.5.
- Petersen, Charles W., to United States of America, Navy. Infrared telescope. 2,920,136, 1-5-60, Cl. 178-6.
- Petersen, Clarence G. Bag filling and handling means. 2,940,482, 6-14-60, Cl. 141-95.
- Petersen, Durey H.: See—
- Murray, Herbert C., and Peterson. 2,920,073.
- Petersen, Edgar M., to Crane Co. Boiler safety device. 2,930,866, 8-29-60, Cl. 200-81.
- Petersen, Edward C., to Birdsboro Steel Foundry and Machine Co. Flying shear. 2,924,136, 2-9-60, Cl. 83-306.
- Petersen, Edward C., to Birdsboro Corp. Bar turner. 2,931,256, 4-5-60, Cl. 80-53.
- Petersen, Edward S., to General Telephone Laboratories, Inc. Variable message length automatic recorder announcer. 2,934,609, 4-26-60, Cl. 179-100.1.
- Petersen, Edward S., to Automatic Electric Laboratories, Inc. Impulsing generating circuits. 2,946,853, 7-26-60, Cl. 179-17.
- Petersen, Edward T., to Birdsboro Steel Foundry and Machine Co. Rolling mill transfer. 2,930,472, 3-29-60, Cl. 198-24.
- Peterson, Edward W., to Brown & Bigelow. Personalizing calendars by printing press. 2,931,293, 4-5-60, Cl. 101-55.
- Peterson, Edwin F. Blow tube for core blowing machines. 2,933,786, 4-26-60, Cl. 22-10.
- Peterson, Edwin F. Magnetically impelled ball vibrator. 2,945,386, 7-19-60, Cl. 74-87.
- Peterson, Edwin F. Motor driven vibrator. 2,953,282, 9-20-60, Cl. 222-196.
- Peterson, Edwin F. Vibrator system. 2,958,227, 11-1-60, Cl. 74-61.
- Peterson, Elwin W., to Dresser Industries, Inc. Signaling system. 2,964,116, 12-13-60, Cl. 175-48.
- Peterson Filters & Engineering Co.: See—
- Peterson, C. Lynn. 2,933,190.
- Peterson, C. Lynn, and Derringe. 2,946,448.
- Peterson, Floyd V. Electrical precipitator apparatus of the liquid spray type. 2,949,168, 8-16-60, Cl. 183-7.
- Peterson, Frank C., and N. Goodwin, to said Peterson, said Goodwin and G. G. Sanders, as trustees, jointly. Means for mineral classification and separation. 2,963,155, 12-6-60, Cl. 209-457.
- Peterson, Fred, to Brown & Bigelow. Article for attaching to a vehicle visor. 2,931,114, 4-5-60, Cl. 40-10.
- Peterson, Fred M. Air thrust boat. 2,948,250, 8-9-60, Cl. 115-5.
- Peterson, Frederick J., to Studebaker-Packard Corp. Fuel control means for rotary wing aircraft. 2,965,178, 12-20-60, Cl. 170-135.4.
- Peterson, Gene R.: See—
- Samsel, Richard W., and Peterson. 2,928,068.
- Peterson, Gerald D. Wall construction. 2,944,641, 7-12-60, Cl. 189-34.
- Peterson, Glen. Terminal rings for inductive devices. 2,964,722, 12-13-60, Cl. 336-192.
- Peterson, Harley G., to Joy Mfg. Co. Reciprocating drag conveyor. 2,964,126, 12-13-60, Cl. 183-7.
- Peterson, Herbert C., to United States of America, Navy. New signal indicator for panoramic receiver using two magnetic recorders. 2,931,899, 4-5-60, Cl. 250-20.
- Peterson, Herbert L.: See—
- Finney, William J., and Peterson. 2,955,203.
- Peterson, Ivan A., to Phillips Petroleum Co. Aluminum chloride-hydrocarbon complex sludge catalyst separation. 2,945,910, 7-19-60, Cl. 260-683.74.
- Peterson, Ivan A., to Phillips Petroleum Co. Catalyst recovery. 2,952,720, 9-13-60, Cl. 260-683.41.
- Peterson, John A., to International Minerals & Chemical Corp. Process for recovering lithium values. 2,924,507, 2-9-60, Cl. 23-27.
- Peterson, John D., to Texas Instruments Inc. Assembly process for semiconductor device. 2,964,831, 12-20-60, Cl. 29-25.3.
- Peterson, John W.: See—
- Keeler, Frederick D., and Peterson. 2,938,189.
- Peterson, John W., to Cochrane Corp. Liquid flow control valve assembly. 2,920,649, 1-12-60, Cl. 137-608.
- Peterson, Joseph A.: See—
- Martin, Claude F., Olsen, and Peterson. 2,937,894.
- Peterson, Kenneth E. Receptacle device for mounting on automobile seat back. 2,953,288, 9-20-60, Cl. 224-42.46.
- Peterson, Kenneth R.: See—
- Walters, Charles S., and Peterson. 2,947,110.
- Peterson, Lucille C. Protective shoulder cover. 2,955,293, 10-11-60, Cl. 2-49.
- Peterson, Merle E., to Bendix Aviation Corp. Pendulous rotary bobbin holder. 2,944,760, 7-12-60, Cl. 242-130.2.
- Peterson, Neal J., and W. J. Borer. Spring powered engine starter. 2,937,717, 5-24-60, Cl. 185-39.
- Peterson, Ole. Caisson. 2,924,947, 2-16-60, Cl. 61-46.5.
- Peterson, Oscar. Multi-purpose tool. 2,945,301, 7-19-60, Cl. 33-1.
- Peterson, Peter A. Toy devices. 2,959,415, 11-8-60, Cl. 273-95.
- Peterson, Raymond A., to United Geophysical Corp. Recording system. 2,937,915, 5-24-60, Cl. 346-109.
- Peterson, Raymond A., to United Geophysical Corp. Well-shooting system. 2,947,377, 8-2-60, Cl. 181-5.
- Peterson, Richard H.: See—
- Heytow, Solomon, and Peterson. 2,953,054.
- Peterson, Richard H. Electronic musical instrument. 2,924,137, 2-9-60, Cl. 84-126.
- Peterson, Richard H. Tuner. 2,924,776, 2-9-60, Cl. 324-79.
- Peterson, Richard H. Electronic musical instrument. 2,924,784, 2-9-60, Cl. 331-49.
- Peterson, Richard H. Key tuning apparatus for electronic musical instruments. 2,953,053, 9-20-60, Cl. 84-1.17.
- Peterson, Robert E. Fluid leakage proof entrance seal. 2,936,187, 5-10-60, Cl. 286-28.
- Peterson, Robert H.: See—
- Black, George S., and Peterson. 2,963,696.
- Peterson, Robert H., to Radio Corp. of America. Gravitational or acceleration responsive device. 2,928,667, 3-15-60, Cl. 264-1.
- Peterson, Robert H., to Radio Corp. of America. Mechanical movement. 2,939,332, 6-7-60, Cl. 74-471.
- Peterson, Robert L., to Uniflex Engineering, Inc. Material bending apparatus. 2,937,689, 5-24-60, Cl. 154-1.



- Peterson, Robert S., to Westinghouse Electric Corp. Motor control apparatus for dynamic braking. 2,922,094, 1-19-60, Cl. 318-50.
- Peterson, Ruben O.: *See—*  
Nelson, Brooks E., and Peterson. 2,928,112.
- Peterson, Ruben O., to The Osborn Mfg. Co. Brush assembly utilizing lengths of brush strip. 2,921,329, 1-19-60, Cl. 15-182.
- Peterson, Ruben O., to The Osborn Mfg. Co. Surface treating machine. 2,925,689, 2-23-60, Cl. 51-5.
- Peterson, Ruben O., to The Osborn Mfg. Co. Rotary brush. 2,929,086, 3-22-60, Cl. 15-181.
- Peterson, Ruben O., to The Osborn Mfg. Co. Rotary brush. 2,935,756, 5-10-60, Cl. 15-182.
- Peterson, Ruben O., to The Osborn Mfg. Co. Brush construction. 2,958,888, 11-8-60, Cl. 15-171.
- Peterson, Theodore R. Corn sheller having concave overload release means. 2,960,988, 11-22-60, Cl. 130-6.
- Peterson, Thomas D.: *See—*  
Kuchinsky, Saul and Peterson. 2,946,642.
- Peterson, Thomas D., to Burroughs Corp. Electron tube. 2,957,996, 10-25-60, Cl. 313-156.
- Peterson, Thomas F., to Preformed Line Products Co. Over-size helically-preformed armor for linear bodies. 2,929,195, 3-22-60, Cl. 57-146.
- Peterson, Thomas F. Suspended line spacing and damping. 2,959,632, 11-8-60, Cl. 174-40.
- Peterson, Victor W.: *See—*  
Egbert, William F., and Peterson. 2,963,857.
- Peterson, Victor W., to General Motors Corp. Thrust-responsive mechanism. 2,951,543, 9-6-60, Cl. 170-160.13.
- Peterson, Victor W., and P. Bancel, to General Motors Corp. Self-aligning planetary gearing. 2,936,655, 5-17-60, Cl. 74-801.
- Peterson, Victor W., H. H. Schnepel, and P. Bancel, to General Motors Corp. Torque meter. 2,949,771, 8-23-60, Cl. 73-136.
- Peterson, Walter E.: *See—*  
Hodson, Waldo G., Peterson, Kenkel, Hagopian, and Hennies. 2,939,020.
- Peterson, Walter H., to Shell Oil Co. High temperature grease compositions containing salicylic acid derivatives. 2,944,970, 7-12-60, Cl. 252-18.
- Peterson, William H.: *See—*  
McCoy, Elizabeth F., and Peterson. 2,927,057.
- Peterson, William R., to St. Regis Paper Co. Apparatus for measuring charges of comminuted material. 2,930,569, 3-29-60, Cl. 249-43.
- Petersen, Henry F.: *See—*  
Ganther, Robert J., Petersen, and Riordan. 2,960,871.
- Petersen, Henry F., to Bostitch, Inc. Staple blank. 2,943,436, 7-5-60, Cl. 59-77.
- Petersen, Henry F., to Bostitch, Inc. Fastener-applying machine. 2,959,786, 11-15-60, Cl. 1-44.4.
- Petersson, Bror G.: *See—*  
Thursson af Ekenstam, Bo, and Petersson. 2,955,111.
- Petherick, Edward J., to International Business Machines Corp. Digital computing engines. 2,933,250, 4-19-60, Cl. 235-159.
- Petherick, Edward J., to National Research Development Corp. Digital encoders. 2,958,860, 11-1-60, Cl. 340-347.
- Pethrick, Samuel R., M. B. Sparke, and S. W. Critchley; said Pethrick and said Sparke assors. to The British Petroleum Co. Ltd. Synthetic lubricants. 2,937,996, 5-24-60, Cl. 252-57.
- Pethybridge, Charles A., and C. D. Pulsifer, to The New Britain Machine Co. Threading attachment with lost motion tool spindle means for turret type lathe. 2,923,015, 2-2-60, Cl. 10-39.
- Petit, Omer L. V., to Chimiotech Societe Anonyme. Spinneret making machine. 2,954,065, 9-27-60, Cl. 153-21.
- Petit, Otis J., 40% to R. L. Beran. Fuel-metering device. 2,926,007, 2-23-60, Cl. 261-50.
- Petitcolas, Pierre, R. F. M. Sureau, and J. N. Cyna (nee Blum), to Compagnie Francaise des Matieres Colorantes. Colouring preparations. 2,926,985, 3-1-60, Cl. 8-42.
- Petitcolas, Pierre, and A. P. Richard, to Compagnie Francaise des Matieres Colorantes. Solutions of diazoamino derivatives and a process for their preparation. 2,926,986, 3-1-60, Cl. 8-45.
- Petitpas, Clement E. Non-sag latch means for overhead doors. 2,937,044, 5-17-60, Cl. 292-99.
- Pettita, Mario. Toothpick devices. 2,931,371, 4-5-60, Cl. 132-89.
- Petley, Joseph E., to General Electric Co. Electric capacitor and stabilized dielectric material therefor. 2,922,938, 1-26-60, Cl. 317-259.
- Peto Scott Electrical Instruments Ltd.: *See—*  
Hill-Venning, John. 2,925,763.
- Petranto, Michael A., and D. L. Champlin, to Eastman Kodak Co. Photographic printing apparatus. 2,963,952, 12-13-60, Cl. 95-79.
- Petraskas, Harry O., to Rockwood & Co. Push up delivery barn gutter cleaner. 2,951,582, 9-6-60, Cl. 198-224.
- Petree, Harris E., to Ethyl Corp. Preparation of organozinc sulfate and sulfonate compounds. 2,942,015, 6-21-60, Cl. 260-429.9.
- Petree, Harris E., to Ethyl Corp. Organozinc sulfate and sulfonate compounds. 2,942,017, 6-21-60, Cl. 260-429.9.
- Petree, Troy: *See—*  
Kirkhart, Dale W., and Petree. 2,919,792.
- Petrey, Roger A.: *See—*  
Marshall, Peter L., Macaulay, Solomon, Steffy, and Petrey. 2,920,844.
- Petrides, Thracy: *See—*  
Grandgent, Roland, and Petrides. 2,944,763.
- Petrie, Edgar H., to Minneapolis-Honeywell Regulator Co. Time-delay devices. 2,960,638, 11-15-60, Cl. 317-155.5.
- Petrie, James A., to Rolls-Royce Ltd. Gas turbine engine with shaft-failure control. 2,930,189, 3-29-60, Cl. 60-39.09.
- Petrie, James A., to Rolls-Royce Ltd. Bladed rotor constructions for fluid machines. 2,945,671, 7-19-60, Cl. 253-39.15.
- Petriello, John V. Metal-plastic film laminates. 2,923,651, 2-2-60, Cl. 154-80.
- Petriello, John V. Composite plastic film and a method of making the same in continuous form. 2,961,345, 11-22-60, Cl. 117-138.8.
- Petrillo, Albert A. Portable electrically operated dish washer. 2,962,741, 12-6-60, Cl. 15-74.
- Petrino, Columbus C. Electric switch actuating mechanism. 2,951,138, 8-30-60, Cl. 200-153.
- Petriz, Richard L., O. P. Manley, and J. O. Varella, to United States of America, Navy. Signal monitoring circuit. 2,927,267, 3-1-60, Cl. 324-57.
- Petriw, Andrew, to United States of America, Army. Coincidence detector. 2,934,643, 4-26-60, Cl. 250-27.
- Petriw, Andrew, to United States of America, Army. Semi-coincidence detector. 2,934,644, 4-26-60, Cl. 250-27.
- Petro, James, to Westinghouse Electric Corp. Masking method and apparatus. 2,946,697, 7-26-60, Cl. 117-38.
- Petro, James, to Westinghouse Electric Corp. Apparatus for loading lead wires into an automatic stem-making machine. 2,963,199, 12-6-60, Cl. 221-13.
- Petrocarb Equipment, Inc.: *See—*  
Reintjes, Harold, Hughes, and Livermore. 2,924,511.
- Petrocelli, Edward A., to Westinghouse Electric Corp. Starting control for single phase motor. 2,929,978, 3-22-60, Cl. 318-221.
- Petroleum Dispense Master Ltd.: *See—*  
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- Petroleum Engineering, Inc.: *See—*  
Stover, William A. 2,927,061.
- Petroleum Research Corp.: *See—*  
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- Petroleum Service and Research Corp.: *See—*  
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- Petrolite Corp.: *See—*  
De Groote, Melvin, and Cheng. 2,953,585.  
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De Groote, Melvin, and Pettingill. 2,944,979-85.  
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De Groote, Melvin, and Pettingill. 2,945,025.  
De Groote, Melvin, and Shen. 2,945,005.  
Hutchison, Charles B. 2,944,968.  
Monson, Louis T. 2,964,478.  
Monson, Louis T., and Jenkins. 2,944,978.  
Stromberg, Verner L., and Hughes. 2,944,969.  
Turner, Delber W. 2,924,637.  
Waterman, Logan C. 2,963,414.
- Petrone, Don V., and A. E. Weber, to Hupp Corp. Air cooling system. 2,953,908, 9-27-60, Cl. 62-158.
- Petronovich, Vincent P. Reversible marine transmission. 2,935,901, 5-10-60, Cl. 74-792.
- Petropoulos, John C., and A. T. Coscia, to American Cyanamid Co. 2,2-di (p-tolyl) propane preparation. 2,947,794, 8-2-60, Cl. 260-668.
- Petrossi, Irma T.: *See—*  
Petrossi, Mario A. 2,940,562.
- Petrossi, Mario A., to I. T. Petrossi. Sectional clutch shaft. 2,940,562, 6-14-60, Cl. 192-3.5.
- Petro-Tex Chemical Corp.: *See—*  
Brill, William F. 2,954,406.  
Jones, Robert H., Nagel, and Wolf. 2,936,302.  
Karkalits, Olin C., Jr., and Christmann. 2,958,717.
- Petrow, Vladimir: *See—*  
Barton, Suzanne P. 2,939,819.  
Ellis, Bernard, Petrow, Stansfield, and Stuart-Webb. 2,927,119.
- Petry, Eduard C., to Minneapolis-Honeywell Regulator Co. Gas turbine combustion engine control apparatus for controlling the exhaust area and fuel flow. 2,934,888, 5-3-60, Cl. 60-35.6.
- Petry, Robert K., to Congoleum-Nairn Inc. Decorative plastic surface covering and process therefor. 2,943,949, 7-5-60, Cl. 117-11.
- Petrzlik, Theodor, A. Frey, A. Hofmann, H. Ott, H. Schenk, and F. Troxler, to Sandoz Ltd. Reserpine-like esters of pivalic acid. 2,959,591, 11-8-60, Cl. 260-287.
- Petschel, Franz: *See—*  
Herold, Robert, Petschel, Wöhl, and Haas. 2,935,673.
- Pettee, Herbert M., and R. N. Sabee, to The Procter & Gamble Co. Device for feeding articles into cartons. 2,930,172, 3-29-60, Cl. 53-124.
- Pettengill, Charles W.: *See—*  
Friel, James C., and Pettengill. 2,933,808.
- Petterson, John F. Motorcycle traffic officer's tire marking device. 2,940,421, 6-14-60, Cl. 118-308.
- Petterson, Lowell L.: *See—*  
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- Pettersson, Sven T. L.: *See*—  
Wolff, Hans H., and Pettersson. 2,939,796.
- Petty, Thomas M., Jr., to United States of America, Army. Pressure relief valve with remote calibration change. 2,944,564, 7-12-60, Cl. 137-529.
- Petty, Thomas M., Jr., and T. F. Butler, to United States of America, Army. Combined tank and support structure for rocket motor. 2,952,971, 9-20-60, Cl. 60-35.6.
- Petti, Omer A.: *See*—  
Cawthon, William L., and Pettit. 2,963,112.
- Pettibone Mulliken Corp.: *See*—  
Herbruggen, Heinrich J. B. 2,937,420.  
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- Pettibone, Raymond B.: *See*—  
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- Pettibone, Raymond B., to Vickers Inc. Power transmission. 2,943,575, 7-5-60, Cl. 103-42.
- Pettibone, Raymond B., to Vickers Inc. Power transmission. 2,962,973, 12-6-60, Cl. 103-136.
- Pettigrew, David D., and D. E. Bell, to Rockwell Mfg. Co. Guards for machine tools. 2,947,197, 8-2-60, Cl. 74-611.
- Pettingall, Charles E.: *See*—  
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- Pettingill, Owen H.: *See*—  
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De Groote, Melvin, and Pettingill. 2,945,024.  
De Groote, Melvin, and Pettingill. 2,945,025.
- Pettis, Wendell W. Refrigeration and heating apparatus of the absorption type for use on internal combustion engines including a muffler. 2,944,407, 7-12-60, Cl. 62-144.
- Pettit, Frank. Control and switch assembly therefor. 2,929,041, 3-15-60, Cl. 338-215.
- Pettit, John E.: *See*—  
Samuels, Martin L., and Pettit. 2,964,251.
- Pettit, Lewis F., Jr., to Westinghouse Electric Corp. Arc welding apparatus. 2,957,086, 10-18-60, Cl. 307-38.
- Pettit, Richard D., to The British Thomson-Houston Co. Ltd. Magnetic amplifier output signal control system. 2,961,598, 11-22-60, Cl. 323-89.
- Pettitt, Leslie W., to Elliott Brothers (London) Ltd. Dynamometer type instruments. 2,922,089, 1-19-60, Cl. 317-166.
- Petty, Charles O.,  $\frac{1}{2}$  to La Gloria Oil and Gas Co. Purification of phenols and sulfur by-products thereof. 2,927,946, 3-8-60, Cl. 260-609.
- Petty, Charles O.,  $\frac{1}{2}$  to La Gloria Oil and Gas Co. Sweetening and stabilizing of naphthas. 2,945,808, 7-19-60, Cl. 208-204.
- Petty, Charles O., to La Gloria Oil and Gas Co. Regeneration of spent caustic. 2,945,889, 7-19-60, Cl. 260-609.
- Petty, Macon, to Hudson Engineering Corp. Method of forming hollow reinforced plastic bodies. 2,945,262, 7-19-60, Cl. 18-55.
- Petty, Milton A.: *See*—  
Szumski, Stephen A., and Petty. 2,923,688.
- Pettyjohn, Elmore S., H. R. Linden, and J. M. Reid, to Institute of Gas Technology. Method and apparatus for cracking hydrocarbons. 2,921,100, 1-12-60, Cl. 260-679.
- Petuseau, Bernard J.: *See*—  
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- Petzer, Edward P.: *See*—  
Sarowski, Edwin E., and Petzer. 2,960,348.
- Petzoldt, Fritz. Multi-spindle automatic lathe. 2,921,364, 1-19-60, Cl. 29-43.
- Pew, Thomas C. Heat treating apparatus. 2,953,998, 9-27-60, Cl. 110-173.
- Peyses, Ivan, to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. Apparatus for surfacing glass. 2,945,330, 7-19-60, Cl. 51-119.
- Peyses, Ivan, to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. High pressure polishing of flat glass. 2,937,480, 5-24-60, Cl. 51-283.
- Peyrebrune, Henri E., to Miehle-Goss-Dexter, Inc. Delivery sheet slow down mechanism. 2,924,453, 2-9-60, Cl. 271-79.
- Peyser, Leonard T., and W. Halpern, to Vernon Devices, Inc. Combined tap and deburring cutter having cutter resiliently interlocked with tap flutes. 2,949,618, 8-23-60, Cl. 10-140.
- Peyser, William P.: *See*—  
Lapidus, Solomon, and Peyser. 2,942,208.
- Peyton, Jesse A., to Jackson Industries, Inc. Debarking apparatus. 2,958,350, 11-1-60, Cl. 144-208.
- Pezillo, Albert R., to Goulds Pumps, Inc. Motor pump units. 2,941,476, 6-21-60, Cl. 103-87.
- Pezillo, Rinaldo F. Combination pump and motor. 2,942,555, 6-23-60, Cl. 103-87.
- Pfab, Wolfgang: *See*—  
Reppe, Walter, Pfab, Von Kutepow, and Bueche. 2,951,881.
- Pfaender, Lawrence V., to Owens-Illinois Glass Co. Brackets for glass parts and method of attachment. 2,928,967, 3-15-60, Cl. 313-64.
- Pfaff, Elmer F.: *See*—  
Henning, Robert W., Pfaff, and Kopf. 2,954,717.
- Pfaff, Elmer F., and R. W. Henning, to Olin Mathieson Chemical Corp. Tool shield. 2,925,600, 2-23-60, Cl. 1-44.5.
- Pfaff, Elmer F., and R. W. Henning, to Olin Mathieson Chemical Corp. Explosive operated fastener driving tool. 2,925,601, 2-23-60, Cl. 1-106.
- Pfaff, Elmer F., and A. T. Masters, to Olin Mathieson Chemical Corp. Explosive actuated device. 2,925,603, 2-23-60, Cl. 1-106.
- Pfaff, Elmer F., and R. W. Henning, to Olin Mathieson Chemical Corp. Fastening assembly. 2,961,210, 11-22-60, 248-74.
- Pfaff, Frank F. Automobile front seat back lock. 2,952,490, 9-13-60, Cl. 296-65.
- Pfaff, G. M., A.-G.: *See*—  
Benink, Christiaan J. M., Gross, and Winz. 2,928,362.  
Benink, Christiaan J. M., and Irmischer. 2,950,695.  
Braun, Oskar, and Winz. 2,963,999.  
Hiegel, Otto A., and Schöenthaler. 2,964,970.  
Mosinski, Erich. 2,920,591.  
Reeber, Rudolf, and Irmischer. 2,961,984.  
Schenkengel, Emerich. 2,941,576.  
Schenkengel, Emerich. 2,949,085.  
Wenz, Herbert, and Berg. 2,957,645.  
Winz, Karl. 2,919,666.  
Winz, Karl. 2,928,926.  
Winz, Karl. 2,941,487.  
Winz, Karl, and Wrase. 2,919,790.  
Wrase, Erich. 2,939,415.
- Pfaff, George C., Jr., and J. W. Carter, to The Martin Co. Boundary layer removal structure. 2,925,231, 2-16-60, Cl. 244-42.
- Pfaff, Henry C., Jr., to Pfaff and Kendall. Traffic light holder. 2,928,641, 3-15-60, Cl. 248-221.
- Pfaff, Henry C., Jr., to Pfaff and Kendall. Outdoor lighting fixture. 2,963,574, 12-6-60, Cl. 240-51.12.
- Pfaff, Henry C., Jr., and R. W. Siver, to Traffic and Street Sign Co. Increment assembly sheet sign. 2,942,366, 6-28-60, Cl. 40-125.
- Pfaff and Kendall: *See*—  
Pfaff, Henry C., Jr. 2,928,641.  
Pfaff, Henry C., Jr. 2,963,574.
- Pfaff, Ross L.: *See*—  
Hogg, James C., Jr., Taylor, and Pfaff. 2,960,731.
- Pfaff, William A. Camera. 2,953,061, 9-20-60, Cl. 88-24.
- Pfaffenberger, Erwin, to P. Gossen & Co. G.m.b.H. Hand setting device for rotary response mechanisms in photographic cameras. 2,923,170, 2-2-60, Cl. 74-625.
- Pfäffle, Ernst: *See*—  
Biel, Hans, and Pfäffle. 2,963,049.
- Pfann, William G., to Bell Telephone Laboratories, Inc. Continuous zone refining using cross-flow. 2,926,075, 2-23-60, Cl. 23-301.
- Pfann, William G., to Bell Telephone Laboratories, Inc. Zone-melting with joule heat. 2,932,562, 4-12-60, Cl. 75-10.
- Pfann, William G., to Bell Telephone Laboratories, Inc. Separation process. 2,949,348, 8-16-60, Cl. 23-310.
- Pfann, William G., to Bell Telephone Laboratories, Inc. Semiconductor signal translating devices. 2,950,425, 8-23-60, Cl. 317-235.
- Pfanstiehl Laboratories, Inc.: *See*—  
Holstein, Arthur G. 2,943,100.
- Pfanstiel, Robert: *See*—  
Albert, Talbot J., and Pfanstiel. 2,927,037.
- Pfanstiel, Robert, F. M. Pralatoski, and H. A. Scruton, to United States of America, War, in trust. Process for the preparation of bis (2,4,6-trichlorophenyl) urea. 2,936,322, 5-10-60, Cl. 260-553.
- Pfarrwall, Erwin, to Sulzer Freres, S.A. Warp control device. 2,920,659, 1-12-60, Cl. 139-110.
- Pfarrwall, Erwin, to Sulzer Freres S.A. Heddle frame. 2,944,571, 7-12-60, Cl. 139-91.
- Pfarrwall, Erwin, to Sulzer Freres, S.A. Warp control in a loom for weaving. 2,951,509, 9-6-60, Cl. 139-114.
- Pfarrwall, Erwin, to Sulzer Freres, S.A. Method and means for controlling the operating of a weaving machine. 2,956,588, 10-18-60, Cl. 139-1.
- Pfarrwall, Erwin, to Sulzer Freres, S.A. Shuttle guide and weft thread beating up apparatus for looms for weaving. 2,956,592, 10-18-60, Cl. 139-191.
- Pfau, Emert S., G. H. Swart, and K. V. Weinstock, to The General Tire & Rubber Co. Pneumatic tires and tread stock composition. 2,964,083, 12-13-60, Cl. 152-330.
- Pfaudler Co., The: *See*—  
Harrison, Edward S. 2,931,631.
- Pfaudler Permutit Inc.: *See*—  
Osborne, Alec V. 2,924,441.
- Pfaus, George S.: *See*—  
Joffe, Jacob S. 2,951,755.
- Pfeffer, Edward C., Jr., to Cluett, Peabody & Co., Inc. Sewing thread. 2,925,642, 2-23-60, Cl. 28-80.
- Pfeffer, John C., to Safeway Stores, Inc. Nesting basket construction. 2,964,211, 12-13-60, Cl. 220-19.
- Pfeffer, William E., and R. R. Gombert, to P. Mood, L. Vold, and W. E. Pfeffer, co-partners, d.b.a. The Electro-Mechanical Instrument Co. Electrical measuring instrument. 2,954,526, 9-27-60, Cl. 324-146.
- Pfefferle, George H., to Dresser Industries, Inc. Earth bore-hole drilling apparatus and system. 2,958,511, 11-1-60, Cl. 255-4.
- Pfeifer, Charles R., to The Dow Chemical Co. Linear polyethylene stabilized with alkali metal salts. 2,952,659, 9-13-60, Cl. 260-45.7.



- Pfeifer, Charles R., to The Dow Chemical Co. Polyethylene stabilized with tetra-alkanol substituted ethylene diamines. 2,959,567, 11-8-60, Cl. 260-45.6.
- Pfeifer, Charles R., to The Dow Chemical Co. Non-corrosive compositions comprising polymerized olefins prepared with certain catalyst metal compounds. 2,965,603, 12-20-60, Cl. 260-45.7.
- Pfeifer, Charles R., and R. L. Hudson, to The Dow Chemical Co. Linear polyethylene stabilized with organic esters. 2,951,056, 8-30-60, Cl. 260-45.8.
- Pfeifer, Charles R., and M. R. Kinter, to The Dow Chemical Co. Linear polyethylene stabilized with alkali phosphates. 2,952,658, 9-13-60, Cl. 260-45.7.
- Pfeifer, Gunther, to Bendix Aviation Corp. Hydraulic master cylinder. 2,927,433, 3-8-60, Cl. 60-54.6.
- Pfeifer, Virgil F.: *See*—  
Wohlrabe, Frank C., and Pfeifer. 2,937,750.
- Pfeiffer, Carl G. Holders for fishing tackle. 2,920,415, 1-12-60, Cl. 43-57.5.
- Pfeiffer, Fred B.,  $\frac{1}{2}$  to J. R. Crossan. Method of packaging and sheet material for same. 2,934,865, 5-3-60, Cl. 53-22.
- Pfeiffer, Fred B.,  $\frac{1}{2}$  to J. R. Crossan. Tire building drum. 2,935,117, 5-3-60, Cl. 154-9.
- Pfeiffer, Fred B.,  $\frac{1}{2}$  to Crossan, Jesse R. Packaging. 2,948,998, 8-16-60, Cl. 53-28.
- Pfeiffer, Gerhard: *See*—  
Eckert, Wilhelm, Meininger, and Pfeiffer. 2,958,696.
- Pfeiffer, Johannes: *See*—  
Zimmermann, Heinrich, Pfeiffer, and Reuter. 2,961,242.
- Pfeiffer, John D.: *See*—  
Knudson, Louis I., and Pfeiffer. 2,963,620.
- Pfeiffer, Sigmund B., to Bell Telephone Laboratories, Inc. Jitter suppression in high-frequency stroboscopic oscilloscope. 2,954,501, 9-27-60, Cl. 315-22.
- Pfeifle, Fred J. Corner fillet for pattern makers. 2,921,352, 1-19-60, Cl. 22-158.
- Pfeil, Robert W., to United States of America, Army. Crayon for detection of G agents. 2,929,791, 3-22-60, Cl. 252-408.
- Pfenningsberg, Josef, to Josef Pfenningsberg & Co. Drawing devices operating with an upper belt. 2,947,038, 8-2-60, Cl. 19-131.
- Pfenningsberg, Josef, & Co.: *See*—  
Pfenningsberg, Josef. 2,947,038.
- Pferd, William: *See*—  
Boysen, Albert P., Jr., Goodale, Herckmans, and Pferd. 2,951,635.
- Kennedy, William J., and Pferd. 2,922,571.
- Pferd, William, to Bell Telephone Laboratories, Inc. Mechanical coin totalizer. 2,929,479, 3-22-60, Cl. 194-1.
- Pfetsch, Robert G.: *See*—  
Colten, Robert B., Sylvester, and Pfetsch. 2,924,968.
- Pfeiffer, Paul O.: *See*—  
Bolster, Calvin M., Kaenan, and Pfeiffer. 2,950,751.
- Pfiffner, Harold J., to Hughes Aircraft Co. Negative resistance networks. 2,943,282, 6-28-60, Cl. 333-80.
- Pfife, Grace V. Garment protector. 2,947,004, 8-2-60, Cl. 2-50.
- Pfirschke, Johannes: *See*—  
Mott, Friedrich R., Pfirschke, and Morschel. 2,926,139.
- Pfirschke, Johannes,  $\frac{1}{2}$  to Mobay Chemical Co. and  $\frac{1}{2}$  to Farbenfabriken Bayer Aktiengesellschaft. Production of alkylene diisocyanates. 2,953,590, 9-20-60, Cl. 260-45.3.
- Pfister, Hans: *See*—  
Welker, Heinrich, Weisshaar, and Pfister. 2,936,373.
- Pfister, Irvin R.: *See*—  
V Jaskowsky, Woldemar F., and Pfister. 2,938,292.  
V Jaskowsky, Woldemar F., and Pfister. 2,961,540.
- Pfister, Karl, III: *See*—  
Weijlard, John, and Pfister. 2,966,490.
- Pfister, Karl, III, to Merck & Co., Inc. Substituted piperidine compounds. 2,966,492, 12-27-60, Cl. 260-294.3.
- Pfister, Karl, III, and A. A. Pessolano, to Merck & Co., Inc. N-( $\beta$ -phenylethyl)-4-phenyl-4-carbalkoxy piperidines and processes of preparing them. 2,947,753, 8-2-60, Cl. 260-294.3.
- Pfister, Karl, III, and J. Weijlard, to Merck & Co., Inc. N-para substituted-phenylethyl-4-phenyl-4-carbalkoxy piperidines. 2,966,491, 12-27-60, Cl. 260-294.3.
- Pfister, Liselotte. Fish line float. 2,957,266, 10-25-60, Cl. 43-44.88.
- Pfisterer, August, Jr., K.G.: *See*—  
Pfisterer, August, Jr. 2,953,897.
- Pfisterer, August, Jr., to A. Pfisterer, Jr., K.G. Telescoping linkage having detachable links with closed edges. 2,953,897, 9-27-60, Cl. 59-79.
- Pfisterer, Heinz A., and D. W. G. Hay, to Polymer Corp. Ltd. Composition for the preparation of sponge products of butyl rubber. Re. 24,761, 1-5-60, Cl. 260-2.5.
- Pfitzenmeier, Robert E.,  $\frac{1}{4}$  to A. T. Smith. Hydraulic cross-regenerative circuit. 2,940,262, 6-14-60, Cl. 60-97.
- Pfizer, Chas., & Co., Inc.: *See*—  
Agnello, Eugene J., and Laubach. 2,920,999.  
Agnello, Eugene J., and Laubach. 2,960,512.  
Bavley, Abraham, and Harfenist. 2,925,363.  
Bavley, Abraham, and Knuth. 2,936,297.  
Bavley, Abraham, and Knuth. 2,936,299.  
Bavley, Abraham, Knuth, and Michelotti. 2,938,014.  
Bavley, Abraham, Knuth, and Tate. 2,936,309.  
Bavley, Abraham, Knuth, and Timreck. 2,924,581.
- Pfizer, Chas., & Co., Inc.: *See*—Continued  
Bavley, Abraham, and Tate. 2,928,846.  
Bavley, Abraham, and Tate. 2,948,653.  
Bavley, Abraham, and Timreck. 2,935,449.  
Berger, Melvin L. 2,939,818.  
Bloom, Barry M. 2,956,072.  
Bloom, Barry M., Agnello, Shull, and Laubach. 2,929,813.  
Bogert, Virgil V., and Bloom. 2,961,441.  
Brooks, Jonathan O. 2,957,025.  
Buckley, Jay S., Jr., and Berg. 2,948,749.  
Candido, Michael, Jr. 2,925,185.  
Candido, Michael, Jr. 2,929,491.  
Cole, John W., Julian, Cochran, Regan, and Printy. 2,956,052.  
Conover, Lloyd H., English, and Larrabee. 2,921,073.  
Davison, Jacob W., Tanner, Finlay, and Kane. 2,963,401.  
De Zeeuw, John R., Donovan, and Sherman. 2,943,938.  
De Zeeuw, John R., and Sauer. 2,951,759.  
Figdor, Sanford K., and Laubach. 2,937,975.  
Friedman, Ira J., Martin, and Taylor. 2,960,437.  
Friedman, Ira J., Martin, Taylor, and Wagner. 2,960,438.  
Gerber, Clifford E., and Klioze. 2,939,820.  
Gordon, Philip N., Kent, and Ursprung. 2,921,937.  
Guercio, Peter A. 2,935,520.  
Hammer, Henry F., and Ciccone. 2,963,404.  
Hochstein, Francis A., and Miller. 2,920,998.  
Huang, Hsing T. 2,937,121.  
Huang, Hsing T. 2,937,122.  
Huang, Hsing T. 2,944,943.  
Huang, Hsing T. 2,947,666.  
Huang, Hsing T., Griffin, and Fried. 2,955,986.  
Humphrey, Marshall F. 2,966,498.  
Julian, Percy L., Magnani, and Cochran. 2,947,765.  
Kent, Robert E. 2,956,923.  
Kita, Donald A. 2,921,002.  
Kita, Donald A. 2,936,264.  
Lambrecht, Joseph A., Hensley, Kent, and Lynch. 2,932,644.  
Larrabee, Clifford E. 2,935,515.  
Laubach, Gerald D. 2,956,054.  
Laubach, Gerald D. 2,956,055.  
Luther, Herbert G., and Reynolds. 2,951,760.  
Nickell, Louis G. 2,962,422.  
Nickell, Louis G., Pennington, and Solomons. 2,935,444.  
Pinson, Ellis R., Jr., and Laubach. 2,941,004.  
Sacchi, Eduardo M., and Luther. 2,944,541.  
Sherman, William C., Donovan, Reynolds, and Luther. 2,925,342.  
Shoemaker, Richard N. 2,948,659.  
Shull, Gilbert M., and Kita. 2,932,606.  
Smith, Charles W., Jr., Mead, and Dunbar. 2,944,575.  
Stephens, Charles R., Jr. 2,929,825.  
Stieg, William E. 2,932,653.  
Tanner, Fred W., Jr. 2,921,887.  
Tanner, Fred W., Jr. 2,932,608.  
Tanner, Fred W., Jr. 2,940,905.  
Tanner, Fred W., Jr. 2,940,906.  
Tanner, Fred W., Jr. 2,940,907.  
Tanner, Fred W., Jr. 2,940,908.  
Tanner, Fred W., Jr. 2,940,909.  
Ursprung, Joseph J. 2,956,024.  
Williams, Beverly E. 2,942,986.  
Wrenshall, Carlton L., McMahan, and Ottke. 2,942,982.
- Pfitzer, Christian C.: *See*—  
Bourget, Joseph G., and Pfitzer. 2,930,955.
- Pfizer, Frederick W., to Radio Corp. of America. Printing mechanism. 2,919,641, 1-5-60, Cl. 101-93.
- Pfeiderer, Friedrich, to Siemens and Halske Aktiengesellschaft. Tube-protected contact-making device. 2,921,163, 1-12-60, Cl. 200-87.
- Pfiumm, Heinz R., to Texas Instruments Inc. Silver base alloy for use as electrical contact member and method of making same. 2,932,595, 4-12-60, Cl. 148-11.5.
- Pfiumm, Heinz R., and F. P. Rogers, to Texas Instruments Inc. Solid-phase bonding of metals. 2,947,078, 8-2-60, Cl. 29-474.3.
- Pflug, Daniel H.: *See*—  
Nolan, Edward J., Pflug, and Roberts. 2,924,418.
- Pfohl, Louis H., to Design Center, Inc. Container. 2,931-493, 4-5-60, Cl. 206-78.
- Pfohl, Louis H., to Design Center, Inc. Container. 2,931-494, 4-5-60, Cl. 206-78.
- Pfost, Robert F., and W. Barnhart, to Ampex Corp. Tape transducing apparatus. 2,942,061, 6-21-60, Cl. 178-6.6.
- Pfoutz, Billy D.: *See*—  
Tuche, Hans H., Pfoutz, and Lagarias. 2,956,640.
- Pfrenge, Otto, and C. Pietruck. Baking aids and use of same. 2,952,545, 9-13-60, Cl. 99-15.
- Pfrenge, Otto, and C. Pietruck. Improvement of wheat flour. 2,952,549, 9-13-60, Cl. 99-91.
- Pfundner, Josef: *See*—  
Buda, Herbert. 2,952,013.
- Pfundt, George M. Hydraulic tree pruner. 2,930,122, 3-29-60, Cl. 30-228.
- Pfundt, George M. Cable lashing machine. 2,953,349, 9-20-60, Cl. 254-134.3.
- Pfützner, Karl: *See*—  
Sorg, Wilhelm, and Pfützner. 2,944,100.
- Phair, Kenneth E. Gage for setting electrical outlet boxes. 2,919,913, 1-5-60, Cl. 269-115.



- Phalen, Jean H.: *See*—  
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Phaneuf, Edgar A., to General Electric Co. Alarm control mechanism. 2,920,438, 1-12-60, Cl. 58—21.12.  
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Pharis, William W., to General Dynamics Corp. Trunk hunting selector. 2,925,470, 2-16-60, Cl. 179—18.  
Pharis, William W., to General Dynamics Corp. Intercept circuit for tape announcer. 2,925,472, 2-16-60, Cl. 179—18.  
Pharis, William W., F. J. Campa, and H. M. Blinn, to General Dynamics Corp. Intertoll dial switching and signaling system. 2,935,571, 5-3-60, Cl. 179—12.  
Pharma-Craft Co., a Division of Seagram, Joseph E., & Sons, Inc.: *See*—  
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Pharo, Lawrence C., and C. H. Fitzgerald, to United States of America, Navy. System for measuring thermal-gradients and the like. 2,960,866, 11-22-60, Cl. 73—362.  
Pharo, William G., to Western Electric Co., Inc. Differential motor mounting stranding cabler. 2,933,880, 4-26-60, Cl. 57—66.5.  
Pharris, John A., and G. E. McGuire, to EZ Paints Corp. Apparatus for applying liquid adhesive to an advancing cylinder. 2,965,068, 12-20-60, Cl. 118—404.  
Phelan, Charles S., to Pacific Scientific Co. Single line compensator. 2,921,481, 1-19-60, Cl. 74—501.5.  
Phelan, Charles S., to Pacific Scientific Co. Control line regulator. 2,934,971, 5-3-60, Cl. 74—501.5.  
Phelan, George A.: *See*—  
Adams, Ralph G., Jr., and Phelan. 2,934,692.  
Phelan, James M., and J. A. Wilson, to Esso Research and Engineering Co. Apparatus for determining the evaporation end point of volatile liquids. 2,922,301, 1-26-60, Cl. 73—53.  
Phelan, Louis A. M.: *See*—  
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Kelton, Harold V. 2,964,215.  
Koch, Lawrence E. 2,930,203.  
Phelan, Louis A. M. Automatic feed for ice cream and the like freezers. 2,947,155, 8-2-60, Cl. 62—342.  
Phelan, Louis A. M. Cylindrical freezer cover. 2,964,219, 12-13-60, Cl. 222—380.  
Phelan, Louis A. M., and H. V. Kelton; said Kelton assor. to said Phelan. Pressure cooker. 2,938,640, 5-31-60, Cl. 220—55.3.  
Phelan, Louis A. M., and J. W. Vos; said Vos assor. to said Phelan. Process for broiling food. 2,945,767, 7-19-60, Cl. 99—107.  
Phelon, Russell E. Flywheel for use with an internal combustion engine. 2,932,447, 4-12-60, Cl. 230—135.  
Phelps Dodge Copper Products Corp.: *See*—  
Edlen, George G., and Phipps. 2,941,028.  
Edlen, George, and Dumire. 2,952,175.  
Hall, Ralph, Smith, and Hilker. 2,935,427.  
Phelps Dodge Corp.: *See*—  
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Phelps, Francis P.: *See*—  
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Phelps, Morton E. Portable combined grill and charcoal starter. 2,920,614, 1-12-60, Cl. 126—25.  
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Dain, John E., and Phelps. 2,950,875.  
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Phelps, Richard W., to The Black-Clawson Co. Paper machinery. 2,943,806, 7-5-60, Cl. 242—56.  
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Phelps, Thomas W., to The Trane Co. Multi-cylinder recirculating compressor. 2,955,750, 10-11-60, Cl. 230—187.  
Phelps, Virginia A., and H. H. Weinstock, Jr., to Allied Chemical Corp. Process for copolymerizing acrylic compounds. 2,934,524, 4-26-60, Cl. 260—80.5.  
Philadelphia Handle Co.: *See*—  
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Philadelphia Gear Corp.: *See*—  
Kron, Harold O., and Denkowski. 2,933,937.  
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Dobbs, Russell S. 2,946,338.  
Philadelphia Quartz Co.: *See*—  
Baker, Chester L., and Austin. 2,948,701.  
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Philbrick, Frank H. Propelling mechanism. 2,941,481, 6-21-60, Cl. 105—31.  
Philbrick, Frank H. Ballast tamping machine. 2,956,513, 10-18-60, Cl. 104—12.  
Philbrick, George A., and R. R. Noble, to George A. Philbrick Researches, Inc. Analog multiplier. 2,935,260, 5-3-60, Cl. 235—194.  
Philbrick, George A., Researches, Inc.: *See*—  
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Philbrick, Richard W. Cameras for making aerial survey photographs. 2,963,949, 12-13-60, Cl. 95—12.5.  
Philbrick-Strickland Laminates, Inc.: *See*—  
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Andersson, Sven W. E. 2,931,619.  
Barnett, Guy F., and Spencer. 2,927,233.  
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Berg, Carl O., and Taylor. 2,962,626.  
Beter, Ralph H., and Newman. 2,938,196.  
Beter, Ralph H., and Rubinoff. 2,946,957.  
Bigelow, John F. 2,922,954.  
Bingley, Frank J. 2,950,969.  
Bobb, Lloyd J. 2,935,575.  
Bobb, Lloyd J., Johnston, and Taraborrelli. 2,924,461.  
Bobb, Lloyd J., and Taraborrelli. 2,964,595.  
Bonner, Howard E. 2,940,004.  
Bonner, Howard E., and Overdeer. 2,921,131.  
Boothroyd, Wilson F., and Bloomsburgh. 2,935,635.  
Boothroyd, Wilson F., and Creamer. 2,922,837.  
Bradley, James K. 2,936,421.  
Bradley, William E. 2,927,319.  
Bradley, William E. 2,951,178.  
Bradley, William E., and Sunstein. Re. 24,781.  
Bradley, William E., and Tiley. 2,929,999.  
Brauer, Frederick N. 2,920,216.  
Brown, Ralph B., Beter, and Maddox. 2,964,242.  
Bryan, James S. 2,943,219.  
Burgett, Monte I., Jr. 2,931,936.  
Carson, George L. 2,952,499.  
Cartwright, Leonard W., and Blowers. 2,961,542.  
Chatten, John B. 2,938,169.  
Clark, Edward G. 2,927,286.  
Clark, William J. 2,926,945.  
Clark, William J. 2,956,828.  
Clark, William J., and Courson. 2,936,205.  
Colgate, Harry R. 2,944,322.  
Denk, William E. 2,926,245.  
Dennis, Jane H. 2,939,081.  
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Di Paolo, Thomas V., and Vasilevskis. 2,926,272.  
Emslie, Norman M., and Kronenbitter. 2,934,394.  
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Fisher, Roy S., Otis, and Vasilevskis. 2,963,609.  
Gittens, Victor S. 2,951,226.  
Gittens, Victor S., and Burke. 2,935,654.  
Goff, Maurice A. 2,948,053.  
Haigh, Louis E., and Summers. 2,931,932.  
Hales, Kenneth R., and Godshall. 2,932,684.  
Harris, Joseph E., Jr., and Becker. 2,944,139.  
Hershinger, Lincoln W. 2,958,636.  
Honda, Hajime. 2,948,863.  
Hoopes, Penrose R., Shin, Vaughan, and Parsons. 2,928,931.  
Hopengarten, Abram, Wolfe, and Moore. 2,921,230.  
Hubbard, Burnette L. 2,931,201.  
Hubbard, James R., and Staengle. 2,932,219.  
Ingham, John A. 2,929,939.  
Ingham, John A. 2,939,914.  
Keiper, Francis P., Jr. 2,959,682.  
Kurtz, Robert G. 2,933,151.  
Lancaster, William W. 2,945,188.  
Lingenbrink, Hermann E. F. C. 2,937,027.  
Lingenbrink, Hermann E. F. C., and La Bov. 2,965,829.  
Maddox, James L. 2,954,168.  
Mansson, Bertil K. 2,933,176.  
Mayer, Donald F., and Uhlund. 2,950,348.  
Michlin, William. 2,942,166.  
Mural, Frank, and Bogusz. 2,958,771.  
Mullin, William H. 2,952,997.  
Partin, Melvin E. 2,923,846.  
Payne, Paul D., Jr. 2,950,193.  
Pisani, John J. 2,937,757.  
Rittmann, Albert D. 2,931,743.  
Roschen, John. 2,930,949.  
Schnable, George L. 2,947,079.  
Scofield, Donald W. 2,921,176.  
Scofield, Donald W. 2,940,835.  
Scofield, Donald W. 2,957,067.  
Shinn, William T. 2,958,042.  
Staebler, Lloyd A. 2,964,920.  
Steggerda, Charles A. 2,936,424.  
Sunstein, David E. 2,922,049.  
Sunstein, David E. 2,943,151.  
Turner, Ronald J. 2,927,222.  
Vasilevskis, Henry S. 2,921,226.  
Vasilevskis, Henry S. 2,925,506.  
Vaughan, Robert T. 2,937,124.  
Walker, Kenneth E. 2,929,026.  
Walker, Kenneth E. 2,964,589.  
Williams, Richard A. 2,930,108.  
Williams, Richard A. 2,941,131.  
Williams, Richard A. 2,945,789.  
Worth, Sidney V., and Yarbrough. 2,923,859.



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 Zearfoss, Elmer W., Jr. 2,930,667.  
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 Zechter, Sol. 2,930,994.  
 Zimmerman, Elizabeth M. 2,931,758.
- Philp, David: *See*—  
 Williams, Wilfred, and Philp. 2,919,948.
- Philp, George O., and N. MacDonald, Jr., to International Business Machines Corp. Wrench mechanism. 2,955,488, 10-11-60, Cl. 77-4.
- Philpp, Fritz, to Firma Accumulatoren-Fabrik Aktiengesellschaft. Pressure responsive safety device. 2,922,833, 1-26-60, Cl. 136-177.
- Philippe, Howard L., to The Imperial Brass Mfg. Co. Air nozzle adapter. 2,949,244, 8-16-60, Cl. 239-589.
- Philippi, John, to The Parker Pen Co. Reciprocating drive device. 2,936,639, 5-17-60, Cl. 74-222.
- Philippi, Joseph W.: *See*—  
 Maltby, Frederick L., Cozzette, and Philippi. 2,933,657.  
 Maltby, Frederick L., Philippi, and Cozzette. 2,962,641.
- Philippi, Julius C.: *See*—  
 Ladd, Byrle J., and Philippi. 2,941,594.
- Philips, John, to Westinghouse Electric Corp. Semiconductor diode. 2,953,693, 9-20-60, Cl. 307-88.5.
- Phillipson, Joseph, to Aerojet-General Corp. Copolymers of polyesters and oxygen-containing vinyl compounds. 2,941,976, 6-21-60, Cl. 260-45.4.
- Phillac S.A.: *See*—  
 Roano, Alessandro. 2,923,167.
- Phillippovic, Joachim W., to Syntrol Co. Adjustable lock for iris valve. 2,961,213, 11-22-60, Cl. 251-4.
- Phillipps, Gordon H.: *See*—  
 Elks, Joseph, and Phillipps. 2,936,313.  
 Elks, Joseph, and Phillipps. 2,950,298.
- Phillipps, Leonard G., to Owens-Illinois Glass Co. Ball-type applicator assembly. 2,937,391, 5-24-60, Cl. 15-132.7.
- Phillips, Adrian, and L. Robbins, to Baldwin-Lima-Hamilton Corp. Stenciling machine. 2,943,562, 7-5-60, Cl. 101-42.
- Phillips, Albert J.: *See*—  
 Baier, Richard, Smart, and Phillips. 2,946,100.
- Phillips, Alvin B.: *See*—  
 Hignett, Travis P., Phillips, and Young. 2,945,754.
- Phillips, Arthur H.: *See*—  
 Greene, Donald L., and Phillips. 2,923,856.
- Phillips, Arthur P., to Burroughs Wellcome & Co., (U.S.A.) Inc. C-substituted piperazine derivatives and method. 2,958,693, 11-1-60, Cl. 260-268.
- Phillips Aviation Co.: *See*—  
 Auld, Edwin C., Jr., and Northrop. 2,927,176.
- Phillips, Benjamin: *See*—  
 Bender, Howard L., and Phillips. 2,948,688.  
 Frostick, Frederick C. Jr., and Phillips. 2,935,516.  
 Frostick, Frederick C. Jr., and Phillips. 2,953,550.
- Phillips, Benjamin, P. S. Starcher, C. W. McGary, Jr., and C. T. Patrick, Jr., to Union Carbide Corp. Polyepoxide compositions. 2,921,925, 1-19-60, Cl. 260-75.
- Phillips, Benjamin, P. S. Starcher, C. W. McGary, Jr., and C. T. Patrick, Jr., to Union Carbide Corp. Polyepoxide compositions. 2,921,929, 1-19-60, Cl. 260-78.4.
- Phillips, Benjamin, C. W. McGary, Jr., and C. T. Patrick, Jr., to Union Carbide Corp. Divinyl benzene dioxide compositions. 2,924,580, 2-9-60, Cl. 260-2.
- Phillips, Benjamin, P. S. Starcher, and D. L. MacPeck, to Union Carbide Corp. Epoxidation of unsaturated compounds. 2,927,931, 3-8-60, Cl. 260-348.5.
- Phillips, Benjamin, P. S. Starcher, C. W. McGary, Jr., and C. T. Patrick, Jr., to Union Carbide Corp. Diepoxide polymers. 2,932,626, 4-12-60, Cl. 260-78.4.
- Phillips, Benjamin, C. W. McGary, Jr., and C. T. Patrick, Jr., to Union Carbide Corp. Polymerizable compositions and resins made therefrom. 2,934,508, 4-26-60, Cl. 260-28.4.
- Phillips, Benjamin, P. S. Starcher, C. W. McGary, Jr., and C. T. Patrick, Jr., to Union Carbide Corp. Epoxide compositions and resins therefrom. 2,935,488, 5-3-60, Cl. 260-45.4.
- Phillips, Benjamin, C. W. McGary, Jr., and C. T. Patrick, Jr., to Union Carbide Corp. Polymerizable compositions and resins made therefrom. 2,962,453, 11-29-60, Cl. 260-2.
- Phillips, Benjamin, C. W. McGary, Jr., and C. T. Patrick, Jr., to Union Carbide Corp. Polymerizable compositions containing dicyclopentadiene dioxide and polycarboxylic acid and resins prepared therefrom. 2,962,469, 11-29-60, Cl. 260-45.4.
- Phillips, Bernard C., to The Tiltolton Mfg. Co. Valve seat for fluid control valve. 2,953,347, 9-20-60, Cl. 251-361.
- Phillips, Bozena M.: *See*—  
 Phillips, William. 2,919,523.
- Phillips, Cecil, Jr., to Esso Research and Engineering Co. Process for the prevention of corrosion of petroleum refining equipment. 2,947,686, 8-2-60, Cl. 208-340.
- Phillips, Charles E., to The Strong-Scott Mfg. Co. Interchangeable screen construction for mill. 2,946,523, 7-26-60, Cl. 241-89.
- Phillips, Charles M., and F. X. Dinino. Keyhole illuminator. 2,927,197, 3-1-60, Cl. 240-2.13.
- Phillips, Claud B., Cleo B., and J. B. Narrowing attachment for full fashioned hosiery knitting machines. 2,920,466, 1-12-60, Cl. 66-89.
- Phillips, Cleo B.: *See*—  
 Phillips, Claud B., Cleo B., and J. B. 2,920,466.
- Phillips, Curtis A. Adjustable display and storage device. 2,953,244, 9-20-60, Cl. 206-44.
- Phillips, David C.: *See*—  
 Arndt, Ulrich W., Faulkner, and Phillips. 2,928,945.
- Phillips, Davis M., to McGraw-Edison Co. Drive fittings for pipe or conduit. 2,966,372, 12-27-60, Cl. 285-39.
- Phillips, Donald G., to Precision Grinding Wheel Co., Inc. Abrasive articles. 2,940,842, 6-14-60, Cl. 51-298.
- Phillips, Donald M., to Westinghouse Electric Corp. Method and apparatus for making electron discharge devices having luminescent screens. 2,937,107, 5-17-60, Cl. 117-8.
- Phillips Drill Co.: *See*—  
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 Werstein, Frank A. 2,926,353.  
 Werstein, Frank A. 2,936,736.
- Phillips, Edward H.: *See*—  
 Phillips, William. 2,919,523.
- Phillips, Edwin D.: *See*—  
 Phillips, William. 2,919,523.
- Phillips, Edwin D. Lens grinding machine or generator. 2,955,390, 10-11-60, Cl. 51-124.
- Phillips, Edwin N., to Collins Radio Co. Arrangement of directional couplers for increasing effective directivity. 2,921,278, 1-12-60, Cl. 333-97.
- Phillips, Edwin W.: *See*—  
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- Phillips, Emory B. Step switch control system. 2,927,225, 3-1-60, Cl. 307-115.
- Phillips, Ernest T., and W. C. Anderson, to The Union Metal Mfg. Co. Retractable arm construction. 2,964,281, 12-13-60, Cl. 248-298.
- Phillips, Eugene H., to Lennan Lights, Inc. Humidity indicating device and low pressure static seal therefor. 2,934,954, 5-3-60, Cl. 73-335.
- Phillips, Evan M. Metering device for use in connection with milking machinery. 2,932,200, 4-12-60, Cl. 73-392.
- Phillips, George A.: *See*—  
 Miller, Herman J., Phillips, and Hebel. 2,921,763.
- Phillips, Gordon W.: *See*—  
 Larkin, Stephen A., and Phillips. 2,929,467.
- Phillips, Harold P., to Hastings Mfg. Co. Piston ring assembly for internal combustion engines. 2,938,758, 5-31-60, Cl. 309-44.
- Phillips, Harold P., to Hastings Mfg. Co. Piston ring assembly for internal combustion engines and piston ring elements therefor. 2,940,803, 6-14-60, Cl. 309-44.
- Phillips, Harold P., and R. E. Wait, to Hastings Mfg. Co. Anchors for safety belts and the like. 2,932,871, 4-19-60, Cl. 24-136.
- Phillips, Harry F. Holder for clip-on type bow ties. 2,964,196, 12-13-60, Cl. 211-13.
- Phillips, Hazel B.: *See*—  
 Phillips, Omi G. 2,960,075.
- Phillips, Ira B., to Duval Sulphur & Potash Co. Compacting process for producing a granular product. 2,935,387, 5-3-60, Cl. 23-313.
- Phillips, J. B.: *See*—  
 Phillips, William. 2,919,523.
- Phillips, James B.: *See*—  
 Phillips, Claud B., Cleo B., and J. B. 2,920,466.
- Phillips, James W., D. G. A. Thomas, and W. H. Walton, to Coal Industry (Patents) Ltd. Apparatus for counting particles. 2,948,469, 8-9-60, Cl. 235-92.
- Phillips, John C. Cylindrical locks. 2,958,553, 11-1-60, Cl. 292-169.
- Phillips, John J., Jr., to Phillips Scientific Corp. Recording device. 2,926,058, 2-23-60, Cl. 346-111.
- Phillips, John J., Jr., to Phillips Scientific Corp. Apparatus for chromatographic analysis. 2,935,908, 5-10-60, Cl. 88-14.
- Phillips, John R. Stabilizer assembly for heavy construction equipment. 2,929,517, 3-22-60, Cl. 212-145.
- Phillips, John T., Jr., J. C. Boesch, Jr., and T. A. Elliott, to Lilliston Implement Co. Rotary type green forage harvester. 2,953,888, 9-27-60, Cl. 56-25.4.
- Phillips, Joseph A.: *See*—  
 Murray, Richard L., and Phillips. 2,925,232.
- Phillips, Kenneth L., and H. R. Sallans, to National Research Council. Foam breaking device. 2,948,351, 8-9-60, Cl. 183-2.5.
- Phillips, Lawrence H., to Container Corp. of America. Compartmented carton. 2,965,278, 12-20-60, Cl. 229-28.
- Phillips, Leonard R.: *See*—  
 Kurtz, Franz J., Homerkamp, Phillips, and Kurth. 2,960,602.
- Phillips, Leonard R., and R. L. Miller, to Anemostat Corp. of America. Electric constant volume control. 2,922,580, 1-26-60, Cl. 236-13.
- Phillips, Leonard R., to Anemostat Corp. of America. Air outlet device for ventilating apparatus. 2,933,035, 4-19-60, Cl. 98-40.
- Phillips, Leslie N., to National Research Development Corp. Moulding of synthetic resinous materials. 2,952,040, 9-13-60, Cl. 18-55.
- Phillips, Lionel L. Thread spool. 2,924,396, 2-9-60, Cl. 242-129.8.
- Phillips Machines, Inc.: *See*—  
 Phillips, William J. 2,966,361.
- Phillips, Malcolm E., Jr., to American Machine and Foundry Co. Filter tip machine. 2,957,450, 10-25-60, Cl. 118-40.
- Phillips, Marjorie E. Training unicycle with adjustable balancing supports. 2,950,127, 8-23-60, Cl. 280-304.
- Phillips, Milton P., to Arso Corp. Paint rollers with non-metallic bearings. 2,935,757, 5-10-60, Cl. 15-230.



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Phillips, Norman W. F.: *See*—  
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Phillips, Oliver V., to The Star Recorder Corp. of Denver. Tension apparatus for a cable used with recording apparatus for earth bore drilling. 2,932,190, 4-12-60, Cl. 73-151.5.  
Phillips, Omi G., deceased, by C. Weberg, executor, 1/2 to H. B. Phillips, and 1/2 to J. H. Rutledge. Rotary type fluid motor. 2,960,075, 11-15-60, Cl. 121-90.  
Phillips Petroleum Co.: *See*—  
Adams, Max M. 2,941,396.  
Adelman, Barnet R. 2,930,683.  
Adelman, Barnet R. 2,937,493.  
Adelman, Barnet R. 2,939,176.  
Adelman, Barnet R. 2,939,396.  
Ambrose, James M. 2,933,041.  
Anderson, Carlton C. 2,944,406.  
Anderson, Herbert R., Jr. 2,944,042.  
Anderson, Herbert R., Jr. 2,965,624.  
Andrews, Alvin J. 2,953,437.  
Archer, Bradford L. 2,943,973.  
Arnold, Philip M. 2,953,553.  
Austin, Oliver K. 2,948,918.  
Austin, Oliver K. 2,966,232.  
Ayers, Arnold L., and Scott. 2,932,941.  
Bailey, Grant C., Holm, and Clark. 2,949,429.  
Baptist, James N., and Canterino. 2,920,064.  
Banks, Robert L. 2,930,788.  
Barber, Franklin T. 2,958,586.  
Bauer, Robert D., and Mitchell. 2,949,408.  
Benedict, Bruce C. 2,924,590.  
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Benedict, Bruce C. 2,949,419.  
Bennett, Sidney W. 2,928,697.  
Berger, Donald E. 2,926,074.  
Bice, Charles C. 2,965,465.  
Blake, Arthur E. 2,934,647.  
Blackburn, Charles W. 2,938,383.  
Bliss, Lyle A. 2,928,813.  
Bobo, Roy A., and Hoch. 2,933,820.  
Bost, Howard W., and Doss. 2,964,563.  
Boudreaux, George S., and Bobo. 2,945,678.  
Bowers, Frederick A., and Stafford. 2,921,335.  
Brace, Robert L., and Schirmer. 2,937,519.  
Brasch, Edgar W., Jr. 2,962,763.  
Brashear, Roy T. 2,951,211.  
Brashear, Roy T. 2,954,470.  
Bresee, Dick P. 2,952,531.  
Bridgeman, Oscar C. 2,952,428.  
Bright, Glenn O. 2,945,951.  
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Broerman, Arthur B. 2,933,974.  
Brooke, Jesse M. 2,934,408.  
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Burk, Marvin C. 2,945,160.  
Burk, Marvin C. 2,959,676.  
Burkes, William M., Jr. 2,962,051.  
Campbell, Paul E. 2,928,756.  
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Canterino, Peter J., and Smith. 2,927,100.  
Cantrel, Kenneth E. 2,946,717.  
Carpenter, Paul G. 2,930,197.  
Carr, Donald E. 2,919,684.  
Carr, Donald E. 2,940,253.  
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Carroll, James H., Runberg, and Benjamin. 2,965,510.  
Carter, Norman C. 2,955,080.  
Cines, Martin R. 2,963,469.  
Clark, Ernest E. 2,925,912.  
Clark, Joseph W. 2,929,682.  
Clark, Joseph W. 2,938,022.  
Claudy, Harry N. 2,953,440.  
Cobb, Joseph R., Jr. 2,955,081.  
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Cooper, William T. 2,927,904.  
Cottle, John E. 2,943,082.  
Cottle, John E. 2,952,671.  
Cottle, John E. 2,964,511.  
Cottle, John E., and Stevens. 2,930,786.  
Cramer, John W., and Osburn. 2,933,823.  
Crawford, Francis W., and Stoops. 2,925,318.  
Croley, Leo B. 2,940,272.  
Crouch, Willie W., and Hilyer. 2,931,834.  
Czenkusch, Edward L., and Wilson. 2,954,368.  
Dale, Glenn H. 2,964,513.  
Davison, Joseph W. 2,933,901.  
Dean, Lloyd E., Groebe, Ivey, and Flavin. 2,953,606.  
Delaloye, John A., and Stafford. 2,931,067.  
Delap, Joseph A., and Dietz. 2,965,585.  
Detter, Clyde V. 2,945,015.  
Detter, Clyde V. 2,956,959.  
De Vault, Albert N. 2,926,140.  
De Vault, Albert N. 2,931,841.  
De Vault, Albert N. 2,946,740.  
Dollinger, Robert E. 2,961,300.  
Doyle, Robert. 2,952,874.  
Drummond, John A. 2,964,392.  
Dye, Robert F. 2,921,053.  
Dyer, Alvah F., and Reed. 2,960,106.

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Edmonds, James T., Jr., Nowlin, and Lyons. 2,962,490.  
Edwards, Harold L. 2,942,645.  
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Engel, John H., and Bellinger. 2,938,866.  
Engle, Charles J., and Marwil. 2,923,151.  
Fawcett, William L. 2,964,514.  
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Findlay, Robert A. 2,927,139.  
Findlay, Robert A. 2,938,935.  
Findlay, Robert A. 2,945,903.  
Findlay, Robert A. 2,955,910.  
Fisher, William C. 2,957,489.  
Folz, John M. 2,929,508.  
Folz, John M. 2,942,042.  
Folz, John M., and Bretz. 2,963,525.  
Fox, Homer M. 2,926,613.  
Fox, Homer M. 2,939,278.  
Fox, Homer M. 2,944,393.  
Fox, Homer M. 2,952,122.  
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Frenzel, Alfion O. 2,954,472.  
Fritchette, James. 2,957,159.  
Gardner, Lloyd E. 2,953,516.  
Gardner, Lloyd E. 2,965,562.  
Gardner, Lloyd E., and Hogan. 2,939,892.  
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Giles, Bill L. 2,961,841.  
Gilmore, Forrest E. 2,921,970.  
Gilmore, Forrest E. 2,929,772.  
Gilmore, Forrest E. 2,952,983.  
Gilmore, Forrest E. 2,956,411.  
Goins, Robert R. 2,936,303.  
Goins, Robert R. 2,955,714.  
Goins, Robert R. 2,957,861.  
Goins, Robert R. 2,964,512.  
Goins, Robert R., and Kosinsky. 2,952,038.  
Goldtrap, Walter A. 2,961,840.  
Gomory, Paul L. 2,936,834.  
Gomory, Paul L. 2,939,294.  
Gomory, Paul L. 2,951,061.  
Goodhue, Lyle D. 2,941,879.  
Goodhue, Lyle D., Cantrel, and Schnitzer. 2,943,976.  
Goodhue, Lyle D., Cantrel, and Gaines. 2,952,582.  
Goodhue, Lyle D., Louthan, and Cantrel. 2,955,980.  
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Goodhue, Lyle D., Stansbury, and Louthan. 2,957,799.  
Gragson, James T. 2,940,994.  
Gragson, James T. 2,947,694.  
Green, Richard M. 2,921,968.  
Green, William B. 2,939,293.  
Greening, John P. 2,921,738.  
Guenther, Emmerich. 2,928,242.  
Guth, Eugene D. 2,943,928.  
Guth, Eugene D. 2,962,368.  
Guth, Eugene D. 2,963,356.  
Hachmuth, Karl H. 2,965,548.  
Hann, Paul D. 2,956,015.  
Hann, Paul D. 2,963,422.  
Hanson, George E., and Croley. 2,930,784.  
Hanson, George H. 2,945,127.  
Hanthorn, George W. 2,933,900.  
Harper, Kenneth A. 2,941,936.  
Harper, Kenneth A. 2,965,454.  
Hart, James L., and Reusser. 2,953,432.  
Hawkins, Harold M., and Goldtrap. 2,949,447.  
Hebard, Glen G., and Kangas. 2,920,483.  
Helmers, Carl J., and Turvey. 2,921,018.  
Henderson, Eulas W. 2,930,682.  
Henderson, William B. 2,964,516.  
Hendrix, Hurschel V. 2,934,904.  
Hepp, Harold J., and Box. 2,927,106.  
Hepp, Harold J., and Drehman. 2,926,131.  
Hettick, George R. 2,938,856.  
Himel, Chester M. 2,934,563.  
Hoag, William F. 2,960,839.  
Hogan, John P. 2,959,577.  
Hogan, John P. 2,959,578.  
Hogan, John P., and Banks. 2,951,816.  
Hogan, Robert J. 2,926,130.  
Holm, Vernon C. F., Bailey, and Clark. 2,921,971.  
Hornback, Daniel B. 2,953,147.  
Hubbell, Charles W. 2,928,247.  
Hubbell, Charles W. 2,928,248.  
Huddins, Jack R. 2,965,549.  
Hurley, James R. 2,926,983.  
Hurley, James R. 2,958,420.  
Hurley, James R. 2,958,519.  
Hutchinson, William M. 2,926,386.  
Hutchinson, William M. 2,945,344.  
Hutchinson, William M. 2,959,619.  
Hutson, Thomas, Jr. 2,948,676.  
Hutto, John F. 2,929,857.  
Huxley, Edward E., and Pullin. 2,965,472.  
Jennings, Gerald P. 2,925,784.  
Johnson, Paul H., and Eberline. 2,947,684.  
Johnson, Paul H., and Mills. 2,963,527.  
Jones, Rufus V., and Scott. 2,930,726.  
Kahler, Paul E. 2,965,085.  
Keathley, Anthony C., and Kimmel. 2,944,390.



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Kimmel, Norman A. 2,950,682.  
 Kindred, Raymond L. 2,940,071.  
 Kindred, Raymond L. 2,951,155.  
 King, William R. 2,949,349.  
 Kittredge, George D. 2,947,138.  
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     Vibrating pillow. 2,943,621, 7-5-60, Cl. 128-33.  
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- Phillips, Stanley H., to The Warner Brothers Co. Brassiere or like garment. 2,949,115, 8-16-60, Cl. 128-482.
- Phillips, Stanley R.: *See—*  
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- Phillips, Virgel E., to General Electric Co. Fluid blast circuit interrupter. 2,927,986, 3-8-60, Cl. 200-150.
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- Phillips, Wendell W., to Eli Lilly and Co. Skid-pallet combination. 2,950,078, 8-23-60, Cl. 248-120.
- Phillips, William, deceased; E. H. E. D. and J. B. Phillips, executors,  $\frac{1}{4}$  to B. M. Phillips,  $\frac{1}{4}$  to E. H. Phillips,  $\frac{1}{4}$  to E. D. Phillips, and  $\frac{1}{4}$  to J. B. Phillips. Ophthalmic lenses and process and apparatus for producing the same. 2,919,523, 1-5-60, Cl. 51-284.
- Phillips, William A.: *See—*  
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- Phillips, William A., to The Upjohn Co. Vitamin emulsion. 2,953,496, 9-20-60, Cl. 167-81.
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- Platt, Alvin R., and R. O. Beach. Chatter switch. 2,964-603, 12-13-60, Cl. 200-81.
- Platt, Donald R., and P. J. Schlusser, to International Business Machines Corp. Collator. 2,955,710, 10-11-60, Cl. 209-110.
- Piazza, Thomas E., to Continental Can Co., Inc. Bag making machine and method. 2,942,529, 6-28-60, Cl. 93-12.
- Piazza, Thomas E., to Continental Can Co., Inc. Container filling and closing machine. 2,952,959, 9-20-60, Cl. 53-266.
- Piazza, Thomas E., to Continental Can Co., Inc. Bag with drawstring closure. 2,955,741, 10-11-60, Cl. 229-63.
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- Piberhofer, Karl. Ski boot. 2,935,798, 5-10-60, Cl. 36-2.5.
- Picalarga, Marcello. Stonebreaking machines. 2,921,750, 1-19-60, Cl. 241-267.
- Picanol, Jaime. Heddle frame return motion device for broad weaving looms. 2,943,645, 7-5-60, Cl. 139-89.
- Picanol, Jaime. Tongue for shuttle boxes in weaving looms. 2,943,648, 7-5-60, Cl. 139-155.
- Picard, Gaston, to Societe Anonyme des Glaces et Produits Chimiques de Saint-Gobain, Chaung et Cirey. Apparatus for the decoration of articles. 2,928,368, 3-15-60, Cl. 118-102.
- Picard, Lloyd E.: *See—*  
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- Picard, Lloyd E., and F. Swedish, Jr., to Minnesota Mining and Mfg. Co. Masking tape. 2,941,661, 6-21-60, Cl. 206-59.
- Picard, Pierre: *See—*  
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- Picard, Robert G., and J. A. Le Blanc, to Central Scientific Co. Cold cathode ionization gauge. 2,941,099, 6-14-60, Cl. 313-7.
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- Picha, George J., and F. C. Winkler, to Westinghouse Electric Corp. Luminaire hanger. 2,936,991, 5-17-60, Cl. 248-343.
- Picha, George J., and F. C. Winkler, to Westinghouse Electric Corp. Luminaire. 2,946,880, 7-26-60, Cl. 240-51.11.
- Pichl, Eduard: *See—*  
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- Picht, Verna L. Bed utility drawer and shelf. 2,954,568, 10-4-60, Cl. 5-308.
- Pick, Hans H., D. A. Brandt, and H. W. Franz, to Kennecott Copper Corp. Automatic, cyclic, discharge device for rotary, material-processing vessels. 2,925,940, 2-23-60, Cl. 222-167.
- Pick, Vernon J.: *See—*  
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- Pickard, Jack, to N. Slater Co., Ltd. Wringer. 2,948,138, 8-9-60, Cl. 68-258.
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- Pickard, Robert M., and A. Silver, to The Garrett Corp. Gas turbine compressor driven air conditioning system. 2,929,224, 3-22-60, Cl. 62-172.
- Pickavance, William T., C. R. Brown, and A. G. Rose, to National Cooperatives, Inc. Teat cup inflation. 2,935,964, 5-10-60, Cl. 119-14.52.
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- Pickert, Lynn I., to The New York Air Brake Co. Release-insuring valve for air brakes. 2,939,746, 6-7-60, Cl. 303-70.
- Pickett, Charles F., R. E. Wagner, Jr., and M. Rosenfeld, to United States of America, Army. Solvent, carbon loosener. 2,929,789, 3-22-60, Cl. 252-153.
- Pickett, Charles F., and M. Rosenfeld, to United States of America, Army. Process for inhibiting cooling systems. 2,961,291, 11-22-60, Cl. 21-2.7.
- Pickett, Charles F., and M. Rosenfeld, to United States of America, Army. Process for inhibiting acid cleaned cooling systems. 2,961,292, 11-22-60, Cl. 21-2.7.
- Pickett, George G., and D. P. McElrath, to Banstrom Industries, Inc. Automatic control mechanism. 2,958,501, 11-1-60, Cl. 251-3.
- Pickett, John W., to Pickett Products, Inc. Level. 2,939,221, 6-7-60, Cl. 33-206.
- Pickett, Neales L. Cable stringing block. 2,946,559, 7-26-60, Cl. 254-134.3.
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- Pickholtz, Raymond L., and A. Macovski, to Radio Corp. of America. Gain control of demodulation pulses. 2,946,845, 7-26-60, Cl. 178-504.
- Picking, Howard M., Jr., and H. E. Miller, to Miller-Picking Corp. Undertaker's vehicle. 2,964,349, 12-13-60, Cl. 296-16.
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- Pickles, Joseph, to Ferro Stamping Co. Single motor multiple drive unit. 2,931,242, 4-5-60, Cl. 74-472.
- Pickles, Joseph, to Ferro Stamping Co. Seat adjusting mechanism. 2,931,424, 4-5-60, Cl. 155-14.
- Pickles, Joseph, to Ferro Stamping Co. Slideless seat support and adjusting device. 2,942,647, 6-28-60, Cl. 155-14.
- Pickles, Joseph, to Ferro Stamping Co. Non-jamming actuated screw and nut combination. 2,944,436, 7-12-60, Cl. 74-424.8.
- Pickles, Joseph, to Ferro Stamping Co. Method of making feed screw stop. 2,944,437, 7-12-60, Cl. 74-424.8.
- Pickles, Joseph, to Ferro Stamping Co. Seat adjuster mechanism. 2,961,032, 11-22-60, Cl. 155-14.
- Pickles, Joseph, to Ferro Stamping Co. Automatically adjustable seat supports. 2,962,084, 11-29-60, Cl. 155-14.
- Pickles, Sidney, and R. S. Tice; said Tice assor. to said Pickles. Antenna deicing. 2,947,841, 8-2-60, Cl. 219-10.79.



- Pickles, Sidney B., and J. S. Engel, to International Telephone and Telegraph Corp. Omnidirectional antenna having rotating parasitic conductive elements. 2,938,208, 5-24-60, Cl. 343-761.
- Picklesimer, Marion L., and W. C. Thurber, to United States of America, Atomic Energy Commission. Method of suppressing UAl<sub>3</sub> formation in U-Al alloys. 2,950,188, 8-23-60, Cl. 75-122.7.
- Pickril, William. Drapery supports. 2,934,781, 5-3-60, Cl. 16-87.6.
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- Pickwick Co.: *See*—  
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- Piegara, Joseph, to Engelhard Industries, Inc. End fitting for vapor arc lamps. 2,935,600, 5-3-60, Cl. 240-11.4.
- Piekarski, Leon T., to General Electric Co. Mixed ferrite composition. 2,961,407, 11-22-60, Cl. 252-62.5.
- Piel, Gerard J. R., to Societe d'Electronique et d'Automatisme. Analog-to-digital converter system. 2,927,312, 3-1-60, Cl. 340-347.
- Pielou, Douglas P. Attitude indicator. 2,923,002, 1-26-60, Cl. 343-12.
- Pieper, Alphonse F. Grooved refractory pulley. 2,938,757, 5-31-60, Cl. 308-190.
- Pieper, Arthur G.: *See*—  
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- Pieper, Hans, H. Ebert, and G. Breil, to Knapsack-Griesheim Aktiengesellschaft. Method of processing phosphorus sludge. 2,925,326, 2-16-60, Cl. 23-165.
- Pieper, Josef H. R., and J. E. V. N. Stauch, to Hercules Powder Co. Process for the preparation of organic nitroso compounds. 2,949,490, 8-16-60, Cl. 260-647.
- Piepmeyer, Joseph A., to Emery Industries, Inc. Removing odor from petroleum-based dry cleaning solvent with diglycolic acid. 2,944,964, 7-12-60, Cl. 208-180.
- Pier, Jerome R.: *See*—  
Glass, William H., and Pier. 2,930,445.
- Pier, Jerome R., and W. S. Johnston, to Westinghouse Air Brake Co. Pressurization control system for inflatable dunnage bags used in freight cars. 2,960,942, 11-22-60, Cl. 105-369.
- Pierce, Allen F.: *See*—  
Starkey, Neal E., and Pierce. 2,942,790.
- Pierce, Bernard N., to The Merrow Machine Co. Looper carrier for sewing machine. 2,931,328, 4-5-60, Cl. 112-102.
- Pierce, C. S., Co.: *See*—  
Lindberg, Charles W. 2,963,745.
- Pierce, Chester J., Jr., to Baljak Corp. Device for folding and locking the corners of a folding box blank. 2,919,633, 1-5-60, Cl. 93-51.
- Pierce, David W., to United States Steel Corp. Fume-collecting hood for electric furnace. 2,932,679, 4-12-60, Cl. 13-9.
- Pierce, Donald R., to Teleflex Inc. Control apparatus. 2,924,987, 2-16-60, Cl. 74-472.
- Pierce, Donald R., to Teleflex Inc. Gear shift and throttle control. 2,957,352, 10-25-60, Cl. 74-472.
- Pierce, Earl R., to General Motors Corp. Pump. 2,929,332, 3-22-60, Cl. 103-148.
- Pierce, Earl W., and H. E. Fortier, to General Motors Corp. Igniter plug. 2,939,983, 6-7-60, Cl. 313-131.
- Pierce, Elwood K.: *See*—  
Watts, John D., and Pierce. 2,938,562.
- Pierce, Frank W.: *See*—  
MacMillan, Charles W., Holaday, and Pierce. 2,923,067.
- Pierce, Harold C. Street sweeper brush winding machine. 2,927,820, 3-8-60, Cl. 300-14.
- Pierce, Harold W., to Ford Motor Co. Window regulator. 2,925,268, 2-16-60, Cl. 268-126.
- Pierce, John B., Foundation: *See*—  
Kaufman, Herbert C. 2,924,574.  
Kaufman, Herbert C. 2,924,575.  
Kaufman, Herbert C. 2,934,502.
- Pierce, John R., to Bell Telephone Laboratories, Inc. Low noise velocity modulation apparatus. 2,947,905, 8-2-60, Cl. 315-3.
- Pierce, John R., to Bell Telephone Laboratories, Inc. Scanning antenna system. 2,959,784, 11-8-60, Cl. 343-783.
- Pierce, Lawrence, and M. P. White, to Westinghouse Electric Corp. Permanent magnets. 2,949,569, 8-16-60, Cl. 317-201.
- Pierce, Lee D.: *See*—  
Franz, Henry H., and Pierce. 2,947,128.
- Pierce, Lowell J.: *See*—  
Benson, John A., and Pierce. 2,926,495.
- Pierce, Maurice R., J. S. Fassero, and L. Wottring. Protractor and scale. 2,931,103, 4-5-60, Cl. 33-75.
- Pierce, Melbourne H., R. L. Perry, and F. W. Adams, Jr., to The Gillette Co. Display racks. 2,946,457, 7-26-60, Cl. 211-86.
- Pierce Metal Products, Inc.: *See*—  
Tower, Pierce. 2,947,566.
- Pierce, Norman J., to Bell Telephone Laboratories, Inc. Electroforming millimeter wave components. 2,932,609, 4-12-60, Cl. 204-20.
- Pierce, Norton T.: *See*—  
Key, Donald E., Dubitzky, and Pierce. 2,928,386.  
Wood, Charles W., and Pierce. 2,961,187.
- Pierce, Ogden R., to Dow Corning Corp. Chlorodifluoropropyl substituted silanes and siloxanes. 2,961,862, 9-6-60, Cl. 260-448.2.
- Pierce, Ogden R., and G. W. Holbrook, to Dow Corning Corp. Fluoroalkylsiloxane fluids. 2,961,425, 11-22-60, Cl. 260-46.5.
- Pierce, Paul W. Knife for decapping honeycomb. 2,960,592, 11-15-60, Cl. 219-21.
- Pierce, R. H., Mfg. Co.: *See*—  
Gheen, Lyndle G. 2,926,686.
- Pierce, Raymond L., to Tru-Bal Products, Inc. Mounting frame for wheel balancers. 2,929,598, 3-22-60, Cl. 248-205.
- Pierce, Robert J. Index plate for drill press. 2,923,179, 2-2-60, Cl. 77-64.
- Pierce, Roger J., to Collins Radio Co. Guided missile ordnance system. 2,925,965, 2-23-60, Cl. 244-14.
- Pierce, Roger V., P. C. O'Leary, and J. C. O'Donnell, to Machinery Center, Inc. Skip hoist for shaft-sinking. 2,937,773, 5-24-60, Cl. 214-95.
- Pierce, Russell F., to Union Carbide Corp. Apparatus for producing film. 2,937,402, 5-24-60, Cl. 18-14.
- Pierce, Vernon C.: *See*—  
Korn, Irving, Kaye, Pierce, Walworth, and Huscher. 2,956,915.
- Pierce-Waller Co.: *See*—  
Bondurant, Carlton W. 2,953,305.
- Pierce, William C., to Warner Electric Brake & Clutch Co. Magnetic torque producing device. 2,919,776, 1-5-60, Cl. 192-84.
- Pierce, William C., to Warner Electric Brake & Clutch Co. Magnetic torque producing device with lubricated friction faces. 2,958,406, 11-1-60, Cl. 192-107.
- Pierfederici, Alfred J.: *See*—  
Kukowski, John L., Kovacs, and Pierfederici. 2,936,891.
- Pierie, Charles G. Collapsible clothes dryer. 2,951,595, 9-6-60, Cl. 211-178.
- Pieronek, Valentine R., and P. A. Fritzsche, to Eastman Kodak Co. Receptacle for photographic prints and negatives. 2,958,726, 10-18-60, Cl. 229-72.
- Pierotti, Gino J.: *See*—  
Hood, George C., Smith, and Pierotti. 2,949,343.
- Pierrot, Andre: *See*—  
Guillaud, Charles L., Pierrot, and Lescroel. 2,962,444.
- Pierrot, Andre, Y. C. E. Lescroel, B. Grabowski, and C. L. Guillaud, to Lignes Telegraphiques & Telephoniques. Rectangular hysteresis loop ferrites. 2,962,445, 11-29-60, Cl. 252-62.5.
- Pierschel, Gerhard, to VEB Kamera-und Kinowerke Dresden. Film projector device. 2,943,534, 7-5-60, Cl. 88-17.
- Pierson, Arnold A., F. E. Smithberg, and M. C. Supitilov, to Du Kane Corp. Magnetic recording and reproducing machine. 2,951,127, 8-30-60, Cl. 179-100.2.
- Pierson, Bernice: *See*—  
Pierson, Hugh C. 2,928,463.
- Pierson, Frederick M.: *See*—  
Orelind, John R., and Pierson. 2,952,323.
- Pierson, George R., to North American Aviation, Inc. Frequency sensitive device. 2,956,227, 10-11-60, Cl. 324-78.
- Pierson, Herman V., to United States Steel Corp. Nail feeding mechanism. 2,923,186, 2-2-60, Cl. 80-7.
- Pierson, Hugh C., deceased: *See*—  
B. Pierson administratrix. Grain car door. 2,928,463, 3-15-60, Cl. 160-368.
- Pierson, Hugh O., to Goodyear Aircraft Corp. Method of applying a wire to the surface of a body along a given pattern. 2,962,802, 12-6-60, Cl. 29-155.5.
- Pierson, Norman A., to Natorizer Co. Material reducing apparatus. 2,965,320, 12-20-60, Cl. 241-185.
- Pierson, Reed J. Power steering attachments for outboard motors. 2,951,460, 9-6-60, Cl. 114-144.
- Pieteo, Benjamin A., Jr., to General Electric Co. Enclosed electric switch. 2,961,501, 11-22-60, Cl. 200-50.
- Pieters, Willem J.: *See*—  
Groot, Jacob, and Pieters. 2,952,636.  
Kloosterziel, Hendrik, and Pieters. 2,945,071.
- Pieterse, Marius C. Devices for the transmission of movements. 2,926,537, 3-1-60, Cl. 74-216.3.
- Pieterse, Marius C. Mechanism for the remote transmission of movement. 2,926,624, 3-1-60, Cl. 116-21.
- Pietrasz, Janislav P., to General Electric Co. Moisture separator. 2,921,647, 1-19-60, Cl. 183-111.
- Pietrini, Jean J. Shaping of double-barrel blanks for shotguns. 2,941,337, 6-21-60, Cl. 51-33.
- Pierocola, Roberto. Sole and heel unit for shoes and the like. 2,931,110, 4-5-60, Cl. 36-30.
- Pietruck, Christel: *See*—  
Pfrenge, Otto, and Pietruck. 2,952,545.  
Pfrenge, Otto, and Pietruck. 2,952,549.
- Pietsch, John O. C.: *See*—  
Koplin, Hans O., Pietsch, Roach, and Stewart. 2,926,948.
- Pietsch, William C., to Bucyrus Erie Co. Fluid clutch control for clamshell excavators. 2,947,397, 8-2-60, Cl. 192-87.
- Piette, Raymond G.: *See*—  
Bertie, Louis C., Piette, and Champoux. 2,950,754.
- Pietz, Raymond G., to Phillips Petroleum Co. Signal recording system. 2,940,061, 6-7-60, Cl. 340-15.



- Plety, Raymond G., to Phillips Petroleum Co. Flow measuring apparatus. 2,954,471, 9-27-60, Cl. 250-43.5.
- Piezo Crystal Co.: *See*—  
Samuelson, Wallace H. E. 2,933,628.
- Pifer, Marion J., and J. Hudig, to Sylvania Electric Products Inc. Television receiver dial illumination by surround lighting. 2,932,019, 4-5-60, Cl. 340-369.
- Pifer, Marion J., to Sylvania Electric Products Inc. Tuning mechanism. 2,936,631, 5-17-60, Cl. 74-10.5.
- Pigerol, Charles.: *See*—  
Charlie, Roger, and Pigerol. 2,934,396.
- Piggly Wiggly Corp.: *See*—  
Thompson, Harold D. 2,955,438.
- Pigloo Corp.: *See*—  
Collins, Robert A. 2,923,273.
- Pignolet, Louis.: *See*—  
Pomper, Victor, Gauthier, and Pignolet. 2,964,908.
- Pignone, Joseph, to Daystrom, Inc. Segmental slidewire resistor. 2,934,735, 4-26-60, Cl. 338-176.
- Pignone, Joseph, to Daystrom, Inc. Recorder pen holddown device. 2,954,268, 9-27-60, Cl. 346-140.
- Pigott, Owen R.: *See*—  
Kennaway, Alexander, Lolley, and Pigott. 2,925,983.  
Kennaway, Alexander, and Pigott. 2,926,010.
- Pigott, Owen R., and K. A. Sprout, to Imperial Chemical Industries Ltd. Packing of powdery or granular materials. 2,949,844, 8-23-60, Cl. 100-144.
- Pihl, Karl O. A.: *See*—  
Tornblom, Harald J. L., Pihl, and Hackzell. 2,925,908.
- Pikal, Harry. Caramel-coated apple. 2,946,689, 7-26-60, Cl. 99-138.
- Pikal, Harry. Peanut applicator for apple coating machines. 2,958,308, 11-1-60, Cl. 118-16.
- Pike, Alfred R. J., to Dayton Precision Mfg. Co. Manufacture of commutators having molded cores. 2,963,774, 12-13-60, Cl. 29-155.54.
- Pike, Carl L., to General Electric Co. Instrument indicating arrangements. 2,960,059, 11-15-60, Cl. 116-129.
- Pike, Gerald L., to G. I. Pike, and H. A. Orr, as co-trustees. Machine and method for packaging food products. 2,960,808, 11-22-60, Cl. 53-24.
- Pike, Kenneth R., and E. C. Heidner, to West Bend Aluminum Co. Rewind starting device for outboard motors. 2,938,511, 5-31-60, Cl. 123-179.
- Pike, Nathan R.: *See*—  
Monti, Anthony, and Pike. 2,963,373.
- Pike, Ronald M.: *See*—  
Bailey, Donald L., and Pike. 2,925,313.  
Bailey, Donald L., and Pike. 2,927,839.  
Bailey, Donald L., and Pike. 2,928,806.  
Bailey, Donald L., and Pike. 2,931,693.  
Bailey, Donald L., and Pike. 2,949,434.  
Bailey, Donald L., and Pike. 2,950,986.  
Bailey, Donald L., and Pike. 2,955,898.  
Bailey, Donald L., and Pike. 2,955,899.  
Bailey, Donald L., and Pike. 2,957,744.  
Bailey, Donald L., and Pike. 2,957,781.  
Bailey, Donald L., and Pike. 2,963,338.
- Pike, Ronald M., and R. J. Lisanke, to Union Carbide Corp. Organosilicon methylidenesilane compounds and process for producing the same. 2,942,019, 6-21-60, Cl. 260-448.2.
- Pike, Roscoe A., to Union Carbide Corp. Stabilized silicone elastomers and process for their product. 2,953,543, 9-20-60, Cl. 260-45.95.
- Pike, Roscoe A., to Union Carbide Corp. Organosilicon amine oxides and processes for their production. 2,955,127, 10-4-60, Cl. 260-448.2.
- Pike, Roscoe A., and R. C. Borchert, to Union Carbide Corp. Process for preparing beta-phenylethylchlorosilanes. 2,954,390, 9-27-60, Cl. 260-448.2.
- Pike, Sele S. Power operated sign. 2,951,302, 9-6-60, Cl. 40-30.
- Pike, Winthrop S.: *See*—  
Gray, George W., and Pike. 2,943,306.
- Pike, Winthrop S., and L. E. Flory, to Radio Corp. of America. Automatic sensitivity control for television camera tubes. 2,965,712, 12-20-60, Cl. 178-7.2.
- Piker, Herbert M., to Hamilton-Scotch Corp. Container and dispenser. 2,920,795, 1-12-60, Cl. 222-131.
- Pilar, Frank L.: *See*—  
Field, Edmund, Juveland, Friedlander, and Pilar. 2,965,627.
- Pilar, Frank L., H. N. Friedlander, O. O. Juveland, and E. Field, to Standard Oil Co. Ethylene polymerization process. 2,965,626, 12-20-60, Cl. 260-94.9.
- Pilat, Howard L., and A. Schrage, to Celanese Corp. of America. Phosphate ester compositions. 2,964,477, 12-13-60, Cl. 252-49.8.
- Pilcher, Campbell.: *See*—  
McNally, James A. 2,958,317.
- Pile, Benjamin D., to United States of America, Army. Folding leg splint. 2,926,662, 3-1-60, Cl. 128-88.
- Pilipczak, John.: *See*—  
Strull, Gene, and Pilipczak. 2,929,750.
- Pilipczuk, Vincent T., to Borg-Warner Corp. Crane interlock mechanism. 2,922,382, 1-26-60, Cl. 104-98.
- Pilkington Bros. Ltd.: *See*—  
Cousen, Frank, and Oxley. 2,951,315.  
Davies, John B. 2,937,476.
- Pilkinton, Lloyd L. Filling device. 2,925,085, 2-16-60, Cl. 129-7.
- Pillmore, Charles L.: *See*—  
Morris, Robert H., and Pillmore. 2,960,771.
- Pillnik, Walter F.: *See*—  
Vitense, Harold R., and Pillnik. 2,923,304.
- Pillon, Daniel.: *See*—  
Meyer, Robert, and Pillon. 2,931,707.
- Pilloton, Roger L., to Union Carbide Corp. Process for the concentration of formic acid solutions. 2,951,091, 8-30-60, Cl. 260-542.
- Pilloton, Roger L., to Union Carbide Corp. Sodium carbonate recovery. 2,963,363, 12-6-60, Cl. 75-108.
- Pilloton, Roger L., and P. H. Crayton, to Union Carbide Corp. Process for recovering tungsten values from tungsten-bearing ore. 2,963,342, 12-6-60, Cl. 23-18.
- Pilloton, Roger L., and P. H. Crayton, to Union Carbide Corp. Method of separating molybdenum and tungsten values from leach liquors. 2,963,343, 12-6-60, Cl. 23-23.
- Pillsbury Co., The.: *See*—  
Bauman, Howard E., MacMillan, and Stein. 2,965,492.  
Brabender, Carl W., and Coyne. 2,943,478.  
Brabender, Carl W., and Coyne. 2,943,479.  
Brabender, Carl W., and Coyne. 2,957,673.  
Durst, Jack R., and Stein. 2,952,544.  
Easter, Ross A. 2,940,654.  
Harrel, Chastain G., and Bosin. 2,928,739.  
Rejsa, Jack J. 2,920,429.  
Rosenthal, Waldemar A., and Pinkalla. 2,928,740.  
Sams, Powell F., and Teders. 2,928,494.  
Zoeller, Richard J., and Henderson. 2,949,369.
- Pilo, Claes W., and S. W. Dahlbeck; said Dahlbeck assor. to said Pilo. Apparatus for intimate contacting of two fluid media having different specific weight. 2,941,872, 6-21-60, Cl. 23-270.5.
- Pilot Hosiery Mills, Inc.: *See*—  
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- Pilot Research Corp.: *See*—  
Garrou, Louis W., and Squillario. 2,962,884.
- Pilous, Albert J.: *See*—  
Fike, Russell R., and Pilous. 2,920,385.
- Pilz, Donald C., to United Shoe Machinery Corp. Work supports for shoe machines. 2,962,737, 12-6-60, Cl. 12-86.7.
- Pimbley, George H., to Turco Products, Inc. Process for producing aluminum surface coatings. 2,927,874, 3-8-60, Cl. 148-6.27.
- Pimbley, George H., to Turco Products, Inc. Process and compositions for producing aluminum surface conversion coatings. 2,948,643, 8-9-60, Cl. 148-6.27.
- Pinazzi, Christian P.: *See*—  
Lehmann, Rene L., Petusseau, and Pinazzi. 2,931,845.
- Pinchbeck, Peter H., and F. B. Popper, to The Coal Tar Research Association. Production of oxidation catalysts. 2,941,957, 8-21-60, Cl. 252-440.
- Pinckars, Balthasar H., to Minneapolis-Honeywell Regulator Co. Condition detecting apparatus. 2,920,252, 1-5-60, Cl. 317-149.
- Pinckaers, Balthasar H., to Minneapolis-Honeywell Regulator Co. Transistor inverter. 2,926,296, 2-23-60, Cl. 321-45.
- Pinckaers, Balthasar H., to Minneapolis-Honeywell Regulator Co. Transistor circuit. 2,945,133, 7-12-60, Cl. 307-88.5.
- Pinckaers, Balthasar H., to Minneapolis-Honeywell Regulator Co. Semiconductor pulse width modulator. 2,947,950, 8-2-60, Cl. 332-9.
- Pinckaers, Balthasar H., to Minneapolis-Honeywell Regulator Co. Electric apparatus. 2,956,168, 10-11-60, Cl. 250-83.6.
- Pincoff, John, and D. H. West, to The International Nickel Co., Inc. Production of cobaltous hydroxide. 2,950,172, 8-23-60, Cl. 23-183.
- Pincus, Alexis G., to General Electric Co. Controlled resistivity glaze for ignitor plugs. 2,934,667, 4-26-60, Cl. 313-131.
- Pincus, Alexis G., to General Electric Co. Composite metal-forsterite ceramic bodies. 2,962,136, 11-29-60, Cl. 189-36.5.
- Pinder, Edison. Slasher saws. 2,956,596, 10-18-60, Cl. 143-46.
- Pinder, James M., to General Electric Co. Wear and stretch compensating control arrangement for variable speed belt drive. 2,920,493, 1-12-60, Cl. 74-230.17.
- Pine, Arthur J., and J. F. Wagner. Universal power tool holder for use with expandible self-feeding struts. 2,947,204, 8-2-60, Cl. 77-7.
- Pine, William S. Pump. 2,948,222, 8-9-60, Cl. 103-40.
- Pineapple Research Institute of Hawaii.: *See*—  
Cykler, John F., and Tribble. 2,924,284.  
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- Pines, Arthur N.: *See*—  
Shaffer, Lloyd H., and Pines. 2,945,873.
- Pines, Seemon H.: *See*—  
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- Pingon, Pierre J. Concrete mixing machine. 2,937,012, 5-17-60, Cl. 259-167.
- Pinkalla, Hamilton A.: *See*—  
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- Pinke, August H., to H. D. Hudson Mfg. Co. Nozzle assembly for sprayers. 2,923,481, 2-2-60, Cl. 239-354.
- Pinkel, Isadore I. Back structure for crash resistant seat. 2,952,804, 9-13-60, Cl. 155-179.



- Pinkel, Robert H.: *See*—  
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- Pinkerton, Richard C.: *See*—  
Giraitis, Albert P., Pearson, and Pinkerton. 2,960,450.
- Pinkley, Clyde W., to Industrial Nucleonics Corp. Nuclear magnetic resonance measuring and control device. 2,960,650, 11-15-60, Cl. 324-5.
- Pinkley, Clyde W., to Industrial Nucleonics Corp. Nuclear magnetic resonance measuring apparatus. 2,964,696, 12-13-60, Cl. 324-5.
- Pinkvoss, Agnes: *See*—  
Pinkvoss, Berthold P., and Mayeran. 2,931,330.
- Pinkvoss, Berthold P., deceased (by A. Pinkvoss, executrix), and W. Mayeran, to The Singer Mfg. Co. Knife guards for sewing machines. 2,931,330, 4-5-60, Cl. 112-261.
- Pino, Manuel A., and P. C. Condit, to California Research Corp. Hypergolic fuel containing mercaptals or mercaptols. 2,940,250, 6-14-60, Cl. 60-35.4.
- Pinotti, Alfred D.: *See*—  
Kegg, Robert R., and Pinotti. 2,951,167.
- Pinotti, Alfred D., to Owens-Illinois Glass Co. Method of forming a hollow glass article. 2,926,459, 3-1-60, Cl. 49-85.
- Pinotti, Alfred D., to Owens-Illinois Glass Co. Furnace for glass feeding and conditioning. 2,941,335, 6-21-60, Cl. 49-55.
- Pinotti, Alfred D., to Kimble Glass Co. Centrifugal molding apparatus. 2,961,703, 11-29-60, Cl. 18-26.
- Pinotti, Alfred D., to Kimble Glass Co. Method for producing glass beads. 2,963,824, 12-13-60, Cl. 49-85.
- Pinotti, Primo L.: *See*—  
Barusch, Maurice R., and Pinotti. 2,950,960.
- Pinsenschaum, Edwin C.: *See*—  
Mog, Henry V., and Pinsenschaum. 2,927,499.
- Pinsenschaum, Edwin C., to American Brake Shoe Co. Control operating means. 2,957,057, 10-18-60, Cl. 200-5.
- Pinson, Abraham. Rail end coupling device. 2,924,468, 2-9-60, Cl. 287-20.5.
- Pinson, Abraham. Coin box closure. 2,938,372, 5-31-60, Cl. 70-85.
- Pinson, Ellis R., Jr., and G. D. Laubach, to Chas. Pfizer & Co., Inc. 1,5-bis-dimethylamino-3-pentanol diethobromide. 2,941,004, 6-14-60, Cl. 260-567.6.
- Pintau, Marcel E., to Coty, Inc. Dispensing containers. 2,919,703, 1-5-60, Cl. 132-83.
- Pintell, Robert H., to Intron International, Inc. Stabilized oscillator. 2,941,158, 6-14-60, Cl. 331-109.
- Pinter, George, and A. F. Chereih, to General Electric Co. Flow modulating device. 2,943,643, 7-5-60, Cl. 138-46.
- Pinter, George R., to General Electric Co. Heat pump including drain pan heating means. 2,955,439, 10-11-60, Cl. 62-278.
- Pinter, George S., and I. O. O'Rourke, Jr. Means for making and heat curing concrete structures. 2,942,321, 6-28-60, Cl. 25-121.
- Pinto, Julian B.: *See*—  
Schwartz, Herbert, and Pinto. 2,947,529.
- Pion, Noel W., to North American Aviation, Inc. Screw retained spin rocket. 2,938,430, 5-31-60, Cl. 89-1.7.
- Pion, Noel W., to North American Aviation, Inc. Spin rocket and rotating screw type launching apparatus. 2,945,421, 7-19-60, Cl. 89-1.7.
- Pioneer Folding Box Inc.: *See*—  
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Dgetluck, John. 2,963,150.
- Pioneer Industries Inc.: *See*—  
Clement, George H. 2,940,647.
- Pioneer Well Tools, Inc.: *See*—  
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- Piot, Paul: *See*—  
Leveque, Marcel, and Piot. 2,964,786.
- Pipeline Coating & Engineering Co., Inc.: *See*—  
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- Pipe Line Service Corp.: *See*—  
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Robertson, Evans. 2,945,278.
- Pipe Machinery Co., The: *See*—  
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Sawdey, Neil T. 2,925,166.
- Pipe Plugs, Inc.: *See*—  
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- Piper, George W., Jr.: *See*—  
Eger, Edward F., and Piper. 2,948,086.
- Piper, Richard C., Jr.: *See*—  
Ortiz, Ralph G., Ogden, and Piper. 2,963,249.
- Piper, William W., to General Electric Co. Single crystal electroluminescence. 2,932,879, 4-19-60, Cl. 29-25.14.
- Piper, William W., to General Electric Co. Electroluminescent cell and method of making the same. 2,944,177, 7-5-60, Cl. 313-108.
- Pipes, George R., and F. H. Kramen, to Eaton Mfg. Co. Closure device. 2,944,698, 7-12-60, Cl. 220-40.
- Pipkin, Royace H. Wheeled shovel. 2,930,152, 2-29-60, Cl. 37-130.
- Pipkin, Royace H. Traveler's belt. 2,957,179, 10-25-60, Cl. 2-301.
- Pippenger, John J., to Double A Products Co. Pilot controlled valve. 2,961,001, 11-22-60, Cl. 137-623.
- Piquerez, Ervin. Watch provided with a member controlling its movement and including a section extending fluid tightly into the watch case. 2,951,332, 9-6-60, Cl. 58-90.
- Piquerez, Ervin. Fluidtight watch case. 2,959,911, 11-15-60, Cl. 58-90.
- Piquet, Henry W. High-torque hand tool. 2,920,489, 1-12-60, Cl. 74-66.
- Piragino, Renato, to RIV Officine di Villar Perosa Societa per Azioni. Resilient bearing. 2,959,437, 11-8-60, Cl. 287-85.
- Pirelli Societa per Azioni: *See*—  
Barassi, Carlo. 2,953,181.  
Ciampolini, Valerio. 2,935,765.  
De Filippo, Ello. 2,945,532.  
Giletta, Dario S., Pacciarini, and Zuliani. 2,936,023.  
Lugli, Giuseppe. 2,945,525.  
Lugli, Giuseppe, and Mazza. 2,930,425.  
Paccierini, Antonio, and Giletta. 2,956,614.  
Priaroggia, Paolo G. 2,924,641.  
Priaroggia, Paolo G. 2,925,459.  
Renzini, Goffredo. 2,949,725.
- Pirle, Norman W., D. Fairclough, and A. Wiseman-Shardlow, to National Research Development Corp. Apparatus for the expulsion of liquid from fibrous materials. 2,963,960, 12-13-60, Cl. 100-118.
- Pirkey, Frank Z. Apparatus for developing and accumulating hydroelectric energy. 2,962,599, 11-29-60, Cl. 290-4.
- Pirman, Anton E.: *See*—  
Forster, Peter E., and Pirman. 2,965,208.
- Pirok, Edward W.: *See*—  
Christiansen, Milton J., and Pirok. 2,964,163.
- Pirok, John N.: *See*—  
Miller, Clarence D., and Pirok. 2,961,118.
- Pirone, Amato M. M. Glove construction. 2,954,832, 10-4-60, Cl. 172-370.
- Piros, John J., to Sinclair Refining Co. Valve apparatus especially for pressurized fluids. 2,930,578, 3-29-60, Cl. 251-332.
- Pirson, Sylvain J.: *See*—  
Glass, Eugene D., and Pirson. 2,923,356.
- Pirtle, John C., to General Electric Co. Frame structure for turbo-machine. 2,961,150, 11-22-60, Cl. 230-116.
- Pisanchyn, John: *See*—  
Chapman, Wilbur F., and Pisanchyn. 2,964,487.
- Pisani, John J., to Philco Corp. Skimming apparatus. 2,937,757, 5-24-60, Cl. 210-526.
- Pisarchik, Harry G., to International Business Machines Corp. Integrating apparatus. 2,932,449, 4-12-60, Cl. 235-154.
- Piselli, Joseph R.: *See*—  
Myers, Harry S., and Piselli. 2,935,841.
- Pistor, Christel, to American Viscose Corp. Self-actuating tailing guide. 2,931,587, 4-5-60, Cl. 242-18.
- Pitasi, Vincent. Tire rim. 2,931,683, 4-5-60, Cl. 301-35.
- Pitel, Paul J.: *See*—  
Sluhecki, Raymond H. 2,928,384.
- Pitkin, Courtney G.: *See*—  
Mittra, Arun K., and Pitkin. 2,959,606.
- Pitler, Richard K.: *See*—  
Dyrkacz, Wasil W., Reynolds, MacFarlane, and Pitler. 2,949,355.  
MacFarlane, Richard R., and Pitler. 2,948,604.
- Pitler, Richard K., and W. E. Blatz, to Allegheny Ludlum Steel Corp. Nickel-free austenitic elevated temperature alloy. 2,948,603, 8-9-60, Cl. 75-125.
- Pitman, Herbert J., to Texaco Inc. Bacteria inhibited soluble oil. 2,954,343, 9-27-60, Cl. 252-33.3.
- Pitman Mfg. Co.: *See*—  
Pitman, Raymond F. 2,961,102.
- Pitman, Raymond F., to Pitman Mfg. Co. Hydraulic swinging boom-type hoist. 2,961,102, 11-22-60, Cl. 212-35.
- Pitmon, Guy R.: *See*—  
Hayden, John E., Jr., and Pitmon. 2,952,157.
- Pitner, Alfred O. 1/2 to Societe dite: Societe Anonyme des Roulements a Aiguilles. Bearings having cylindrical bearing elements. 2,928,702, 3-15-60, Cl. 308-236.
- Pitner, John L.: *See*—  
Pitner, Lloyd E. 2,942,283.
- Pitner, Lloyd E., deceased (J. L. Pitner, administrator). Method of producing and binding display books. 2,942,283, 6-28-60, Cl. 11-1.
- Pitney-Bowes, Inc.: *See*—  
Bach, John W., and Ford. 2,934,009.  
Bach, John W., Peet, and Miller. 2,944,511.  
Bernart, William F., and Hanson. 2,951,697.  
Calhoun, Samuel E. 2,939,261.  
Calhoun, Samuel E. 2,966,355.  
Capanna, Adolfo A. 2,952,839.  
Hanson, Walter J., and Schmeck. 2,923,544.  
Hazelton, Henry S., Jr. 2,947,406.  
Herrick, William W., and Tangard. 2,936,170.  
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- Pitometer Log Corp.: *See*—  
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Schachter, Jacob. 2,966,635.
- Pitrolo, Augustine A.: *See*—  
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- Pitt, Catherine J.: *See*—  
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- Pitt, Harold, to Stauffer Chemical Co. Manufacture of aromatic thiophenols. 2,947,788, 8-2-60, Cl. 260-608.
- Pitt, Paul E.: *See*—  
Burkhart, George N., Jr., Lee, and Pitt. 2,957,133.
- Pitta, Manuel. Safety enclosure for aircraft passengers. 2,960,292, 11-15-60, Cl. 244-118.



- Pittard, Mack W., Jr.: *See*—  
Fry, Walter L., Sr., Pittard, and Easternman. 2,931,286.
- Pittenger, Eugene L. Decoy assembly. 2,952,090, 9-13-60, Cl. 43-3.
- Pittenger, Francis H., to The Shelby Spring Hinge Co. Door closer. 2,930,071, 3-29-60, Cl. 16-55.
- Pittinger, Abraham L., and R. W. Thomas, said Thomas assor. to Cooper Development Corp. Source for ray emission. 2,933,317, 4-19-60, Cl. 273-105.3.
- Pittman, Forrest C.: *See*—  
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- Pittman, George F., Jr., R. L. Bright, and G. H. Royer, to Westinghouse Electric Corp. Magnetic amplifiers. 2,953,741, 9-20-60, Cl. 323-89.
- Pittman, Ralph R. Excess-voltage protective device. Re. 24,915, 12-20-60, Cl. 313-231.
- Pittman, Robert R.: *See*—  
Loper, George B., and Pittman. 2,950,459.
- Pitts, Charles A.: *See*—  
Harmon, James A., Sutherland, and Pitts. 2,959,223.
- Pitts, Howard E. Auxiliary brake for vehicle. 2,933,158, 4-19-60, Cl. 188-92.
- Pitts, Kennard, and E. A. Herder, to Rockwell-Standard Corp. Vehicle seat construction. 2,958,369, 11-1-60, Cl. 155-5.
- Pitts, Leonard S., to E. I. du Pont de Nemours and Co. Process of dyeing acrylonitrile articles with cationic dyes. 2,955,009, 10-4-60, Cl. 88-55.
- Pitts, Paul M.: *See*—  
Aristoff, Eugene, Leum, and Pitts. 2,929,775.
- Pitts, Paul M., Jr., to The Atlantic Refining Co. Production of polycyclic aromatic hydrocarbons from high molecular weight paraffins. 2,962,536, 11-29-60, Cl. 260-673.5.
- Pitts, Paul M., Jr., and W. K. Griesinger, to The Atlantic Refining Co. Catalytic dealkylation of alkyl aromatics. 2,931,842, 4-5-60, Cl. 260-672.
- Pitts, Paul M., Jr., and F. G. Ciapetta, to The Atlantic Refining Co. Production of methyl indene. 2,942,041, 6-21-60, Cl. 260-668.
- Pitts, Robert D.: *See*—  
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- Corey, Flournoy, Swords, Erger, and Pitts. 2,943,863.
- Corey, Frederick C., and Pitts. 2,945,257.
- Pitts, William A., to Jersey Production Research Co. Valve for diaphragm pump. 2,927,431, 3-8-60, Cl. 60-54.5.
- Pitts, William A. Hoisting sling for cylindrical articles. 2,938,747, 5-31-60, Cl. 294-67.
- Pittsburgh Chemical Co.: *See*—  
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- Pittsburgh Coke & Chemical Co.: *See*—  
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- Mackay, Johnstone S. 2,949,484.
- Markley, Francis X. 2,965,467.
- Repik, Albert J., and Sloan. 2,933,454.
- Vancheri, Frank J., and Mackay. 2,957,751.
- Wolf, Calvin N., and Liggett. 2,920,997.
- Wright, Oscar L. 2,948,759.
- Wright, Oscar L. 2,952,581.
- Pittsburgh Plate Glass Co.: *See*—  
Atkeson, Florian V. 2,924,695.
- Atkeson, Florian V. 2,952,097.
- Atkeson, Florian V., and Baltzer. 2,960,800.
- Barcikowski, Walter W., and Sabotka. 2,933,856.
- Bateson, Sydney, and Chrystman. 2,929,738.
- Black, Lloyd V. 2,921,411.
- Bonner, Charles A. 2,954,744.
- Bonner, Charles A., Jr., and Blaser. 2,960,041.
- Brewer, Hazel D. 2,965,696.
- Brundick, Wayne A., and Helbing. 2,946,698.
- Bush, David C., and Parker. 2,950,262.
- Christenson, Roger M. 2,926,153.
- Christenson, Roger M. 2,939,854.
- Christenson, Roger M. 2,940,944.
- Christenson, Roger M. 2,946,774.
- Christenson, Roger M., and Bittle. 2,940,945.
- Christenson, Roger M., and Jacobson. 2,956,964.
- Christenson, Roger M., and Vogel. 2,940,943.
- Cochran, Carl J., Lawson, and Wright. 2,920,989.
- Cox, Robert P., Yaeger, and Buetow. 2,941,912.
- Davidson, Charles R., Jr., Malobicky, and McKelvey. 2,940,222.
- Devore, Guy C. 2,941,336.
- Donovan, Arthur F., Jacquot, and Richardson. 2,961,801.
- Douglas, Henry H., Follwell, and Tiefenthaler. 2,944,626.
- Duncan, James E. 2,956,892.
- Duncan, James E., and Thomas. 2,938,808.
- Dunlap, Errett, III. 2,931,428.
- Eilerman, George E. 2,951,782.
- Fekete, Frank. 2,934,525.
- Fitzgerald, Dean B. 2,943,962.
- Freiberg, James M. 2,920,422.
- Gray, William R. 2,924,563.
- Hanneken, Henry P. 2,966,013.
- Heroy, James H., Jr., Hartwell, and Sanders. 2,962,746.
- Hobbie, Albert C., and Holdcraft. 2,946,357.
- Jenkins, Edward L. 2,941,334.
- Junge, Albert E. 2,936,554.
- Junge, Albert E. 2,936,555.
- Keim, Laurence A. 2,948,645.
- Ludy, Paul, Bennett, and Moorman. 2,922,195.
- Marini, Herman R., Lytle, Saunders, and Wagner. 2,943,963.
- Pittsburgh Plate Glass Co.: *See*—Continued  
McKenna, James F. 2,941,968.
- Mertes, Joseph V. 2,932,051.
- Miles, Ewell C. 2,924,485.
- Morris, John W. 2,965,527.
- Obeck, Ferdinand J. 2,944,665.
- Obeck, Ferdinand J. 2,958,087.
- Olson, Melvin M., and Christenson. 2,945,003.
- Olson, Melvin M., and Christenson. 2,957,901.
- Parker, Earl E. 2,957,831.
- Reis, Joseph J., Jr., and Terry. 2,923,598.
- Rich, David C., Archer, and Harrison. 2,936,551.
- Richardson, Ronald E. 2,937,407.
- Richardson, Ronald E. 2,948,646.
- Rieser, Raymond G. 2,923,591.
- Rylander, Arthur F., Vogel, and Roach. 2,964,491.
- Santschi, Julius V. 2,941,338.
- Serventi, Serafine, and Schweppe. 2,934,225.
- Sherts, William M., and Schaffer. 2,964,162.
- Sherts, William M., Tatsak, and Zurney. 2,966,007.
- Sherts, William M., and Zurney. 2,966,006.
- Smith, John J., and Middleswarth. 2,937,952.
- Startzell, Paul. 2,924,045.
- Startzell, Paul. 2,933,759.
- Takenaka, Fred T., and Englehart. 2,945,268.
- Terry, Samuel M. 2,932,621.
- Tiefenthaler, Robert R. 2,920,642.
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- Zurheide, George B. 2,953,233.
- Pittsburgh Reflector Co.: *See*—  
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- Pittsburgh Steel Co.: *See*—  
Finley, Samuel P., and Johnson. 2,926,518.
- Roehl, Edward J., and Michel. 2,942,999.
- Pittsley, William D.: *See*—  
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- Pittsley, William D., and H. H. Williams, to General Motors Corp. Slotted bumper exhaust device. 2,965,404, 12-20-60, Cl. 293-69.
- Pitvo, Albert F. Web feeding mechanism. 2,946,586, 7-26-60, Cl. 271-2.4.
- Pitvo, Albert F. Web feeding mechanism. 2,946,588, 7-26-60, Cl. 271-2.4.
- Pitvo, Edward L. Supporting rack for automobile windshields. 2,946,453, 7-26-60, Cl. 211-41.
- Pitzer, Emory W., to Phillips Petroleum Co. Production of terminal bond olefins from nonterminal bond olefins. 2,921,103, 1-12-60, Cl. 260-683.2.
- Pitzer, Emory W., to Phillips Petroleum Co. Rotary molding machine and method of molding. 2,921,339, 1-19-60, Cl. 18-20.
- Pitzer, Emory W., to Phillips Petroleum Co. Polymerization process. 2,927,915, 3-8-60, Cl. 260-93.7.
- Pitzer, Emory W., and L. Bagnetto, Jr., to Phillips Petroleum Co. Dehydrogenation catalyst. 2,950,258, 8-23-60, Cl. 252-443.
- Pitzer, Robert L.: *See*—  
Semple, Robert E., and Pitzer. 2,952,827.
- Pitzl, Gilbert, to E. I. du Pont de Nemours and Co. Stabilized yarn. 2,956,330, 10-18-60, Cl. 28-78.
- Pivana & C. Soc. per Az.: *See*—  
Walls, Frederick A. 2,928,284.
- Pizzarello, Roy A., P. Resnick, and A. F. Schneid, to Interchemical Corp. Condensation of pyridine dicarboxylic acids with amino anthraquinones. 2,925,421, 2-16-60, Cl. 260-272.
- Pizzi, Albert L.: *See*—  
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- Pizzurro, Joseph C.: *See*—  
Abplanalp, Robert H., and Pizzurro. 2,950,031.
- Place, Donald E., to American Machine & Foundry Co. Bowling ball retarding device. 2,949,302, 8-18-60, Cl. 273-47.
- Place, Geoffrey: *See*—  
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- Place, Milton E. Threshold structure. 2,926,401, 3-1-60, Cl. 20-64.
- Place, Thomas M., Jr.: *See*—  
Place, Thomas M., Sr., and T. M. Place, Jr. 2,950,995.
- Place, Thomas M., Sr., and T. M. Place, Jr. 2,950,996.
- Place, Thomas M., Sr., and T. M. Place, Jr., to Beckman Instruments, Inc. Electrical resistance element. 2,950,995, 8-30-60, Cl. 117-227.
- Place, Thomas M., Sr., and T. M. Place, Jr., to Beckman Instruments, Inc. Electrical resistance material and method of making same. 2,950,996, 8-30-60, Cl. 117-227.
- Placek, Adolph, to Acme Process Equipment Co. Process and apparatus for the continuous extraction of materials. 2,932,559, 4-12-60, Cl. 23-310.
- Plain, John F. Adjustable camera stand. 2,919,876, 1-5-60, Cl. 248-123.
- Plainfield Patents Corp.: *See*—  
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- Meagher, James L., Jr., and Baril. 2,947,057.
- Plains Athletic Mfg. Co.: *See*—  
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- Plambeck, Louis, Jr., to E. I. du Pont de Nemours and Co. Photopolymerizable elements and processes. 2,964,401, 12-13-60, Cl. 96-35.
- Plane Parts, Inc.: *See*—  
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- Planett, Earl C. Device for descaling and cleaning wire rod. 2,921,365, 1-19-60, Cl. 29-81.
- Planin, Mike. Fish hook disgorgers. 2,931,125, 4-5-60, Cl. 43-53.5.
- Planin, Mike. Toy. 2,952,462, 9-13-60, Cl. 273-157.
- Plank, Charles J., to Socony Mobil Oil Co., Inc. Catalytic conversion of hydrocarbons. 2,935,465, 5-3-60, Cl. 208-141.
- Plant, David N. Coin container and dispenser. 2,930,519, 3-29-60, Cl. 229-92.9.
- Plant, Edwin K., to Columbia-Southern Chemical Corp. Method of purifying gases. 2,940,541, 6-14-60, Cl. 183-119.
- Plant, Leland G., deceased; P. L. M. Plant, executrix, to M. H. Lane, trustee. Side delivery rake with hitch means. 2,925,700, 2-23-60, Cl. 56-27.
- Plant, Leland G., deceased; P. L. M. Plant, executrix, to M. H. Lane, trustee. Adjustably mounted side delivery rake. 2,925,702, 2-23-60, Cl. 56-377.
- Plant, Pattie L. M.: *See*—  
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Plant, Leland G. 2,925,702.
- Plante, Roland L.: *See*—  
Thibault, Harrison N., and Plante. 2,942,629.
- Plantholt, Robert G., to Bissell Inc. Carpet sweeper. 2,962,740, 12-6-60, Cl. 15-41.
- Plantz, Charles A.: *See*—  
Stanford, Evelyn C., and Plantz. 2,963,351.
- Plantz, Charles A., and E. C. Stanford, to Mine Safety Appliances Co. Determination of gaseous chlorine and bromine. 2,942,952, 6-28-60, Cl. 23-232.
- Plapper, Jürgen: *See*—  
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- Plapper, Jürgen, R. Heyden, and G. Arnold, to Bohme Fettchemie G.m.b.H. Oil base fat-liquor composition with polybasic acid ester and method of use. 2,950,950, 8-30-60, Cl. 8-94.23.
- Plapper, Jürgen, and R. Heyden, to Bohme Fettchemie G.m.b.H. Hide tanning process with salt of polymeric acid resinous condensate of organic-oxo and organic nitrogen compounds. 2,956,854, 10-18-60, Cl. 8-94.33.
- Plasmadyne Corp.: *See*—  
Blackman, Vernon H. 2,939,049.  
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Blackman, Vernon H. 2,952,970.  
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- Plasma Flame Corp.: *See*—  
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- Plass, Stanley, to Packard-Bell Electronics Corp. Constant bearing evaluator. 2,957,082, 10-18-60, Cl. 250-83.3.
- Plasser, Franz., and J. Theurer. Ballast moving attachment for track tamping machines. 2,919,656, 1-5-60, Cl. 104-10.
- Plasmeyer, Louis D., to Herman Pneumatic Machine Co. Molding apparatus. 2,937,423, 5-24-60, Cl. 22-65.
- Plaster, James F. Gondola end straightener. 2,940,500, 6-14-60, Cl. 153-48.
- Plastering Development Center, Inc.: *See*—  
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- Plas-Tex Corp., The: *See*—  
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- Plastic Binding Corp.: *See*—  
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- Plast-O-Fab Circuits, Inc.: *See*—  
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- Plate, John R., and B. N. Alexander, to Allis-Chalmers Mfg. Co. Clutch release mechanism. 2,926,734, 3-1-60, Cl. 180-14.5.
- Platt, Clark I., to Whirlpool Corp. Wringer mechanism. 2,962,887, 12-6-60, Cl. 68-253.
- Platt, Clark I., J. F. Clearman, and D. H. Freund, to Whirlpool Corp. Washing machine pump and drive mechanism. 2,942,446, 6-28-60, Cl. 68-23.
- Platt, Donald D., to Farmers Cooperative Exchange. Bulk feed bin. 2,943,752, 7-5-60, Cl. 214-17.
- Platt, Edward W.: *See*—  
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- Platt, George J., to Paragon Electric Co. Special machine and process for edge winding shading material and assembling electric motor pole pieces therewith. 2,920,594, 1-12-60, Cl. 113-1.
- Platt, John G., to Flex-O-Lators, Inc. Spring assembly for spring cushions. 2,928,458, 3-15-60, Cl. 155-179.
- Platt, John G., to Flex-O-Lators, Inc. Spring unit for cushion spring assemblies. 2,935,124, 5-3-60, Cl. 155-179.
- Platt, John W.: *See*—  
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- Platt & Labonia Co.: *See*—  
La Bonia, Vincent, and Platt. 2,940,600.
- Platt, Richard W., 1/2 to L. Brennan. Diaper rinsing device. 2,923,949, 2-9-60, Cl. 4-1.
- Platt, Robert W., to National Dairy Products Corp. Apparatus for sterilizing cans. 2,923,985, 2-9-60, Cl. 21-80.
- Platt, Stephen A. Continuously operated device for projecting still picture film with synchronized sound. 2,930,285, 3-29-60, Cl. 88-28.
- Platt, William C., A. L. Poston, and R. L. Mills, to Ventura Processors. Purifying and dewaxing citrus oils. 2,938,028, 5-24-60, Cl. 260-236.6.
- Platz, Elwood T.: *See*—  
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- Platz, Elwood T., to I-T-E Circuit Breaker Co. Electric receptacle. 2,924,687, 2-9-60, Cl. 200-115.5.
- Platz, Elwood T., to I-T-E Circuit Breaker Co. Electric receptacle. 2,924,803, 2-9-60, Cl. 339-21.
- Platz, Elwood T., to I-T-E Circuit Breaker Co. Automatic resetting mechanism. 2,936,351, 5-10-60, Cl. 200-70.
- Platz, Elwood T., J. A. Messing, and W. H. Frank, to I-T-E Circuit Breaker Co. Electric receptacle. 2,924,802, 2-9-60, 339-21.
- Platz, Elwood T., and W. H. Frank, to I-T-E Circuit Breaker Co. Panelboard. 2,943,244, 6-28-60, Cl. 317-119.
- Platz, Elwood T., J. B. Cataldo, and J. A. Herrmann, to I-T-E Circuit Breaker Co. Electric receptacle. 2,946,037, 7-19-60, Cl. 339-154.
- Platz, Rolf: *See*—  
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Kroeper, Hugo, and Platz. 2,945,906.  
Kroeper, Hugo, Wirth, Platz, and Floerchinger. 2,951,883.
- Platzer, Franz. Rolling mill installation. 2,960,894, 11-22-60, Cl. 80-38.
- Platzer, George E., Jr., and L. P. Gau, to Chrysler Corp. Vehicle lighting device. 2,938,143, 5-24-60, Cl. 315-83.1.
- Platzer, Roger: *See*—  
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- Plauth, Ernst: *See*—  
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- Plax Corp.: *See*—  
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- Plehal, Dan R.: *See*—  
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- Plehal, Dan R., to The Unipress Co., Inc. Folding table improvements. 2,954,908, 10-4-60, Cl. 223-37.
- Pleines, William H.: *See*—  
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- Pleiss, Gordon S., to Handy Things Mfg. Co. Reel for clothes line or the like. 2,956,753, 10-18-60, Cl. 242-100.1.
- Pleitgen, Max G., and E. M. Klaus. Form for window and door lintels and the like. 2,949,656, 8-23-60, Cl. 25-118.
- Plenty and Son Ltd.: *See*—  
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- Plesse, Hans: *See*—  
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Da Costa, Harry. 2,946,595.  
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- Pluckebaum, Jerome J., to The Montgomery Printing Co. Loose-leaf retaining device. 2,935,986, 5-10-60, Cl. 129-23.
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- Plumb, Howard L. Braking mechanism for sleds. 2,966,364, 12-27-60, Cl. 280-22.
- Plumbo, Robert A., to Friedrich & Dimmock, Inc. Apparatus for forming glass fiber mats. 2,928,121, 3-15-60, Cl. 18-8.
- Plume, William F., to Boeing Airplane Co. Automatic hydraulic control for clutch. 2,945,574, 7-19-60, Cl. 192-85.
- Plummer, Donald, to Northrop Corp. Artificial feel for airplanes. 2,940,699, 6-14-60, Cl. 244-83.
- Plummer, Harland C., to Woodward Governor Co. Power actuated pressure measuring and indicating device. 2,943,607, 7-5-60, Cl. 121-41.
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- Plummer, Walter A. Self-supporting flexible ducting. 2,937,664, 5-24-60, Cl. 138-56.
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- Pocher, Hugo, to Askania-Werke A.G. Signal modulation system for electro-optical measurements of distances. 2,964,990, 12-20-60, Cl. 88-1.
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- Pockel, Irving, to Cambridge Industries Co. Polyvinyl alcohol resin plasticized with ethyl acid phthalate. 2,963,461, 12-6-60, Cl. 260-31.8.
- Pockman, Lloyd A., and D. F. King. Process for raising poultry. 2,963,004, 12-6-60, Cl. 119-51.
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- Pocock, Robert C.: See—Stedman, Frances E., and Pocock. 2,938,790.
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- Podlesak, Harry G., G. H. Kraft, and R. E. Miller, to National Dairy Products Corp. Method of continuously producing packaged units. 2,919,990, 1-5-60, Cl. 99-178.
- Podlesak, Harry G., G. H. Kraft, and R. E. Miller, to National Dairy Products Corp. Packaging apparatus. 2,951,324, 9-6-60, Cl. 53-112.



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- Podolan, Edward G.: *See*—  
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- Poe, Benjamin F., and A. N. Barnes. Equipment for cleaning spray guns and other jet equipped machines. 2,948,285, 8-9-60, Cl. 134—102.
- Poe, Milton D. Fishing lure. 2,944,363, 7-12-60, Cl. 43—42,22.
- Poehler, Horst A. Musical instrument tuning apparatus. 2,958,250, 11-1-60, Cl. 84—454.
- Poehlmann, George, to Western Electric Co., Inc. Crimping device. 2,964,086, 12-13-60, Cl. 153—21.
- Poepper, Clarence J., to Central States Paper & Bag Co. Sanitary-opening bags. 2,954,915, 10-4-60, Cl. 229—66.
- Poeschl, Annelore: *See*—  
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- Poeschl, Rudolf, to Hope Rubber Co., Inc. Endless laminated belt and method of making the same. 2,932,340, 4-12-60, Cl. 154—4.
- Poettmann, Fred H., to Phillips Petroleum Co. Gas lift control device. 2,919,655, 1-5-60, Cl. 103—232.
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- Poffenberger, Noland I.: *See*—  
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- Pohl, Ernest F. Level ride tractor seat frame. 2,939,512, 6-7-60, Cl. 155—5.
- Pohl, Franz: *See*—  
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- Pohl, Wadsworth E., to Technicolor Corp. Method of making colored pictures. 2,927,857, 3-8-60, Cl. 96—2.
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- Pohndorf, Henry L., to National Welding Equipment Co. High pressure cylinder valve. 2,924,421, 2-9-60, Cl. 251—210.
- Pohorilla, Michael J.: *See*—  
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- Pokorny, Frank J., and C. J. Yarrick, to I-T-E Circuit Breaker Co. Four position drawout circuit breaker. 2,921,998, 1-19-60, Cl. 200—50.
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- Polk, Walter B., to Phillips Petroleum Co. Process and apparatus for pressure and temperature control system. 2,943,077, 7-12-60, Cl. 260—683.3.
- Poll, Benjamin, to Holland Transplanter Co. Transplanter carrying arm. 2,960,944, 11-22-60, Cl. 111—2.
- Pollack, Hyman, to Minneapolis-Honeywell Regulator Co. Transducer. 2,956,184, 10-11-60, Cl. 310—8.2.
- Pollack, Louis, and H. Goldman, to International Telephone and Telegraph Corp. Velocity modulation electron discharge device. 2,934,672, 4-26-60, Cl. 315—5.46.
- Pollack, Meyer: *See*—
- Ashby, Robert M., Lekas, Veenhuyzen, and Pollack. 2,923,084.
- Pollack, Roy H.: *See*—
- Cox, Richard W., and Pollack. 2,964,979.
- Pollack, Walter W.: *See*—
- Hughes, Donald L., Pollack, Schwartzman, and Goldberg. 2,952,096.
- Pollak, Alfred: *See*—
- Bruch, Walter, and Pollak. 2,939,041.
- Pollak, Alfred, to Telefunken G.m.b.H. Circuit arrangement for producing a voltage responsive to the phase of two voltages to be compared. 2,933,624, 4-19-60, Cl. 307—88.5.
- Pollak, Alfred, to Telefunken G.m.b.H. Oscillator synchronizing circuit with variable pull-in range. 2,962,666, 11-29-60, Cl. 331—11.
- Pollak, Henry C.: *See*—
- Konins, Julius A., Robinson, and Pollak. 2,938,962.
- Pollak, Manfred J. Magnetic actuators. 2,935,663, 5-3-60, Cl. 317—190.
- Pollak, Peter I., to Merck & Co., Inc. Intermediates for pyridoxine and process. 2,948,733, 8-9-60, Cl. 260—295.
- Pollak, Philip, Jr., to Emerson Radio & Phonograph Corp. Automatic mail cancelling apparatus. 2,928,337, 3-15-60, Cl. 101—91.
- Pollak Steel Co., The: *See*—
- Walsh, Edward F. 2,950,787.
- Pollard, Harold J., and W. A. Baker, to Bristol Aircraft Ltd. Aircraft fuselage. 2,954,189, 9-27-60, Cl. 244—119.
- Pollet, Andre: *See*—
- Gumbretiere, Louis F., Pollet, and Sorez. 2,938,241.
- Pollet, Jean B., to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Deburring and polishing device. 2,933,309, 5-31-60, Cl. 51—191.
- Polley, Eugene J.: *See*—
- Greene, Romeo F., and Polley. 2,932,702.
- Polley, Eugene J., to Zenith Radio Corp. Phonograph drive. 2,920,490, 1-12-60, Cl. 74—208.
- Polley, Kenneth W. Counters. 2,942,159, 6-21-60, Cl. 317—140.
- Polley, Robert W., to Nashua Corp. Thermosensitive tape dispensing. 2,951,140, 8-30-60, Cl. 219—19.
- Polleys, Owen F.: *See*—
- Emmerson, John O., and Polleys. 2,960,168.
- Polleys, Richard W., to John W. Bolton & Sons, Inc. Batch pulper. 2,954,174, 9-27-60, Cl. 241—74.
- Pollick, Berthold, and R. G. Hennessey, to Fairchild Camera and Instrument Corp. Photographic shutter. 2,944,476, 7-12-60, Cl. 95—55.
- Pollick, Frank: *See*—
- Brillis, Michael N., and Pollick. 2,962,201.
- Brillis, Michael N., and Pollick. 2,965,274.
- Pollini, Giuliano P., to E. Anselmi. Screwless clamp member. 2,953,224, 9-20-60, Cl. 189—35.
- Pollitz, Harold C., to Iowa Mfg. Co. of Cedar Rapids, Iowa. Surfacing machine with heated deflector plate. 2,951,426, 9-6-60, Cl. 94—46.
- Pollitzer, Ernest L., to Universal Oil Products Co. Oxy-alkylated omega-methylol-substituted alkylacetophenones. 2,923,739, 2-2-60, Cl. 260—592.
- Pollmann, Max, to Kurt Korber & Co., K.-G. Means for storing and dispensing rod-shaped articles. 2,930,507, 3-29-60, Cl. 221—183.
- Pollmann, Max, to Hauni-Werke Kürber & Co. K.G. Mechanism for the filling of cigarette boxes. 2,933,872, 4-26-60, Cl. 53—258.
- Pollmann, Max, to Kurt Korber & Co., K.G. Means for discharging filter rods from a storage container. 2,942,757, 6-28-60, Cl. 221—68.
- Pollmann, Max, and G. G. Lakos, to Köber, Kurt, & Co., K.G. Cigarette magazine. 2,924,356, 2-9-60, Cl. 221—175.
- Pollock, Gordon J. Support for garments and the like. 2,925,916, 2-23-60, Cl. 211—86.
- Pollock, Gordon J., to The E. F. Hauserman Co. Movable panel assembly. 2,943,718, 7-5-60, Cl. 189—34.
- Pollock, Herbert C.: *See*—
- Gurewitsch, Anatole M., and Pollock. 2,925,214.
- Pollock, Lyle W.: *See*—
- Wood, James Q., and Pollock. 2,952,921.
- Pollock, Lyle W., A. J. Andrews, and E. N. Pennington, to Phillips Petroleum Co. Recovery of a vaporizable hydrocarbon from liquid mixtures. 2,920,113, 1-5-60, Cl. 260—655.
- Pollock, Lyle W., and J. I. Stevens, to Phillips Petroleum Co. Removal of salt from solutions. 2,943,026, 6-28-60, Cl. 202—64.
- Pollock, Lyle W., and J. E. Cottle, to Phillips Petroleum Co. Method of preparing high solids latices of film-forming polymers and high density ethylene polymers. 2,944,040, 7-5-60, Cl. 260—29.7.
- Pollock, Mark W.: *See*—
- Hecker, Arthur C., and Pollock. 2,943,070.
- Pollock, Samuel C.: *See*—
- Lautenbach, Charles S., and Pollock. 2,930,651.
- Pollopos Patents Ltd.: *See*—
- Montrose-Oster, Louis E. W. 2,958,305.
- Pollich, Paul, & Comp.: *See*—
- Eck, Bruno. 2,942,773.
- Polly, Orville L., to Union Oil Co. of California. Process for preparing ketene. 2,963,412, 12-6-60, Cl. 204—154.
- Polmanteer, Keith E., to Dow Corning Corp. Siloxane elastomers. 2,927,907, 3-8-60, Cl. 260—37.
- Polomski, John B.: *See*—
- Dabich, Sam, and Polomski. 2,939,557.
- Holdeman, John W., and Polomski. 2,950,629.
- Polowczyk, Carl: *See*—
- Pattilloch, Donald K., and Polowczyk. 2,948,692.
- Pattilloch, Donald K., and Polowczyk. 2,957,796.
- Polster, Norman E.: *See*—
- Armi, Edgar L., Johnson, Machler, and Polster. 2,939,318.
- Poltorak, Emil J., and W. M. DeWitt, Sr., to Johns-Manville Corp. Gaskets. 2,924,471, 2-9-60, Cl. 288—10.
- Poly Industries, Inc.: *See*—
- Guy, Granville M. 2,920,370.
- Kaplan, Leo I. 2,959,377.
- Polychrome Corp.: *See*—
- Gumbinner, Robert. 2,922,715.
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- Poly-Gas Research and Development Co., Inc.: *See*—
- Ryan, Edmund J. 2,937,983.
- Polymer Corp. Ltd.: *See*—
- Alexander, Douglas S., and Firko. 2,945,900.
- Ambridge, Charles, and Alexander. 2,933,543.
- Borunsky, Jules. 2,933,467.
- Borunsky, Jules. 2,962,480.
- Cochrane, Peter W. F., Reilly, Lewis, and Kearns. 2,927,846.
- Davis, William J. 2,961,712.
- Finigan, Charles M. 2,960,549.
- Kupa, Peter C., and Finigan. 2,944,095.
- Pfisterer, Heinz A., and Hay. Re. 24,761.
- Sowak, Ross G. 2,922,781.
- Welch, Donald H., Livingstone, and Hayduk. 2,961,472.
- Polyoptic Corp., The: *See*—
- Glasser, Ernest C., and Apatoff. 2,953,676.
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- Hansen, Gunnar B. 2,964,442.
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- Felsen, Leopold B., and Kahn. 2,963,662.
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- Polytechnic Research & Development Co., Inc.: *See*—
- Berger, Christian D. 2,949,881.
- Hopfer, Samuel. 2,933,703.
- Polzella, Louis C., A. E. Snowdon, and W. P. Carpenter, to The Superior Electric Co. Transformer coil construction. 2,947,959, 8-2-60, Cl. 336—198.
- Polzin, Donald H., to Deere & Co. Variable drive mechanism. 2,935,897, 5-10-60, Cl. 74—665.
- Polzin, Donald H., to Deere & Co. Fertilizer distributor. 2,938,652, 5-31-60, Cl. 222—410.
- Polzin, Gerwalt, M. Kassel, and G. Martens, to Klenzie Apparate G.m.b.H. Method and apparatus for counting electrical impulses. 2,925,958, 2-23-60, Cl. 235—92.
- Polzinetti, Emilio,  $\frac{1}{2}$  to Cementi Elba Società per Azioni (C.E.S.A.). Conveying apparatus for powdered cement. 2,946,627, 7-26-60, Cl. 302—23.
- Pomarico, Andrew, to International Business Machines Corp. Indicating and control device. 2,926,860, 3-1-60, Cl. 242—55.12.



- Pomazal, Jesse W., to Harnischfeger Corp. Control mechanism for an electric arc welder. 2,951,972, 9-6-60, Cl. 315-311.
- Pomernacki, Henry, to Illinois Tool Works. Gear testing machine. 2,959,282, 11-8-60, Cl. 209-88.
- Pomernacki, Henry, to Illinois Tool Works. Electronic gear inspection machine. 2,965,971, 12-27-60, Cl. 33-179.5.
- Pomeroy, Harold H.: *See*—
- Nabrgang, James R., and Pomeroy. 2,923,464.
- Pommer, Horst: *See*—
- Sarnecki, Wilhelm, and Pommer. 2,950,321.
- Pommer, Horst, to Badische Anilin- & Soda-Fabrik Aktien-gesellschaft. Production of compounds of the vitamin-A series. 2,924,613, 2-9-60, Cl. 260-410.5.
- Pommer, Horst, and W. Sarnecki, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of compounds of the beta-xylogeranyliden series. 2,957,933, 10-25-60, Cl. 260-410.9.
- Pommeret, Henri L. E. Magneto-electric system for driving a clockwork. 2,943,215, 6-28-60, Cl. 310-39.
- Pomona Electronics Co., Inc.: *See*—
- Musarra, Carl W., and J. J. 2,952,003.
- Pomona Foundry, Inc.: *See*—
- Russell, Kenneth F. 2,948,382.
- Pomper, Victor, to Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A. Hydraulic control systems for agricultural tractors. 2,935,850, 5-10-60, Cl. 60-52.
- Pomper, Victor, R. Gauthier, and L. Pignolet, to Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A. Hydraulic control systems for agricultural machines. 2,964,908, 12-20-60, Cl. 60-52.
- Pomranz, Irwin M. Game instructional device. 2,942,358, 6-28-60, Cl. 35-29.
- Pond, Anthony V.: *See*—
- Lambeck, Raymond P., and Pond. 2,927,648.
- Pond, Charles P., and F. R. Inskip. Athletic training accessory. 2,939,704, 6-7-60, Cl. 272-60.
- Pond, James W., to The B. F. Goodrich Co. Inflatable vehicle tire with valve in a sidewall. 2,942,642, 6-28-60, Cl. 152-429.
- Pons, Benjamin, to Alba Hosiery Mills, Inc. Apparatus for feeding elastic material to sewing machines. 2,962,988, 12-6-60, Cl. 112-2.
- Pontecorvo, Paul J., C. N. Gillespie, and D. W. Smith, to Raytheon Co. Telephony. 2,944,112, 7-5-60, Cl. 179-15.5.
- Ponting, James D., to United States of America, Agriculture. Preparation of fruit juices. 2,928,744, 3-15-60, Cl. 99-105.
- Pontoni, Giovanni, and A. Vassili, to Cantieve Eiuanti Dell'Adviatico S.p.A. Cargo ship hold construction. 2,923,265, 2-2-60, Cl. 114-73.
- Pool, Creighton E., to General Electric Co. Combination washer-dryer. 2,927,450, 3-8-60, Cl. 68-12.
- Pool, Stuart D.: *See*—
- Huddle, Edwin F., Heth, and Pool. 2,956,809.
- Pool, Stuart D., and E. K. Karlsson, to International Harvester Co. Internal annular groove milling device. 2,923,207, 2-2-60, Cl. 90-15.
- Pool, Stuart D., C. V. Everett, and E. Svereika, to International Harvester Co. Corn picker and sheller. 2,954,657, 10-4-60, Cl. 56-18.
- Pool, Stuart D., and B. M. Hyman, to International Harvester Co. Corn picker divider with rubber wing extension. 2,966,024, 12-27-60, Cl. 56-119.
- Poole, Alton B.: *See*—
- Clancy, John J., Poole, and Wells. 2,961,334.
- Poole, Arthur J., and C. B. Bayer, to The Babcock & Wilcox Co. Gas turbine with waste heat steam generator. 2,926,493, 3-1-60, Cl. 60-39.07.
- Poole, David M., to Fairchild Engine and Airplane Corp. Moisture separator. 2,921,646, 1-19-60, Cl. 183-80.
- Poole, David W., and F. IX, Jr. Loom temple with thread parting means. 2,928,431, 3-15-60, Cl. 139-266.
- Poole, Forrest R.: *See*—
- Wadsworth, William B., and Poole. 2,946,862.
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- Westerheim, Harold T. 2,924,965.
- Westerheim, Harold T. 2,956,431.
- Poole, Harold G. Tractor-trailer towing connections. 2,937,886, 5-24-60, Cl. 280-492.
- Poole, Harold M. Curb bit for bridle. 2,940,238, 6-14-60, Cl. 54-7.
- Poole, Kenneth M., to Bell Telephone Laboratories, Inc. Time division multiplex communication systems. 2,941,074, 6-14-60, Cl. 250-27.
- Poole, Maxwell L., to United Geophysical Corp. Drill bit. 2,940,731, 6-14-60, Cl. 255-61.
- Poole, Robert E., Jr.: *See*—
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- Weingart, Ben, Zillman, and Poole. 2,959,637.
- Poon, George S. Y.: *See*—
- Wayland, Rosser L., Jr., Underwood, and Poon. 2,929,798.
- Poon, George S. Y., to Dan River Mills, Inc. Resin forming materials and fabric treatment. 2,929,799, 3-22-60, Cl. 260-67.6.
- Poor & Co.: *See*—
- Chester, Allan E. 2,963,784.
- Chester, Allan E., and Stella. 2,935,422.
- Chryst, Anton W., Jr., and Busch. 2,962,283.
- Greer, James A. 2,936,126.
- Heer, Ralph W., and Mundy. 2,947,230.
- Kirst, Philip J. 2,928,605.
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- Payne, Ralph W. 2,936,127.
- Swagler, Frank J. 2,935,455.
- Walker, Robert H., Jr. 2,966,309.
- Poorman, Richard M.: *See*—
- Sargent, Herbert B., and Poorman. 2,965,474.
- Poorman, Richard M., H. B. Sargent, and H. Lamprey, to Union Carbide Corp. Refractory coated body. 2,964,420, 12-13-60, Cl. 117-21.
- Poor Sisters of St. Francis Seraph of The Perpetual Adoration, Inc.: *See*—
- Anthrop, Margaret. 2,955,372.
- Poorter, Teunis: *See*—
- Kaashoek, Johannes, Poorter, and Valetton. 2,956,113.
- Poos, George I.: *See*—
- Arth, Glen E., Poos, and Sarett. 2,934,532.
- Arth, Glen E., Poos, and Sarett. 2,949,472.
- Arth, Glen E., Poos, and Sarett. 2,958,698.
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- Poos, George I., and L. H. Sarett, to Merck & Co., Inc. 16,17-oxido-11-dehydrocorticosterone and its esters. 2,933,492, 4-19-60, Cl. 260-239.55.
- Poos, George I., and L. H. Sarett, to Merck & Co., Inc. 16,17-oxido-11-dehydrocorticosterone and its esters. 2,933,493, 4-19-60, Cl. 260-239.55.
- Popa, John, to General Electric Co. Starting and operating circuit for arc discharge device. Re. 24,823, 5-10-60, Cl. 315-205.
- Pope, Amos H.: *See*—
- Osberg, Hans, Horvitz, and Pope. 2,955,032.
- Pope, Arthur W., Jr., to Waukesha Motor Co. Exhaust manifold slip joint constructions. 2,952,344, 9-13-60, Cl. 189-36.
- Pope, Arthur W., Jr., and I. Baxter, to Waukesha Motor Co. Art of knock-rating gasolines under supercharged operating conditions. 2,936,609, 5-17-60, Cl. 73-35.
- Pope, Delbert C. Puzzle toy. 2,923,551, 2-2-60, Cl. 273-157.
- Pope, Edker. Sanitary tray rack. 2,959,298, 11-8-60, Cl. 211-126.
- Pope, Harold W., P. F. Hayner, and R. B. Henderson, to Sanders Associates, Inc. Inertial guidance device. 2,945,380, 7-19-60, Cl. 74-5.5.
- Pope, Joseph A.: *See*—
- McCallion, Henry, and Pope. 2,957,383.
- Pope, Lewis J. Tire pressure indicating device. 2,946,866, 7-26-60, Cl. 200-61.25.
- Pope, Richard L.: *See*—
- Saunders, Earle R., and Pope. 2,935,397.
- Pope, Richard M. Combination flooring. 2,942,701, 6-28-60, Cl. 189-34.
- Pope, Walter M. Ditching attachment for tractors or the like. 2,942,361, 6-28-60, Cl. 37-98.
- Popham, Jack L., to Continental Oil Co. Method of vertically fracturing cased wells. 2,952,319, 9-13-60, Cl. 166-35.
- Popinski, Zenon: *See*—
- Steinhagen, William K., Francis, De Wilde, Popinski, and Hart. 2,932,286.
- Popkess, William R., and C. F. Koch. Warning signal device. 2,924,811, 2-9-60, Cl. 340-136.
- Popkin, Gary S. Tuning attachment for stringed instruments. 2,961,913, 11-29-60, Cl. 84-455.
- Popoff, Ivan C., P. G. Haines, and C. E. Inman, to Pennsalt Chemicals Corp. Alkylation of diphenylamine. 2,943,112, 6-28-60, Cl. 260-576.
- Popovich, Michael: *See*—
- Oxley, Leroy V., Blythe, and Popovich. 2,958,567.
- Popovich, Richard G., to Westinghouse Electric Corp. Television degaussing apparatus. 2,962,622, 11-29-60, Cl. 315-8.
- Popowsky, William J., to Minneapolis-Honeywell Regulator Co. Measuring circuit using modulated transistor oscillator with temperature stabilization. 2,938,173, 5-24-60, Cl. 332-31.
- Popowsky, William J., to Minneapolis-Honeywell Regulator Co. Direct current stabilized amplifier. 2,966,630, 12-27-60, Cl. 330-9.
- Poppelbaum, Wolfgang J., to University of Illinois Foundation. Transistor flip-flop circuit. 2,933,621, 4-19-60, Cl. 307-88.5.
- Poppenburg, Hans. Device for the production of smoked meat and sausages. 2,930,310, 3-29-60, Cl. 99-261.
- Popper, Alfred: *See*—
- Engelfried, Otto, Kaspar, Schenck, and Popper. 2,964,537.
- Popper, Felix B.: *See*—
- Pinchbeck, Peter H., and Popper. 2,941,957.
- Popper, Jakhn B.: *See*—
- Reiner, Markus, and Popper. 2,937,804.
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- Porcelain Insulator Corp., The: *See*—
- Dykstra, Laurence J., and Grills. 2,921,112.



- Porepp, Hans, to Opti-Werk G.m.b.H. Starting piece for spiral wire zip fasteners. 2,945,276, 7-19-60, Cl. 24—205.11.
- Porfillo, Louis, and A. R. Luening, to American Motors Corp. Apparatus and method of painting. 2,938,810, 5-31-60, Cl. 117—102.
- Porges, Frederick B., to Flexibox Ltd. Mechanical seals. 2,951,719, 9-6-60, Cl. 286—11.15.
- Porkert, Lloyd G., 20% to T. K. Hampton. Fluid pressure applying mechanism for fluid pressure actuated devices. 2,955,427, 10-11-60, Cl. 60—54.6.
- Porkert, Lloyd G., 20% to T. K. Hampton. Pump unit. 2,962,974, 12-6-60, Cl. 103—148.
- Poroloy Equipment, Inc.: See—  
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- Porsche, Dr. Ing. h.c.F. K.G.: See—  
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- Porsche, Ferdinand A. E., to Firma Dr. Ing. h. c. F. Porsche K.G. Drive aggregate for motor vehicles. 2,938,591, 5-31-60, Cl. 180—54.
- Porsche, Firma Dr.-Ing. h.c.F. K.-G.: See—  
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- Porter, Allan W. H., to F.N.F. Machinery Mfg. Co. Ltd. Warp thread guiding means for textile warping machines. 2,936,510, 5-17-60, Cl. 28—38.
- Porter, Allan W. H., to Hobourn-F.N.F. Ltd. Warp knitting machines. 2,957,326, 10-25-60, Cl. 66—86.
- Porter, Allan W. H., to Hobourn-F.N.F. Ltd. Flat warp knitting machines. 2,959,948, 11-15-60, Cl. 66—86.
- Porter, Archie L., Jr.: See—  
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- Porter, Arthur A. Circuit and apparatus for facilitating the boosting of a run-down battery. 2,926,266, 2-23-60, Cl. 307—10.
- Porter-Cable Machine Co., The: See—  
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- Porter, Clarence W.: See—  
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Mierendorf, Robert C., and Porter. 2,946,959.
- Porter, Donald C., to J. Q. Davis. Hydraulic injection pump. 2,920,640, 1-12-60, Cl. 137—89.
- Porter, Donald S. Adjustable nut for fretted stringed musical instruments. 2,959,085, 11-8-60, Cl. 84—314.
- Porter, Forrest V., to Dresser Industries, Inc. Core sampler. 2,937,005, 5-17-60, Cl. 255—14.
- Porter, Forrest V., to Dresser Industries, Inc. Gun perforator. 2,953,971, 9-27-60, Cl. 89—1.
- Porter, Frank, to Allied Chemical Corp. Apparatus for extrusion of plastic pipe. 2,952,873, 9-20-60, Cl. 18—14.
- Porter, Fred S. Excavation shoring devices. 2,922,283, 1-26-60, Cl. 61—41.
- Porter, Frederic E., V. W. McAlpine, and H. E. Kaerwer, Jr., to Northrup, King & Co. Seed impregnation including bacterial and vacuum treatment. 2,932,128, 4-12-60, Cl. 47—58.
- Porter, Frederic E., V. W. McAlpine, and H. Nack, to Northrup, King & Co. Seed treatment with microorganisms and gas. 2,954,643, 10-4-60, Cl. 47—58.
- Porter, Frederick W. B., R. Turner, and E. C. Housam, to The British Petroleum Co., Ltd. Redistribution of fluorine in a hydrosulphurization catalyst. 2,963,446, 12-6-60, Cl. 252—420.
- Porter, George K., Jr. Pneumatic float with mercury ring. 2,927,829, 3-8-60, Cl. 309—4.
- Porter, Gilbert E.,  $\frac{1}{2}$  to G. Krause. Booster for hydraulic control system. 2,940,261, 6-14-60, Cl. 60—54.6.
- Porter, Gilbert E. Assister unit for hydraulic control system. 2,941,366, 6-21-60, Cl. 60—54.6.
- Porter, Gilbert E. Compound master cylinder. 2,941,368, 6-21-60, Cl. 60—54.6.
- Porter, Grady T., to Phillips Petroleum Co. Electrical computer. 2,924,384, 2-9-60, Cl. 235—180.
- Porter, H. K., Co. (Delaware): See—  
MacRae, Fred G. 2,957,967.  
Polgov, Nicholas, and Runke. 2,923,799.
- Porter, H. K., Co., Inc.: See—  
Galloway, Frederick M. 2,930,406.  
Hunter, Dudley A. 2,958,361.  
Johnson, Robert. 2,936,092.  
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Katzfey, James M. 2,966,178.  
Rainey, William A. 2,954,053.
- Porter, H. K., Co., Inc. of Pittsburgh: See—  
Mageoch, Harry Y. 2,961,499.
- Porter, Harry M., to Kelsey-Hayes Co. Pivoted tool joint construction. 2,920,927, 1-12-60, Cl. 308—2.
- Porter, Henry T., to Fire Boss, Inc. Automatic inverting and aerating pressurized, dry chemical fire-extinguishing system. 2,923,360, 2-2-60, Cl. 169—31.
- Porter, John G., Jr., to Socony Mobil Oil Co., Inc. Deolling process. 2,952,608, 9-13-60, Cl. 208—29.
- Porter, John H., to Portronics, Inc. Chopper-stabilized amplifier. 2,953,752, 9-20-60, Cl. 330—9.
- Porter, Kenneth W., to Orenda Engines Ltd. Plastic blades for gas turbine engines. 2,929,755, 3-22-60, Cl. 154—90.
- Porter, Lee M.: See—  
Anderson, William S., and Porter. 2,965,625.
- Porter, Leslie F.: See—  
Klinck, Ronald W., Porter, Wright, and Zitko. 2,955,563.
- Porter, Oswald M.: See—  
Freitag, Byron E., Burggraf, and Porter. 2,920,549.
- Porter, P. L., Co.: See—  
Porter, Percy L. 2,922,497.
- Porter, Percy L., to P. L. Porter Co. Hydraulic locking device. 2,922,497, 1-26-60, Cl. 188—96.
- Porter, Richard W.: See—  
Parks, Herman D., and Porter. 2,935,844.
- Porter, Robert: See—  
Decker, Herbert M., Buchanan, and Porter. 2,959,523.
- Porter, Robert D., K. I. Harner, and W. E. Fortmann, to United Aircraft Corp. Positive feedback abatement means. 2,936,584, 5-17-60, Cl. 60—39.28.
- Porter, Robert L.: See—  
Gasche, Fred, and Porter. 2,954,041.
- Porter, Roy M., Jr., to Bell Telephone Laboratories, Inc. Non-reciprocal wave transmission. 2,954,535, 9-27-60, Cl. 333—73.
- Porter, Samuel J., to American Potash & Chemical Corp. Rocket igniter pellets. 2,935,948, 5-10-60, Cl. 102—70.
- Porter, Samuel J., to American Potash & Chemical Corp. Ignition of rocket thrust devices. 2,959,001, 11-8-60, Cl. 60—35.6.
- Porter, Theodore R. Coiffure pin opener. 2,932,302, 4-12-60, Cl. 132—1.
- Porter, Walter G. Knurled piercing punch. 2,927,492, 3-8-60, Cl. 83—698.
- Porter, Wellington W. Vine stripping harvester. 2,956,385, 10-18-60, Cl. 56—19.
- Porter, William A., and J. L. Good, Jr., to General Electric Co. Thermal positioning device. 2,964,903, 12-20-60, Cl. 60—23.
- Porter, William M. 2,934,627.  
Bristol, Lorne E., and Porter. 2,934,627.
- Porterfield, Jack N., to Aluminum International, Inc. Apparatus for casting molten metal. 2,928,148, 3-15-60, Cl. 22—57.4.
- Porthouse, Cyril R., and W. B. McIntosh, to The Pyramid Rubber Co. Nurser. 2,942,746, 6-28-60, Cl. 215—11.
- Portland Pipe Line Corp.: See—  
Follansbee, Robert B. 2,954,515.
- Portner, Albert S., to D. Lehrman, trading as The Irones Co. Supporting device. 2,953,387, 9-20-60, Cl. 280—47.13.
- Portner, Albert S., to D. Lehrman, d.b.a. The Irones Co. Portable holding device. 2,964,199, 12-13-60, Cl. 211—107.
- Portronics, Inc.: See—  
Porter, John H. 2,953,752.
- Pos, Julius, 10% to I. Kayton. Dental crown and method of producing the same. 2,930,124, 3-29-60, Cl. 32—12.
- Pos, Julius, 10% to I. Kayton. Dental devices and their methods of production. 2,930,125, 3-29-60, Cl. 32—12.
- Poschenrieder, Werner, to Siemens & Halske Aktiengesellschaft. Electric filter. 2,923,900, 2-2-60, Cl. 333—72.
- Poschman, William McA., II. Safety match book holder. 2,946,432, 7-26-60, Cl. 206—33.
- Posen, Sam, and L. A. McNabb, to Beltone Hearing Aid Co. Binaural eyeglass hearing aid construction. 2,952,748, 9-13-60, Cl. 179—107.
- Posener, Armand L. A., and A. E. Elmore, to Kitchen Master Appliances, Inc. Mixing device receptacle construction. 2,940,738, 6-14-60, Cl. 259—107.
- Posner, Reuben A.: See—  
Joffe, Jacob S. 2,951,735.
- Poss, Bernard N.: See—  
Keating, Henry E., Murphy, and Poss. 2,932,262.
- Poss, Stanley M.: See—  
Aia, Michael A., and Poss. 2,965,786.
- Posselt, Frederick W., and L. N. Stanley, to General Aniline & Film Corp. Stable solution for producing ice colors. 2,953,422, 9-20-60, Cl. 8—45.
- Post, Arthur. Game pieces. 2,946,592, 7-26-60, Cl. 273—137.
- Post, Charles B. Ignition timing method and apparatus for aircraft internal combustion engines. 2,920,602, 1-12-60, Cl. 116—124.



- Post, David C. Building wall structure and means and method of fabricating same. 2,940,295, 6-14-60, Cl. 72-16.
- Post, Louis. Pneumatic cushion. 2,919,747, 1-5-60, Cl. 155-178.
- Post, Richard F., to Applied Radiation Corp. Electron accelerator. 2,940,001, 6-7-60, Cl. 315-542.
- Post, Richard F., to United States of America, Atomic Energy Commission. Magnetic grid. 2,947,902, 8-2-60, Cl. 313-167.
- Post, Rudolf: *See*—
- Siemssen, Georg G. and Post. 2,964,750.
- Postal, Robert H., to McGraw-Edison Co. Curie point fire detector cable. 2,926,343, 2-23-60, Cl. 340-227.
- Postal, Robert H., to McGraw-Edison Co. Electrical measuring system. 2,928,048, 3-8-60, Cl. 324-99.
- Postal, Robert H., to McGraw-Edison Co. Fire detector cable. 2,936,434, 5-10-60, Cl. 338-26.
- Postal, Robert H., to McGraw-Edison Co. Flame and overheat detecting system. 2,941,192, 6-14-60, Cl. 340-228.
- Postal, Robert H., to McGraw-Edison Co. Solid state electronic switch and circuits therefor. 2,948,837, 8-9-60, Cl. 317-238.
- Postma, Simon P., to American Steel Foundries. Railway hand brake linkage. 2,940,546, 6-14-60, Cl. 188-59.
- Postmaster General, Her Majesty's: *See*—
- Copping, Geoffrey P., Parker, and Barr. 2,950,675.
- Flowers, Thomas H., and Scowen. 2,938,954.
- French, James A. T. 2,960,682.
- Harris, Lionel R. F. 2,927,161.
- Harris, Lionel R. F. 2,930,852.
- Harris, Lionel R. F. 2,931,013.
- Postmaster General of the General Post Office, Her Majesty's: *See*—
- Linke, Josef M. 2,935,703.
- Poston, Arthur L.: *See*—
- Platt, William C., Poston, and Mills. 2,938,028.
- Pot Spinning Corp., The: *See*—
- McCann, John J. 2,941,261.
- Potas, Anthony E., to Socony Mobil Oil Co., Inc. Reactor temperature effect in reforming. 2,946,737, 7-26-60, Cl. 208-65.
- Potash Co. of America: *See*—
- Schoeld, Edmund A., and Fritschy. 2,934,208.
- Schoeld, Edmund A., and Fritschy. 2,952,358.
- Schoeld, Edmund A., Fritschy, and Nabors. 2,937,751.
- Schoeld, Edmund A., Nabors, and Reite. 2,931,502.
- Potchen, Joseph A., G. E. Kloote, and G. D. Meier, to Haske-lite Mfg. Corp. Bonded laminated panel. 2,928,456, 3-15-60, Cl. 154-28.
- Potlatch Forests Inc.: *See*—
- McKean, Herbert B., Ross, Smith, and Willows. 2,919,732.
- Potoczky, Joseph B. Gas pressure type dispensing container cap. 2,954,904, 10-4-60, Cl. 222-394.
- Potter, Clifford S. Collapsible containers. 2,952,379, 9-13-60, Cl. 220-6.
- Potter, David M. Mass flow meter using tandem rotors. 2,943,487, 7-5-60, Cl. 73-231.
- Potter, Donald A., to Stewart-Warner Corp. Heat exchanger. 2,960,847, 11-22-60, Cl. 62-314.
- Potter, Donald A., and K. Staiger, to Stewart-Warner Corp. Method and means for generating purge gases. 2,944,987, 7-12-60, Cl. 252-372.
- Potter, Edwin F., Jr.: *See*—
- Benson, Charles J., Potter, Rose, and Schollenberger. 2,940,793.
- Potter, Frank J., to General Dynamics Corp. Test set to measure dynamic properties of diodes. 2,931,980, 4-5-60, Cl. 324-158.
- Potter, Howard L., and H. D. Terhune, to E. I. du Pont de Nemours and Co. Continuous process for rapidly bleaching woven cotton fabrics. 2,960,383, 11-15-60, Cl. 8-111.
- Potter, Howell L., to The Fafnir Bearing Co. Method of making bearing seal. 2,959,819, 11-15-60, Cl. 18-56.
- Potter, John E.: *See*—
- Strobel, Rudolph W., and Potter. 2,922,863.
- Potter, John J., to Hayden-Nilos Ltd. Machines for securing hooked belt-fasteners. 2,923,939, 2-9-60, Cl. 1-49.4.
- Potter, John J., to Hayden-Nilos Ltd. Belt-fastening machines. 2,932,032, 4-12-60, Cl. 1-49.4.
- Potter, Linn E., to Syracuse Special Machine Co., Inc. Work piece transfer mechanism. 2,947,445, 8-2-60, Cl. 221-210.
- Potter, Nathaniel D., to The Black and Decker Mfg. Co. Portable electric shaping tool. 2,935,102, 5-3-60, Cl. 144-134.
- Potter, Newton I.: *See*—
- Aude, John R., and Potter. 2,966,240.
- Potter, Rossiter R.: *See*—
- Amigh, Paul M., and Potter. 2,927,150.
- Potter, Rossiter R., and C. E. Anderson, 1/2 to M. M. Kinley Co. and 1/2 to J. C. Kinley. Safety joints. 2,924,434, 2-9-60, Cl. 255-28.
- Pottle, Ralph K., to American Can Co. Container handle. 2,963,204, 12-6-60, Cl. 222-465.
- Pottmeyer, Edward W., to Blaw-Knox Co. Emergency bin unloading device. 2,922,538, 1-26-60, Cl. 214-700.
- Pottmeyer, Edward W., and W. C. McCarthy, to Blaw-Knox Co. Ladder bolt or the like. 2,957,538, 10-25-60, Cl. 182-90.
- Potts, Ernest L., to C. C. Brown. Pipe testing apparatus. 2,953,919, 9-27-60, Cl. 73-49.5.
- Potts, James E.: *See*—
- Rugg, Frank M., and Potts. 2,947,718.
- Rugg, Frank M., and Potts. 2,947,719.
- Potts, John M.: *See*—
- Striplin, Marcus M., Jr., Stinson, and Potts. 2,950,961.
- Potts, Lindley W.: *See*—
- Holsman, Henry T., and Potts. 2,930,170.
- Potts, Mack F.: *See*—
- Turk, Stanley D., and Potts. 2,965,645.
- Potts, William M., C. E. Price, J. O. Darholt, and B. D. Dans, to Dacam Corp. Carton-forming and closing means and method. 2,941,340, 6-21-60, Cl. 53-34.
- Potts, William M., W. E. Hartis, and J. O. Darholt, to Dacam Corp. Method of placing cartons into packing cases. 2,946,164, 7-26-60, Cl. 53-26.
- Potts, William R. Vehicle crash curtain. 2,933,343, 4-19-60, Cl. 296-84.
- Pouder, Clair O., to A. E. Warnberg. Toy horse. 2,940,755, 6-14-60, Cl. 272-1.
- Pondevigne, Jean. Casting arrangement for all metals. 2,960,736, 11-22-60, Cl. 22-147.
- Poudrieres Reunies de Belgique S.A.: *See*—
- Diels, Albert. 2,923,236.
- Pouget, Jean L. E. Machine for digging and cleaning ditches and canals. 2,937,463, 5-24-60, Cl. 37-99.
- Poullart, Willy H. P., and F. M. Michiels, to International Standard Electric Corp. Guiding means for a magnetic tape. 2,962,200, 11-29-60, Cl. 226-95.
- Pouliot, Harvey N., to United States of America, Atomic Energy Commission. Fluid controlling means. 2,959,326, 11-8-60, Cl. 222-5.
- Poulos, Ernest N., to United Aircraft Corp. Noise abatement means. 2,934,889, 5-3-60, Cl. 60-35.6.
- Poulsen, Else V. Sanitary napkin. 2,929,379, 3-22-60, Cl. 128-290.
- Poulter, Howard C., to Hewlett-Packard Co. Microwave noise source. 2,942,204, 6-21-60, Cl. 331-78.
- Poulter, John W., and K. V. Johnson, to Koehring Co. Scoop loader attachment. 2,965,253, 12-20-60, Cl. 214-138.
- Pound, Denis W.: *See*—
- Crouch, Alan E., and Pound. 2,959,608.
- Poundstone, William N., to Consolidation Coal Co. Rotary cutting head having core burster means. 2,939,690, 6-7-60, Cl. 262-7.
- Poundstone, William N., to Consolidation Coal Co. Belt clamp. 2,958,410, 11-1-60, Cl. 198-1.
- Poupitch, Ougljesa J., to Illinois Tool Works. Container carrier. 2,923,405, 2-2-60, Cl. 206-65.
- Poupitch, Ougljesa J., to Illinois Tool Works. Container carrier. 2,923,406, 2-2-60, Cl. 206-65.
- Poupitch, Ougljesa J., to Illinois Tool Works. Machine and method for assembling containers with a carrier. 2,929,181, 3-22-60, Cl. 53-35.
- Poupitch, Ougljesa J., to Illinois Tool Works. Can carrier. 2,936,070, 5-10-60, Cl. 206-65.
- Poupitch, Ougljesa J., to Illinois Tool Works. Box spring handle. 2,946,082, 7-26-60, Cl. 16-125.
- Poupirt, Walter C., Jr., to Phillips Petroleum Co. Sampling system. 2,965,134, 12-20-60, Cl. 137-624.18.
- Pouradier, Jacques: *See*—
- Clavier, Alain C. A., and Pouradier. 2,949,442.
- Poursin, Louis S.: *See*—
- Frecourt, Albert H. 2,950,755.
- Poutsch, Harlow R.: *See*—
- Seymour, Lynn L., and Poutsch. 2,963,327.
- Povey, Edmund H., to Doble Engineering Co. Insulation testing apparatus. 2,923,879, 2-2-60, Cl. 324-54.
- Povey, Edmund H., and C. L. Dawes, to Doble Engineering Co. High voltage phase measurements. 2,922,952, 1-26-60, Cl. 324-83.
- Powell, Albert E., to Byford Labs. Inc. Communication system. 2,926,217, 2-23-60, Cl. 179-15.
- Powell, Benjamin S., Jr., to Parks-Cramer Co. Suction clearer apparatus for textile machines. 2,928,140, 3-15-60, Cl. 19-139.
- Powell, Charles E., Jr., and J. Kiener, to Haskell Engineering Associates. Electric steering system. 2,957,649, 10-25-60, Cl. 244-50.
- Powell, Clara B. Diaper pin harness. 2,927,583, 3-8-60, Cl. 128-284.
- Powell, David B., to General Electric Co. Mounting and connecting means for electric circuit controlling devices. 2,930,020, 3-22-60, Cl. 339-64.
- Powell, David B., to General Electric Co. Motor operated circuit breaker. 2,959,649, 11-8-60, Cl. 200-92.
- Powell, Donald G., to Essex Wire Corp. Push button switch. 2,927,988, 3-8-60, Cl. 200-159.
- Powell, Edgar R., to General Motors Corp. Balancer lowering assist. 2,939,680, 6-7-60, Cl. 254-168.
- Powell, Edward L., to Brown and Root, Inc. Process for the production of pulp from bagasse. 2,932,600, 4-12-60, Cl. 162-38.
- Powell, Edward R., to Johns-Manville Corp. Method and apparatus for producing fibers. 2,952,869, 9-20-60, Cl. 18-2.5.
- Powell, George H.: *See*—
- Leibing, William E., and Powell. 2,933,168.
- Powell, Gordon F., to Molins Machine Co. Ltd. Measuring devices used in radio-active materials. 2,920,207, 1-5-60, Cl. 250-83.6.



- Powell, Gordon F., to Molins Machine Co. Ltd. Driving arrangements for the tobacco hoppers of cigarette-making machines. 2,945,497, 7-19-60, Cl. 131-21.
- Powell, Gordon F. W.: *See*—  
Molins, Desmond W., and Powell. 2,925,818.  
Molins, Desmond W., Powell, and Pocock. 2,931,906.
- Powell, Gordon F. W., to Molins Machine Co. Ltd. Machines for manipulating cut tobacco. 2,938,520, 5-31-60, Cl. 131-21.
- Powell, Gordon F. W., to Molins Machine Co. Ltd. Radiation gauges having ionization chambers. 2,959,679, 11-8-60, Cl. 250-83.6.
- Powell, Harry R.: *See*—  
Taylor, Humphrey G. 2,929,081.  
Taylor, Humphrey G. 2,949,617.
- Powell, Hersel E. Waste cotton harvester. 2,928,224, 3-15-60, Cl. 56-28.
- Powell, Howard H.: *See*—  
Cole, Donald W., and Powell. 2,937,437.
- Powell, Jack E.: *See*—  
Spedding, Frank H., and Powell. 2,956,858.
- Powell, James L.: *See*—  
Hickler, Walter R., and Powell. 2,939,180.
- Powell, Manly J., and T. A. Cecil, to Minerals & Chemicals Corp. of America. Apparatus for forming spherical masses. 2,944,986, 7-12-60, Cl. 252-359.
- Powell, Orlo A., Jr.: *See*—  
Low, Sidney, and Powell. 2,949,320.
- Powell Pressed Steel Co., The: *See*—  
Johnson, Richard C. 2,936,986.
- Powell, Ralph R., to The National Cash Register Co. Transistor switching circuit. 2,928,009, 3-8-60, Cl. 307-88.5.
- Powell, Richard H.: *See*—  
Kozel, James A., Rimsha, and Powell. 2,939,927.
- Powell, Vernon R., to Eastwood Acceptance Corp. Method for forming close tolerance tubing and articles thereon. 2,927,372, 3-8-60, Cl. 29-544.
- Powelson, Roger V. N.: *See*—  
Mertes, Thomas S., and Powelson. 2,927,950.
- Power, Basil D., to Edwards High Vacuum Ltd. Vapour vacuum pumps. 2,934,257, 4-26-60, Cl. 230-101.
- Power, Basil D., to Edwards High Vacuum Ltd. Vapour vacuum pumps or other apparatus employing vapour nozzles. 2,934,258, 4-26-60, Cl. 230-101.
- Power Brake Equipment Co.: *See*—  
Williams, Norman C. 2,924,205.  
Williams, Norman C. 2,958,315.
- Power Equipment Co.: *See*—  
Bixby, William H. 2,945,172.
- Power-Gas Corp. Ltd., The: *See*—  
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Hardie, Alexander. 2,939,546.  
McInnis, William. 2,947,511.
- Power, Harold H.: *See*—  
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- Power, James R.: *See*—  
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- Power, James T.: *See*—  
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- Power Jets (Research and Development) Ltd.: *See*—  
Annear, John D., White, and Holt. 2,946,221.  
Bayley, Frederick J. 2,958,194.  
Clark, Nell M. 2,937,497.  
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Flint, John A. 2,947,501.  
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Forshaw, James R. 2,958,456.  
Herbert, Michael V. 2,924,938.  
Hodge, James. 2,955,421.  
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Howell, Alun R., and Islip. 2,936,155.  
Mathieson, George C. R. 2,933,236.  
Orford, Roy C. 2,961,193.  
Perry, Sydney W. H. 2,937,495.  
Perry, Sydney W. H. 2,950,084.  
Roberson, Edwin C., and Rounthwaite. 2,922,279.  
Whitehead, Leslie T. 2,925,250.
- Power, Walter C., to MacFarland, Aveyard & Co. Television channel program identification device. 2,936,540, 5-17-60, Cl. 40-63.
- Power, William A.: *See*—  
Newbold, William F., Power, and Parnell. 2,932,782.
- Powers, Benjamin L., and K. M. Schmidt, to North American Rayon Corp. Yarn stretching device. 2,962,793, 12-6-60, Cl. 28-71.3.
- Powers Chemco, Inc.: *See*—  
Anander, Andrew K. 2,933,014.  
Flynn, Floyd W., and Schutt. 2,949,243.  
Schutt, Norman C., Flynn, and Bjelland. 2,939,371.  
Schwarz, George. 2,942,974.
- Powers, Clyde W., J. M. Bean, and A. E. Carter. Drill point holder. 2,952,498, 9-13-60, Cl. 312-234.1.
- Powers, Daniel R.: *See*—  
Widoff, Albert, and Powers. 2,957,480.
- Powers, Donald M.: *See*—  
Bannister, Lawrence H., Dinowitz, and Powers. 2,927,159.
- Powers, George N. Two piece key. 2,945,373, 7-19-60, Cl. 70-395.
- Powers, Homer P. Auxiliary gas pedal. 2,955,485, 10-11-60, Cl. 74-562.5.
- Powers, Howard A., and W. V. Ryder, Jr., to American Radiator & Standard Sanitary Corp. Vertical flowmeter. 2,923,154, 2-2-60, Cl. 73-194.
- Powers, James H., to General Electric Co. Incinerator. 2,932,713, 4-12-60, Cl. 219-19.
- Powers, John B., to Regents of the University of California. Method and apparatus for sorting objects according to color. 2,933,613, 4-19-60, Cl. 250-214.
- Powers, John B., to The Regents of the University of California. Illuminating device. 2,946,879, 7-26-60, Cl. 240-1.
- Powers, John B., to The Regents of the University of California. Light control signal generator. 2,946,894, 7-26-60, Cl. 250-210.
- Powers, LeRoy, and J. W. Dudley, to United States of America. Agriculture. Selective gametocidal process. 2,948,987, 8-16-60, Cl. 47-58.
- Powers, Milton A. Fluid filtering mediums. 2,945,557, 7-19-60, Cl. 183-51.
- Powers Regulator Co., The: *See*—  
Panza, Joseph E. 2,966,143.  
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Severns, Roger A. 2,941,723.  
Thorburn, David H. 2,948,296.  
Thorburn, David H. 2,961,162.
- Powers, Richard, to Bulletin Co. Machine for advancing articles. 2,964,160, 12-13-60, Cl. 198-24.
- Powers, Richard, to Bulletin Co. Bottom wrapper feeder. 2,964,895, 12-20-60, Cl. 53-389.
- Powers, Richard E., to Powers Wire Products Co., Inc. Clip positioning head for fastener driving tool. 2,946,060, 7-26-60, Cl. 1-49.
- Powers, Richard E., and C. W. Weis, to Powers Wire Products Co., Inc. Fastener driving tool and release therefor. 2,946,313, 7-26-60, Cl. 121-13.
- Powers, Richard E., and C. W. Weis, to Powers Wire Products Co., Inc. Drive piston for a fluid operated motor. 2,959,155, 11-8-60, Cl. 121-13.
- Powers, Robert A.: *See*—  
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- Powers, Walter H., to Walker Mfg. Co. Muffler. 2,934,161, 4-26-60, Cl. 181-53.
- Powers Wire Products Co., Inc.: *See*—  
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Powers, Richard E., and Weis. 2,946,313.  
Powers, Richard E., and Weis. 2,959,155.
- Powischill, John W.: *See*—  
Hyde, Edward M., and Powischill. 2,933,281.  
Riehl, Harmon B., and Powischill. 2,937,411.
- Powischill, John W., E. W. Hine, II, and G. R. Howard, to Proctor & Schwartz, Inc. Apparatus for feeding bulk material to plural supply locations. 2,925,184, 2-16-60, Cl. 214-17.
- Poylo, Michael C., and R. L. Whittle, to International Telephone and Telegraph Corp. Data processing system. 2,947,978, 8-2-60, Cl. 340-174.
- Poynor, Russell R., and G. Shute, to International Harvester Co. Draft control apparatus. 2,927,649, 3-8-60, Cl. 172-2.
- Poynter, Cyril E., to Weatherley Oilgear Ltd. Surface broaching. 2,932,240, 4-12-60, Cl. 90-33.
- Pozgay, Carl J. Helicopter blade control device. 2,946,390, 7-26-60, Cl. 170-160.13.
- Praeg, Walter S., and J. J. Sigman, Jr., to National Broach & Machine Co. Gear finishing. 2,942,389, 6-28-60, Cl. 51-287.
- Prager, Julianne H.: *See*—  
McCurdy, Richard M., and Prager. 2,925,406.
- Prager, Maurice, to Maurice Franklin Mfg. Co. Adjustable ventilator. 2,930,309, 3-29-60, Cl. 98-118.
- Prager, William: *See*—  
Cunningham, Marion M., and Prager. 2,930,423.
- Pralatoski, Frederick M.: *See*—  
Pfanstiel, Robert, Pralatoski, and Scruton. 2,936,322.
- Prance, Edgar E., and J. E. Sheffield. Rotary hack and sprayer. 2,932,127, 4-12-60, Cl. 47-12.
- Prange, Charles J., to Flexible Sewertool Corp. Power bucket machine. Re. 2,908, 12-13-60, Cl. 214-103.
- Pranter, Lawrence A. Valve. 2,956,582, 10-18-60, Cl. 137-512.1.
- Prapas, Aristotle G.: *See*—  
Rudner, Bernard, and Prapas. 2,947,752.  
Rudner, Bernard, and Prapas. 2,948,728.  
Rudner, Bernard, and Prapas. 2,948,730.
- Prapas, Aristotle G., to W. R. Grace & Co. Bis morpholinium salts. 2,946,789, 7-26-60, Cl. 260-247.5.
- Prater, Arthur N., A. P. Vosti, H. C. Gormly, and T. M. Lukes, to Gentry Division, Consolidated Foods Corp. Aggregated dehydrated allium powder and process for making the same. 2,957,771, 10-25-60, Cl. 99-140.
- Prater, John D.: *See*—  
Christensen, Charles C., and Prater. 2,945,742.  
Zimmerley, Stuart R., and Prater. 2,945,743.
- Prather, Edwin E.: *See*—  
Hupp, Edward E., and Prather. 2,934,903.  
Price, Earl R., Schock, and Prather. 2,960,100.
- Prather, Edwin E., to Bendix Aviation Corp. Overdrive control mechanism. 2,947,192, 8-2-60, Cl. 74-472.
- Prather, Merle P.: *See*—  
Johnson, Reynold B., Moneagle, Koranye, Jurgens, and Prater. 2,951,699.



- Prattique, Jean. Roller mills. 2,925,226, 2-16-60, Cl. 241-225.
- Pratt, Albert H.: See—  
Scott, Leroy W. 2,924,347.
- Pratt, Aloysius W., to Jack & Heintz, Inc. Circuit for connecting alternators in parallel. 2,928,007, 3-8-60, Cl. 307-87.
- Pratt, Edmund C. Fire alarms. 2,938,493, 5-31-60, Cl. 116-106.
- Pratt, Elmer J., to Guardian Electric Mfg. Co. Combination solenoid valve and pressure switch. 2,936,780, 5-17-60, Cl. 137-560.
- Pratt, George W.: See—  
Barnett, Guy F., Spencer, Baghurst, and Pratt. 2,950,406.
- Pratt, Henry, Co.: See—  
Bicicchi, Vincent A. 2,932,862.  
Fawkes, Donald G. 2,923,524.  
Saar, Robert P. 2,941,779.  
Schwenk, Henry C. 2,959,149.
- Pratt, Leslie J.: See—  
Morley, Frederick W. W., Kent, and Pratt. 2,966,296.
- Pratt, Read and Co., Inc.: See—  
Murdock, Paul F. 2,936,666.  
Wood, Orville T. 2,947,849.  
Wood, Orville T. 2,948,180.
- Pratt & Whitney Co., Inc.: See—  
Dexter, Albert M., Jr., and Wincze. 2,932,089.  
Jaeger, Jacob J. 2,949,797.
- Pratt, William D., to United States of America, Army. Baseball training aid. 2,925,273, 2-16-60, Cl. 273-26.
- Pratt, William D. Bulb basket and marker. 2,945,323, 7-19-60, Cl. 47-37.
- Pratt, William D. Winged fish lure. 2,935,809, 5-10-60, Cl. 43-42.13.
- Pravda, Milton F.: See—  
Gerlach, Carl H., and Pravda. 2,959,086.
- Prawlucky, Walter P.: See—  
Marron, Arthur W., Prawlucky, and Burns. 2,930,334.
- Pray, Blaine O., and R. S. Chisholm, to Columbia-Southern Chemical Corp. Stabilization. 2,959,623, 11-8-60, Cl. 260-652.5.
- Pray, Lester W., to Saco-Lowell Shops. Bobbin holder. 2,931,593, 4-5-60, Cl. 242-130.2.
- Pray, Reuel F., Jr., to Western Machinery Co. Solids pump. 2,958,293, 11-1-60, Cl. 103-103.
- Pray, Reuel F., III, and E. E. Drucker, to J. Kauffman. Tape ad mechanism for juke box. 2,960,577, 11-15-60, Cl. 179-100.1.
- Preader, Lester G. Closet shelf bracket and blank therefor. 2,960,761, 11-22-60, Cl. 29-190.
- Preble, Harry, Jr., to National Can Corp. Multiple roll dispenser for flexible sheets. 2,924,493, 2-9-60, Cl. 312-39.
- Precasco Corp.: See—  
Farr, Warren H. 2,952,327.
- Preciado, Encarnacion R. Hydraulic lift apparatus. 2,928,379, 3-15-60, Cl. 121-46.
- Precisia A.G. Rechenmaschinenfabrik: See—  
Heinze, Werner, and Jülich. 2,945,622.
- Precision Dynamics Corp.: See—  
Long, Donald A. 2,941,270.  
Mosher, Walter W., Jr., Goldammer, and Long. 2,954,621.
- Precision Grinding Ltd.: See—  
Kent, Maurice J. 2,957,471.
- Precision Grinding Wheel Co., Inc.: See—  
Phillips, Donald G. 2,940,842.
- Precision Metal Workers: See—  
Buettner, Raymond J., Sievert, Svoboda, and Robinson. 2,939,514.  
Eckmann, Joseph O. 2,926,725.  
Horton, Richard E. 2,960,204.
- Precision Paper Tube Co.: See—  
Folta, Andrew. 2,950,527.
- Precision Parts Corp.: See—  
Harmon, Paul V. 2,931,456.
- Precision Valve Corp.: See—  
Abplanalp, Robert H., and Focht. 2,962,228.  
Abplanalp, Robert H., and Pizzurro. 2,950,031.  
Focht, John R. 2,921,722.  
Focht, John R. 2,947,126.  
Focht, John R. 2,947,904.
- Precision Welder & Flexopress Corp.: See—  
Schueler, Arthur W., Funk, and Mecklenborg. 2,948,804.
- Preco Inc.: See—  
Beemer, Paul K., Anderson, and Burney. 2,919,560.  
Beemer, Paul K., and Shea. 2,941,319.  
Bowen, John T., Olson, Beemer, and Shea. 2,961,783.  
Cole, Donald D. 2,965,990.  
Magarian, Gerald M. 2,962,748.  
Magarian, Gerald M. 2,963,270.
- Precon Process and Equipment Corp.: See—  
Becker, Hal C. 2,953,689.
- Precopio, Frank M., and D. W. Fox, to General Electric Co. Polyesters from terephthalic acid, ethylene glycol and a higher polyfunctional alcohol. 2,936,296, 5-10-60, Cl. 260-33.4.
- Precoul, Michel, to Societe Technique de Recherches Industrielles et Mecaniques. Propulsion system. 2,923,126, 2-2-60, Cl. 60-35.6.
- Preece, Jack W.: See—  
Bundegaard, Howard, and Preece. 2,957,065.
- Preferred Engineering and Research Corp., The: See—  
Bitel, Joseph A. 2,939,728.  
O'Shaughnessy, Bernard T., Jr. 2,939,729.
- Preformed Line Products Co.: See—  
Peterson, Thomas F. 2,929,195.  
Ruhman, Jon R. 2,947,504.
- Pregent, Thomas W., to International Harvester Co. Cushioning pad for packaged articles. 2,947,459, 8-2-60, Cl. 229-14.
- Prehm, Ora M. Drapery hanger. 2,961,693, 11-29-60, Cl. 16-87.4.
- Preininger, Gustav, to "Elin" Aktiengesellschaft für elektrische Industrie. Transformer bank. 2,962,600, 11-29-60, Cl. 307-83.
- Preis, Fritz. Plant packing machine. 2,955,396, 10-11-60, Cl. 53-124.
- Preis, William J. Denture and method of making same. 2,934,823, 5-3-60, Cl. 32-2.
- Preiser, Herman S.: See—  
Miller, Walter L., Preiser, and Tudor. 2,941,935.
- Preiser, Herman S. Multiple disc anode. 2,947,680, 8-2-60, Cl. 204-197.
- Preiser, Herman S., and F. L. Downs. Electrical connection for cathodic protection. 2,949,417, 8-16-60, Cl. 204-196.
- Preisig, Joseph O., to Radio Corp. of America. Color television. 2,920,133, 1-5-60, Cl. 178-5.4.
- Preisig, Joseph O., to Radio Corp. of America. Television deflection circuits. 2,921,231, 1-12-60, Cl. 315-27.
- Preisman, Albert, to International Telephone and Telegraph Corp. Radio jamming systems. 2,953,677, 9-20-60, Cl. 250-17.
- Preist, Donald H.: See—  
Badger, George M. W., and Preist. 2,958,804.
- Prelat, Gerald: See—  
Fresard, Marcel, Fluckiger, and Prelat. 2,924,107.
- Prell, George A., to GPE Controls, Inc. Control system. 2,961,548, 11-22-60, Cl. 250-219.
- Preload Co., Inc., The: See—  
Dobell, Curzon. 2,932,964.
- Premier Carton Co.: See—  
Fobiano, Frank E. 2,947,637.
- Prendergast, Charles S. Vane displacement pumps or motors. 2,928,350, 3-15-60, Cl. 103-4.
- Pregle, Robert S.: See—  
Adams, Dustin S., Ernst, and Pregle. 2,948,583.
- Prentice, Archibald. Drapery hook. 2,950,515, 8-30-60, Cl. 24-86.
- Prentice, David V., and E. M. Heth, to Prentice Machine Works, Inc. Sheet bundle handling apparatus. 2,940,613, 6-14-60, Cl. 214-1.
- Prentice, David V., and E. M. Heth, to Prentice Machine Works, Inc. Joiner apparatus and method. 2,950,745, 8-30-60, Cl. 144-309.
- Prentice Machine Works, Inc.: See—  
Adams, Donald D., and Brant. 2,928,442.  
Heth, Edwin M., and Rickford. 2,928,305.  
Prentice, David V., and Heth. 2,940,613.  
Prentice, David V., and Heth. 2,950,745.
- Prentice, Mayo S.: See—  
Bamford, Calvin, and Prentice. 2,928,558.
- Prentiss, Augustin M., to Chandler-Evans Corp. Fuel injection system for internal combustion engines. 2,926,646, 3-1-60, Cl. 123-119.
- Prentiss, Spencer S., to Phillips Petroleum Co. Control of pressure in rocket motors. 2,940,251, 6-14-60, Cl. 60-35.6.
- Prenveille, Donald E. Garment hanger for sliding-door closets. 2,960,236, 11-15-60, Cl. 211-86.
- Preotle, John J., to General Motors Corp. Open top refrigerator display case. 2,923,135, 2-2-60, Cl. 62-157.
- Present, Fred: See—  
Prussin, Samuel B., Shepherd, and Present. 2,953,284.
- Prescott, Herbert L., to Westinghouse Electric Corp. Line drop compensating circuit. 2,954,488, 9-27-60, Cl. 307-103.
- Prescott, Herbert L., and W. L. Erickson, to Westinghouse Electric Corp. Paralleling circuit for load tap changers. 2,933,671, 4-19-60, Cl. 323-43.5.
- Prescott, Richard H.: See—  
Herrick, George H., Prescott, and Moerk. 2,964,660.
- Prescott, Robert E., Jr. Tube coupling. 2,937,892, 5-24-60, Cl. 285-245.
- Prescott, Robert S., to Minneapolis-Honeywell Regulator Co. Electrical pulse shaping and amplifying circuit. 2,952,772, 9-13-60, Cl. 250-27.
- Presgrave, Cyril: See—  
Minnick, Leonard J., and Presgrave. 2,937,219.
- Preslan, Floyd W.: See—  
Knudsen, Raymond G., and Preslan. 2,930,136.
- Presnell, Frank G., and J. Curlett, to The Bendix Corp. Combined depth and draft control for tractor drawn implements. 2,964,113, 12-13-60, Cl. 172-9.
- Press, Howard A. Therapeutic tablets. 2,953,497, 9-20-60, Cl. 167-82.
- Press, Irving D., to Resistoflex Corp. Reusable hose end fitting for plural layer hose. Re. 2,4786, 2-16-60, Cl. 285-39.
- Press, Irving D., to Resistoflex Corp. Method and apparatus for sintering polytetrafluoroethylene tubing. 2,938,235, 5-31-60, Cl. 18-55.
- Press, Irving D., to Resistoflex Corp. Preformed flexible hose and method of making it. 2,964,796, 12-20-60, Cl. 18-56.



- Press, John E., and J. Mark, to Federal Tool Corp. Drinking cup. 2,937,783, 5-24-60, Cl. 220-94.
- Pressel, Otto, to North American Phillips Co., Inc. Packing for counter tube. 2,956,105, 10-11-60, Cl. 174-59.
- Presser, Leiser. Window cleaning device. 2,944,276, 7-12-60, Cl. 15-250.24.
- Pressl, Alfred A. Drill dispenser. 2,919,796, 1-5-60, Cl. 206-17.
- Pressley, Felix H. Check for picker stick of looms. 2,956,590, 10-18-60, Cl. 139-162.
- Press Pallet Inc.: *See*—  
Moore, Francis C., and Rohn. 2,963,565.
- Press Seal Gasket Corp.: *See*—  
Miller, Joseph E. Re. 24,799.
- Pressure Containers, Inc.: *See*—  
Appel, Frank H. 2,964,220.
- Pressure Dispensers, Inc.: *See*—  
Collins, Leonard M. 2,954,903.
- Pres-Sure-Tite Products, Inc.: *See*—  
Hughes, Wilbur B., and Enell. 2,940,301.
- Prestige Group Ltd., The: *See*—  
De Mille, Noel J. 2,938,556.
- Prestige, Inc.: *See*—  
Burd, Samuel L., Mayer, and Berman. 2,948,240.
- Prestole Corp.: *See*—  
Garman, Donald F. 2,952,430.  
Garman, Donald F. 2,958,109.
- Preston, Don F., to Acme Appliance Mfg. Co. Retractable shelf. 2,919,966, 1-5-60, Cl. 312-27.
- Preston, Don F., to Acme Appliance Mfg. Co. Sliding door guide. 2,939,167, 6-7-60, Cl. 16-90.
- Preston, Frederick A., N. E. Klein, and E. J. Wright, to Deering Milliken Research Corp. Multi-position plying and twisting apparatus. 2,961,823, 11-29-60, Cl. 57-58.3.
- Preston, Glenn W., to General Atomics Corp. Matrix game. 2,953,379, 9-20-60, Cl. 273-130.
- Preston, Jack, and H. G. Clark, III, to The Chemstrand Corp. Alkylation of acids with alkyl orthocarboxylates. 2,928,859, 3-15-60, Cl. 260-456.
- Preston, Lloyd S.: *See*—  
Vogel, Otto F., Bonney, and Preston. 2,945,989.
- Preston, Martin, to The Wellman Engineering Co. Locomotive crane. 2,925,923, 2-23-60, Cl. 212-38.
- Preston, Robert W. G., to Imperial Chemical Industries Ltd. Production of quinones and phenols. 2,927,932, 3-8-60, Cl. 260-396.
- Preston, William C., J. F. Cattorini, and F. H. Chaboty, to The National Cash Register Co. Printing mechanism. 2,935,935, 5-10-60, Cl. 101-93.
- Preston, William E.: *See*—  
Michael, Ralph A., Newkirk, and Preston. 2,937,710.
- Prete, Ernest, Jr., to G. D. Brown. Quick release buckle with removable strap gripping bars. 2,948,939, 8-16-60, Cl. 24-171.
- Pretka, Frank: *See*—  
Cunningham, George L., and Pretka. 2,923,731.  
Cunningham, George L., and Pretka. 2,926,990.  
Cunningham, George L., and Pretka. 2,938,920.
- Pretti, Joseph G.: *See*—  
Jacuzzi, Candido, Nash, and Pretti. 2,938,471.
- Prettyman, Irvan B., to The Firestone Tire & Rubber Co. Textile element treatment. 2,955,344, 10-11-60, Cl. 28-72.
- Preu, Willi: *See*—  
Gill, Harvey J., Jr., Sitterly, and Preu. 2,948,027.
- Preuss, Albert F., Jr.: *See*—  
Dickert, Charles T., and Preuss. 2,955,019.
- Preuss, Charles. Container handling machine. 2,951,603, 9-6-60, Cl. 214-311.
- Pre-Vest, Inc.: *See*—  
Watts, Claude H. 2,928,749.  
Watts, Claude H. 2,928,750.
- Previte, Dominick L.: *See*—  
Kramen, Frank H., and Previte. 2,919,592.
- Preway, Inc.: *See*—  
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- Prewitt Aircraft Co.: *See*—  
Prewitt, Richard H., and Purcell. 2,961,053.
- Prewitt, Richard H., and M. Larson. Scratch strain recorders. 2,932,967, 4-19-60, Cl. 73-88.
- Prewitt, Richard H., and T. H. Purcell, Jr., to Prewitt Aircraft Co. Airfoil structure and assembly. 2,961,053, 11-22-60, Cl. 170-159.
- Prey, Vinzenz, to American Cyanamid Co. Preparation of substituted thionaphthenes. 2,949,471, 8-16-60, Cl. 260-330.5.
- Priaroggia, Paolo G., to Pirelli Società per Azioni. Construction of sealing ends for high tension electric cables. 2,924,641, 2-9-60, Cl. 174-73.
- Priaroggia, Paolo G., to Pirelli Società per Azioni. Branch joint for electric cables. 2,925,459, 2-16-60, Cl. 174-73.
- Pribble, Noble F., to Bendix Aviation Corp. Driver circuit for fuel injector. 2,934,050, 4-26-60, Cl. 123-32.
- Pribonic, John F.: *See*—  
Jackson, George W., La Flame, and Pribonic. 2,935,023.  
Jackson, George W., La Flame, and Pribonic. 2,937,715.
- Pribonic, John F., to General Motors Corp. Fluid suspension system with vehicle height and roll control. 2,950,124, 8-23-60, Cl. 280-124.
- Pribonic, John F., to General Motors Corp. Two-position air suspension control valve. 2,956,816, 10-18-60, Cl. 280-124.
- Pribonic, John F., to General Motors Corp. Fluid delayed valve control for suspension system. 2,957,704, 10-25-60, Cl. 280-124.
- Pribonic, John F., to General Motors Corp. Damper for valve control. 2,965,200, 12-20-60, Cl. 188-90.
- Pribram, Edwin, to Fairley Aviation Ltd. Aircraft with wing containing lifting jets. 2,945,641, 7-19-60, Cl. 244-12.
- Pribyl, Edward J., and E. R. Spitzmuller, to Olin Mathieson Chemical Corp. Carbamic acid esters. 2,964,556, 12-13-60, Cl. 260-482.
- Pribyl, Robert, to Vereinigte Österreichische Eisen- und Stahlwerke Aktiengesellschaft. Process for surface hardening steel articles. 2,935,433, 5-3-60, Cl. 148-144.
- Price, Charles A., and R. R. Steward; said Price assor. to said Steward. Folding and pressing machine. 2,929,537, 3-22-60, Cl. 223-38.
- Price, Clarence A., and W. L. Rupp, to Bradson Mfg. Corp. Disposable spray head. 2,951,645, 9-6-60, Cl. 239-318.
- Price, Claude S. Method of coating a surface with a composition comprising a furfuryl alcohol resin, cellulose, filler and catalyst. 2,948,639, 8-9-60, Cl. 117-104.
- Price, Clegg E.: *See*—  
Potts, William M., Price, Darholt, and Dans. 2,941,340.
- Price, David D. Paper rack. 2,965,016, 12-20-60, Cl. 100-1.
- Price, Earl R., to Bendix Aviation Corp. Switch control mechanism. 2,927,668, 3-8-60, Cl. 192-3.
- Price, Earl R., to Bendix Aviation Corp. Power operated braking system. 2,947,387, 8-2-60, Cl. 188-152.
- Price, Earl R., and E. H. Hupp, to Bendix Aviation Corp. Booster for power-assisted hydraulic braking system. 2,938,348, 5-31-60, Cl. 60-54.6.
- Price, Earl R., W. E. Schock, and E. E. Prather, to The Bendix Corp. Brake valve construction. 2,960,100, 11-15-60, Cl. 137-113.
- Price, Edwin C. Powered vehicle ramp. 2,966,274, 12-27-60, Cl. 214-85.
- Price, Frank C.: *See*—  
Reeg, Cloyd P., and Price. 2,943,047.
- Price, Gayle B.: *See*—  
Henry, John B., and Price. 2,956,375.
- Price, George E., to Westinghouse Electric Corp. Multiple element heating units. 2,923,802, 2-2-60, Cl. 219-37.
- Price, George E. Pipette pump. 2,960,868, 11-22-60, Cl. 73-425.6.
- Price, George W., to ACF Industries, Inc. Combined fuel pump and carburetor. 2,926,894, 3-1-60, Cl. 261-37.
- Price, Harold A., to Dorr-Oliver Inc. Apparatus for water, wax, gum and dirt removal from hydrocarbons. 2,922,750, 1-26-60, Cl. 196-46.1.
- Price, Harold A., to Permanent Filter Corp. Cell for testing hydrocarbon fuel. 2,943,594, 7-5-60, Cl. 116-114.
- Price, Harold A., to Permanent Filter Corp. Quick opening doors for filters. 2,950,838, 8-30-60, Cl. 220-46.
- Price, Howard R.: *See*—  
Broughton, Dean C., Dueringer, and Price. 2,960,350.
- Price, Jack R.: *See*—  
Richards, Wilfred A., Price, and Davis. 2,963,651.
- Price, James F., to United States of America, Army. Acoustic direction finder. 2,966,657, 12-27-60, Cl. 340-16.
- Price, James R.: *See*—  
Cunningham, Richard G., Havely, and Price. 2,961,405.
- Price, John A., to American Cyanamid Co. Copolymer of a quaternary ammonium compound and acrylonitrile, solution thereof, and fiber formed therefrom. 2,941,969, 6-21-60, Cl. 260-29.6.
- Price, John A., and W. H. Schuller, to American Cyanamid Co. Copolymers of a bis ethylenically unsaturated sulfonium compound. 2,923,700, 2-2-60, Cl. 260-79.7.
- Price, John C.: *See*—  
Starr, Arthur T., Cattermole, and Price. 2,954,550.
- Price, John H.: *See*—  
Jones, John N., and Price. 2,935,072.
- Price, Lawson. Combination portable stock loading chute and stock trailer. 2,941,813, 6-21-60, Cl. 280-30.
- Price, Longueville H., Jr., M. P. Du Plessis, and H. A. Scarlett, to Pricemetal Corp. Torsion rod hinge construction. 2,934,784, 5-3-60, Cl. 16-180.
- Price, Manley R., to Sanymetal Products Co. Inc. Perforated tile supporting system. 2,924,856, 2-16-60, Cl. 20-4.
- Price, Milton, to Milton Mfg. Co., Inc. Tire gauges. 2,024,100, 2-9-60, Cl. 73-396.
- Price, Nathan C. Combined open-cycle closed-cycle power-plant for aircraft. 2,953,900, 9-27-60, Cl. 60-35.6.
- Price, Nathan C. Airport for vertically ascending and descending aircraft. 2,957,660, 10-25-60, Cl. 244-114.
- Price, R. K., Associates, Inc.: *See*—  
Bouet, Bernard M. E. 2,950,717.
- Price, Ralph E., and E. R. Dunn, to Gardner Machine Co. Dual pressure work carrier for automatic grinding machines. 2,931,144, 4-5-60, Cl. 51-118.
- Price, Ralph E., to Gardner Machine Co. Spindle mounting. 2,962,841, 12-6-60, Cl. 51-109.
- Price, Raymond M.: *See*—  
Keskula, Henno, Price, and Roche. 2,958,671.
- Price, Raymond M., to The Dow Chemical Co. Aqueous dispersions of zinc stearate and polyethylene glycol monoesters. 2,965,589, 12-20-60, Cl. 260-23.
- Price, Richard H.: *See*—  
Jarrett, Charles R., and Price. 2,955,616.
- Price, Robert L., Jr. Decorative lights. 2,935,599, 5-3-60, Cl. 240-10.



- Price, Russell W. Conductive tape for shoes. 2,955,234, 10-4-60, Cl. 317-2.
- Price, Warren R., and A. S. Houston, to Central Waxed Paper Co. Method of making a receptacle of foamed polystyrene. 2,942,301, 6-28-60, Cl. 18-56.
- Price, William G., to The Bendix Corp. Steering apparatus. 2,958,481, 11-1-60, Cl. 244-50.
- Price, William H., to Cities Service Research and Development Co. Recovery of oil from bituminous sands. 2,965,557, 12-20-60, Cl. 208-11.
- Pricemetal Corp.: *See*—
- Price, Longueville H., Jr., Du Plessis, and Scarlett. 2,934,784.
- Prichard, Guy, Jr., to The J. B. Ehrsam & Sons Mfg. Co. Power-scoop pulling mechanism. 2,956,779, 10-18-60, Cl. 254-187.
- Prichard, John P., to Field Queen, Inc. Sickle driver. 2,922,268, 1-26-60, Cl. 56-306.
- Prichard, William W., to United States of America, War. Anti-vesicant coating composition. 2,934,451, 4-26-60, Cl. 106-287.
- Prickett, Wilbur W. and M. E., to Salter Machine Co. Feed valve or gate for a dispenser shoe. 2,966,285, 12-27-60, Cl. 222-345.
- Prickett, Alfred J., to Western Electric Co., Inc. Antenna horn. 2,941,203, 6-14-60, Cl. 343-705.
- Prickett, Mona E.: *See*—
- Prickett, Wilbur W. and M. E. 2,966,285.
- Pridgen, Herman S.: *See*—
- Knowles, M B., and Pridgen. 2,944,908.
- Pridgeon, Clifford W. Bale loader and stacker. 2,962,177, 11-29-60, Cl. 214-147.
- Priebe, Adeline. Shop aprons. 2,964,755, 12-20-60, Cl. 2-51.
- Priebe, Edward L., and J. A. McCarthy, to Columbia-Southern Chemical Corp. Method of preparing siliceous pigments. 2,946,660, 7-26-60, Cl. 23-182.
- Priesemuth, Wolfgang. Self interrupting relay. 2,945,930, 7-19-60, Cl. 200-87.
- Priesmeyer, Charles, to Meyer & Wenthe, Inc. Seal press seal support. 2,937,590, 5-24-60, Cl. 101-3.
- Priesmeyer, Charles H., to The Powers Regulator Co. Diaphragm valve with yieldable connections between the diaphragm, stem and valve head. 2,925,987, 2-23-60, Cl. 251-61.
- Priess, Anna: *See*—
- Schlichting, Karl F. 2,961,697.
- Priest, Gerald G.: *See*—
- Allen, Thomas O., and Priest. 2,935,129.
- Priest, Reid G. Heel boom attachment for power shovels. 2,919,823, 1-5-60, Cl. 214-147.
- Priest, Wesley V. Machine for preparing soil for planting. 2,961,980, 11-29-60, Cl. 111-10.
- Priest, William F., to Hughes Aircraft Co. Self-selective gating system for target seeking receiver. 2,942,258, 6-21-60, Cl. 343-117.
- Priest, William J.: *See*—
- Talbot, Ralph H., and Priest. 2,964,405.
- Priestley, Charles H., to United Engineering and Foundry Co. Strip coiling apparatus. 2,920,838, 1-12-60, Cl. 242-78.4.
- Priestley, Robert J., to Dorr-Oliver Inc. Drying apparatus and process. 2,939,411, 6-7-60, Cl. 110-28.
- Priestman, Francis D., to Humber Ltd. Door latch. 2,940,789, 6-14-60, Cl. 292-126.
- Prieto, Jose E. A., to W. R. Grace & Co. Folded blank box. 2,965,277, 12-20-60, Cl. 229-27.
- Prietzsch, Leona E. Tie-on ice or water bag. 2,919,735, 1-5-60, Cl. 150-2.3.
- Prill, Alphons, and R. Brück, to Agfa Aktiengesellschaft. Magnetic impulse record carriers. 2,941,901, 6-21-60, Cl. 117-76.
- Prill, Erhard J.: *See*—
- Erickson, Floyd B., and Prill. 2,957,906.
- Prill, Erhard J., to Monsanto Chemical Co. Methanoisothianaphthene derivative. 2,957,802, 10-25-60, Cl. 167-33.
- Prill, Erhard J., to Monsanto Chemical Co. Titanium subchloride catalysts and use in alkylation process. 2,965,686, 12-20-60, Cl. 260-671.
- Prill, Erhard J., and J. C. Wygant, to Monsanto Chemical Co. Preparation of terephthalates by heating benzoic acid salts under pressure of gases. 2,965,674, 12-20-60, Cl. 260-515.
- Prill, William K., and G. Marason, to Beckman Instruments, Inc. Fastening device detachably coupling grooved cylindrical surfaces. 2,952,480, 9-13-60, Cl. 285-18.
- Prim, Floyd E., 1/2 to M. M. Mayne. Key ejecting key container. 2,931,208, 4-5-60, Cl. 70-414.
- Primas, Johann J.: *See*—
- Günthard, Hans H., and Primas. 2,953,727.
- Prime Mfg. Co., The: *See*—
- Lucas, John A. 2,949,326.
- McIntyre, Daniel, and Morgan. 2,958,219.
- Morgan, James I. 2,940,470.
- Primeau, George H., to General Motors Corp. Transmission control. 2,922,315, 1-26-60, Cl. 74-473.
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- Primeau, George H., to General Motors Corp. Transmission control lever bearing. 2,959,067, 11-8-60, Cl. 74-484.
- Primetti, Brenno: *See*—
- Torre, Pierluigi, and Primetti. 2,942,170.
- Primore Sales, Inc.: *See*—
- Morse, Stanley H. 2,934,915.
- Prince, Arthur E., to Otis Elevator Co. Position indicator mechanism for elevators. 2,944,244, 7-5-60, Cl. 340-21.
- Prince, David C. Method and apparatus for self-pressurizing monofuel system. 2,958,193, 11-1-60, Cl. 60-39.46.
- Prince, George E., to American Telephone and Telegraph Co. Telegraph switching apparatus. 2,965,716, 12-20-60, Cl. 178-33.
- Prince, John M., to The Anderson Co. Tool for attaching a grommet to a support. 2,961,755, 11-29-60, Cl. 29-235.
- Prince, Luther F. Traction device for vehicle. 2,941,566, 6-21-60, Cl. 152-208.
- Prince, Morris D., to Georgia Tech Research Institute. Digital to analog converter and method. 2,932,017, 4-5-60, Cl. 340-347.
- Prince, Philip E.: *See*—
- Bernhardt, Ernest C., Boxler, and Prince. 2,944,298.
- Prince-Smith & Stells Ltd.: *See*—
- Barrett, Walter. 2,922,198.
- Speak, John. 2,925,961.
- Wright, Frank. 2,930,181.
- Prince, William A., to General Dynamics Corp. Fluid leakage meter. 2,939,314, 6-7-60, Cl. 73-40.
- Princeton Laboratories, Inc.: *See*—
- Cohen, Herman. 2,930,737.
- Pringham, Henry E. J., to General Motors Corp. Fuel injection system. 2,927,570, 3-8-60, Cl. 123-140.
- Pringle, Glenn D.: *See*—
- De Sander, Emiel, and Pringle. 2,959,796.
- Pringle, Robert W.: *See*—
- Martin, Philip W., and Pringle. 2,923,824.
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- Prins, Gerhard: *See*—
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- Kopley, James P. 2,944,912.
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- Julian, Percy L., and Printy. 2,933,510.
- Prior, William L., and H. J. Snelson, to Tectum Corp. Process for steam treating magnesium cement fibrous panels. 2,944,291, 7-12-60, Cl. 13-47.5.
- Priscu, John C.: *See*—
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- Pristach, Milton R. Load transfer system, especially for ships at sea. 2,942,740, 6-28-60, Cl. 214-13.
- Pristo, Ray E., to International Harvester Co. Operating mechanism for crushing rolls. 2,942,927, 2-16-60, Cl. 56-1.
- Pritchard, Arnold J., and W. A. Rowlett. Automatic ball-joint suspension kit. 2,933,336, 4-19-60, Cl. 287-90.
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- Schroeder, Alfred C., and Pritchard. 2,944,106.
- Pritchard, Dalton H., to Radio Corp. of America. Adaptation of standard color signal for use with vertical strip color tube. 2,924,649, 2-9-60, Cl. 178-5.4.
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- Pritchard, Dalton H., to Radio Corp. of America. Signal translating system. 2,943,191, 6-28-60, Cl. 250-20.
- Pritchard, Dalton H., and A. C. Schroeder, to Radio Corp. of America. Burst amplitude control of intermediate frequency amplifier frequency response. 2,921,120, 1-12-60, Cl. 178-5.4.
- Pritchard, Dalton H., A. C. Schroeder, and W. G. Gibson, to Radio Corp. of America. Color demodulator. 2,925,462, 2-16-60, Cl. 178-5.4.
- Pritchard, Howard A., to Harris-Intertype Corp. Sheet delivery means for rotary printing press. 2,940,387, 6-14-60, Cl. 101-183.
- Pritchard, James E., to Phillips Petroleum Co. Putty comprising the reaction product of a quaternizing agent and a conjugated diene-heterocyclic nitrogen base copolymer. 2,920,057, 1-5-60, Cl. 260-41.5.
- Pritchard, James E., and B. Franzus, to Phillips Petroleum Co. Process for the production of xylene glycols. 2,939,886, 6-7-60, Cl. 260-618.
- Pritchard, Peter E., to General Electric Co. Phonograph armature and stylus assembly. 2,937,243, 5-17-60, Cl. 179-100.41.
- Pritchard, Ronald: *See*—
- Saxby, Frank R., and Pritchard. 2,930,530.
- Pritchard, Ross E., and H. W. Hoefler, to Orenda Engines Lt. Brazing of nickel base alloys. 2,957,239, 10-25-60, Cl. 29-488.
- Pritchard, Wilbur L.: *See*—
- Bakura, Joseph, and Pritchard. 2,943,284.
- Pritchett, Ervin G., and H. Greenberg, to National Distillers and Chemical Corp. Polymerization process. 2,951,068, 8-30-60, Cl. 260-94.9.
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- Honey, Eric M. O., Hardy, and Sharp. 2,959,822.
- Pritikin, Nathan. Method of making electrical resistors. 2,927,048, 3-1-60, Cl. 117-215.



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- Pritz, Peter G. Electric toasters. 2,927,523, 3-8-60, Cl. 99-332.
- Pritzbuher, Gustav: *See*—  
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- Privette, Walter R., H. W. Schulz, and D. M. Young, to Union Carbide Corp. Production of 2,5-dialkoxy-tetrahydrofuran. 2,920,081, 1-5-60, Cl. 260-347.8.
- Pro, George M., to Air Placement Equipment Co. Valve mechanism for cement gunning machines. 2,949,275, 8-16-60, Cl. 251-86.
- Prober, Maurice, to General Electric Co. Amide stabilized organopolysiloxane compositions and their preparation. 2,945,838, 7-19-60, Cl. 260-45.9.
- Probert, Walter L., to A. O. Smith, Corp. Speed-torque indicator. 2,940,038, 6-7-60, Cl. 324-70.
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- Probst, Robert L., G. J. Le Brasse, and P. I. Karp, to Federal-Mogul-Bower Bearings, Inc. Method of providing a body with a porous metal shell. 2,946,681, 7-26-60, Cl. 75-208.
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- Klomp, Alfred W. 2,921,450.
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- Process Millers, Inc.: *See*—  
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- Prochaska, Norman E., and R. A. Young, to Cleveland Instrument Co. Positioning device. 2,960,688, 11-15-60, Cl. 340-282.
- Procon Pump & Engineering Co.: *See*—  
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- Procopio, Bruno E. and C. Can assembly. 2,958,440, 11-1-60, Cl. 220-48.
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- Procter & Gamble Co., The: *See*—  
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- Blinka, Joseph, and Henjum. 2,941,948.
- Burt, Robert V. 2,935,827.
- Burt, Robert V. 2,948,376.
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- Clement, Finn, and Sharf. 2,949,621.
- Coskie, Ronald. 2,947,702.
- Davis, Robert P. 2,952,638.
- Gebhardt, Edmund F. 2,930,760.
- Graver, John F. 2,925,946.
- Korpi, Edwin O., and Davis. 2,941,950.
- Martin, John B. 2,961,409.
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- Moreno, Miguel G. 2,930,174.
- Norris, Paul E., and Schweizer. 2,946,725.
- Pettee, Herbert M., and Sabee. 2,930,172.
- St. John, Wayne L., and Griebstein. 2,954,347.
- Schwoppe, Eugene A. 2,954,348.
- Wilson, Eugene R. 2,965,576.
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- Proctor, Barton A., to Proctor Dictating Machine Corp. Dictation machine. 2,930,243, 3-29-60, Cl. 74-27.
- Proctor, Barton A., to Proctor Dictating Machine Corp. Sound recording and reproducing apparatus. 2,933,319, 4-19-60, Cl. 274-11.
- Proctor, Glen E. Insertable tooth edger saw. 2,964,078, 12-13-60, Cl. 144-162.
- Proctor, Harold: *See*—  
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- Proctor & Schwartz, Inc.: *See*—  
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- Powischill, John W., Hine, and Howard. 2,925,184.
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- Proctor-Silex Corp., The: *See*—  
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- Draving, Robert C., and Ward. 2,962,772.
- Riehl, Harmon B., and Hyde. 2,964,801.
- Proctor, William E., Jr., to Leeds and Northrup Co. Plastic salt-bridge junctions. 2,927,887, 3-8-60, Cl. 204-195.
- Proctor Dictating Machine Corp.: *See*—  
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- Proell, Wayne A., E. F. Morello, W. G. Stanley, and R. W. Todd, to Standard Oil Co. Composition for turbojet starter. 2,938,780, 5-31-60, Cl. 52-5.
- Proell, Wayne A., and N. J. Bowman, to Standard Oil Co. Thermoplastic compositions. 2,942,994, 6-28-60, Cl. 106-178.
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- Profos, Paul, to Sulzer Freres, S.A. Method and means for controlling a motor operator. 2,929,390, 3-22-60, Cl. 137-82.
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- Progress Mfg. Co., Inc.: *See*—  
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- Protzen, Armand, to A. B. Wiesing Advokatfirma Lagerlof. Instrument landing system. 2,940,032, 6-7-60, Cl. 318—489.
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- Prouty, Robert E., and C. E. Payne, to Essex Wire Corp. Fuel burner control system. 2,954,080, 9-27-60, Cl. 158—28.
- Provart, Robert, to Electrosnap Corp. Sensing switch. 2,929,897, 3-22-60, Cl. 200—87.
- Provenza, Thomas J. Electrical artificial ejaculator. 2,932,297, 4-12-60, Cl. 128—419.
- Provenzano, Albert. Hair catching device for barber's chair. 2,921,626, 1-19-60, Cl. 155—183.
- Provi, Mike A., to The Brearly Co. Bathroom scales. 2,949,288, 8-16-60, Cl. 265—68.
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- Provoost, Marguerite, and J. Chastel, to Compagnie de Saint-Gobain. Preparation of anhydrous hydrofluoric acid. 2,952,334, 9-13-60, Cl. 183—115.
- Prucha, Richard V., to General Electric Co. Flow restricting device. 2,943,638, 7-5-60, Cl. 137—493.
- Pruchnow, Howard. One piece cord holder. 2,932,072, 4-12-60, Cl. 24—129.
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- Prudential Insurance Co. of America, The: *See*—  
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- Prussin, Samuel B., H. R. Shepherd, and F. Present, to Aerosol Techniques, Inc. Pressurized dispenser. 2,953,284, 9-20-60, Cl. 222—394.
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- Pryale, Harry M., to Baldwin Rubber Co. Sealing apparatus. 2,952,374, 9-13-60, Cl. 215—40.
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- Pschorr, Frank E.: *See*—  
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- Ptasinski, Zdzislaw J.: *See*—  
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- Public, dedicated to the: *See*—  
Holaday, Charles E., Cooke, Marble, and Larrison. 2,934,700.
- Publicker Industries Inc.: *See*—  
Romanovsky, Cyril, and Jordan. 2,920,049.
- Pucci, Emilio, to The Formfit Co. Girdle or like article of apparel. 2,928,397, 3-15-60, Cl. 128—523.
- Pucci, Joseph, and T. J. Ryan. Method of and apparatus for cutting and shaping strip material. 2,942,643, 6-28-60, Cl. 153—2.
- Pucci, Lee, to United Engine & Machine, Inc. Turning machine for forming pistons. 2,924,135, 2-9-60, Cl. 82—19.
- Puccinelli, Alfred R. Roadable boats. 2,960,056, 11-15-60, Cl. 115—1.
- Puccinelli, Sylvio: *See*—  
De Back, William, and Puccinelli. 2,940,493.
- Puccinelli, Sylvio, to Food Machinery and Chemical Corp. Pneumatic peeling arm. 2,927,615, 3-8-60, Cl. 146—43.
- Puccio, Joseph. Towing bumper hitch. 2,938,739, 5-31-60, Cl. 280—502.
- Pucher, Leo E.: *See*—  
Cunningham, William A., and Pucher. 2,931,846.
- Pucher, Walter: *See*—  
Jonasson, Sven, and Pucher. 2,948,791.
- Puckett, Lawrence P., Jr. Anchored tie-down device for rafters. 2,947,119, 8-2-60, Cl. 50—466.
- Pucillo, Gerald L.: *See*—  
Imalis, Oscar, Johnson, and Pucillo. 2,934,631.
- Puckett, Hoyle B., to United States of America, Agriculture. Grain bin unloader. 2,934,224, 4-26-60, Cl. 214—17.
- Puckett, Ralph C., and J. T. O'Toole. Rivet and bolt gage. 2,933,817, 4-26-60, Cl. 33—168.
- Puckett, Ronald G. Water ski attachment. 2,938,220, 5-31-60, Cl. 9—310.
- Puckett, Ronald G. Barbed wire laying device. 2,945,512, 7-19-60, Cl. 140—2.
- Puechbert, Lucien P., to Societe de Fabrication d'Instruments de mesure. Mine device with doppler effect continuous wave radar. 2,943,570, 7-5-60, Cl. 102—19.2.
- Puerner, George O., and D. G. Williams, to P. R. Mallory & Co., Inc. Combination switch and control assembly. 2,958,838, 11-1-60, Cl. 338—172.
- Pueschner, Philip R., and G. P. Lamer, to Drott Mfg. Corp. Overhead loader. 2,936,086, 5-10-60, Cl. 214—140.
- Puett Electrical Starting Gate Corp.: *See*—  
Purcell, John C. 2,955,570.
- Pufahl, Herman and J. Method and apparatus for manufacturing synthetic nets. 2,957,200, 10-25-60, Cl. 18—9.
- Pufahl, Joseph: *See*—  
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- Puff, Margaret H.: *See*—  
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- Puff, Victor A.: *See*—  
Kennard, George J. and I. 2,949,911.
- Puget Sound Pulp and Timber Co.: *See*—  
King, Ellis G., and Adolphson. 2,935,473.  
King, Ellis G., and Adolphson. 2,935,504.
- Puget Sound Salmon Egg Co., Inc.: *See*—  
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- Pugh, Alexander L., Jr.: *See*—  
Stein, Sidney J., and Pugh. 2,958,899.
- Pugh, Ruth W.: *See*—  
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- Pugh, William A., Sr. One-piece carton and sipper straw holder. 2,949,217, 8-16-60, Cl. 229—17.
- Pugi, Kalev: *See*—  
Szulc, Nicholas A., and Pugi. 2,926,885.
- Pugin, André, and M. Hurbin, to J. R. Geigy, A.-G. Dioxazine dyestuffs. 2,954,378, 9-27-60, Cl. 260—246.
- Pugnaire, Jean P., and M. Green, to Baldwin-Lima-Hamilton Corp. Jet engine thrust stand. 2,941,398, 6-21-60, Cl. 73—116.
- Puhr-Westerheide, Jurgen, to The Babcock & Wilcox Co. Superheater support tubes arranged in a row with a manway through the row. 2,956,786, 10-18-60, Cl. 257—230.
- Puhr-Westerheide, Jurgen, and W. Fröse, to The Babcock & Wilcox Co. Method of and apparatus for separating ash and cleaning shot. 2,956,680, 10-18-60, Cl. 209—151.
- Pulaski, John W.: *See*—  
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- Pulaski, John W., and J. F. Gordon, to General Electric Co. Swing-out refrigerator shelf assembly. 2,955,892, 10-11-60, Cl. 312—293.
- Pullen, Edward A.: *See*—  
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- Pullen, Eric V., to Knickerbocker Plastic Co., Inc. Pistol firing holster set. 2,960,790, 11-22-60, Cl. 46—1.
- Pullen, Joe W., R. P. Neighbors, C. F. Clark, O. L. Hoffmann, and A. C. Meunier, to Spencer Chemical Co. Bactericidal and fungicidal compositions comprising pentahalophenyl N-(phenyl)carbamates. 2,951,786, 9-6-60, Cl. 167—30.
- Pullen, Thomas G., III: *See*—  
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- Pullin, William R.: *See*—  
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- Pullman Co., The: *See*—  
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- Pullman Inc.: *See*—  
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- Candlin, James E., Jr. 2,931,319.  
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 Gutridge, Jack E., and Roth. 2,940,403.  
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 Pulsifer, Orville B. Trawling device. 2,945,469, 7-19-60, Cl. 114-235.  
 Pulsifer, Verne, to Olin Mathieson Chemical Corp. Heat exchanger. 2,926,003, 2-23-60, Cl. 257-130.  
 Pulsifer, Verne, to Olin Mathieson Chemical Corp. Continuous casting. 2,955,334, 10-11-60, Cl. 22-57.2.  
 Pulsifer, Verne, to Olin Mathieson Chemical Corp. Casting of metal. 2,956,320, 10-18-60, Cl. 22-57.4.  
 Pulver, Willis C., to Velten & Pulver Inc. Machine for removing covers from containers. 2,932,928, 4-19-60, Cl. 53-67.  
 Puma, Sergio, and A. Monaco; said Monaco assor. to said Puma. Device for holding crane bridges or the like in register with the track. 2,932,260, 4-12-60, Cl. 105-163.  
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 McConnohie, Duane V. 2,950,030.  
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 Punderson, John O., to E. I. du Pont de Nemours and Co. Dehydrogenation of alcohols to aldehydes. 2,939,883, 6-7-60, Cl. 260-603.  
 Punshon, Richard L. Brake controlled magnetic game. 2,952,941, 9-20-60, Cl. 46-240.  
 Punyaratband, Smahn, S. Ogawa, and B. Fujio, to T. Yamura. Teleprinter receiving apparatus. 2,935,562, 5-3-60, Cl. 178-23.  
 Pupke, Henry W., to National Biscuit Co. Cartons. 2,923,454, 2-2-60, Cl. 229-51.  
 Puppolo, Henry F., to Sprague Electric Co. Polytetrafluoroethylene coating of anodized copper wire. 2,928,776, 3-15-60, Cl. 204-28.  
 Puranen, Maunu, to Canadian Airborne Geophysics Ltd. Electromagnetic exploration method. 2,931,973, 4-5-60, Cl. 324-6.  
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 Purcell, Arthur L. Walking iron for plaster cast. 2,966,154, 12-27-60, Cl. 128-83.5.  
 Purcell, Edward M., to The Perkin-Elmer Corp. Magnetic filter. 2,962,636, 11-29-60, Cl. 317-158.  
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 Purdy, Bruce B., and E. M. Jenkel. Beat line control for looms. 2,951,508, 9-6-60, Cl. 139-105.  
 Purdy, Frederick A. Doors. 2,926,727, 3-1-60, Cl. 160-189.  
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 Perry, Donald S., Kaiser, and Purdy. 2,960,881.  
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- Annable, Weldon G., and Haines. 2,938,862.  
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 Ayers, George W. 2,960,412.  
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 Ayers, George W., and Krewer. 2,956,014.  
 Ayers, George W., and Krewer. 2,960,548.  
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 Ayers, George W., Krewer, Martinek, and Hutchings. 2,954,896.  
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 Bell, Richmond T. Re. 24,796.  
 Bernard, George G. 2,935,475.  
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 Bernard, George G. 2,950,760.  
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 Bowden, John N., and Chapman. 2,939,843.  
 Braunwarth, John B., and Crosby. 2,933,525.  
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 Brennan, Elmer W. 2,921,027.  
 Brennan, Elmer W., Fronczak, and Martinek. 2,965,567.  
 Carr, Norman L. 2,943,127.  
 Carr, Norman L. 2,951,803.  
 Carr, Norman L. 2,951,888.  
 Carr, Norman L., and Beber. 2,965,561.  
 Crosby, Gifford W., Millikan, and Brennan. 2,948,682.  
 Fierce, William L., and Sandner. 2,942,946.  
 Fierce, William L., and Sandner. 2,951,744.  
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 Folkins, Hillis O. 2,956,002.  
 Folkins, Hillis O., and Geerts. 2,926,207.  
 Folkins, Hillis O., and Lucas. 2,939,894.  
 Folkins, Hillis O., Lucas, and Miller. 2,951,887.  
 Folkins, Hillis O., and Miller. 2,937,214.  
 Folkins, Hillis O., and Miller. 2,951,872.  
 Folkins, Hillis O., and Miller. 2,951,873.  
 Folkins, Hillis O., Miller, and Lucas. 2,925,453.  
 Folkins, Hillis O., Miller, and Lucas. 2,943,128.  
 Folkins, Hillis O., Miller, and O'Malley. 2,921,024.  
 Forrest, Walter A. 2,964,939.  
 Fronczak, Ernest T. 2,939,840.  
 Garrity, Thomas A., Jr. 2,928,179.  
 Geerts, Marcelus J., and Folkins. 2,951,889.  
 Hennig, Harvey. 2,947,683.  
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 Holm, Le Roy W. 2,921,023.  
 Holm, Le Roy W. 2,931,771.  
 Holm, Le Roy W., and Folkins. 2,921,025.  
 Holm, LeRoy W., and Folkins. 2,963,419.  
 Hutchings, Le Roi E. 2,936,283.  
 Hutchings, Le Roi E. 2,942,411.  
 Hutchings, Le Roi E. 2,946,735.  
 Hutchings, Le Roi E., and Remes. 2,937,213.  
 Krewer, William A., and Remes. 2,956,088.  
 Lindahl, Harold A. 2,959,629.  
 Lindahl, Harold A. 2,963,428.  
 Lindahl, Harold A., and Hennig. 2,927,128.  
 Manteuffel, Allan A., Ayers, and Gilson. 2,929,778.  
 Marsh, Glenn A., and Schaschl. 2,927,068.  
 Marsh, Glenn A., and Schaschl. 2,936,884.  
 Marsh, Glenn A., and Schaschl. 2,946,952.  
 Marsh, Glenn A., and Schaschl. 2,956,225.  
 Marsh, Glenn A., and Chamberlain. 2,964,941.  
 Martinek, Thomas W. 2,957,826.  
 Martinek, Thomas W., Brennan, and Fronczak. 2,959,543.  
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 Remes, Nathaniel L., and Ayers. 2,948,669.  
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 Wesolowski, Edmund. 2,946,891.  
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 Purifoy, George R., to Westinghouse Electric Corp. Dynamic-brake control-systems. 2,933,667, 4-19-60, Cl. 318-60.  
 Purifoy, George R., to Westinghouse Electric Corp. Traction-motor control. 2,965,825, 12-20-60, Cl. 318-93.  
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 Hammond, John H., Jr., and Purington. 2,961,481.



- Purington, Paul G., to The Shaw-Walker Co. Filing containers. 2,953,246, 9-20-60, Cl. 206-79.
- Puriron and Chemicals, Inc.: *See*—  
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- Puritan Compressed Gas Corp.: *See*—  
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- Purkett Mfg. Co.: *See*—  
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- Purkhiser, Rawlins E., to Air Reduction Co., Inc. Electronically controlled time delay apparatus. 2,950,422, 8-23-60, Cl. 317-142.
- Purulator Products, Inc.: *See*—  
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Steinberg, Morris A. 2,957,235.  
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- Purpura, August C., to Sunbeam Corp. Electric time and heat controlled frying pan. 2,927,189, 3-1-60, Cl. 219-44.
- Purpura, Ernest, and A. J. Ruscito, to Sprague Electric Co. Universal terminal. 2,935,727, 5-3-60, Cl. 339-278.
- Purpura, Frank D.: *See*—  
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- Purse, Frank V., to Universal Oil Products Co. Distributing grid. 2,934,411, 4-26-60, Cl. 23-288.
- Purse, Frank V., and E. A. Young, to Universal Oil Products Co. Rotary drive mechanism. 2,948,166, 8-9-60, Cl. 74-822.
- Pursglove, Laurence A., to The Dow Chemical Co. Preparation of N-(2-cyanoethyl) amide compounds. 2,927,126, 3-1-60, Cl. 260-465.
- Pursglove, Laurence A., to The Dow Chemical Co. Iodotoly benzoates. 2,965,673, 12-20-60, Cl. 260-476.
- Purvance, William T., to United States Steel Corp. Method for agglomerating iron ore fines. 2,958,596, 11-1-60, Cl. 75-3.
- Purzycki, Alfred Z., to Teletype Corp. Hermetically sealed contact signal generator. 2,963,545, 12-6-60, Cl. 178-17.
- Pusey, John J. Bird bath and plant holder. 2,941,502, 6-21-60, Cl. 119-1.
- Putz, Ruben W.: *See*—  
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- Putkovich, Rudy P., and T. M. Corry, to Westinghouse Electric Corp. Electrical power supplies. 2,937,298, 5-17-60, Cl. 313-108.
- Putman, John L., to United States of America, Atomic Energy Commission. Method and apparatus for testing the presence of specific atomic elements in a substance. 2,922,886, 1-26-60, Cl. 250-71.
- Putnam, Hamilton W.: *See*—  
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- Putsch, Firma C. Gustav: *See*—  
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- Putsch, Karl, and H. Schmeisser, to Firma C. Gustav Putsch. Tongs with adjustable-friction joint. 2,939,215, 6-7-60, Cl. 30-266.
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- Putter, Irving: *See*—  
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- Puttre, Ferdinand. Safety mechanism for hanging scaffolds. 2,939,550, 6-7-60, Cl. 188-65.1.
- Putz, Hans, to Joh. Vaillant, K.G. Gas tap mechanism. 2,936,784, 5-17-60, Cl. 137-630.22.
- Putz, Willard V.: *See*—  
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- Pyclope, Inc.: *See*—  
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- Pye, David J., to The Dow Chemical Co. Polymer composition and method. 2,960,486, 11-15-60, Cl. 260-45.7.
- Pye, David J., and R. A. Crane, to The Dow Chemical Co. Viscometer. 2,927,457, 3-8-60, Cl. 73-59.
- Pye, David J., and G. F. Schurz, to The Dow Chemical Co. Continuous gas-lift ion-exchange process and apparatus. 2,959,542, 11-8-60, Cl. 210-33.
- Pye Ltd.: *See*—  
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Cass, Wilfred R. 2,962,801.  
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- Pyknen, George R., to Variety Mfg. & Engineering Co., Inc. Means for locking and unlocking doors. 2,932,536, 4-12-60, Cl. 292-21.
- Pyle-National Co., The: *See*—  
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- Pyles, Russell, to Van Der Horst Corp. of America. Apparatus for electroplating bearing surfaces of a crankshaft. 2,931,764, 4-5-60, Cl. 204-212.
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- Pyne, William J., I. Rosen, and H. Bluestone, to Diamond Alkali Co. 2-chloro-substituted tetrahydrothiophene oxides, and composition containing the same. 2,939,871, 6-7-60, Cl. 260-332.5.
- Pyper, Philip M. Key lever. 2,924,961, 2-16-60, Cl. 70-456.
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- Quackenbush, Edward C., to The Whitney Blake Co. Connector construction. 2,945,203, 7-12-60, Cl. 339-59.
- Quackenbush, Edward C., to The Whitney-Blake Co. Electrical connector manufacture. 2,949,641, 8-23-60, Cl. 18-59.
- Quackenbush, Robert C. Muffler construction for portable pneumatic tool. 2,966,138, 12-27-60, Cl. 121-35.
- Quade, Edward A., to International Business Machines Corp. Digital position indicator. 2,931,023, 3-29-60, Cl. 340-347.
- Quade, Edward A., to International Business Machines Corp. Storage device. 2,939,118, 5-31-60, Cl. 340-174.
- Quade, Edward A., to International Business Machines Corp. Magnetic storage device. 2,951,241, 8-30-60, Cl. 340-174.
- Quadflieg, Therése, to Nitraglycerin Aktiebolaget. Process for producing N-trinitroethyl urethanes, amides and ureas. 2,950,312, 8-23-60, Cl. 260-482.
- Quadruga Mfg. Co., The: *See*—  
Cox, William J., and Dreher. 2,948,322.
- Quaedvlieg, Mathieu: *See*—  
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- Quail, Bernard W., to Specialties Development Corp. Seal for reciprocating valve. 2,938,704, 5-31-60, Cl. 251-172.
- Quain, Wilbur C.: *See*—  
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- Quaker Chemical Products Corp.: *See*—  
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- Quaker Oats Co., The: *See*—  
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- Quaker-Stretcher Co.: *See*—  
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- Quality Components, Inc.: *See*—  
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- Qualley, Ray W.: *See*—  
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- Qualman, Jack W.: *See*—  
Beck, Ralph F., and Qualman. 2,964,959.
- Quandt, Robert S., to Corning Glass Works. Pouring vessel. 2,937,794, 5-24-60, Cl. 222-473.
- Quarmby, Eric, and H. A. Richardson, to Metropolitan-Vickers Electrical Co. Ltd. Electronic circuit arrangements. 2,928,984, 3-15-60, Cl. 315-22.
- Quarmby, Robert C.: *See*—  
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Makovski, Stephen A., and Quarmby. 2,929,066.
- Quartier, Harry C. Annularly spaced oscillating piston engine. 2,938,505, 5-31-60, Cl. 123-15.
- Quartz Products Corp.: *See*—  
Gialanella, Joseph A. 2,951,928.
- Quartz & Silice S.A.: *See*—  
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- Quarzlampen Gesellschaft m.b.H.: See—  
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- Quast, Gilbert W.: See—  
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- Quate, Calvin F.: See—  
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- Quate, Calvin F., to Bell Telephone Laboratories, Inc. Low noise velocity modulation tube. Re. 24,794, 3-15-60, Cl. 315-3.5.
- Quate, Calvin F., to Bell Telephone Laboratories, Inc. Electron beam systems. 2,951,964, 9-6-60, Cl. 315-3.6.
- Quayle, George F., to The Yale & Towne Mfg. Co. Ram mounting for lift truck. 2,936,045, 5-10-60, Cl. 187-9.
- Quayle, George F., to The Yale & Towne Mfg. Co. Lift truck. 2,936,047, 5-10-60, Cl. 187-9.5.
- Quayle, George F., to The Yale & Towne Mfg. Co. Light duty hydraulic truck. 2,940,767, 6-14-60, Cl. 280-43.12.
- Quayle, George F., to The Yale & Towne Mfg. Co. Hose guide for lift truck. 2,941,684, 6-21-60, Cl. 214-652.
- Quayle, George F., to The Yale & Towne Mfg. Co. Rubber suspended articulating axle for industrial truck. 2,947,549, 8-2-60, Cl. 280-112.
- Quayle, George F., to The Yale & Towne Mfg. Co. Load clamp for industrial truck. 2,956,700, 10-18-60, Cl. 214-655.
- Quebec Iron and Titanium Corp.: See—  
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- Quebec Metallurgical Industries Ltd.: See—  
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- Quednan, Walter C., Acme Steel Co. Anvil construction. 2,962,720, 12-6-60, Cl. 1-2.
- Queen, Levina B. Restraining jacket. 2,927,581, 3-8-60, Cl. 128-134.
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- Queeny, Edgar M., to Monsanto Chemical Co. Method of fertilizing, using yellow phosphorus. 2,947,269, 8-2-60, Cl. 111-80.
- Queneau, Paul E., S. C. Townshend, and R. S. Young, to The International Nickel Co., Inc. Treatment of nickel-containing sulfide ores. 2,944,883, 7-12-60, Cl. 75-5.
- Quenneville, Raymond N., to United Aircraft Corp. Clutch mechanism for aircraft engine starter. 2,937,730, 5-24-60, Cl. 192-103.
- Quenneville, Raymond N., and E. K. Moore, to United Aircraft Corp. Pressure relief valve. 2,920,790, 1-12-60, Cl. 220-89.
- Quercia, Marcel, to Societe d'Etudes et de Recherches Techniques. Lighters. 2,948,134, 8-9-60, Cl. 67-7.1.
- Querfurth, Wilhelm: See—  
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- Querfurth, Wilhelm M. W., to Motorola, Inc. Motor speed governor. 2,938,974, 5-31-60, Cl. 200-80.
- Quermann, Thomas R., to United Aircraft Corp. Buoyed rate gyroscope. Re. 24,829, 5-31-60, Cl. 74-5.5.
- Quick, George R., to ACF Industries, Inc. Simulated turn and bank indicator. 2,944,348, 7-12-60, Cl. 35-12.
- Quick, Lester K. Refrigerant flow control apparatus. 2,953,906, 9-27-60, Cl. 62-81.
- Quick, Lester K. Refrigerated showcases. 2,960,844, 11-22-60, Cl. 62-150.
- Quick, Robert G., to Flight Research, Inc. Control systems for power devices. 2,935,661, 5-3-60, Cl. 317-148.5.
- Quick, Robert G., to Flight Research, Inc. Photoelectrically controlled devices. 2,956,492, 10-18-60, Cl. 95-64.
- Quigg, Harold T., to Phillips Petroleum Co. Means of studying oil consumption in an engine. 2,957,986, 10-25-60, Cl. 250-43.5.
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- Quimby, Ralph A.: See—  
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- Quimby, Robert S., to Raytheon Co. High reactance transformers. 2,944,208, 7-5-60, Cl. 323-48.
- Quin, James P., to Imperial Chemical Industries Ltd. Manufacture of titanium. 2,944,888, 7-12-60, Cl. 75-84.5.
- Quinby, Charles E., to Holley Carburetor Co. Maximum speed limiter. 2,941,538, 6-21-60, Cl. 137-48.
- Quinche, Albert: See—  
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- Quinlan, Joseph W., to General Motors Corp. Engine starting control system. 2,934,054, 4-26-60, Cl. 123-179.
- Quinlan, William J., and A. W. Jeffs, to American Cyanamid Co. Treatment of alkylation interphase. 2,966,530, 12-27-60, Cl. 260-668.
- Quinn, Bert A. Pneumatic door closer device. 2,932,847, 4-19-60, Cl. 16-66.
- Quinn, Charles A.: See—  
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- Quinn, Edward, to United Shoe Machinery Corp. Machines for fastening strips to other work. 2,954,748, 10-4-60, Cl. 112-46.
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- Quinn, Edward, and W. D. McKeon, to United Shoe Machinery Corp. Heel end assembling and breast line lasting machines. 2,965,909, 12-27-60, Cl. 12-1.
- Quinn, Francis P., and W. F. Shepard, to American Steel Foundries. Combined rubber and friction shock absorbing mechanism for railway cars. 2,933,200, 4-19-60, Cl. 213-22.
- Quinn, Halsey P., to Tung-Sol Electric Inc. Circuit for Geiger counters. 2,948,812, 8-9-60, Cl. 250-83.6.
- Quinn, Harry J. Damper for lithographic press. 2,961,948, 11-29-60, Cl. 101-148.
- Quinn, James A., to The Sperry Rand Corp. Electromechanical analog differentiating device. 2,928,602, 3-15-60, Cl. 235-183.
- Quinn, James D.: See—  
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- Quinn, James M., and T. A. Lundbergh; said Lundbergh assor. to said Quinn. Treatment of molten metals. 2,952,534, 9-13-60, Cl. 75-45.
- Quinn, John F., and M. A. Terpstra, to Monsanto Chemical Co. Preparation of cyclohexane methylamine. 2,945,063, 7-12-60, Cl. 260-563.
- Quinn, John H., Jr.: See—  
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- Quinn, Marvin W. Valve linkage for steam engine. 2,927,559, 3-8-60, Cl. 121-169.
- Quinones, Luis, and R. Rodriguez, 33% to H. Jacobson, 33% to said Quinones, 33% to said Rodriguez and 1% to jointly. Ornamented spectacles. 2,960,787, 11-22-60, Cl. 41-34.
- Quintard, Raymond A., to Cie Massey-Harris-Ferguson. Hydraulic power unit and control. 2,964,014, 12-13-60, Cl. 121-39.
- Quintilian, Bartholomew F., to Gerotor May Corp. of Maryland. Hydraulic transmission. 2,936,589, 5-17-60, Cl. 60-53.
- Quintin, Albert A. J., to Compagnie des Metaux d'Overpelt-Lommel et de Corphalie, S.A. Treatment of ores or the like. 2,928,729, 3-15-60, Cl. 75-14.
- Quioque, Virgilio J., to Burroughs Corp. Signal generator control circuit. 2,942,237, 6-21-60, Cl. 340-149.
- Quiquerez, Joseph: See—  
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- Quirin, Edward J. Drilling structures. 2,941,369, 6-21-60, Cl. 61-46.5.
- Quirk, Robert W., to Hughes Aircraft Co. Rapid acceleration driving mechanisms. 2,943,852, 7-5-60, Cl. 271-2.3.
- Quist, Alfred C., to Shell Process, Inc. Liquid adhesive depositor for shell molds. 2,961,946, 11-29-60, Cl. 101-123.
- Quist, Harold A., to Sun Oil Co. Liquid level electrical indicator. 2,936,623, 5-17-60, Cl. 73-313.
- Quist, Harold A., to Sun Oil Co. Pressure operated liquid level measuring device. 2,947,170, 8-2-60, Cl. 73-31.
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- R.F.D. Co. Ltd.: See—  
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- RIV Officine di Villar Perosa Societa per Azioni: See—  
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- RMR Corp.: See—  
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- Raab, Andrew F., to Carter Parts Co. Push button switch. 2,921,170, 1-12-60, Cl. 200-159.
- Raab, Carl, and J. H. Brems, to Expert Die & Tool Co., Inc. Press table. 2,954,847, 10-4-60, Cl. 187-17.
- Raab, Hans: See—  
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- Raab, Herman P., Jr., and R. L. Haynes, to United States of America, Navy. Gas tube circuit. 2,958,011, 10-25-60, Cl. 315-350.
- Raabe, Herbert P. Microfilm viewing and storage apparatus. 2,963,940, 12-13-60, Cl. 88-24.
- Raamot, Jaan, to Western Electric Co., Inc. Pulsing system. 2,945,185, 7-12-60, Cl. 328-199.
- Raasch, Floyd D., to Minneapolis-Honeywell Regulator Co. Analogue to digital conversion apparatus. 2,950,469, 8-23-60, Cl. 340-347.



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- Rabben, Ellis L., 10% to H. L. Gordon. Foldable stereoscopic vision testing device. 2,930,286, 3-29-60, Cl. 88-29.
- Rabe, Ernest C. Scouring device. 2,923,019, 2-2-60, Cl. 15-136.
- Rabe, Karl, to Firma Dr. Ing. h.c.F. Porsche K.G. Motor vehicle wheel. 2,927,822, 3-8-60, Cl. 301-6.
- Rabe, Karl, and K. Ruoff, to Dr. Ing. Porsche, h.c.F., K.G. Auxiliary steering arrangement for tractors. 2,955,833, 10-11-60, Cl. 280-87.
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- Rabenda, Edward J., to International Business Machines Corp. Accumulating reproducer. 2,928,594, 3-15-60, Cl. 235-61.6.
- Raber, Anna S.: *See—*  
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- Rabier, Jean C., to The Marquardt Corp. Voltage comparator. 2,958,823, 11-1-60, Cl. 324-133.
- Rabier, Jean C., to The Marquardt Corp. Radio landing system. 2,958,865, 11-1-60, Cl. 343-108.
- Rabin, Charles. Combination brake and accelerator. 2,920,727, 1-12-60, Cl. 192-3.
- Rabin, Charles. Arm fins for underwater swimming. 2,947,010, 8-2-60, Cl. 9-307.
- Rabin, Richard, to Sperry Rand Corp., Ford Instrument Co. Division. Radar target classification system. 2,929,047, 3-15-60, Cl. 340-149.
- Rabin, Richard, and K. Merl, to Sperry Rand Corp., Ford Instrument Co. Division. Pre-trigger generator. 2,935,609, 5-3-60, Cl. 250-27.
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- Rabinow, Jacob, to United States of America, Army. Turbo-generator system. 2,920,568, 1-12-60, Cl. 102-70.2.
- Rabinow, Jacob, to United States of America, Navy. Fuze safety device. 2,921,524, 1-19-60, Cl. 102-70.2.
- Rabinow, Jacob, 15% to M. L. Libman. Reading machine. 2,933,246, 4-19-60, Cl. 235-61.11.
- Rabinow, Jacob, to United States of America, Army. Free flight arming device. 2,934,020, 4-28-60, Cl. 102-84.
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- Rabinow, Jacob. Electromechanical apparatus. 2,954,859, 10-4-60, Cl. 192-84.
- Rabinow, Jacob, to United States of America, Commerce. Conveyor-belt sorters. 2,961,093, 11-22-60, Cl. 209-74.
- Rabinow, Jacob, and W. B. McLean, to United States of America, Navy. Inertia switch. 2,920,157, 1-5-60, Cl. 200-61.48.
- Rabinow, Jacob, E. C. Bailey, and F. H. Shepard, Jr., to United States of America, Navy. Servo control mechanism. 2,935,900, 5-10-60, Cl. 74-788.
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- Race, William J., to Motorola, Inc. Controls for radio receiver. 2,953,927, 9-27-60, Cl. 74-102.7.
- Rachford, Henry H., Jr., to Jersey Production Research Co. Process for determining fluids in beds traversed by drill holes. 2,951,367, 9-6-60, Cl. 73-154.
- Rachlin, Albert I.: *See—*  
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- Rachman, Isadore B., and S. Bobb, to H & L Realty Corp. Extension leaf for folding table. 2,942,921, 6-28-60, Cl. 311-103.
- Rachman, Isadore B., and S. Bobb, to H & L Realty Corp. Wheeled base for electrical instrument or the like. 2,943,243, 6-28-60, Cl. 317-99.
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- Rack, Alois J., to Bell Telephone Laboratories, Inc. Transistor trigger networks. 2,934,657, 4-26-60, Cl. 307-88.5.
- Rack, Alois J., to Bell Telephone Laboratories, Inc. Pulse code device. 2,957,943, 10-25-60, Cl. 178-43.5.
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- Racz, Tibor. Motion transmitting device. 2,932,975, 4-19-60, Cl. 74-86.
- Rada, Frank J., and R. M. Goodwin, to General Motors Corp. Lamp aim correction device. 2,922,259, 1-26-60, Cl. 51-134.
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- Radcliffe, Arthur J., Jr., and A. R. Denz, to International Telephone and Telegraph Corp. Direct-current transistor switching amplifier circuit. 2,926,267, 2-23-60, Cl. 307-88.5.
- Radcliffe, Arthur J., Jr., to International Telephone and Telegraph Corp. Anode-follower amplifier. 2,934,713, 4-26-60, Cl. 330-111.
- Radcliffe, Arthur J., Jr., M. Ribner, and W. V. Sayner, to International Telephone and Telegraph Corp. Relayless line circuit and call distributing system. 2,962,557, 11-29-60, Cl. 179-18.
- Radcliffe, Arthur J., Jr., and A. R. Denz, to International Telephone and Telegraph Corp. Signal system including a diode limiter. 2,964,650, 12-13-60, Cl. 307-88.5.
- Radcliffe, George E., to The Coca-Cola Bottling Works Co. Coin operated vending machine. 2,956,661, 10-18-60, Cl. 194-10.
- Raddin, Franklin, to Monroe Calculating Machine Co. Electrical connectors. 2,956,258, 10-11-60, Cl. 339-75.
- Raddin, Harry A., and D. L. Johnson, to Miller Hoff, Inc. Caul board separator. 2,930,078, 3-29-60, Cl. 18-2.
- Radek, John. Shelves and adjustable partitions therefor. 2,933,195, 4-19-60, Cl. 211-153.
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- Rader, William H., to National Distillers and Chemical Corp. Ethylene polymerization process. 2,964,515, 12-13-60, Cl. 260-94.9.
- Radford, Matthew F., to Marconi's Wireless Telegraph Co. Ltd. Wide band aerial. 2,964,748, 12-13-60, Cl. 343-895.
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 Briggs, George R. 2,963,687.  
 Brock, Frank M. 2,948,862.  
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 Carlson, David J. 2,950,383.  
 Carson, Benjamin E. 2,927,794.  
 Chandler, Charles H. 2,924,707.  
 Chang, Kern K. N. 2,945,153.  
 Chang, Kern K. N. 2,964,671.  
 Clay, Burton R. 2,963,607.  
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 Cohen, Robert M. 2,934,703.  
 Cooke, Harry L. 2,921,136.  
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 Covely, Frank D., 3rd. 2,957,941.  
 Covely, Frank D., 3rd, and Haining. 2,944,253.  
 Covely, Frank D., 3rd, and Stocker. 2,951,236.  
 Cox, Richard W., and Pollack. 2,964,979.  
 Crane, Hewitt D., and Lo. 2,962,601.  
 Cuccia, Carmen L. 2,940,006.  
 Darling, Woodrow. 2,934,640.  
 Davidson, James J., and Link. 2,958,770.  
 Davis, Joseph A. 2,920,003.  
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 De Backer, Lucien P. A. 2,937,305.  
 Del Valle, Guillermo A. 2,927,553.  
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 De Witt, Clayton C. 2,932,522.  
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 Edwards, Norman E. 2,930,991.  
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 Enander, Bengt N. 2,964,669.  
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 Feryszka, Max. 2,935,555.  
 Finkelstein, Morris B., and Goodrich. 2,926,284.  
 Flechtner, Donald, and Eckel. 2,941,188.  
 Ford, John R., Kruger, and Perkel. 2,947,989.  
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 George, Ralph W. 2,926,315.  
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 Giaimo, Edward C., Jr. 2,930,351.  
 Giaimo, Edward C., Jr. 2,939,787.  
 Giaimo, Edward C., Jr. 2,956,487.  
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 Gibson, Walter G., and Schroeder. 2,921,128.  
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 Goldberg, Edwin A., and Vance. 2,933,254.  
 Goldstein, Norman R. 2,942,099.  
 Goodrich, Hunter C. 2,933,641.  
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 Goodrich, Hunter C. 2,956,118.  
 Gray, George W., and Pike. 2,943,306.  
 Greig, Harold G. 2,963,365.  
 Griffiths, William C., Jr., and Smith. 2,951,172.  
 Grundmann, Gustave L., and Sonnenfeldt. 2,921,121.  
 Guerber, Howard P. 2,935,732.  
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 Haggai, Theodore F., and Shoup. 2,927,268.  
 Hall, James R. 2,930,851.  
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 Holmes, David D. 2,920,189.  
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 Hoover, Merle V. 2,928,026.  
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 Kidd, Marshall C. 2,921,206.  
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 Kihn, Harry. 2,951,245.  
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 Kissinger, Richard D., and Maile. 2,950,568.  
 Kleinman, Bernard. 2,943,228.  
 Knechtli, Ronald C. 2,935,636.  
 Koch, Winfield R. 2,925,541.  
 Koch, Winfield R. 2,935,607.  
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 Krugman, Leonard M. 2,939,000.  
 Kurshan, Jerome. 2,940,024.  
 Lakatos, Louis L. 2,930,891.  
 Lampert, Murray A. 2,928,056.  
 Lappin, Lester S. 2,922,142.  
 Larach, Simon. 2,925,532.  
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 Larky, Norbert D., and Cuccia. 2,952,736.  
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 Lauriello, John P. 2,946,682.  
 Lazzeri, Angelo G. 2,938,188.  
 Levene, Martin L. 2,949,596.  
 Lewinter, Sidney W. 2,965,770.  
 Lewis, Edwin S. 2,965,898.  
 Leyton, Eric M. 2,930,842.  
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 Liebscher, Arthur. 2,921,117.  
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 Lin, Hung C. 2,934,641.  
 Lindsay, James E. 2,955,257.  
 Lo, Arthur W. 2,920,215.  
 Lo, Arthur W. 2,941,090.  
 Lockhart, Robert K. 2,938,073.  
 Loferski, Joseph J. 2,929,859.  
 Luck, David G. C. 2,933,243.  
 Lurcott, Eugene G., Jr., and Dobren. 2,959,750.  
 Luther, Arch C., Jr. 2,924,648.  
 Luther, Arch C., Jr. 2,965,705.  
 Macovski, Albert. 2,921,122.  
 Macovski, Albert. 2,938,072.  
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 Magnusson, Knut J. 2,959,095.  
 Mahler, Joseph. 2,962,669.  
 Marshall, Thomas G., Jr. 2,958,003.  
 Martin, William E. 2,930,935.  
 Metzger, Sidney. 2,925,469.  
 Metzger, Sidney. 2,930,847.  
 Meyerhofer, Dietrich. 2,956,217.  
 Miller, Louis D., and Dymacek. 2,951,962.  
 Moodey, Hannah C. 2,957,106.  
 Morgan, Adolph R. 2,920,140.  
 Morgan, Adolph R. 2,935,728.  
 Mueller, Charles W. 2,929,885.  
 Mueller, Charles W. 2,932,594.  
 Murakami, Tomomi, and Vonderschmitt. 2,964,674.  
 Murphy, John J., and Lundgren. 2,935,706.  
 Nekt, Anthony G., and Shrader. 2,950,411.  
 Nergaard, Leon S. 2,955,227.  
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 Neumann, Karl L., and Schneider. 2,948,808.  
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 Nicoll, Frederick H. 2,929,934.  
 Nilssen, Ole K. 2,922,962.  
 Norton, Lowell E. 2,965,795.  
 Nubani, Jawdat I. 2,956,374.  
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 Olive, George A. 2,944,228.  
 Ollendorf, Joel, and Meisel. 2,965,962.  
 Olson, Harry F. 2,964,272.  
 Pan, Wen Y. 2,959,743.  
 Pankove, Jacques I. 2,937,960.  
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 Patrick, Norman W., and Sanford. 2,931,938.  
 Pensak, Louis. 2,962,639.  
 Pessel, Leopold. 2,933,386.  
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 Peter, Rolf W. 2,925,515.  
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 Rajchman, Jan A. 2,927,307.  
 Rajchman, Jan A. 2,928,894.  
 Rajchman, Jan A. 2,962,701.  
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 Redfield, George E. 2,943,861.  
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 Rhodes, Roland N. 2,956,202.  
 Rhodes, Roland N. 2,964,588.  
 Rivas, Luis A. F. 2,926,337.  
 Robson, Eric R. 2,959,643.  
 Rose, Arnold S. 2,943,005.  
 Rose, George M., Jr. 2,962,619.  
 Rosenberg, Milton. 2,920,191.  
 Rosencrans, Charles A. 2,932,734.  
 Rotow, Alexander A., and Dymacek. 2,942,132.  
 Rush, Joseph A., and Lurcott. 2,953,679.  
 Sachtleben, Lawrence T. 2,961,920.  
 Saeger, Waldemar. 2,920,239.  
 Schade, Otto H., Jr. 2,932,758.  
 Schaefer, Louis F. 2,951,896.  
 Schmitt, Edward J. 2,925,589.  
 Schroeder, Alfred C. 2,946,846.  
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 Schwartz, James W. 2,921,119.  
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 Stanley, Thomas O. 2,964,673.  
 Stavrakis, Alexander V., and Kennedy. 2,928,620.  
 Steele, Martin C. 2,933,160.  
 Sterzer, Fred. 2,955,225.  
 Stoeckert, Alvin J. 2,960,620.  
 Stott, Harold B. 2,950,356.  
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 Strickland, Kenneth T. 2,942,256.  
 Sublette, Ivan H., and Bensky. 2,925,588.  
 Sublette, Ivan H., and Helbig. 2,952,838.  
 Sziklai, George C. 2,966,632.  
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 Thomas, Lucius P., Jr. 2,943,146.  
 Thompson, Roger D. 2,962,546.  
 Torre, Alton J. 2,927,957.  
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 Trevor, Bertram A. 2,957,074.  
 Ulay, Russell R. 2,956,875.  
 Umbreit, Stanton. 2,950,993.  
 Uritis, Joseph M. 2,957,049.  
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 Vance, Arthur W. 2,927,734.  
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 Weimer, Paul K. 2,963,604.  
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 Radley, Sidney A., and P. Spergel, to Industrial Nucleonics Corp. Cigarette making apparatus. 2,954,775, 10-4-60, Cl. 131-21.  
 Radley, Sidney A., and P. Spergel, to Industrial Nucleonics Corp. Evaluation computer. 2,965,300, 12-20-60, Cl. 235-193.  
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 Radtke, Edward W., and T. P. Farkas, to United Aircraft Corp. Temperature responsive transducer. 2,946,509, 7-26-60, Cl. 236-87.  
 Radu, George A., Jr. Method for producing ingot mold stool. 2,922,207, 1-26-60, Cl. 22-193.  
 Rady, William J., to General Motors Corp. Generator regulation. 2,920,262, 1-5-60, Cl. 322-28.  
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 Raech, Harry, Jr., and E. P. McArdle, to United States of America, Army. Safety arming device for explosive missiles. 2,960,037, 11-15-60, Cl. 102-76.  
 Raehs, Wilhelm J., and H. Rauchmann. Aerosol valve. 2,949,243, 8-16-60, Cl. 239-579.  
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 Rafferty, Christopher A., to Bendix Aviation Corp. Pitch control system for aircraft. 2,949,257, 8-16-60, Cl. 244-77.  
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- Rager, Edgar A., W. T. Davis, and F. F. Day. Emergency braking mechanism for trucks and trailers. 2,963,119, 12-6-60, Cl. 188-106.
- Ragon, Eleanor A., 50% to E. Scalzitti. Body positioning apparatus for bladder catheterization. 2,926,977, 3-1-60, Cl. 311-6.
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- Raguse, Dominick. Watch holding swivel case. 2,924,364, 2-9-60, Cl. 224-4.
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- Rahn, Richard C.: See—  
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- Rahn, Rudolph J., to Rahn Granite Surface Plate Co. Surface plate calibration. 2,947,083, 8-2-60, Cl. 33-1.
- Rala, Louis, to Wilmette Screw Products. Telescopic stand. 2,957,187, 10-25-60, Cl. 5-317.
- Raible, Albert O. Machine for producing a facsimile reproduction. 2,925,464, 2-16-60, Cl. 178-6.6.
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Holstein, Frederick W. 2,960,159.
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- Railsback, Henry E., to Phillips Petroleum Co. Heat-sealable linings for pneumatic tires and the like. 2,935,109, 5-3-60, Cl. 152-347.
- Railsback, Henry E., and W. B. Reynolds, to Phillips Petroleum Co. Inhibition of mold corrosion for quaternized polymers. 2,956,043, 10-11-60, Cl. 260-45.7.
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- Rail-Trailer Co., The: See—  
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Hruby, John O., Jr. 2,954,171.  
Hruby, John O., Jr. 2,955,764.  
Hruby, John O., Jr. 2,963,264.
- Rainar, Robert J., to Armstrong Cork Co. Method of making resilient smooth-surfaced floor covering materials. 2,961,029, 11-22-60, Cl. 154-25.
- Rainbow, Horace S., to Armstrong Siddeley Motors Ltd. Ducting structure for by-pass turbo-jet engines. 2,923,125, 2-2-60, Cl. 60-35.6.
- Rainbow, Horace S., to Armstrong Siddeley Motors Ltd. Anti-icing means for a gas turbine engine of an aircraft. part of a fluid flow duct. 2,924,934, 2-16-60, Cl. 60-35.6.
- Rainbow, Horace S., to Armstrong Siddeley Motors Ltd. Means for varying the effective cross-sectional area of one 2,927,725, 3-8-60, Cl. 230-132.
- Raine, Thomas, and J. A. Robinson, to Metropolitan-Vickers Electrical Co. Ltd. Zirconium alloys. 2,924,518, 2-9-60, Cl. 75-177.
- Rainer, William C.: See—  
Cooke, Giles B., and Rainer. 2,961,110.  
Wilckens, Elbe, Rainer, Germak, Hamilton, and Redding. 2,937,404.  
Wilckens, Elbe A., Rainer, and Cooke. 2,930,081.  
Wilckens, Elbe A., Rainer, Germak, Hamilton, and Redding. 2,936,005.
- Rainey, Bernard J., and E. R. Smith, to Seneca Falls Machine Co. Work-handling mechanism for machine tool. 2,927,703, 3-8-60, Cl. 214-1.
- Rainey, Bernard J., and E. R. Smith, to Seneca Falls Machine Co. Apparatus for discharge and replenishment of automatic unloading and reloading mechanism. 2,961,104, 11-22-60, Cl. 214-1.
- Rainey, Challenor W., to Ford Motor Co. Motor vehicle starter holding means. 2,923,162, 2-2-60, Cl. 74-7.
- Railey, James A. Stippling roller for paints. 2,957,412, 10-25-60, Cl. 101-376.
- Railey, James L., and R. C. Mansfield, to Rohm & Haas Co. Production of N-alkylthiophicolinamides and N-alkylthioisonicotinamides. 2,938,907, 5-31-60, Cl. 260-294.8.
- Railey, William A., to H. K. Porter Co., Inc. Valve. 2,954,053, 9-27-60, Cl. 137-630.15.
- Rainford, Warren S. Inflatable globe. 2,936,366, 5-10-60, Cl. 240-10.
- Rains, Sidney A., to General Motors Corp. Transmission. 2,953,939, 9-27-60, Cl. 74-606.
- Rainsberger, Paul J., and D. H. Fischer, to Giannini Controls Corp. Re-set means for acceleration integrator. 2,950,908, 8-30-60, Cl. 264-1.
- Rainwater, Julius H., to The Warren Co., Inc. Two side refrigerated display case. 2,929,227, 3-22-60, Cl. 62-256.
- Rainwater, Julius H., to The Warren Co., Inc. Frozen food display case. 2,936,596, 5-17-60, Cl. 62-251.
- Rainwater, Orman M. Camp cot pack. 2,964,222, 12-13-60, Cl. 224-9.
- Raisbeck, Gordon, to Bell Telephone Laboratories, Inc. Transposed layer conductor. 2,942,211, 6-21-60, Cl. 333-96.
- Raitiere, Louis P., to General Precision, Inc. Optical beam splitter. 2,963,937, 12-13-60, Cl. 88-1.
- Rajchman, Jan A., to Radio Corp. of America. Magnetic switching systems. 2,927,307, 3-1-60, Cl. 340-174.
- Rajchman, Jan A., to Radio Corp. of America. Electrical display device. 2,928,894, 3-15-60, Cl. 178-5.4.
- Rajchman, Jan A., to Radio Corp. of America. Magnetic system using transfluxors. 2,962,701, 11-29-60, Cl. 340-174.
- Rajchman, Jan A., to Radio Corp. of America. Magnetic system using transfluxors. 2,962,719, 11-29-60, Cl. 340-174.
- Rajchman, Jan A., and A. W. Lo, to Radio Corp. of America. Magnetic memory systems using multi-apertured storage elements. 2,942,240, 6-21-60, Cl. 340-174.
- Rajewsky, Boris. X-ray tube of high output. 2,922,060, 1-19-60, Cl. 313-59.
- Raju, Edward P. Automobiles or like vehicles fitted with theft prevention devices. 2,964,733, 12-13-60, Cl. 340-63.
- Rakacs, Joseph G., to The Singer Mfg. Co. Work manipulating attachment for sewing machines. 2,964,000, 12-13-60, Cl. 112-135.
- Rake, Herbert L., to The B. F. Goodrich Co. Belt. 2,925,165, 2-16-60, Cl. 198-198.
- Raker, Samuel K., to International Business Machines Corp. Biased magnetic storage system. 2,923,923, 2-2-60, Cl. 340-174.
- Rakes, Lee L. Display. 2,956,357, 10-18-60, Cl. 40-28.3.
- Rakoff, Henry, to Veliscol Chemical Corp. Pentachlorocyclopentadiene-mono-2-ethylhexyl ether. 2,946,674, 7-26-60, Cl. 71-23.
- Rakowitz, David H., to American Cyanamid Co. Control system for soil stabilizer polymerization. 2,940,729, 6-14-60, Cl. 256-1.8.
- Rakus, Julius P.: See—  
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- Raley, John H.: See—  
Mullineaux, Richard D., and Raley. 2,921,013.
- Rall, Clifford L. Means for instructing a person to swim. 2,956,541, 10-18-60, Cl. 119-96.
- Rall, Ernst: See—  
Sauer, Edgar, Hahn, Jörg, and Rall. 2,925,764.
- Rallis, Constantine M. Rotary food holder for cooking machine. 2,945,598, 7-19-60, Cl. 211-144.
- Ralston, Arthur R. and W. A. Hammer with built-in nail puller. 2,922,622, 1-26-60, Cl. 254-26.
- Ralston, Gavin A., to Micro Machine Works, Inc. Rotary electrical control devices. 2,922,975, 1-26-60, Cl. 338-139.
- Ralston, Harold A.: See—  
Gillette, Roy A., and Ralston. 2,928,481.
- Ralston Purina Co.: See—  
Lanz, George T. 2,945,764.
- Ralston, William A.: See—  
Ralston, Arthur R. and W. A. 2,922,622.
- Ram Domestic Products Co.: See—  
Miller, Charles, and Romanelli. 2,942,680.
- Ramadanoff, Dimitar, to Union Carbide Corp. Method for impregnating a carbonaceous brush with silver. 2,934,460, 4-26-60, Cl. 117-228.
- Ramberg, Einar M., and M. Goldenberg, to Titeflex, Inc. No-motion braid. 2,962,050, 11-29-60, Cl. 138-60.
- Ramberg, Einar M., and E. Balogh, to Titeflex, Inc. Disconnect couplings. 2,962,303, 11-29-60, Cl. 284-18.
- Rambo, Elvind M., and J. M. Frigo. Cheese molding machine. 2,929,142, 3-22-60, Cl. 31-42.
- Rambo, William R., to United States of America, Navy. Methods and apparatus for improving the practical selectivity of frequency-selective amplifiers. 2,956,152, 10-11-60, Cl. 250-20.
- Rambold, Adolf G. F., to Teepack Spezialmaschinen, G.m.b.H. Apparatus for applying staples to tea bags and the like. 2,923,936, 2-9-60, Cl. 1-2.
- Rambossek, George M.: See—  
Martin, Albert F., Pagel, and Rambossek. 2,951,004.
- Ramén, Torsten, to Pedar Ltd. Apparatus for heat exchange. 2,941,787, 6-21-60, Cl. 257-245.



- Ramer, Edward L.: *See*—  
Horne, Charles F., Lefren, Ramer, and Roth. 2,965,033.  
Ramer, Edward L., to Hercules Powder Co. Protection of electric blasting caps. 2,939,391, 6-7-60, Cl. 102-28.  
Ramer, Lyle A., to RMR Corp. Multiple speed permanent split capacitor motor. 2,941,138, 6-14-60, Cl. 318-220.  
Ramey, David E., W. J. Hughes, and J. Van Overbeek, to Shell Oil Co. Weed killers. 2,955,929, 10-11-60, Cl. 71-2.3.  
Ramey, Harold W., to R. H. Baker & Co., Inc. Method for forming a pipe fitting. 2,954,604, 10-4-60, Cl. 29-421.  
Ramey, Robert A., Jr. Magnetic amplifier control circuit. 2,936,422, 5-10-60, Cl. 330-8.  
Ramirez, Ernest R., to Reynolds Metals Co. Flexible anodic coating method. 2,963,409, 12-6-60, Cl. 204-58.  
Ramirez, Ernest R., and E. F. Barkman, to Reynolds Metals Co. Pre-plate treatment of aluminous surfaces. 2,958,610, 11-1-60, Cl. 117-50.  
Ramirez, Fausto, to American Cyanamid Co. Phosphonium cyclopentadienylides. 2,930,814, 3-29-60, Cl. 260-606.5.  
Ramirez, Gilbert G. Stair climbing device. 2,928,501, 3-15-60, Cl. 187-11.  
Ramirez, Juan A., Sr. Internal combustion engine piston and piston rings therefor. 2,958,564, 11-1-60, Cl. 309-7.  
Ramirez, Raul, to IBEC Housing Corp. Brick making apparatus. 2,962,788, 12-6-60, Cl. 25-87.  
Ramlose, George A., to H. I. Sides, d.b.a. Sides Mfg. Co. Shopping apparatus. 2,943,707, 7-5-60, Cl. 186-1.  
Rammel, Gerald E.: *See*—  
Marzocchi, Alfred, Rammel, and Charon. 2,961,821.  
Ramniceanu, Tiberiu J., to Autocopter Corp. of America. Paddle wheel sustained aircraft. 2,966,317, 12-27-60, Cl. 244-20.  
Ramo-Woolridge Corp., The: *See*—  
Goodell, Everett M. 2,951,248.  
Rampel, Leopold J. Rotary broiler. 2,940,380, 6-14-60, Cl. 99-346.  
Rampino, Louis D.: *See*—  
Galstaun, Lionel S., Rampino, and Vandenburg. 2,932,612.  
Rampino, Louis D., and M. J. Gorham, to Tidewater Oil Co. Mild hydrogenation of catalytic reformate. 2,946,742, 7-26-60, Cl. 208-143.  
Ramsa, Alexander P., to United States of America, Army. Small sized helixes and method of their fabrication. 2,948,954, 8-16-60, Cl. 29-155.5.  
Ramsay, David W. C.: *See*—  
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Ramsay, David W. C., to Imperial Chemical Industries Ltd. Photographic developers. 2,943,109, 6-28-60, Cl. 260-501.  
Ramsay, Frank R. F., to D. Napier & Son Ltd. Spark producing apparatus and adaptors therefor. 2,927,248, 3-1-60, Cl. 315-180.  
Ramsay, John F., to Marconi's Wireless Telegraph Co. Ltd. Radio direction finders. 2,958,863, 11-1-60, Cl. 343-16.  
Ramsay, John F., and J. A. C. Jackson, to Marconi's Wireless Telegraph Co., Ltd. Antenna having two focusing elements. 2,945,228, 7-12-60, Cl. 343-753.  
Ramsay, Leonard D.: *See*—  
Renault, Jean C., and Ramsay. 2,955,693.  
Ramsberger, Harry F. and W. D. Cantilever stile. 2,962,112, 11-29-60, Cl. 182-118.  
Ramsberger, William D.: *See*—  
Ramsberger, Harry F. and W. D. 2,962,112.  
Ramsden, Hugh E., to Metal & Thermit Corp. Process for preparing  $\alpha$ -substituted acetic acids. 2,921,939, 1-19-60, Cl. 260-295.  
Ramsden, Hugh E., to Metal & Thermit Corp. Grignard preparation of certain hydroxy compounds. 2,921,940, 1-19-60, Cl. 260-297.  
Ramsden, Hugh E., to Metal & Thermit Corp. Novel vinyl borons and method of preparation. 2,921,954, 1-19-60, Cl. 260-462.  
Ramsden, Hugh E., to Metal & Thermit Corp. Process of preparing vinyl substituted sulphur containing compounds. 2,921,964, 1-19-60, Cl. 260-607.  
Ramsden, Hugh E., to Metal & Thermit Corp. Heterocyclic magnesium chloride-cyclic ether grignard reagents. 2,959,589, 11-8-60, Cl. 260-251.  
Ramsden, Hugh E., to Metal & Thermit Corp. Allyl chloride-cyclic ether grignard reagents. 2,959,598, 11-8-60, Cl. 260-346.1.  
Ramsden, Hugh E., to Metal & Thermit Corp. Vinyllic tin compounds. 2,965,661, 12-20-60, Cl. 260-429.7.  
Ramsden, Hugh E., A. E. Ballint, and C. K. Banks, to Metal & Thermit Corp. Aryl chloride-cyclic ether grignard reagents. 2,959,596, 11-8-60, Cl. 260-345.1.  
Ramsden, Hugh E., and A. E. Ballint, to Metal & Thermit Corp. Vinyl chloride-cyclic ether grignard reagents. 2,959,597, 11-8-60, Cl. 260-345.1.  
Ramse, Lester J. Hose holder. 2,943,833, 7-5-60, Cl. 248-89.  
Ramseier, Paul, to Bracker A.G. Device for bringing stacked travellers onto the rings of ring spinning frames. 2,953,845, 9-27-60, Cl. 29-207.  
Ramseier, Paul, to Bracker A.G. Steel wire heald. 2,964,066, 12-13-60, Cl. 139-95.  
Ramser, Walter O.: *See*—  
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Ramsey Corp.: *See*—  
Aumtiller, Edwin C. 2,929,174.  
Marien, Melvin W. 2,932,543.  
Ramsey, De Witt. Sick bed apparatus. 2,959,791, 11-15-60, Cl. 5-86.  
Ramsey, Homer A.: *See*—  
Rogers, Odus M., and Ramsey. 2,956,628.  
Ramsey, James B., and P. T. Anderson, to Westinghouse Electric Corp. Thermal overload relay. 2,942,081, 6-21-60, Cl. 200-113.  
Ramsey, James C. Scatter-shot arrow. 2,926,017, 2-23-60, Cl. 273-106.5.  
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Ramsey, Justin H. Plastic material extrusion head. 2,928,123, 3-15-60, Cl. 18-13.  
Ramsey, Robert W.: *See*—  
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Ramsey, Walter H. General purpose shipping shelter. 2,949,867, 8-23-60, Cl. 105-377.  
Ramsey, William M., and C. Kezerian, to Victor Chemical Works. Alkanolaminealkane phosphonic acids and derivatives thereof. 2,964,549, 12-13-60, Cl. 260-438.  
Ramunas, Vytautas, to Michael Flynn Mfg. Company (also known as Michael Flynn Mfg. Co.). Hingeless casement window. 2,926,399, 3-1-60, Cl. 20-53.  
Ramundo, Boniface T., to Kentile, Inc. Heat exchange rolls. 2,936,158, 5-10-60, Cl. 237-95.  
Ranard, Elliot D., to United Aircraft Corp. Shock positioning means. 2,920,446, 1-12-60, Cl. 60-35.6.  
Ranby, Peter W., to Thorn Electrical Industries Ltd. Luminescent materials. 2,920,046, 1-5-60, Cl. 252-301.4.  
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Rand, Henry J., and H. S. Lehner, to The Gibson-Homans Co. Dispensing gun structure. 2,933,221, 4-19-60, Cl. 222-391.  
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Rand, Myron J., to The New Jersey Zinc Co. Electrorefining metallic titanium. 2,939,823, 6-7-60, Cl. 204-64.  
Rand, Philip S., to Sperry Rand Corp. Record sensing means. 2,938,666, 5-31-60, Cl. 235-61.11.  
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Randa, Sam J. Sanitary toothbrush holder. 2,937,910, 5-24-60, Cl. 312-207.  
Randall, Anthony J. Traction device. 2,931,413, 4-5-60, Cl. 152-219.  
Randall, Burton T., to C. & D. Lumber Co. Power operated device for selectively moving load elements to predetermined positions. 2,961,015, 11-22-60, Cl. 143-37.  
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Taras, John, and Randall. 2,940,813.  
Randall, David I., to General Aniline & Film Corp. Stabilized polyester fibres. 2,920,978, 1-12-60, Cl. 117-33.3.  
Randall, George A.: *See*—  
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Randall, Herman P.,  $\frac{1}{4}$  each to Dr. T. J. Wright, E. D. Seddall, and W. Howell. Lock nut with thread gripping fins. Re. 24,793, 3-8-60, Cl. 151-21.  
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Rander, Karl: *See*—  
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Rander, Karl, and F. Falkenburg, to Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate. Exposure meter construction. 2,937,568, 5-24-60, Cl. 88-23.  
Randise, Dominick, to Sperry Rand Corp. Series-Energized transistor amplifier. 2,943,267, 6-28-60, Cl. 330-18.  
Randles, Arthur E., Jr.,  $\frac{1}{2}$  to F. E. Helmick. Carton forming machine. 2,935,917, 5-10-60, Cl. 93-37.  
Randles, Arthur E., Jr.,  $\frac{1}{2}$  to F. E. Helmick. Carton. 2,946,497, 7-26-60, Cl. 229-28.  
Randlett, Edward A., to Owens-Illinois Glass Co. Venting closure cap. 2,946,471, 7-26-60, Cl. 215-56.  
Randol, Glenn T., 50% to Hamill-Markus Industries, Inc. Power-assisted operating mechanism for hydraulic pressure systems. 2,931,180, 4-5-60, Cl. 60-54.6.  
Randol, Glenn T. Speed-responsive valve mechanism. 2,931,374, 4-5-60, Cl. 137-54.  
Randol, Glenn T. Hydraulic valve tappet. 2,940,433, 6-14-60, Cl. 123-90.  
Randol, Glenn T. Safety razor and blade loading device therefor. 2,945,297, 7-19-60, Cl. 30-58.



- Randol, Glenn T., 50% to Hamill-Markus Industries, Inc. Power-assisted operating mechanism for hydraulic pressure systems. 2,959,011, 11-8-60, Cl. 60-54.6.
- Randol, Glenn T. Master cylinder for hydraulic brake systems. 2,961,832, 11-29-60, Cl. 60-54.6.
- Randolph, Edward F.: See—
- Costa, Philip J., Wagner, Stafford, Lamport, and Randolph. 2,952,346.
- Randolph, Gerald C., and G. R. Polen, to International Telephone and Telegraph Corp. Voltage ratio device. 2,934,274, 4-26-60, Cl. 235-196.
- Randolph, Harry B. Hand shears, scissors and like tools. 2,942,341, 6-28-60, Cl. 30-266.
- Randolph, Lee W.: See—
- Mathison, Richard P., Slaughter, and Randolph. 2,945,191.
- Randolph, Robert R.: See—
- Sanz, Manuel C., Randolph, and Starr. 2,946,699.
- Randolph, Stephen B.: See—
- Liebson, Sidney H., Loeb, and Randolph. 2,966,589.
- Randolph, William E., to Avco Mfg. Corp. Curved telescoping slide. 2,937,839, 5-24-60, Cl. 248-276.
- Rands, Robert D., Jr.: See—
- Wiegert, Philip E., and Rands. 2,963,474.
- Randt, Le Roy W., to The Oliver Corp. Power shift transmission mechanism. 2,923,176, 2-2-60, Cl. 74-740.
- Rane, Leo, to American Cyanamid Co. Hypodermic syringes and plungers therefor. 2,954,767, 10-4-60, Cl. 128-218.
- Raney, Ben B., to Chicago Development Corp. Electrolytic method for the production of pure titanium. 2,921,890, 1-19-60, Cl. 204-64.
- Raney, Ben B., to Chicago Development Corp. Method for producing titanium and zirconium. 2,922,712, 1-26-60, Cl. 75-84.5.
- Raney, Estel C.: See—
- Matchett, Samuel J., Jr., and Raney. 2,927,606.
- Ranfield, Charles J. Illuminated light pull cord. 2,954,460, 9-27-60, Cl. 240-78.
- Ranft, Ludwig G., and W. F. Eibl, to Wollensak Optical Co. Fading and dissolving device for motion picture cameras. 2,937,563, 5-24-60, Cl. 88-16.
- Rangabe, Alexander R., to The Plessey Co. Ltd. Mounting of wire-like or wired components particularly for automatic production. 2,932,379, 4-12-60, Cl. 198-153.
- Rangabe, Alexander R. Assembly methods for electrode structures of electrical discharge devices. 2,935,782, 5-10-60, Cl. 29-25.13.
- Rangabe, Alexander R., to The Plessey Co. Ltd. Indirectly heated incandescent cathodes. 2,964,667, 12-13-60, Cl. 313-261.
- Rangabe, Alexander R., and E. G. Perry, to The Plessey Co. Ltd. Straightening and severing of wires. 2,938,549, 5-31-60, Cl. 140-140.
- Ranges, John E.: See—
- Greenidge, Ralph M. C., and Ranges. 2,957,038.
- Rangus, Ernest C., to Thor Power Tool Co. Casing structure for portable tool. 2,965,774, 12-20-60, Cl. 310-50.
- Raninen, Arnold B., to General Motors Corp. Optical sighting device. 2,957,384, 10-25-60, Cl. 88-1.
- Rank Cintel Ltd.: See—
- Urry, Denis E. 2,965,294.
- Rank, Karl: See—
- Schilling, Otto, and Rank. 2,939,753.
- Rank, William J. Fuel injector for an internal combustion engine. 2,929,371, 3-22-60, Cl. 123-139.
- Rankin, Andrew W., to General Electric Co. Turbine bucket cover assembly. 2,959,393, 11-8-60, Cl. 253-77.
- Rankin, Edward C., to Brock and Rankin, Inc. Loose leaf binder. 2,928,398, 3-15-60, Cl. 129-17.
- Rankin, Renville S., to Dorr-Oliver Inc. Apparatus for treating sewage and similar materials. 2,922,524, 1-26-60, Cl. 210-219.
- Rankin, Russell P. Pediatric X-ray apparatus. 2,926,256, 2-23-60, Cl. 250-60.
- Rankin, Thomas B. B., to Canadian General Electric Co. Ltd. Panel construction. 2,941,632, 6-21-60, Cl. 189-2.
- Rankin, Walter J.: See—
- Hoover, Howard L., Dupre, and Rankin. 2,958,593.
- Rankins, Everett V.: See—
- Jay, George, and Rankins. 2,948,213.
- Ranney, C. A., Jr.: See—
- Ranney, Kenneth W., Thielemeyer, Hamilton, and Ranney. 2,937,947.
- Ranney, Kenneth W., L. G. Thielemeyer, W. L. Hamilton, and C. A. Ranney, Jr. Process for paprika and chili manufacture. 2,937,947, 5-24-60, Cl. 99-140.
- Ranney Method Water Supplies, Inc.: See—
- D'Audiffret, Adolphe A., Reimund, and Lavelly. 2,933,137.
- Rannie, Arnold. Potentiometer resistance and switching means. 2,963,675, 12-6-60, Cl. 338-95.
- Ransburg-Electro-Coating Corp.: See—
- Gauthier, William D. 2,926,106.
- Miller, Emery P. 2,920,982.
- Stone, Robert H. 2,952,351.
- Ransohoff Co.: See—
- Bintzler, Robert R. 2,933,861.
- Ransohoff, Jackson A., and J. D. Plawchan, to United States of America, Atomic Energy Commission. Self-regulating boiling-water nuclear reactors. 2,949,414, 8-16-60, Cl. 204-154.2.
- Ransom, Clark W. Infant nursing bottle and nipple arrangement. 2,956,702, 10-13-60, Cl. 215-11.
- Ransom, Maurice: See—
- Anderson, Paul E., Crompt, Evans, and Ransom. 2,933,981.
- Evans, Paul I., and Ransom. 2,948,192.
- Ransom, Richard S., to Short Brothers and Harlands Ltd. Opposed-cylinder motors. 2,962,003, 11-29-60, Cl. 121-117.
- Ransom, Robert B. Countersinking tool. 2,927,614, 3-8-60, Cl. 145-123.
- Ransom, Russell A., to Dailey Oil Tools, Inc. Pipe puller. 2,965,175, 12-20-60, Cl. 166-98.
- Ranson, Richard R., to Cutler-Hammer, Inc. System for raising and lowering large movable structures. 2,932,171, 4-12-60, Cl. 61-28.
- Ranson, William W.: See—
- Miller, Calvin Q., and Ranson. 2,950,285.
- Miller, Calvin Q., and Ranson. 2,950,286.
- Rantsch, Kurt, to M. Hensoldt & Sohne, Optische Werke A.G. Mirror binocular. 2,940,359, 6-14-60, Cl. 88-33.
- Rantsch, Kurt, to C. Zeiss. Illuminating device particularly for objects in microscopes. 2,944,463, 7-12-60, Cl. 88-39.
- Rantsch, Kurt, to M. Hensoldt & Sohne, Optische Werke A.G. Indicating device for use in compensating displacements in machine tools caused by temperature changes. 2,956,344, 10-18-60, Cl. 33-174.
- Rantsch, Kurt, to M. Hensoldt & Sohne, Optische Werke, Aktiengesellschaft. Levelling instrument with means for the automatic compensation of small inclinations of the instrument. 2,959,088, 11-8-60, Cl. 88-1.
- Rantsch, Kurt, to M. Faust, to M. Hensoldt & Sohne, Optische Werke Aktiengesellschaft. Combined measuring, numbering and reading device. 2,921,374, 1-19-60, Cl. 33-125.
- Rapaport, Myron S., to Kenco Products Corp. Valve with sliding plunger. 2,959,391, 11-8-60, Cl. 251-156.
- Rapaport, William. Floral roping machine. 2,957,263, 10-25-60, Cl. 41-3.
- Rapata, George M., to Illinois Tool Works. Strain relief grommet. 2,920,129, 1-5-60, Cl. 174-153.
- Rapata, George M., to Illinois Tool Works. Plastic drive fastener. 2,927,497, 3-8-60, Cl. 85-5.
- Rapata, George M., to Illinois Tool Works. Resilient mount. 2,936,141, 5-10-60, Cl. 248-26.
- Rapata, George M., to Illinois Tool Works. Screw anchor with attached spacing sleeve. 2,936,015, 5-10-60, Cl. 151-41.75.
- Rapata, George M., to Illinois Tool Works. Cable strap. 2,936,980, 5-17-60, Cl. 248-74.
- Rapata, George M., to Illinois Tool Works. Rivet and integral expander pin connected thereto by area of limited cross section. 2,941,439, 6-21-60, Cl. 85-40.
- Rapata, George M., to Illinois Tool Works. Plastic anchor member. 2,943,373, 7-5-60, Cl. 24-216.
- Rapata, George M., to Illinois Tool Works. Plastic fastening device. 2,948,937, 8-16-60, Cl. 24-73.
- Rapata, George M., to Illinois Tool Works. Plastic screw receiving insert having a circular body and a polygonal head. 2,956,605, 10-18-60, Cl. 151-41.75.
- Raper, Foster W. Expandable splines. 2,960,342, 11-15-60, Cl. 279-2.
- Raper, John A. A., to General Electric Co. Symmetrical diode limiter. 2,955,171, 10-4-60, Cl. 179-171.
- Raper, John A. A., and A. P. Stern, to General Electric Co. Modulation system. 2,937,343, 5-17-60, Cl. 332-31.
- Raphael, Edwin. Pin sorting machine. 2,941,649, 6-21-60, Cl. 198-30.
- Raphael, Edwin. Flat pleating system. 2,952,316, 9-13-60, Cl. 160-344.
- Raphael, Ralph A., to The Glidden Co. Terpene primary alcohols. 2,961,452, 11-22-60, Cl. 260-448.
- Rapid Electrotape Co., The: See—
- Mueller, Louis E. 2,921,378.
- Rapids-Standard Co., Inc., The: See—
- Baxter, John C., De Graaf, and Woldring. 2,948,055.
- Woldring, Egbert, De Graaf, and Baxter. 2,943,889.
- Rapinwax Paper Co.: See—
- Lithio, Clarence N. 2,954,069.
- O'Neil, John G. 2,935,919.
- Rapoport, Lorence: See—
- Frazza, Everett J., and Rapoport. 2,920,097.
- Kordak, John A., Munch, and Rapoport. 2,937,196.
- Stephens, James R., and Rapoport. 2,938,026.
- Rapp, Alfred, to Bohme Fettechemie G.m.b.H. Process for making wool resistant to felting and shrinking. 2,926,064, 2-23-60, Cl. 8-128.
- Rapp, Donald E., to The Dow Chemical Co. Prevention of corrosion. 2,923,747, 2-2-60, Cl. 260-652.5.
- Rapp, Edward G., to Thompson Ramo Wooldridge Inc. Speed control for auxiliary power supply system. 2,953,691, 9-20-60, Cl. 290-2.
- Rapp, Edward G., to Thompson Ramo Wooldridge Inc. Sandwich-type structural element. 2,963,128, 12-6-60, Cl. 189-84.
- Rapp, Robert A.: See—
- Crompt, Stuart F., Giuffreda, and Rapp. 2,954,750.
- Rapp, Vincent Q., to General Welding & Fabricating Co. Desiccant and method of making. 2,951,812, 9-6-60, Cl. 252-194.



- Rapp, Walter E., to E. Mettler. Balance. 2,950,100, 8-23-60, Cl. 265-60.
- Rappaport, George, J. A. Szaruga, and J. R. Wall, to General Motors Corp. Composition containing polyester, organic polyisocyanate, tertiary amine salt and alkali metal carbonate and process of preparing foam therefrom. 2,926,147, 2-23-60, Cl. 260-25.
- Rappaport, Maurice I. Display cabinet. 2,928,704, 3-15-60, Cl. 312-123.
- Rappaport, Sigmund, to Sperry Rand Corp., Ford Instrument Co. Division. Component solving and integrating system. 2,923,468, 2-2-60, Cl. 235-61.5.
- Rappen, Friedrich J. See—
- Stiebling, Ewald, and Rappen. 2,962,492.
- Rappeley, Frederick A., and G. E. Morgan, Jr., to John T. Riddell, Inc. Apparatus and method for making face guards. 2,929,102, 3-22-60, Cl. 18-19.
- Rapson, William H., to Hooker Chemical Corp. Production of chlorine dioxide. 2,936,219, 5-10-60, Cl. 23-152.
- Raque, Vernon F., to General Electric Co. Variable bandwidth servomechanism. 2,940,026, 6-7-60, Cl. 318-18.
- Rarey, Robert S., and F. R. Shrimpton, to Chrysler Corp. Engine head. 2,941,521, 6-21-60, Cl. 123-41.82.
- Rasch, Herman R., to National Steel Corp. Ventilating tunnel. 2,955,523, 10-11-60, Cl. 98-56.
- Raschig, Dr. F., G.m.b.H. See—
- Steinhards, Arnolds, and Mathes. 2,924,604.
- Von Haxthausen, Elmar F., Mathes, and Wolf. 2,937,118.
- Rasco, Grady B., and J. R. Taylor, Jr. Multiple purpose furniture. 2,931,425, 4-5-60, Cl. 155-43.
- Raser, Edward J. See—
- McMillan, Wilbur M., Lowrie, and Raser. 2,946,985.
- Rask, Eric H., W. H. Olson, and E. L. Reitsma, to Sperry Rand Corp. Copy holder. 2,956,545, 10-18-60, Cl. 120-32.
- Raska, Albert J. See—
- Newcomer, Jacob R., Jr., and Raska. 2,926,056.
- Raskin, Franz J. M., deceased, by J. F. Raskin, executor. Nozzle head. 2,933,259, 4-19-60, Cl. 239-405.
- Raskin, Jean F. See—
- Raskin, Franz J. M. 2,933,259.
- Rasmussen, Reidar P. C., to Cutler-Hammer, Inc. Electromagnetic device. 2,925,538, 2-16-60, Cl. 317-123.
- Rasmussen, Arne P., and P. E. Seeley, to Westinghouse Electric Corp. Flight control system. 2,939,653, 6-7-60, Cl. 244-78.
- Rasmussen, George. See—
- Goodykoontz, James R., Jr., and Rasmussen. 2,921,550.
- Rasmussen, Keith O. Mechanism for advancing motion picture film intermittently. 2,923,199, 2-2-60, Cl. 88-18.
- Rasmussen, Ole-Bendt. Method of manufacturing a thin band of a high molecular substance which is axially orientated in another direction than the length direction. 2,943,356, 7-5-60, Cl. 18-47.5.
- Rasmussen, Ole-Bendt. Method of manufacturing fibrous and porous materials. 2,948,927, 8-16-60, Cl. 18-47.5.
- Rasmussen, Ole-Bendt. Method of producing fibrous materials. 2,954,587, 10-4-60, Cl. 18-47.5.
- Rasmussen, Paul L., and R. L. Sears, to The Sherwin-Williams Co. Nitrocellulose/alkyd/melamine-aldehyde coating composition. 2,937,153, 5-17-60, Cl. 260-15.
- Rasmussen, V. Kann, Co. See—
- Rasmussen, Villum B. K. 2,927,355.
- Rasmussen, Villum B. K., to V. Kann Rasmussen Co. Glass face consisting of framed units comprising one or more layers of glass. 2,927,355, 3-8-60, Cl. 20-40.
- Rasmusson, Marlin B. Confection dispenser. 2,922,547, 1-26-60, Cl. 221-133.
- Rasmusson, Marlin B. Frozen confection machine stick inserter. 2,953,105, 9-20-60, Cl. 107-8.
- Rassier, Cecil A., to D. Sebel & Co. Ltd. Chairs. 2,964,092, 12-13-60, Cl. 155-2.
- Rassieur, Theodore E., to Central Mine Equipment Co. Food steamer. 2,932,293, 4-12-60, Cl. 126-369.
- Ratchliff, Ralph A. Hoist hook having spring urged gate latching means. 2,927,358, 3-8-60, Cl. 24-241.
- Rater, Rudolph, to Sofa-Matic, Inc. Detachable arm rest for bed sofa. 2,927,328, 3-8-60, Cl. 5-52.
- Raterink, Harry R. See—
- McKeever, Charles H., and Raterink. 2,926,188.
- Raterink, Hendrik J. See—
- Van Heel, Abraham C. S., Beernink, and Raterink. 2,947,219.
- Van Heel, Abraham C. S., Beerink, and Raterink. 2,964,997.
- Raterman, Donald E. See—
- Eisner, Burton D., and Raterman. 2,946,272.
- Ratermann, Alfred C. Circuit control for a throttle holder. 2,929,475, 3-22-60, Cl. 192-3.
- Rath, Howard G., A. J. Miller, and J. A. Kratz, to Union Carbide Corp. Wire feeder. 2,925,170, 2-16-60, Cl. 203-250.
- Rath, Karl. See—
- Guanella, Gustav. 2,943,175.
- Rath Packing Co., The. See—
- Christianson, George, Nichols, and Rath. Re. 24,835.
- Gleason, John J. 2,966,412.
- Rath, Richard W. See—
- Christianson, George, Nichols, and Rath. Re. 24,835.
- Rathborne, Hair & Ridgway Box Co. See—
- Hutchison, George A. 2,950,852.
- Rathbun, Melvin R. See—
- Koerner, Charles A., Alsaker, and Rathbun. 2,963,560.
- Rathbun, Robert C. See—
- Mills, Jack, and Rathbun. 2,922,744.
- Rather, Elmer F., to Wayne Knitting Mills. Lap yarn end cutting attachment for circular knitting machine. 2,952,148, 9-13-60, Cl. 66-140.
- Rathmann, William G. Surgical instrument. 2,930,376, 3-29-60, Cl. 128-305.
- Ratier Aviation-Marine. See—
- Dreptin, Paul. 2,954,829.
- Ratje, John D., to Phillips Petroleum Co. Method of controlling crystal purification process and apparatus therefor. 2,919,991, 1-5-60, Cl. 99-205.
- Ratje, John D., to Phillips Petroleum Co. Fractional crystallization apparatus. 2,922,701, 1-26-60, Cl. 23-273.
- Ratje, John D., to Phillips Petroleum Co. Scraped surface chiller. 2,930,058, 3-29-60, Cl. 15-104.1.
- Ratkevich, Adam E., to Ryan Aeronautical Co. Electronic antenna scanning switch. 2,938,176, 5-24-60, Cl. 333-7.
- Ratkevich, Adam E., to The Ryan Aeronautical Co. Coaxial antenna. 2,942,264, 6-21-60, Cl. 343-779.
- Ratkevich, Adam E., to The Ryan Aeronautical Co. Enclosed coaxial antenna. 2,942,265, 6-21-60, Cl. 343-779.
- Ratkowski, Thomas A., to American Brake Shoe Co. Dipper teeth. 2,951,300, 9-6-60, Cl. 37-142.
- Ratlif, Leslie B. Pleating attachment for sewing machines. 2,966,129, 12-27-60, Cl. 112-146.
- Ratner, Lee. See—
- Bruce, Willis N. 2,937,969.
- Rattenbury, Kenneth H. See—
- Toy, Arthur D. F., and Rattenbury. 2,922,810.
- Toy, Arthur D. F., and Rattenbury. 2,960,522.
- Toy, Arthur D. F., Rattenbury, and Hinkes. 2,946,764.
- Rattenbury, Kenneth H., and J. R. Costello, to Chemagro Corp. Process of preparing tributyl phosphotriethioate. 2,943,107, 6-28-60, Cl. 260-461.
- Ratti, Ferdinand J., to Chicago Rawhide Mfg. Co. Oil seal. 2,926,938, 3-1-60, Cl. 286-5.
- Rau Fastener Co. See—
- Silver, Bernard R. 2,965,943.
- Raub, Samuel H. S., to Union Carbide Corp. Heat interchanger. 2,956,787, 10-18-60, Cl. 257-236.
- Raub, Samuel H. S., and W. M. Gaylord, Jr., to Union Carbide Corp. Impingement-type separator. 2,956,641, 10-18-60, Cl. 183-110.
- Rauch, Konrad, C. N. Jorgensen, G. A. Neubauer, K. S. Ferrin, R. E. Kneisley, E. S. Stork, and W. E. Harsch, to The National Cash Register Co. Accounting machines. 2,947,475, 8-2-60, Cl. 235-61.6.
- Rauch, Ralph T. See—
- Hecox, William, Rauch, and Slay. 2,961,096.
- Rauchmann, Hans. See—
- Raehs, Wilhelm J., and Rauchmann. 2,949,243.
- Raudabaugh, Donald E., to The Ohio Brass Co. Electrical apparatus bushing. 2,922,927, 1-26-60, Cl. 317-12.
- Raudabaugh, Donald E., to The Ohio Brass Co. Capacitor and circuit breaker therefor. 2,922,928, 1-26-60, Cl. 317-12.
- Rauer, Paul A., and F. A. Nicholls. Cutting tool. 2,937,545, 5-24-60, Cl. 77-58.
- Rauglas, Gerard. Toy gun. 2,937,638, 5-24-60, Cl. 124-14.
- Rauh, Charles E. See—
- Lopresti, Rocco J., Sافر, Young, and Rauh. 2,940,980.
- Rauhut, Michael M., and H. A. Currier, to American Cyanamid Co. Secondary phosphinic acids. 2,953,595, 9-20-60, Cl. 260-465.5.
- Rauhut, Michael M., I. Hechenbleikner, and H. A. Currier, to American Cyanamid Co. Preparation of secondary phosphine oxides. 2,953,596, 9-20-60, Cl. 260-465.8.
- Rauland-Borg Corp. See—
- Medal, Richard J. Re. 24,788.
- Rauland Corp., The. See—
- Levin, Nathan D. 2,923,585.
- Liebson, Sidney H. 2,928,993.
- Niklas, Wilfrid F. 2,941,857.
- Niklas, Wilfrid F. 2,955,219.
- O'Callaghan, Jerome J. 2,930,386.
- Pohl, Robert C. 2,950,219.
- Reed, William O. 2,960,416.
- Schmidt, Adolph W. 2,955,218.
- Rauline, Maurice, to The French State, represented by the Minister of National Defense (Gunpowder Department). Loop control fluid operated means for regulating the speed of a cutting means to cut uniform lengths. 2,934,987, 5-3-60, Cl. 83-360.
- Raulins, George M., to Otis Engineering Corp. Feeler head assembly. 2,925,660, 2-23-60, Cl. 33-178.
- Raulins, George M., to Otis Engineering Corp. Temperature compensated metering valve. 2,966,170, 12-27-60, Cl. 137-468.
- Raulins, George M., J. H. Bostock, and T. G. Garwood, to Otis Engineering Corp. Well packer. 2,948,338, 8-9-60, Cl. 166-123.
- Rault, Pierre A. A., to Compagnie Industrielle des Telephones. Means for assembling and/or disassembling two members or units. 2,941,285, 6-21-60, Cl. 29-267.
- Raup, Clyde N. Slidable and detachable interlocking connection of a vehicle body to a chassis. 2,927,817, 3-8-60, Cl. 296-35.
- Rausch, Francis C. Corn planter attachment. 2,925,793, 2-23-60, Cl. 111-15.
- Rausch, Hans. See—
- Pajenkamp, Horst, Russ, zur Strassen, Meyer, and Rausch. 2,945,688.



- Rausch, Hans, K. Meyer, and K.-H. Lintermanns, to Metallgesellschaft Aktiengesellschaft. Process of drying and sintering ores. 2,941,881, 6-21-60, Cl. 75-5.
- Rausch, Maurice K., to Sinclair Refining Co. Method of improving the color of a petroleum resin by hydrofining. 2,931,766, 4-5-60, Cl. 208-45.
- Rausch, Maurice K., and T. A. Francis, to Sinclair Refining Co. Process and composition for preparing sulfur-chlorinated cutting oils. 2,943,990, 7-5-60, Cl. 208-18.
- Rausch, Maurice K., and W. B. Watson, to Sinclair Refining Co. Process for preparing improved lubricating oils by acid treating then hydrofinishing the lubricating oils. 2,944,015, 7-5-60, Cl. 208-264.
- Rausch, Robert H., to General Electric Co. Color burst gating circuit. 2,956,125, 10-11-60, Cl. 178-69.5.
- Rauscher, Walter M., to The General Tire & Rubber Co. Camelback roll. 2,966,259, 12-27-60, Cl. 206-58.
- Rauth, Adolph W. System of testing gas meters. 2,931,216, 4-5-60, Cl. 73-3.
- Ravazzi, Ferdinando, to Rumianca S.p.A. Method for manufacturing phospho-nitrogenous fertilizers. 2,965,470, 12-20-60, Cl. 71-40.
- Rave, Joseph A., Jr.: See—  
Fuldner, Herbert M., Morgan, Rave, and Baldwin. 2,946,265.
- Rave, Joseph A., Jr., to The Cincinnati Milling Machine Co. Slowdown control for servosystem circuit. 2,951,193, 8-30-60, Cl. 318-448.
- Raven Industries, Inc.: See—  
Yost, Paul E. 2,932,469.
- Ravensberg G.m.b.H., Chemische Fabrik: See—  
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- Raventos, James: See—  
Suckling, Charles W., and Raventos. 2,921,098.
- Raver, Francis M., to Borg-Warner Corp. Ice bin level control mechanisms. 2,940,275, 6-14-60, Cl. 62-137.
- Raver, Francis M., to Borg-Warner Corp. Ice making machines. 2,959,033, 11-8-60, Cl. 62-347.
- Raver, Norman, to International Telephone and Telegraph Corp. Bistable circuit. 2,955,214, 10-4-60, Cl. 307-88.5.
- Ravich, Leonard E., to Hupp Corp. Infra red cell methods and applications. 2,939,938, 6-7-60, Cl. 219-20.
- Ravis, Herbert J.: See—  
Ravis, Norman D. and H. J. 2,919,799.
- Ravlis, Norman D. and H. J. Phonograph record jackets. 2,919,799, 1-5-60, Cl. 206-62.
- Rawco Instruments, Inc.: See—  
Williams, Robert A. 2,959,648.
- Rawitz, Herbert: See—  
Wing, Willis G., Garbarini, Wendt, and Rawitz. 2,936,627.
- Rawlings, John L.: See—  
Kollmorgen, Ernst O., and Rawlings. 2,955,512.
- Rawlings, Roland G.: See—  
Baumstark, Leopold, Jr., and Rawlings. 2,945,404.
- Rawlins, Philip J. T.: See—  
Long, William R., and Rawlins. 2,940,615.
- Rawlins, Robert E., to Lockheed Aircraft Corp. Frequency modulation signal generator. 2,944,226, 7-5-60, Cl. 332-19.
- Rawlins, Robert E., to Lockheed Aircraft Corp. Radar aiming angle analyzer. 2,944,256, 7-5-60, Cl. 343-113.
- Rawlins, Robert E., and R. A. Andersen, to Dynac Inc. Wide band R-C oscillator. 2,930,992, 3-29-60, Cl. 331-141.
- Rawson, Peter J., and D. Chisholm, to The English Electric Co. Ltd. Multi-way fluid selector valves. 2,964,061, 12-13-60, Cl. 137-627.
- Ray, Charles A., Jr., to Phillips Petroleum Co. Methylvinylpyridine recovery. 2,922,754, 1-26-60, Cl. 202-74.
- Ray, Edward, D. D. Carrell, and R. G. Gido, to Thompson Ramo Wooldridge Inc. Compressor. 2,954,155, 9-27-60, Cl. 230-53.
- Ray, Francis A., and G. T. Myers, to Bethlehem Steel Co. Coll stripping apparatus. 2,964,203, 12-13-60, Cl. 214-130.
- Ray, Frank E. Halter. 2,932,930, 4-19-60, Cl. 54-24.
- Ray Glass Ltd.: See—  
Szulc, Nicholas A., and Pugl. 2,926,885.
- Ray, Gardner C., and F. N. Ruehlen, to Phillips Petroleum Co. Aqueous lactones as selective solvents for diolefins. 2,961,473, 11-22-60, Cl. 260-681.5.
- Ray, Homer A., Jr., to Photogrammetry, Inc. Photo rectifier. 2,951,291, 9-6-60, Cl. 33-1.
- Ray, John. Specialized waveguide system. 2,927,288, 3-1-60, Cl. 333-98.
- Ray, Kelvin J.: See—  
Zoschak, Robert J., and Ray. 2,946,187.
- Ray, Leonard N., Jr.: See—  
Feigley, David A., Jr., and Ray. 2,940,892.  
Feigley, David A., Jr., and Ray. 2,940,893.
- Ray, Maury L.: See—  
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- Ray, Nicolas M., to Air Associates, Inc. Valve with seal construction. 2,927,767, 3-8-60, Cl. 251-210.
- Ray, Pasco W.: See—  
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- Ray, Raymond: See—  
Gilliland, Joe E., Ray, and White. 2,924,508.  
Gilliland, Joe E., Ray, and White. 2,955,914.
- Ray, Robert F., E. S. Ansell, and G. R. Stephens, to Lockheed Aircraft Corp. Auxiliary fuel tank. 2,955,787, 10-11-60, Cl. 244-135.
- Ray, Sylvan E. and M. L. Optical lens scribe. 2,930,130, 3-29-60, Cl. 33-28.
- Ray, Watson A., to Texaco Inc. Stabilized sorptive aluminosilicate particles and process therefor. 2,947,709, 8-2-60, Cl. 252-455.
- Ray, Watson A., to Texaco Inc. Tableting process for granular porous solid particles. 2,963,448, 12-6-60, Cl. 252-455.
- Ray, William A., to General Controls Co. Solenoid device for use with gas valves. 2,920,254, 1-5-60, Cl. 317-191.
- Ray, William A., to General Controls Co. Dashpot controlled solenoid valve. 2,923,519, 2-2-60, Cl. 251-54.
- Ray, William A., to General Controls Co. Hum-free solenoid mechanism. 2,923,520, 2-2-60, Cl. 251-54.
- Ray, William A., to General Controls Co. Hum-free solenoid mechanism. 2,923,521, 2-2-60, Cl. 251-54.
- Ray, William A., to General Controls Co. Valve operating means. 2,925,988, 2-23-60, Cl. 251-68.
- Ray, William A., to General Controls Co. Gear pump operated hydraulic motor. 2,929,330, 3-22-60, Cl. 103-126.
- Ray, William A., to General Controls Co. Fuel control system. 2,932,455, 4-12-60, Cl. 236-68.
- Ray, William A., to General Controls Co. Safety valve and system for gaseous fuel burners. 2,939,523, 6-7-60, Cl. 158-131.
- Ray, William A., to General Controls Co. Solenoid operated gas valve with solenoid retarding means. 2,947,510, 8-2-60, Cl. 251-54.
- Ray, William A., to General Controls Co. Combined relay and high inductance coil. 2,947,836, 8-2-60, Cl. 200-87.
- Ray, William A., to General Controls Co. Control device for flow of fluids. 2,957,518, 10-25-60, Cl. 158-129.
- Ray, William A., to General Controls Co. Laundry dryer control system. 2,965,367, 12-20-60, Cl. 263-33.
- Ray, William E.: See—  
Anderson, William K., and Ray. 2,935,401.
- Ray, William H., to United States Steel Corp. Grab bucket. 2,923,075, 2-2-60, Cl. 37-184.
- Raybestos-Manhattan, Inc.: See—  
Beucker, Albert W. 2,940,125.  
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Jensen, Warren R. 2,946,412.  
Jensen, Warren R., and Lacroix. 2,940,556.  
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- Steff, Eugene P., and Coleman. 2,943,010.
- Raybon, Sidney C. Rotary internal combustion engine. 2,949,897, 8-23-60, Cl. 123-16.
- Raybould, Delmar H. Manure spreader for dump truck. 2,947,543, 8-2-60, Cl. 275-5.
- Rayburn, Charles C.: See—  
Thorson, John R., Black, and Rayburn. 2,950,070.
- Rayburn, Charles C., to Illinois Tool Works. Method for forming a wire connector. 2,948,953, 8-16-60, Cl. 29-155.55.
- Rayburn, Charles C., to Illinois Tool Works. Low value wound capacitor. 2,949,570, 8-16-60, Cl. 317-260.
- Rayburn, Charles C., H. A. Schmidt, and W. N. Knutsen, to Illinois Tool Works. Pattern printer. 2,947,247, 8-2-60, Cl. 101-126.
- Rayburn, Charles C., J. G. Black, Jr., and G. R. Perez, to Illinois Tool Works. Resistor tape applicator. 2,949,148, 8-16-60, Cl. 154-1.
- Rayburn, Donald H., O. J. Pedersen, and J. J. Fischer, to Pocono Fabricators, Inc. Safety helmet with face guard. 2,944,263, 7-12-60, Cl. 2-9.
- Rayburn, Vincent A., to Western Electric Co., Inc. Apparatus for making metal pellets. 2,961,720, 11-29-60, Cl. 22-1.
- Raydt, Ulrich, and K. H. Hahne, to Osnabrücker Kupfer- und Drahtwerk. Corrugated protecting sheath on a corrugated cable sheath, process and apparatus for its producing. 2,956,305, 10-18-60, Cl. 18-13.
- Raydt, Ulrich, and K. H. Hahne, to Osnabrücker Kupfer- und Drahtwerk. Method of forming a suspension-type electric transmission cable. 2,956,311, 10-18-60, Cl. 18-59.
- Raydt, Ulrich E., and K. H. Hahne, to Osnabrücker Kupfer- und Drahtwerk. Tool and apparatus for producing cable sheaths. 2,964,090, 12-13-60, Cl. 153-71.
- Rayer, Richard J., and L. A. Archer, to The Pyle-National Co. Automatic train line connector. 2,954,543, 9-27-60, Cl. 339-64.
- Rayfield, Frederick J., Jr., to Champion Pneumatic Machinery Co. Low oil level control. 2,966,295, 12-27-60, Cl. 230-18.
- Rayfield, John F., and R. L. Geer, to United States of America, Air Force. Deceleration device. 2,961,204, 11-22-60, Cl. 244-138.
- Raymond, Chester A., to Organ Industries, Inc. Capture-type combination action for organs. 2,954,716, 10-4-60, Cl. 184-337.
- Raymond Corp., The: See—  
Gibson, Christian D. 2,925,887.  
Gibson, Christian D. 2,942,679.
- Raymond De-Icer & Engineering Co.: See—  
Corzine, Luke H. 2,923,978.
- Raymond, Eugene B. Universal battery terminal post clamp. 2,935,726, 5-3-60, Cl. 339-231.
- Raymond Engineering Laboratory, Inc.: See—  
Blomgren, Axel E. 2,929,892.
- Raymond, Ernest P.: See—  
Girardot, Alfred J., Jr. 2,964,606.
- Raymond, Francis A., to R. Hoe & Co. Photoelectric relay devices. 2,964,685, 12-13-60, Cl. 317-124.



- Raymond, Francois H.: *See*—  
Bafour, Georges P., Blanchard, and Raymond. 2,947,357.  
Giao, Antonio, and Raymond. 2,925,956.
- Raymond, Francois H., to Societe d'Electronique et d'Automatisme. Binary coded information stores. 2,930,896, 3-29-60, Cl. 250-213.
- Raymond, Francois H., to Societe d'Electronique et d'Automatisme. Magnetic record and/or playback heads and control arrangement therefor. 2,966,666, 12-27-60, Cl. 340-174.1.
- Raymond, Henry L., to Dictaphone Corp. Dual push button control system. 2,962,633, 11-29-60, Cl. 317-135.
- Raymond, Horace H., to Veeder-Root Inc. Electrical control device for counters. 2,936,954, 5-17-60, Cl. 235-132.
- Raymond International Inc.: *See*—  
Hazak, John T. 2,920,456.  
Smith, Edward A. 2,924,949.  
Smith, Edward A. 2,944,403.  
Smith, Edward A. 2,948,122.  
Smith, Edward A. 2,963,100.  
Upson, Maxwell M. 2,927,435.  
Upson, Maxwell M. 2,933,898.
- Raymond, Kenneth W., to General Electric Co. Polyester-vinylidene monomer composition containing a metal salt and an organic acid chloride and process of polymerizing same. 2,931,784, 4-5-60, Cl. 260-45.4.
- Raymond, Malcolm L. Hemostat. 2,962,024, 11-29-60, Cl. 128-325.
- Raymond, Paul L.: *See*—  
Baer, Charles A., Gardner, and Raymond. 2,952,569.  
Raymont, William R., to Thompson Ramo Wooldridge Inc. Powder metallurgy. 2,946,680, 7-26-60, Cl. 75-200.
- Rayner, Claude A. A., to Ciba Aktiengesellschaft. Wood surfaced floor or wall coverings. 2,932,596, 4-12-60, Cl. 154-45.9.
- Rayner, Claude A. A., to Ciba Ltd. Process for securing adhesion between surfaces and material therefor. 2,943,011, 6-28-60, Cl. 154-140.
- Raynes, Bertram C., to Horizons Titanium Corp. Electrolytic process. 2,955,078, 10-4-60, Cl. 204-64.
- Raynes, Bertram C., and S. S. Carlton, to Horizons Titanium Corp. Electrolytic apparatus. 2,937,128, 5-17-60, Cl. 204-244.
- Raynes, Burt F., to Rohr Aircraft Corp. Cam controlled metal forming machine. 2,940,499, 6-14-60, Cl. 153-32.
- Raynes, Burt F., to Rohr Aircraft Corp. Machine for forming sheet metal. 2,944,500, 7-12-60, Cl. 113-43.
- Raynes, Burt F., to Rohr Aircraft Corp. Brazing furnace for honeycomb panels. 2,956,099, 10-11-60, Cl. 13-20.
- Raynor, Arthur E., and G. W. Bouton, to The Babcock & Wilcox Co. Vapor generating units. 2,931,345, 4-5-60, Cl. 122-479.
- Raynor Mfg. Co.: *See*—  
Neisewander, Ray H. 2,928,462.  
Neisewander, Ray H. 2,931,435.
- Raynor, Russell C.: *See*—  
Schreiber, Charles A., and Raynor. 2,960,231.
- Raynor, Warren S., to Mathews Conveyor Co. Pallet loading machine. 2,942,717, 6-28-60, Cl. 198-21.
- Raynor, Warren S., to Mathews Conveyor Co. Pallet loading machines. 2,946,465, 7-26-60, Cl. 214-6.
- Raynsford, Charles K., and L. S. Merrick, to Vitro Corp. of America. Analog-to-digital converter. 2,941,196, 6-14-60, Cl. 340-347.
- Rayonier Inc.: *See*—  
Gray, Kenneth R., Steinberg, and Crosby. 2,938,893.  
Mitchell, Reid L. 2,952,508.  
Mitchell, Reid L., Berry, and Wadman. 2,937,922.  
Mitchell, Reid L., Berry, and Wadman. 2,942,931.  
Van Blaricom Lloyd E., and Gray. 2,964,469.
- Raytheon Co.: *See*—  
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Asquith, Harold M. 2,930,036.  
Bakura, Joseph, and Pritchard. 2,943,284.  
Ball, Eldon W. 2,922,161.  
Bassett, Margaret. 2,920,226.  
Batchelder, Laurence. 2,949,773.  
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Beebe, John N., and Kirkland. 2,964,729.  
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Bigelow, John F. 2,948,869.  
Bonia, Walter J., and Olbrych. 2,946,958.  
Brown, William C. 2,933,723.  
Carter, Howell L., Jr. 2,933,694.  
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Cockrill, Huston W. 2,936,398.  
Dench, Edward C. 2,922,956.  
Dench, Edward C. 2,924,740.  
Dench, Edward C. 2,925,521.  
Dench, Edward C. 2,933,638.  
Dench, Edward C. 2,938,182.  
Dench, Edward C. 2,942,142.  
Dench, Edward C. 2,963,621.  
Freedman, George. 2,948,836.  
Fryklund, Robert A. 2,939,105.  
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Haagensen, Duane B. 2,920,174.  
Harrison, Bertram M. 2,962,244.  
Hatton, William L. 2,964,624.  
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- Raytheon Co.: *See*—Continued  
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Irvine, John W., Jr. 2,944,874.  
Keith, Weldon W. 2,920,294.  
Kennedy, David P. 2,952,817.  
Kodis, Robert D., Ruhman, and Guterman. 2,935,735.  
La Rue, Albert D. 2,922,075.  
La Rue, Albert D. 2,953,753.  
Levertton, Walter F. 2,944,875.  
Maartmann-Moe, Ragnvald. 2,956,255.  
Marholz, Richard C. 2,936,448.  
Osepchuk, John M. 2,925,518.  
Parziale, Ernest V. 2,955,242.  
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Schall, Louis H. 2,956,143.  
Shapiro, Sol. 2,964,704.  
Steen, Gottfrid W. 2,952,790.  
Sutherland, Norman V., and Maitland. 2,954,140.  
Weil, Thomas A. 2,930,962.  
Wetmore, Arthur R. 2,928,018.  
Wheeler, Gershon J. 2,966,638.  
Woo, Way D., and Wilkins. 2,962,339.
- Rdzok, Edward J., and W. E. Grundy, to Abbott Laboratories. Sterility testing means. 2,931,757, 4-5-60, Cl. 195-103.5.
- Re, Vito, to General Electric Co. Control circuits for automatic clothes washing machines. 2,957,329, 10-25-60, Cl. 68-12.
- Rea, James O., and R. B. Wheat; said Rea assor. of 7½% to R. Ashley, and said Wheat assor. of 7½% to R. Ashley and 42½% to Varo Mfg. Co. Garage door locking and release device. 2,927,811, 3-8-60, Cl. 292-164.
- Rea, William F., to Johns-Manville Fiber Glass Inc. Process and apparatus for producing fibrous mats. 2,961,698, 11-29-60, Cl. 18-25.
- Read, Alvin A., to Iowa State College Research Foundation, Inc. Counting circuit. 2,927,246, 3-1-60, Cl. 315-84.6.
- Read, Chester L.: *See*—  
Long, Robert B., Luchessi, Tarmy, and Read. 2,959,530.  
Smith, Charles J., Read, and Schatzka. 2,935,150.
- Read, Chester L., and W. O. Heilman, to Esso Research and Engineering Co. Process for producing high quality fuels from crude residua. 2,947,631, 8-2-60, Cl. 208-55.
- Read, Emanuel F., to Collins Radio Co. Automatic gain control circuit for use in transistor amplifiers. 2,949,533, 8-16-60, Cl. 250-20.
- Read, John A., to Joy Mfg. Co. Hinge connection for pivoted feed leg type rock drills. 2,929,611, 3-22-60, Cl. 255-45.
- Read, Raymond T.: *See*—  
Burnard, Edward O., and Read. 2,960,080.
- Read, Robert L. Hand plate for swimming and aquatic therapy. 2,941,218, 6-21-60, Cl. 9-307.
- Read, Robert S., to Kelvin & Hughes Ltd. Gyroscopes embodying mercury switches. 2,947,177, 8-2-60, Cl. 74-5.6.
- Read, Roland R.: *See*—  
Sanders, Robert G., Read, and Palazzolo. 2,920,012.
- Readal, Robert L.: *See*—  
Johnson, Edwin W., Itoh, and Readal. 2,933,594.
- Reader, Lawrence J., to Foote Mineral Co. Process for recovery of lithium hydroxide from lithium phosphates. 2,931,703, 4-5-60, Cl. 23-25.
- Reading, Alpheus E., Jr., to Textile Machine Works. Yarn clamping and severing means for knitting machines. 2,934,922, 5-3-60, Cl. 66-145.
- Reading, Walter J. Egg grader. 2,961,087, 11-22-60, Cl. 198-33.
- Ready, Harold R.: *See*—  
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- Ready, William C.: *See*—  
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- Reager, Albert B. Electrical cord plug holding device. 2,943,138, 6-28-60, Cl. 174-86.
- Real Silk Hosiery Mills, Inc.: *See*—  
Furge, Raymond G. 2,921,455.
- Realisations Ultrasoniques: *See*—  
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- Realist, Inc.: *See*—  
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Giwosky, Harry L. 2,958,470.
- Realty and Industrial Corp.: *See*—  
Gubelmann, William S. 2,949,229.
- Ream, Joseph T., Jr., and R. Fisher, to United States of America, Army. Rubber shear mount. 2,956,478, 10-18-60, Cl. 89-1.7.
- Ream, Lewis T.: *See*—  
Hunt, David G., and Ream. 2,958,096.
- Reamer, Thomas E., and J. E. Weigel, to Shell Oil Co. Lubricating compositions. 2,958,661, 11-1-60, Cl. 252-33.6.
- Reams, Clinton A.: *See*—  
Machol, Morris R., and Reams. 2,963,870.
- Reaney, Warford A. Bed construction. 2,920,330, 1-12-60, Cl. 5-8.
- Reap, William J., to International Business Machines Corp. Feedback latch. 2,956,233, 10-11-60, Cl. 328-225.
- Rear, Melvin K.: *See*—  
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- Reardon, John W., to General Electric Co. Antifriction bearing lubricator. 2,921,821, 1-19-60, Cl. 308-187.
- Reaser, Wilbur W., to Douglas Aircraft Co., Inc. Variable cooling turbine. 2,940,280, 6-14-60, Cl. 62-402.



- Reason, Daniel R., and C. A. Bay, to General Dynamics Corp. (Convair Division). Clamping device. 2,919,614, 1-5-60, Cl. 81-21.
- Reaves, Edward G. Fluorescent lighting. 2,943,238, 6-28-60, Cl. 315-100.
- Reaves, John H., to United States of America, Commerce. Low capacitance power supply. 2,955,246, 10-4-60, Cl. 321-8.
- Reaves, Robert S., to Allis-Chalmers Mfg. Co. Lift for planter marker. 2,939,537, 6-7-60, Cl. 172-128.
- Rebeck, James W.: *See*—  
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- Reber, Clarence G.: *See*—  
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- Reber, Rufus K.: *See*—  
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- Rebrnak, Adolph, and E. C. Michaels, to American-Marietta Co. Angularly-supported sponge mop. 2,961,676, 11-29-60, Cl. 15-119.
- Rebholz, Elmer F.: *See*—  
Barnes, James F. and Rebholz. 2,954,803.
- Rebikoff, Dimitri I. Two-seater submarine vessel. 2,948,247, 8-9-60, Cl. 114-16.
- Rebling, Robert C.: *See*—  
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- Rebling, Rolf: *See*—  
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- Rebne, Harold K.: *See*—  
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- Rebold, Rudolph, to Galloway Chemical Corp. Organic mercury compositions. 2,958,625, 11-1-60, Cl. 168-42.
- Reboux, Jean, to Societe de Traitements Electrolytiques & Electrothermiques. Induction heating systems. 2,954,453, 9-27-60, Cl. 219-10.75.
- Rebourn, Edward P. Check protector. 2,959,121, 11-8-60, Cl. 101-19.
- Rebrich, Leonard M., to National Lead Co. Preparation of metal salts. 2,959,605, 11-8-60, Cl. 260-436.
- Rebuffon, Martin, to Westinghouse Electric Corp. Arc welding apparatus. 2,965,803, 12-20-60, Cl. 315-174.
- Reburn, William T., W. A. Gale, and E. C. Cecil, to American Potash & Chemical Corp. Manufacture of lithium tetraborate. 2,957,749, 10-25-60, Cl. 23-59.
- Recarna, William. Skipping rope. 2,942,881, 6-28-60, Cl. 272-75.
- Rechione, Dominic A. Metal slat rolling door having window therein. 2,954,081, 9-27-60, Cl. 160-219.
- Recherches et Propagande Scientifiques: *See*—  
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- Recherches Etudes Production R.E.P.: *See*—  
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- Rechtin, Clarence: *See*—  
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- Reck, Herbert J. and H. W. Feeding and arranging mechanism for eggs. 2,919,787, 1-5-60, Cl. 198-30.
- Reck, Hilbert W.: *See*—  
Reck, Herbert J. and H. W. 2,919,787.
- Reck, Richard A.: *See*—  
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Harwood, James, Reck, and Abramitis. 2,924,552.  
Harwood, James, Reck, and Abramitis. 2,928,856.
- Recker, Florian B. Couplings. 2,948,559, 8-9-60, Cl. 287-119.
- Reckert, Gerhard: *See*—  
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- Reckhow, Warren A.: *See*—  
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- Reckitt & Colman Ltd.: *See*—  
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- Reckman, Albert C., R. E. Francis, and H. F. Barklage. Apparatus for producing pre-cast concrete members. 2,965,948, 12-27-60, Cl. 25-41.
- Recold Corp.: *See*—  
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- Recordati-Laboratorio Farmacologico S.p.A.: *See*—  
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- Rectenwald, Richard L. Earth frame presses. 2,938,454, 5-31-60, Cl. 100-269.
- Rector, Marion R., and W. E. Cohrs, to The Dow Chemical Co. Process for controlling the molecular weight of vinylidene chloride polymers. 2,964,508, 12-13-60, Cl. 260-87.7.
- Reda Pump Co.: *See*—  
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Arutunoff, Armais. 2,951,165.
- Redaelli, Edoardo. Ribbon loom with automatic detection of weft thread exhaustion and possible automatic replacement of the filling bobbin. 2,951,510, 9-6-60, Cl. 139-243.
- Reddi, Mullaipudi M.: *See*—  
Bauerlein, Carl C., and Reddi. 2,950,684.  
Bauerlein, Carl C., Reddi, and Bedocs. 2,923,134.
- Reddi, Mullaipudi M., to The Dole Valve Co. Automatic ice cube maker. 2,949,749, 8-23-60, Cl. 62-137.
- Reddick, John A.: *See*—  
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- Reddick, Leonard L., R. M. Fort, E. J. Baldi, D. K. Harmon, and H. P. Ziegelbein, to Producers Creamery Co., Inc. Spray cleaning. 2,925,223, 2-16-60, Cl. 239-441.
- Redding, Albert Jr., to U.S. Electrical Motors, Inc. Stator structures for dynamo-electric machines. 2,953,699, 9-20-60, Cl. 310-258.
- Redding, Edward M.: *See*—  
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Wilckens, Elbe, Rainer, Germak, Hamilton, and Redding. 2,937,404.
- Reddy, John W. Foot rest and work platform attachment for ladders. 2,948,349, 8-9-60, Cl. 182-121.
- Reddy, Robert B., to United States of America, Navy. Trajectory simulator. 2,929,156, 3-22-60, Cl. 35-10.4.
- Redel, Joseph: *See*—  
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- Redel, Joseph, to Chimie et Atomistique. New glutaconimides and their process of preparation. 2,935,512, 5-3-60, Cl. 260-281.
- Redemann, C. Ernst, and H. J. Tschirner, to The Fluor Corp., Ltd. Treatment of copper leach solutions. 2,923,618, 2-2-60, Cl. 75-108.
- Redemann, Carl T.: *See*—  
Nex, Robert W., and Redemann. 2,959,556.
- Redemann, Clio E., to The Fluor Corp., Ltd. Process for the treatment of copper leach solutions. 2,927,018, 3-1-60, Cl. 75-108.
- Redemann, Clio E., and F. E. Miller, to The Fluor Corp. Ltd. Separation of carbon dioxide from gaseous mixtures. 2,926,752, 3-1-60, Cl. 183-115.
- Reder, Friedrich H., to United States of America, Army. Molecular resonance devices. 2,921,269, 1-12-60, Cl. 331-94.
- Reder, Friedrich H., to United States of America, Army. Molecular beam focusing devices. 2,933,646, 4-19-60, Cl. 315-111.
- Reder, Friedrich H., to United States of America, Army. Atomic resonance devices. 2,956,238, 10-11-60, Cl. 331-3.
- Reder, Friedrich H., to United States of America, Army. Nitrogen traps for molecular resonance devices. 2,966,341, 12-27-60, Cl. 257-263.
- Reder, Friedrich H., F. O. Vonbun, and G. M. R. Winkler, to United States of America, Army. Stabilization of a maser cavity. 2,933,696, 4-19-60, Cl. 331-2.
- Rederaktiebolaget Nordstjernan: *See*—  
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- Redfield, George E., to Radio Corp. of America. Multi-speed phonograph record player. 2,943,861, 7-5-60, Cl. 274-9.
- Redfield Gun Sight Co.: *See*—  
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Kollmorgen, Ernst O., and Rawlings. 2,955,512.
- Redfield, Monroe, to R. A. Shaper. Camera. 2,937,583, 5-24-60, Cl. 95-11.
- Redhead, Paul A., to National Research Council. Ionization gauge for the measurement of low pressures. 2,937,295, 5-17-60, Cl. 313-7.
- Redheffer, Raymond M.: *See*—  
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- Redick, David C., and J. R. Wilson, to General Motors Corp. Electrical device. 2,958,069, 10-25-60, Cl. 339-220.
- Rediess, Herman H.: *See*—  
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- Redi-Knot, Inc.: *See*—  
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- Redi-Load Body & Pallet Co., The: *See*—  
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- Reding, Frederick P.: *See*—  
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- Reding, Frederick P., to Union Carbide Corp. Process for the high temperature, high pressure shear degradation of solid polyethylene. 2,935,502, 5-3-60, Cl. 260-94.9.
- Redington, F. B. Co.: *See*—  
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Engleson, Harry E., and Hartbauer. 2,922,504.  
Engleson, Harry E., and Sramek. 2,926,833.  
Engleson, Harry E., and Sramek. 2,934,869.  
Engleson, Harry E., and Sramek. 2,954,115.  
Engleson, Harry E., and Sramek. 2,959,335.  
Engleson, Harry E., and Sramek. 2,966,100.  
Hartbauer, Ellsworth A. 2,956,483.  
Sramek, Elmer D., and Vogel. 2,953,880.
- Redington, Rowland W.: *See*—  
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- Redington, Rowland W., and P. J. Van Heerden, to General Electric Co. Infrared camera tube. 2,928,971, 3-15-60, Cl. 313-78.
- Red Jacket Mfg. Co.: *See*—  
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Deters, Elmer M. 2,952,388.  
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Fowler, Kirk, Brown, and Deters. 2,952,389.  
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- Redlich, Horst, to Teldec-Telefunken-Deca Schallplatten G.m.b.H. Apparatus for sound recording. 2,963,556, 12-6-60, Cl. 179-100.4.
- Redlich, Horst, H.-J. Klemp, and G. Neumann, to Teldec Telefunken-Deca Schallplatten G.m.b.H. Method and apparatus for dual sound track recording. 2,962,561, 11-29-60, Cl. 179-100.4.



- Redman, Horace E., and P. E. Weiner, to Ethyl Corp. Manufacture of dichlorobenzenes. 2,943,114, 6-28-60, Cl. 260-650.
- Redmayne, Leonard : *See*—  
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- Redmond, Benjamin and S. S. Packaging machine. 2,961,814, 11-29-60, Cl. 53-225.
- Redmond, Sanford S. : *See*—  
Redmond, Benjamin and S. S. 2,961,814.
- Redner, Robert P., to General Filters, Inc. Humidifier structure. 2,934,058, 4-26-60, Cl. 126-113.
- Redpath, Donald C., and T. C. Ross, to Avco Mfg. Corp. Bistable semiconductor circuit. 2,939,967, 6-7-60, Cl. 307-88.5.
- Redpath, John R. : *See*—  
Ryder, Fred, and Redpath. 2,957,602.
- Red Star Yeast and Products Co. : *See*—  
Peppler, Henry J., and Thorn. 2,922,748.
- Reeber, Rudolf, and P. W. Irmischer, to G. M. Paff A-G. Looper lubricating system for sewing machines. 2,961,984, 11-29-60, Cl. 112-256.
- Reece, Albert B. J. : *See*—  
Fenemore, Alan S., and Reece. 2,920,571.
- Reece, Clark B. Combined insulation trim and damper positioning means for ducts. 2,966,169, 12-27-60, Cl. 137-375.
- Ree-Cel Corp. : *See*—  
Hughes, William L. 2,949,370.
- Reed, Albert E., and Co. Ltd. : *See*—  
Western, Arthur W., and Gardner. 2,928,464.
- Reed, Alejandro E. : *See*—  
Aira, Julio S., and Reed. 2,964,930.
- Reed, Arthur M., to Charles R. Stevens, Inc. Apparatus for delivering and stacking blocks of sheets and the like. 2,940,616, 6-14-60, Cl. 214-6.
- Reed, Arthur M., to Charles R. Stevens, Inc. Apparatus for removing blocks of sheets and the like from stacks and feeding them forwardly. 2,940,617, 6-14-60, Cl. 214-8.5.
- Reed, Bayard C. : *See*—  
Ayala, Carl, and Reed. 2,933,832.
- Reed, Bayard C., to Marvin I. Glass. Toy. 2,960,791, 11-22-60, Cl. 46-39.
- Reed, Clair S., to Van Dresser Specialties Corp. Covering for spring structure. 2,940,512, 6-14-60, Cl. 155-181.
- Reed, David A., Jr. : *See*—  
Eckert, Robert L., and Reed. 2,959,024.
- Reed, Davis W., to Shell Oil Co. Bottom-hole pressure testing apparatus. 2,964,942, 12-20-60, Cl. 73-155.
- Reed, Edwin E. : *See*—  
Dyer, Alvah F., and Reed. 2,960,106.  
Simonsen, Howard E., and Reed. 2,952,151.
- Reed, Edwin E., to Phillips Petroleum Co. Liquid dispensing and receiving system. 2,932,331, 4-12-60, Cl. 141-192.
- Reed, Edwin E., to Phillips Petroleum Co. Method of operating a pressurized storage system. 2,952,135, 9-13-60, Cl. 62-45.
- Reed, Edwin E., and H. E. La Rue, to Phillips Petroleum Co. Fluid handling structure. 2,943,636, 7-5-60, Cl. 137-220.
- Reed, Elden L. : *See*—  
Endrezze, William E., and Reed. 2,922,421.
- Reed, Evelyn : *See*—  
Reed, Roland D. 2,945,372.
- Reed, Francis E., to Devoe & Reynolds Co., Inc. Vinsol-epoxy compositions. 2,948,694, 8-9-60, Cl. 260-24.
- Reed, Frank. Method for filling a hole in metal sheeting. 2,953,847, 9-27-60, Cl. 29-401.
- Reed, Frederick P., to United States of America, Army. Sleeve-type magazine catch and dust cover for firearms. 2,933,842, 4-26-60, Cl. 42-18.
- Reed, Frederick P., to United States of America, Army. Bolt actuated cover for ejection ports in firearm receivers. 2,940,201, 6-14-60, Cl. 42-16.
- Reed, Frederick P., to United States of America, Army. Decelerating device for firearms with telescopic bolts. 2,941,449, 8-21-60, Cl. 89-185.
- Reed, Frederick P., to United States of America, Army. Firing pin release for semi-automatic firearms. 2,965,005, 12-20-60, Cl. 89-139.
- Reed, George R. : *See*—  
Hunger, James C., and Reed. 2,946,604.
- Reed, Glen H. : *See*—  
Singer, Oscar C., and Reed. 2,956,750.
- Reed, Glenn L. : *See*—  
Hedlund, Swan, and Reed. 2,955,300.
- Reed, Harry T. Harness. 2,961,816, 11-29-60, Cl. 54-24.
- Reed, Hugh W. B., and P. Smith. Polymerization of ethylene and catalyst therefor. 2,959,579, 11-8-60, Cl. 260-94.9.
- Reed, John, to United States of America, Navy. Microwave matching plug. 2,922,970, 1-26-60, Cl. 333-98.
- Reed, Lawrence N., to General Motors Corp. Resilient mounting for a valve stem assembly or the like. 2,962,073, 11-29-60, Cl. 152-427.
- Reed, Lester J., and R. C. Thomas, Jr., to Research Corp. Recovery of lipolic acid. 2,961,448, 11-22-60, Cl. 260-327.
- Reed-Lethbridge, William. Windscreen wipers. 2,943,342, 7-5-60, Cl. 15-250.19.
- Reed, Linwood L., to Union Steel Products Co. Crushing machine. 2,949,078, 8-16-60, Cl. 100-43.
- Reed, Linwood L., and J. W. McKim, to Union Steel Products Co. Machine for removing baked goods and the like from pans. 2,927,707, 3-8-60, Cl. 214-309.
- Reed Mfg. Co. : *See*—  
Bjalme, Bengt G. 2,938,221.  
Bjalme, Bengt G. 2,938,222.  
Jonasson, Axel V. 2,956,339.
- Reed, Margaret W., to Union Steel Products Co. Utility stand. 2,937,761, 5-24-60, Cl. 211-71.
- Reed, Maurice T., Jr. Chain driven electric tailgate loader. 2,921,700, 1-19-60, Cl. 214-75.
- Reed, Norman H. Shoe shine kit. 2,943,344, 7-5-60, Cl. 15-258.
- Reed, Paul W., to Illinois Tool Works. Electrical module assembly. 2,956,257, 10-11-60, Cl. 339-17.
- Reed Research Inc. : *See*—  
Harmon, Gregory J. 2,936,886.  
McGuire, Thomas B. 2,920,408.  
Street, John N., and Hamilton. 2,921,125.  
Street, John N., and Hamilton. 2,921,126.
- Reed, Richard H. : *See*—  
Begovich, Nicholas A., Epstein, and Reed. 2,952,845.
- Reed, Robert D. : *See*—  
Zink, John S., Jr., Edwards, Duncan, and Reed. 2,964,121.
- Reed, Robert D., to John Zink Co. Shroud for fuel burners. 2,925,858, 2-23-60, Cl. 158-1.
- Reed, Roland D., to E. Reed and P. R. Gunter. Door latch mechanism. 2,945,372, 7-19-60, Cl. 70-92.
- Reed Roller Bit Co. : *See*—  
Eckman, Richard E. 2,964,151.  
Elliott, Charles H., and Eckman. 2,957,323.
- Reed, Theron J. Bearing support for helical feed screws. 2,926,772, 3-1-60, Cl. 198-213.
- Reed, Thomas B. : *See*—  
Anderson, John E., and Reed. 2,951,143.  
Coleman, William E., and Reed. 2,949,166.
- Reed, Wendell E., to Solar Aircraft Co. Pulse control. 2,936,579, 5-17-60, Cl. 60-35.6.
- Reed, William A. : *See*—  
Whitehouse, Irving P., and Reed. 2,947,620.
- Reed, William A., and R. A. Holman, to Republic Steel Corp. Apparatus for making flattened elongate metallic bodies with finished edges from powdered metal. 2,933,305, 4-19-60, Cl. 266-2.3.
- Reed, William O., to The Rauland Corp. Method of manufacturing screens for electron-discharge devices. 2,960,416, 11-15-60, Cl. 117-33.5.
- Reeder, Charles J., and R. M. Nelson. Portable stereo-vario viewing instrument. 2,951,417, 9-6-60, Cl. 88-29.
- Reeder, George S., Jr. : *See*—  
McKinney, Robert M., and Reeder. 2,953,434.
- Reeg, Cloyd P. : *See*—  
Oliver, Robert C., and Reeg. 2,922,757.
- Reeg, Cloyd P., and F. C. Price, to Union Oil Co. of California. Hydrorefining of heavy mineral oils. 2,943,047, 6-28-60, Cl. 208-211.
- Reeg, Ernest L. Receptacle holder. 2,936,149, 5-10-60, Cl. 248-313.
- Reehling, Harold A. : *See*—  
Kelley, Addison W., and Reehling. 2,960,382.
- Reen, Gerald K., and J. A. Trevett, to Textron Electronics, Inc. Electrohydraulic servo valve. 2,953,123, 9-20-60, Cl. 121-157.
- Reenstra, Willard A., and W. J. Ritchie, to Bell Telephone Laboratories, Inc. A.C. coding systems for multiple load selection. 2,946,043, 7-19-60, Cl. 340-147.
- Reents, August C., and H. W. Keller, to Illinois Water Treatment Co. Purification of sugar solutions by molecular exclusion. 2,937,959, 5-24-60, Cl. 127-46.
- Reerink, Engbert H., to North American Phillips Co., Inc. Method of producing a compound which is capable of increasing the calcium content of the blood. 2,920,083, 1-5-60, Cl. 260-397.2.
- Rees, Byron. Water-fowl decoy apparatus or the like. 2,929,165, 3-22-60, Cl. 43-3.
- Rees, Charles E., Jr. : *See*—  
Gladden, John N., and Rees. 2,938,969.  
Gladden, John N., and Rees. 2,959,450.
- Rees, Frank X., to General Railway Signal Co. Lightning arrester. 2,923,849, 2-26-60, Cl. 313-311.
- Rees, Harry V., C. G. Ludeman, and F. B. Sellers, to Texaco Development Corp. Process for the production of fuel gas. 2,942,959, 6-28-60, Cl. 48-197.
- Rees, Harry V., and L. C. Kemp, Jr., to Texaco Development Corp. Method of preparing solid-thickened greases. 2,948,679, 8-9-60, Cl. 252-28.
- Rees, Kenneth A., J. J. Pastorek, L. M. Williams, and C. B. Herman, to Esso Research and Engineering Co. Catalytic conversion of hydrocarbons with removal of fouled material from heat exchangers. 2,945,799, 7-19-60, Cl. 208-48.
- Rees, Mahone. Utility boat tray. 2,934,385, 4-26-60, Cl. 311-17.
- Rees, Ned J., to James R. Kearney Corp. Insulator clip inserting tool. 2,921,367, 1-19-60, Cl. 29-225.
- Rees, Willis M., and R. W. Schultz, to Owens-Corning Fiberglas Corp. Surfacing sheet and method and apparatus for processing same. 2,962,385, 11-29-60, Cl. 117-45.
- Reese, Cecil E. : *See*—  
Kitson, Robert E., and Reese. 2,931,068.  
Kitson, Robert E., and Reese. 2,952,879.



- Reese, Cecil E., to E. I. du Pont de Nemours and Co. Process for melt spinning polyesters containing an alkaline earth sulfate filler. 2,924,503, 2-9-60, Cl. 18-54.
- Reese, Cecil E., to E. I. du Pont de Nemours and Co. Non-puckerable seam. 2,937,380, 5-24-60, Cl. 2-275.
- Reese, Cole L.: *See*—  
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- Reese, Davis R., and J. V. Swintosky, to Smith, Kline & French Laboratories. Novel coating material for medicaments. 2,921,883, 1-19-60, Cl. 167-82.
- Reese, Elwyn T. Two-phase system for carrying out enzymatic reactions. 2,924,555, 2-9-60, Cl. 195-116.
- Reese, Franklin L. Sash balance connectors for window structures. 2,941,237, 6-21-60, Cl. 16-197.
- Reese, Glenn A., to The Magnavox Co. Switching assembly. 2,932,699, 4-12-60, Cl. 200-19.
- Reese, Glenn A., to The Magnavox Co. Switch assembly. 2,945,931, 7-19-60, Cl. 200-90.
- Reese, Homer R., and E. G. Noyes, Jr., to Westinghouse Electric Corp. Reheat turbine apparatus. 2,920,867, 1-12-60, Cl. 253-69.
- Reese, Homer R., and J. E. Donahue, to Westinghouse Electric Corp. Elastic fluid branch conduit structure. 2,957,313, 10-25-60, Cl. 60-70.
- Reese, James H.: *See*—  
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Biemiller, Philip E., Reese, and Detwiler. 2,954,663.  
Van Horn, John A., Biemiller, and Reese. 2,948,821.  
Van Horn, John A., Biemiller, and Reese. 2,953,896.
- Reese, James H., and H. S. Detwiler, to Hamilton Watch Co. Balance wheel for electric wrist watches. 2,952,117, 9-13-60, Cl. 58-28.
- Reese, Noble. Shears. 2,937,441, 5-24-60, Cl. 30-245.
- Reese, Terrell J. Load transferring trailer hitch. 2,952,475, 9-13-60, Cl. 280-406.
- Reetz, Clement C. Molding machine for cementitious articles. 2,964,818, 12-20-60, Cl. 25-41.
- Reetz, Theodor: *See*—  
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- Reetz, Theodor, to Monsanto Chemical Co. Reaction products of tetrahalogenated quinoid compounds and trisecundary alkyl phosphites and process of making same. 2,935,518, 5-3-60, Cl. 260-396.
- Reeve, David H., to International Minerals & Chemical Corp. Preparation of fluorine compounds. 2,945,745, 7-19-60, Cl. 23-88.
- Reeve Electrical Co., Inc.: *See*—  
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- Reeve, Robert K.: *See*—  
Hartman, Grant H., Harder, Rezba, and Reeve. 2,934,434.
- Reeve, Toñi A.: *See*—  
Greenleaf, Nathaniel B., and Reeve. 2,959,799.
- Reeves, Frank S., to Dial-A-Style, Inc. Method of and means for previewing coiffures. 2,921,387, 1-19-60, Cl. 35-59.
- Reeves, George B., to West Point Mfg. Co. Floor conveyor for card sliver cans. 2,956,663, 10-18-60, Cl. 198-19.
- Reeves, Herbert M., and E. D. Hillebrand, to Geo. D. Roper Corp. Controls for broilers. 2,931,575, 4-5-60, Cl. 236-15.
- Reeves, Howard F., Jr., R. W. Ingwalson, and J. L. Rose, Jr., to Tennessee Products and Chemical Corp. Polyalkylene glycol dibenzoates, process of making same and resinous compositions plasticized therewith. 2,956,978, 10-18-60, Cl. 260-314.
- Reeves Instrument Corp.: *See*—  
Godet, Sidney. 2,943,905.  
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Godet, Sidney, and McCoy. 2,964,645.  
Guarrera, John J. 2,940,049.  
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McCoy, Rawley D. 2,966,641.  
Seay, Perry A. 2,948,474.
- Reeves, John P., to R. M. Williamson. Hydraulic piston. 2,962,978, 12-6-60, Cl. 103-225.
- Reeves, Marvin L., to Bell Telephone Laboratories, Inc. Frequency sensitive electromagnetic wave device. 2,948,868, 8-9-60, Cl. 333-73.
- Reeves, Raymond J. D.: *See*—  
Cox, Victor J., and Reeves. 2,925,309.
- Reeves, Wayne W. Window bracket support for air conditioners and like. 2,935,284, 5-3-60, Cl. 248-208.
- Reeves, Willard D. Poultry trimming machine. 2,941,238, 6-21-60, Cl. 17-11.
- Reeves, William B., to Black, Sivalls & Bryson, Inc. Method and apparatus for contacting liquids and vapors. 2,924,295, 2-9-60, Cl. 183-8.
- Reeves, William C., to I. L. Pearce. Portable winch. 2,930,585, 3-29-60, Cl. 254-186.
- Reeves, Wilson A., and R. H. Wade, to United States of America, Agriculture. Cellulose anthranilate textile fibers and process for making the same. 2,926,063, 2-23-60, Cl. 8-116.2.
- Reeves, Wilson A., and J. D. Guthrie. Flameproofing of wood. 2,927,050, 3-1-60, Cl. 154-133.
- Reeves, Wilson A., G. L. Drake, Jr., and J. D. Guthrie, to United States of America, Agriculture. Flame-resistant cellulosic textiles and process of reacting cellulose ether textiles with aziridinyl phosphine oxide or sulfide. 2,933,367, 4-19-60, Cl. 8-129.
- Refining, Unincorporated: *See*—  
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Thurman, Benjamin H. 2,958,600.
- Reflectal Corp.: *See*—  
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- Reflectone Corp.: *See*—  
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Chichester, Kenneth J., and Crocco. 2,945,101.  
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- Reflectone Electronics, Inc.: *See*—  
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- Reflector Hardware Corp.: *See*—  
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- Regal Ware, Inc.: *See*—  
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- Regan, Bernard M.: *See*—  
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- Regan Forge and Engineering Co.: *See*—  
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- Regan, Joseph F., and S. Bellak, to United States of America, Navy. Flame holder. 2,925,716, 2-23-60, Cl. 60-39.72.
- Regan, Louis M., to Regan Forge and Engineering Co. Sheave block construction. 2,923,529, 2-2-60, Cl. 254-192.
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- Regel, Elwood H., and J. A. Reid. Nose plug. 2,924,217, 2-9-60, Cl. 128-148.
- Regel, Erik, R. Wegler, and F. Grewe, to Farbenfabriken Bayer Aktiengesellschaft. Fungicidal compositions and methods employing p-chloro- $\alpha$ -thiocyano acetyl benzene. 2,923,658, 2-2-60, Cl. 167-30.
- Regent Plastics, Inc.: *See*—  
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- Reger, Martin, and H. Kubitz, to Patent-Treuhand-Gesellschaft für elektrische Glühlampen m.b.H. Electric discharge lamp with connected starting strip. 2,938,137, 5-24-60, Cl. 313-197.
- Reger, Raymond, to General Motors Corp. Valve. 2,938,541, 5-31-60, Cl. 137-550.
- Reggia, Frank: *See*—  
Spencer, Edward G., Hatcher, and Reggia. 2,961,658.
- Reggiani, Pio. Means for fastening elastic tapes to rigid frames. 2,922,170, 1-26-60, Cl. 5-194.
- Reggio, Ferdinando C. Fluid supply system. 2,942,597, 6-28-60, Cl. 123-140.
- Reggio, Ferdinando C. Engine valve mechanism. 2,962,013, 11-29-60, Cl. 123-92.
- Reggio, Ferdinando C. Regulating device. 2,965,179, 12-20-60, Cl. 170-135.72.
- Reggio, Frank P. Dispensing and applicator device. 2,952,861, 9-20-60, Cl. 15-135.
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- Regina, Louis C. Dispensing of pressurized material. 2,948,308, 8-9-60, Cl. 141-362.
- Regina Sewing Machines Corp.: *See*—  
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- Regnier, Gilbert L.: *See*—  
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- Regnier, Norman J., L. W. Schmidt, and D. E. Kefes, to Hoffman Electronics Corp. Solar energy converting apparatus or the like. 2,946,945, 7-26-60, Cl. 320-2.
- Regoli, Bengasi, and C. Di Stefano. Safety cutoff valve with indicator switch. 2,965,730, 12-20-60, Cl. 200-82.
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- Reh, Carter K., to Peg Investment Group. Pressure indicating valve cap. 2,938,379, 5-31-60, Cl. 73—146.8.
- Rehbein, Charles A.: *See—*  
Marshall, John A., Kunreuther, Reno, and Rehbein. 2,956,003.
- Rehborg, Gerald W. Vacuum bottles. 2,957,596, 10-25-60, Cl. 215—100.
- Rehder, Robert H., to Canadian General Electric Co., Ltd. Electric bus construction. 2,950,456, 8-23-60, Cl. 339—22.
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- Rehfeld, George W. Combination davenport and bed. 2,937,383, 5-24-60, Cl. 5—17.
- Rehkgugler, Gerhard: *See—*  
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Leslie, James D., and Rehkgugler. 2,955,865.
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- Rehm, Adolph C.: *See—*  
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- Rehm, Gustav A., to Springfield Boiler Co. Water level control for packaged boilers. 2,954,014, 9-27-60, Cl. 122—407.
- Rehman, John L.: *See—*  
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- Rehmer, Helmut R.: *See—*  
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- Rehn, Karl, and G. Theilig, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for removing iron carbonyl compounds from oxo reaction products. 2,963,514, 12-6-60, Cl. 260—604.
- Rehn, Karl-Heinz, to Barmen Maschinenfabrik Aktienges. Double-twist twisting spindle. 2,939,268, 6-7-60, Cl. 57—58.83.
- Rehnborg, Edward H., to Edcliff Instruments. Potentiometer. 2,940,059, 6-7-60, Cl. 338—183.
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- Rehner, John, Jr., and W. J. G. McCulloch, to Esso Research and Engineering Co. Irradiation of polymeric materials. 2,936,271, 5-10-60, Cl. 204—154.
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- Reibert, Frederick A.: *See—*  
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- Reibin, Simeon S.: *See—*  
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- Reich, A., & Sons, Inc.: *See—*  
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- Reich, Elmar: *See—*  
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Barch, William E., and Reich. 2,929,716.
- Reich, Kurt, to Paul Forkardt, Kommanditgesellschaft. Chuck. 2,948,541, 8-9-60, Cl. 279—4.
- Reich, Walter A., to A. Reich & Sons, Inc. Hand truck having power actuated article receiving body. 2,946,407, 7-26-60, Cl. 187—10.
- Reichard, Everett W., to Borg-Warner Corp. Vapor lock preventing means for compressor lubrication system. 2,930,522, 3-29-60, Cl. 230—206.
- Reiche, Gustav: *See—*  
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- Reichel, Eugen: *See—*  
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- Reichel, Willy R. Muscle and vascular system hand exercising instrument. 2,926,911, 3-1-60, Cl. 272—68.
- Reichelt, Lester O., and D. V. Waters, to Western Electric Co., Inc. Cradle positioning and locking mechanism for cable-stranding apparatus. 2,953,994, 11-8-60, Cl. 57—54.
- Reicheneder, Franz: *See—*  
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- Reicheneder, Franz, H. Suter, H. Orth, E. Stoeckl, and M. Seefelder, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of chlorstyrenes. 2,950,329, 8-23-60, Cl. 260—650.
- Reichert, Allan S., to Shampaine Co. Clamp. 2,932,873, 4-19-60, Cl. 24—248.
- Reichert, Howard E.: *See—*  
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- Reichert, Hugo: *See—*  
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- Reichert, Kurt, to Phonix-Armaturen-Werk, Bregel K.G. Gage for liquids. 2,920,484, 1-12-60, Cl. 73—319.
- Reichert, Paul F. H., to The Toledo Industrial Rubber Co. Resilient connection. 2,943,875, 7-5-60, Cl. 287—85.
- Reiches, Sol L. Magnetic deflection yoke for a multiple ray beam cathode ray tube and system using the same. 2,921,213, 1-12-60, Cl. 313—77.
- Reiches, Sol L. Color pure cathode ray tube display mechanism. 2,939,979, 6-7-60, Cl. 313—77.
- Reiches, Sol L. Post deflection color purity correcting device for a color TV cathode ray tube and system using the same. 2,941,102, 6-14-60, Cl. 313—77.
- Reichhold Chemicals, Inc.: *See—*  
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- Reichl, George J.: *See—*  
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- Reichl, Raymond M. Method of forging with thin webs. 2,960,763, 11-22-60, Cl. 29—423.
- Reichl, Raymond M. Method of making metal shapes having thin webs. 2,960,764, 11-22-60, Cl. 29—424.
- Reichle, Hans: *See—*  
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- Reichle, Walter T.: *See—*  
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- Reichstein, Tadeus, A. Wettstein, G. Anner, J.-R. Billeter, K. Heusler, R. Neher, J. Schmidlin, H. Ueberwasser, and P. Wieland, said Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland, assors, to said Reichstein. New hydrophenanthrene compounds and process for their manufacture. 2,934,543, 4-26-60, Cl. 260—340.9.
- Reichstein, Tadeus, S. A. Szpilfogel, and D. A. Van Dorp. Steroids and process for making same. 2,948,733, 8-9-60, Cl. 260—340.9.
- Reid, Donald V. Radio controlled torpedo. 2,949,089, 8-16-60, Cl. 114—21.
- Reid, Hugh C. Variable gear units for use in motor vehicles. 2,943,518, 7-5-60, Cl. 74—751.
- Reid, Jack M.: *See—*  
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- Reid, James S., to The Standard Products Co. Rubber bumper strip for docks, piers or other structures. 2,935,855, 5-10-60, Cl. 61—48.
- Reid, James W., to General Electric Co. Arc plasma generator. 2,964,678, 12-13-60, Cl. 315—111.
- Reid, James W., Jr.: *See—*  
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- Reid, John A.: *See—*  
Regel, Elwood H., and Reid. 2,924,217.
- Reid, John B., and R. A. Spence, to North American Chemical Co. Method of and apparatus for conditioning shoe filler compositions. 2,948,001, 8-9-60, Cl. 12—18.2.
- Reid, John D.: *See—*  
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- Reid, Remer R., Sr.,  $\frac{1}{2}$  to E. A. Anderson. Meat choppers. 2,924,257, 2-9-60, Cl. 146—189.
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- Reid, Robert J.: *See—*  
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- Reid, Robert J., to General Dynamics Corp. Holder for force sensing device. 2,951,371, 9-6-60, Cl. 73—431.
- Reid, Robert J., and W. R. Conard, to The Firestone Tire & Rubber Co. Blend of synthetic resinous copolymer and rubbery materials. 2,929,795, 3-22-60, Cl. 260—45.5.
- Reid, Robert J., and B. H. Werner, to The Firestone Tire & Rubber Co. Epoxide cure of rubbery copolymer which contains a reactive carboxyl group. 2,947,338, 8-2-60, Cl. 152—330.
- Reid, Robert J., and B. H. Werner, to The Firestone Tire & Rubber Co. Blend of a vinyl chloride resin, a rubbery diolefin copolymer and a copolymer of acrylonitrile and alkyl methacrylate. 2,956,041, 10-11-60, Cl. 260—45.5.
- Reid, Rose M.: *See—*  
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- Reid, William J.: *See—*  
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- Reid, Willie A. Overhead locking hinge for doors. 2,921,333, 1-19-60, Cl. 16—85.
- Reider, Malcolm J., to Geo. W. Bollman & Co., Inc. Method for providing long, soft vegetable fibers. 2,925,626, 2-23-60, Cl. 19—7.
- Reidies, Arno H.: *See—*  
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- Reidies, Arno H., and M. B. Carus, to Carus Chemical Co. Production of potassium manganates. 2,940,823, 6-14-60, Cl. 23—58.
- Reif, Armin: *See—*  
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- Reif, Henry E.: *See—*  
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- Reif, Henry E., and H. L. Johnson, to Sun Oil Co. Hydro-cracking of hydrocarbon oils with spent cracking catalyst containing ferric oxide. 2,960,459, 11-15-60, Cl. 208-110.
- Reiff, Stephen J., to Reliance Electric & Engineering (Canada) Ltd. Laminated core forming machine. 2,957,511, 10-25-60, Cl. 153-44.
- Reiffels, Otto F. Jr., to Western Electric Co., Inc. Guideway system. 2,939,563, 6-7-60, Cl. 193-38.
- Reifenhauser, Hans, to Reifenhauser K. G. Extrusion press for production of sheet-like or tubular structures from thermoplastic synthetic compositions. 2,942,294, 6-28-60, Cl. 18-12.
- Reifenhauser K. G.: See—
- Reifenhauser, Hans. 2,942,294.
- Reifers, Richard F., to Diamond National Corp. Molded pulp fruit tray. 2,920,805, 1-12-60, Cl. 229-25.
- Reiff, Robert H., to Armstrong Cork Co. Epoxidized resinous polyester containing tetrahydrophthalic anhydride and compositions containing same. 2,928,805, 3-15-60, Cl. 260-45.4.
- Reiffel, Leonard, to Research Corp. Apparatus for X-ray fluorescence analysis. 2,928,944, 3-15-60, Cl. 250-53.
- Reiffen, Ernst A. Stirrer devices for mixing vessels. 2,963,281, 12-6-60, Cl. 259-95.
- Reighart, June H., to Sticker Industrial Supply Corp. Water-cooled steel skewback channel for furnace roof. 2,919,683, 1-5-60, Cl. 122-6.
- Reighart, June H. Water-cooled steel skewback channel for furnace roof. 2,956,552, 10-18-60, Cl. 122-6.
- Reigher, David H., to I-T-E Circuit Breaker Co. Indentometer for transformer steels. 2,924,772, 2-9-60, Cl. 324-34.
- Reihing, John V.: See—
- Baker, George H., Mitchell, and Reihing. 2,947,815.
- Reik, Ella H. Heater for canned food. 2,935,983, 5-10-60, Cl. 126-263.
- Reiland, Frank D., to Gateway Engineering Co. Anchor slot channel attachment clip. 2,944,313, 7-12-60, Cl. 24-214.
- Reiland, Frank D., to Gateway Engineering Co. Hinged clip hanger for dovetail channel structure. 2,924,089, 2-9-60, Cl. 72-105.
- Reiland, Peter M. Vegetable slicer. 2,924,256, 2-9-60, Cl. 146-78.
- Reiling, Paul A., to Bell Telephone Laboratories, Inc. Translating circuits. 2,922,151, 1-19-60, Cl. 340-347.
- Reilly, Donald C.: See—
- Bankauf, William F., Century, and Reilly. 2,953,232.
- Reilly, James A.: See—
- Heilmann, William O., and Reilly. 2,924,276.
- Reilly, James T. Lighted toilet. 2,947,850, 8-2-60, Cl. 240-2.
- Reilly, Martin J.: See—
- Mortenson, Victor A., Weston, and Reilly. 2,947,839.
- Reilly, Mason J., to The Martin Co. Towing rig for watercraft. 2,952,237, 9-13-60, Cl. 114-235.
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- Cochrane, Peter W. F., Reilly, Lewis, and Kearns. 2,927,846.
- Reilly Tar & Chemical Corp.: See—
- Cislak, Francis E. 2,938,034.
- Cislak, Francis E. 2,938,035.
- Cislak, Francis E. 2,938,036.
- Cislak, Francis E. 2,938,037.
- Cislak, Francis E. 2,943,091.
- Reilly-Whiteman-Walton Co.: See—
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- Reiman, Walter C.,  $\frac{1}{2}$  to Westinghouse Electric Corp., and  $\frac{1}{2}$  to Kroger Co. Method for treating meat. 2,932,573, 4-12-60, Cl. 99-107.
- Reimann, Joseph S., to Tri-Chem, Inc. Ball type applicators. 2,930,062, 3-29-60, Cl. 15-132.7.
- Reimann, Robert C., and J. A. Olenicki, to Baxter Laboratories, Inc. Paratracheal tubing set and method of making same. 2,923,294, 2-2-60, Cl. 128-214.
- Reimel, Robert W. Swinging sign support. 2,926,442, 3-1-60, Cl. 40-125.
- Reimers, Hinrich, to Rofusa N.V. Process for the recovery of synthetic anhydrite. 2,959,466, 11-8-60, Cl. 23-122.
- Reimers, William G. Drawbar roller. 2,947,551, 8-2-60, Cl. 280-499.
- Reimold, Else: See—
- Weber, Heinrich, Paul, and Reimold. 2,930,783.
- Reimold, Gustav: See—
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- Reimund, Robert E.: See—
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- Reina, Joseph A. Detachable wheel embracing runners for converting a wagon into a sled. 2,937,878, 5-24-60, Cl. 280-13.
- Reincke, Adolf C. Sheet material separator and handling device. 2,941,799, 6-21-60, Cl. 271-27.
- Reindl, Harold J., to General Motors Corp. Manufacturing apparatus and method of operating the same. 2,947,281, 8-2-60, Cl. 118-632.
- Reinecke, Howard E. Fluid distribution valve means. 2,932,319, 4-12-60, Cl. 137-624.2.
- Reinecke, Marvin E., and E. H. Sholl, to Phillips Petroleum Co. Water analyzer. 2,934,693, 4-26-60, Cl. 324-30.
- Reineman, Richard G., to The Brunswick-Balke-Collender Co. One-piece chair. 2,936,826, 5-17-60, Cl. 155-191.
- Reiner, George. Dispensing carton for paper cups. 2,937,784, 5-24-60, Cl. 221-63.
- Reiner, Julius, to Laboratory For Electronics, Inc. High speed decade counter. 2,935,255, 5-3-60, Cl. 235-92.
- Reiner, Markus, and J. B. Popper. Apparatus for the compression of gases. 2,937,804, 5-24-60, Cl. 230-124.
- Reiner, Robert, Inc.: See—
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- Reiners, Walter: See—
- Fürst, Stefan. 2,924,919.
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- Reiners, Walter, and S. Fürst: said Fürst assor. to said Reiners. Device for seizing, positioning, and tying of starting end of yarn to be wound. 2,936,130, 5-10-60, Cl. 242-35.6.
- Reinert, Milton J.: See—
- Burlis, Norbert W., and Reinert. 2,943,207.
- Reinert, Raymond L., to General Electric Co. Methods of detarnishing silverware. 2,957,813, 10-25-60, Cl. 204-144.
- Reinertshofer, Josef, M. Schorr, and R. Junk, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of prednisolone-acetate. 2,927,121, 3-1-60, Cl. 260-397.45.
- Reinhard, Hans-Peter: See—
- Paul, Wolfgang, Reinhard, and Frohlich. 2,950,389.
- Reinhard, Louis, and H. Klausner, to Albiwerk Zurich A.G. Radar directional antenna system. 2,931,035, 3-29-60, Cl. 343-766.
- Reinhard, Louis, and H. Klausner, to Albiwerk Zurich A.G. Radar antenna system. 2,936,452, 5-10-60, Cl. 343-757.
- Reinhard, Raymond H.: See—
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- Reinhard, Raymond H., and J. E. Fox, to Monsanto Chemical Co. Terpolymer of a conjugated diolefin, a styrene and an allyl alcohol. 2,951,831, 9-6-60, Cl. 260-80.7.
- Reinhard, Richard E.: See—
- Elliott, William E., and Reinhard. 2,946,216.
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- Reinhardt, Alfons. Sawing and sorting stand. 2,961,018, 11-22-60, Cl. 143-157.
- Reinhardt, George: See—
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- Reinhardt, Henry A., to Bigelow-Sanford Carpet Co., Inc. Method of making Axminster-type carpet. 2,945,511, 7-19-60, Cl. 139-7.
- Reinhardt, John P. Movable, self-standing wall partitions and removable adjustable dollies therefor. 2,962,132, 11-29-60, Cl. 189-34.
- Reinhardt, Joseph A., to Wheaton Engineering Corp. Lever escapements. 2,962,900, 12-6-60, Cl. 74-1.5.
- Reinhardt, Robert M., and J. D. Reid, to United States of America, Agriculture. Process for the production of alkali-soluble cotton textile materials. 2,938,765, 5-31-60, Cl. 8-116.2.
- Reinhart, Harold C.: See—
- Brodbeck, Almer H., and Reinhart. 2,930,433.
- Reinhart, Harold C., and W. H. Holzboog, to Micro Controls, Inc. Temperature-sensitive heat control unit. 2,934,957, 5-3-60, Cl. 73-368.
- Reinhart, William A., to Boeing Airplane Co. Gas stream thrust reaction propulsion engines with noise-suppression and thrust-reversing nozzle means. 2,940,252, 6-14-60, Cl. 60-35.54.
- Reinhold, Frank W.: See—
- Carpenter, Keith H., and Reinhold. 2,943,328.
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- Reining, Helmut P. O. G.: See—
- Reining, Karl G., and H. P. O. G., and Reiche. 2,960,078.
- Reining, Karl G., deceased (H. P. O. G. Reining, executor), H. P. O. G. Reining, and G. Reiche. Door framework for open hearth furnaces or other industrial furnaces. 2,960,078, 11-15-60, Cl. 122-497.
- Reinisch-Westfälische "Revision" Treuhand Aktiengesellschaft (Treuhand Aktiengesellschaft): See—
- Schwank, Gunther. 2,952,308.
- Reinking, Norman H., to Union Carbide Corp. Preparation of monomeric glycidyl polyethers of polyhydric phenols. 2,943,096, 6-28-60, Cl. 260-348.6.
- Reinking, Norman H., to Union Carbide Corp. Preparation of polyglycidyl aromatic amines and resinous compositions made therefrom. 2,951,822, 9-6-60, Cl. 260-42.
- Reinking, Norman H., B. P. Barth, and F. J. Castner, to Union Carbide Corp. Glycidyl derivatives of amino phenols. 2,951,825, 9-6-60, Cl. 260-47.



- Reinsch, Herbert, to Eugen Bauer G.m.b.H. Speed regulating arrangement. 2,931,949, 4-5-60, Cl. 317-6.
- Reintjes, George P. Metal encased basic refractories. 2,927,454, 3-8-60, Cl. 72-101.
- Reintjes, Harold, to Godfrey L. Cabot Inc. Continuous carbonization process and apparatus. 2,922,752, 1-26-60, Cl. 202-22.
- Reintjes, Harold, to Godfrey L. Cabot, Inc. Process and apparatus for calcination of carbonaceous materials. 2,927,062, 3-1-60, Cl. 202-31.
- Reintjes, Harold, R. H. Hughes, and C. S. Livermore, to Petrocarb Equipment, Inc. Process for heat treating particulate material. 2,924,511, 2-9-60, Cl. 23-223.
- Reintjes, George P.: *See*—
- Copeland, Robert P., and Reintjes. 2,963,997.
- Reintjes, George P. Coal drying furnace breeching. 2,953,864, 9-20-60, Cl. 263-19.
- Reis, Charles S., to Hewlett-Packard Co. Display apparatus. 2,950,418, 8-23-60, Cl. 315-169.
- Reis, Herbert J., to The Martin Co. Constant impedance balance line phase shifter. 2,935,705, 5-3-60, Cl. 333-31.
- Reis, Joseph J., Jr., and S. M. Terry, to Pittsburgh Plate Glass Co. Method of forming filaments embodying polyurethane resins. 2,923,598, 2-2-60, Cl. 18-54.
- Reis, Smil. Self-regulating fluid pressure operated power cylinder. 2,952,267, 9-13-60, Cl. 137-115.
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- Reisch, George J., to General Electric Co. Electric heating element support. 2,927,956, 3-8-60, Cl. 174-138.
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- Reise, Herman A., to Bell Telephone Laboratories, Inc. Quick recovery circuit for blocking oscillators. 2,922,037, 1-19-60, Cl. 250-27.
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- Schroeder, Ernst, and Reiser. 2,953,493.
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- Scudi, John V., Reisner, Childress, and Walter. 2,947,755.
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- Reiss, Raymond H., P. R. T. Hahn, and E. L. Jesse, to Reiss Mfg. Corp. Jig structure. 2,929,276, 3-22-60, Cl. 77-62.
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- Reissmann, Thomas L., and J. Nichols, to Ethicon, Inc. Collagen article and the manufacture thereof. 2,919,999, 1-5-60, Cl. 106-161.
- Reistle, Carl E., Jr., to Jersey Production Research Co. Centrifugal separator. 2,954,841, 10-4-60, Cl. 183-77.
- Reiter, Daniel I. Prong anchoring and hiding construction. 2,928,153, 3-15-60, Cl. 24-150.
- Reiter, Hermann: *See*—
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- Reitsma, Ellsworth L.: *See*—
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- Reitzel, Georg, to Drescher & Kiefer, Inh. Georg Reitzel. Closure fastener. 2,927,814, 3-8-60, Cl. 292-335.
- Rejafix Ltd.: *See*—
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- Rejdin, Arne A. G., and S. L. M. Wahl, to Telefonaktiebolaget L M Ericsson. Lifting card. 2,939,937, 6-7-60, Cl. 200-166.
- Rejsa, Jack J., to The Pillsbury Co. Case packer. 2,920,429, 1-12-60, Cl. 53-61.
- Rekart, Harold L., to National Malleable and Steel Castings Co. Molding machine. 2,962,775, 12-6-60, Cl. 22-42.
- Reker, Horst, and G. Schaffstein, to Telefunken G.m.b.H. Sweep and flyback circuits. 2,965,796, 12-20-60, Cl. 315-27.
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- Rekettie, Paul, to The Sun Rubber Co. Apparatus for sealing inflated articles. 2,924,052, 2-9-60, Cl. 53-80.
- Rekettie, Paul, to The Sun Rubber Co. Rotational casting apparatus. 2,957,202, 10-25-60, Cl. 18-26.
- Rekker, Roelof F., to N. V. Koninklijke Pharmaceutische Fabrieken v/h Brocades Stheeman & Pharmacia. Esters of hexahydrobenzic acid. 2,961,461, 11-22-60, Cl. 260-473.
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- Relation, Alfred E., and J. F. Roesel, Jr., to Westinghouse Electric Corp. Electrical inverter circuits. 2,962,667, 11-22-60, Cl. 331-114.
- Reliable Electric Co.: *See*—
- Jugle, Leonard L. 2,963,679.
- Jugle, Leonard L. 2,966,653.
- Reliable Engineering Co.: *See*—
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- Reliance Electric and Engineering Co., The: *See*—
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- Reliance Steel Products Co.: *See*—
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- Nagin, Harold. 2,960,918.
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- Relis, Matthew J., to Burroughs Corp. Pulse signal filter. 2,943,261, 6-28-60, Cl. 328-108.
- Relis, Matthew J., and W. Yuni, to Burroughs Corp. Time domain filter. 2,947,945, 8-2-60, Cl. 329-112.
- Relis, Matthew J., and D. H. Marcus, to Control Instrument Co. Analog-digital converter. 2,962,705, 11-29-60, Cl. 340-347.
- Reliensmann, Otto, and D. Wartenberg. Gyroscopic surveying compass. 2,930,240, 3-29-60, Cl. 74-5.
- Reller, Louis S., and L. S. Garment hanger. 2,924,363, 2-9-60, Cl. 223-93.
- Reller, Lucille S.: *See*—
- Reller, Louis S., and L. S. 2,924,363.
- Relf, James M.: *See*—
- MacCracken, Calvin D., and Relf. 2,928,612.
- Relf, James M., and T. N. Ashitate, to F. S. Cornell. Advertising or display device. 2,963,807, 12-13-60, Cl. 40-106.53.
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- Smith, Frederick L. 2,927,521.
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- Friedman, Samuel. 2,936,896.
- Remagen, Dominikus: *See*—
- Kuss, Ernst, Remagen, Rosin, and Schackmann. 2,963,157.
- Reman, Gerrit H.: *See*—
- Van Der Waarden, Mathijs, Tjepkema, Huyser, Hartstra, and Reman. 2,938,828.
- Remelka, Mike A. Bubble pipe and method of making same. 2,959,887, 11-15-60, Cl. 46-6.
- Remer, Robert K., to Tribune Co. Method of neutralizing sulphur-bearing compounds in the atmosphere. 2,955,908, 10-11-60, Cl. 21-2.5.
- Remes, Nathaniel L.: *See*—
- Bernard, George G., and Remes. 2,954,825.
- Hutchings, Le Roi E., and Remes. 2,937,213.
- Krewer, William A., and Remes. 2,956,088.
- Remes, Nathaniel L., T. W. Martinek, and E. T. Fronczak, to The Pure Oil Co. Silica-thickened grease containing carbamate ester stabilizer. 2,921,900, 1-19-60, Cl. 252-28.
- Remes, Nathaniel L., and T. W. Martinek, to The Pure Oil Co. Cyano-substituted borate esters. 2,927,125, 3-1-60, Cl. 260-462.
- Remes, Nathaniel L., T. W. Martinek, and L. E. Hutchings, to The Pure Oil Co. Substituted amides as selective solvents for aromatic hydrocarbons. 2,936,235, 5-10-60, Cl. 260-674.
- Remes, Nathaniel L., and G. W. Ayers, to The Pure Oil Co. Production of superior neutral oils. 2,948,669, 8-9-60, Cl. 208-7.
- Reminger, August J., and W. M. James, to Vitro Corp. of America. Potentiometer design. 2,939,098, 5-31-60, Cl. 338-174.
- Remington Arms Co., Inc.: *See*—
- Aitken, William H., Connor, Haskell, and Patteson. 2,922,185.
- Ashby, William C. 2,932,377.
- Brown, Robert A., and Hartman. 2,923,857.
- Brown, Robert A., Cummings, and Hartman. 2,936,362.
- Bullis, Douglas E., and Walker. 2,935,595.
- Catlin, Robert T., and Landa. 2,932,033.
- Crittendon, Lexie R., Hailston, Haskell, Kelly, and Leek. 2,941,450.
- Hamil, James K., and Webb. 2,941,326.
- Hartman, Robert B., II. 2,941,065.
- Hartman, Robert B., II. 2,941,066.
- Haskell, Philip R., Evans, Ketchpel, Jr., and Connor. 2,949,898.
- Haskell, Philip R., Evans, Ketchpel, and Connor. 2,954,759.
- Johnson, Theodore B., and Senko. 2,941,909.
- Johnson, Theodore B. 2,952,572.
- Kidder, Marshall J. 2,953,816.
- Mall, Arthur W. 2,938,312.
- McCallum, John, Clifford, and Semones. 2,929,860.
- Sahlin, Richard A. 2,960,032.
- Webb, Charles C. 2,929,421.



- Remington, Leland F., to Curtis & Marble Machine Co. Sel-  
vage trimming machine. 2,962,791, 12-6-60, Cl. 26-10.4.
- Remke, Marvin A.: *See—*  
Kuntz, Louis E., and Remke. 2,949,126.
- Remke, Marvin A., to Phillips Petroleum Co. Bearing.  
2,926,049, 2-23-60, Cl. 308-21.
- Remke, Marvin A., and L. E. Kuntz, to Phillips Petroleum  
Co. Automatic custody transfer of crude oil. 2,940,593,  
6-14-60, Cl. 210-84.
- Remke, Marvin A., and G. G. Hebard, to Phillips Petroleum  
Co. Universal base for pumping unit. 2,953,489, 11-1-60,  
Cl. 248-23.
- Remo, Inc.: *See—*  
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- Rempel, Dietrich G., to Rempel Mfg., Inc. Hobbyhorse.  
2,935,317, 5-3-60, Cl. 272-52.
- Rempel Mfg., Inc.: *See—*  
Rempel, Dietrich G. 2,935,317.
- Remus, Everett A., C. C. Lamar, and N. M. Huff, to Harper-  
Wyman Co. Rotary disc valve. 2,961,000, 11-22-60, Cl.  
137-599.2.
- Remz, Harold: *See—*  
Pelino, William M., and Remz. 2,963,575.
- Renairne Corp.: *See—*  
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- Renard, Roland E., to National Can Corp. Can body maker  
interchangeable for long and short strokes. 2,944,498,  
7-12-60, Cl. 113-11.
- Renard, Roland E., to National Can Corp. Slitter-trimmer  
for sheet material including pivoted feed table means.  
2,958,248, 11-1-60, Cl. 83-407.
- Renard, Winford G.: *See—*  
Hope, David G., Filipowicz, Renard, and Wiggins.  
2,932,426.
- Renaudin, Antoine P. Continuous sealing system for flanged  
connections. 2,942,309, 6-28-60, Cl. 20-69.
- Renauer, Anton. Hectographic duplicator for the printing of  
entire pages, paragraphs and/or lines from mirror script  
originals. 2,927,530, 3-8-60, Cl. 101-133.
- Renault, Jean C., and L. D. Ramsay, to Gabilan Iron and  
Machine Co. Safety interlock for laundry extractors.  
2,955,693, 10-11-60, Cl. 192-136.
- Renaut, Paul, to Realisations Ultrasoniques. Ultrasonic  
transducer arrangement for sending and receiving.  
2,946,904, 7-26-60, Cl. 310-8.2.
- Renaut, Paul, to Realisations Ultrasoniques. Process for  
dehairing of skins with ultrasonic energy. 2,965,435,  
12-20-60, Cl. 8-94.16.
- Rench, Harry D., and H. W. Harris, to Racine Industrial  
Plant, Inc. Tray for electric brush. 2,955,303, 10-11-60,  
Cl. 15-49.
- Rench, Harry D., and H. W. Harris, to Racine Industrial  
Plant, Inc. Multiple unit carpet scrubbing machine.  
2,961,673, 11-29-60, Cl. 15-41.
- Rendall, Warren C., to Crown Zellerbach Corp. Convertible  
container and method of packing and shipping same.  
2,936,239, 5-10-60, Cl. 99-171.
- Render, Elijah F., to The Cincinnati Milling Machine Co.  
Centerless grinding machine for tapered work pieces.  
2,950,580, 8-30-60, Cl. 51-103.
- Render, Thomas O., to Sno-Bol Co. Cleaner and housing for  
the head thereof. 2,922,180, 1-26-60, Cl. 15-244.
- Renfrew, Edgar E.: *See—*  
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- Renfrew, Malcolm M., and D. E. Peerman, to General Mills,  
Inc. Novel composition and method of curing epoxy resins.  
2,930,773, 3-29-60, Cl. 260-18.
- Renfro, Charles J. Beam clamp. 2,961,269, 11-22-60. Cl.  
294-85.
- Renfro, Charles J. L-beam clamp. 2,961,270, 11-22-60. Cl.  
294-85.
- Rengel, Gayle L.: *See—*  
Hessburg, Lawrence J., and Rengel. 2,920,979.
- Renger, Martin, and T. W. Heermans, to Sylvania Electric  
Products Inc. Camera. 2,961,936, 11-29-60, Cl. 95-64.
- Renick, Felix. Shirt collar forming machine. 2,931,545,  
4-5-60, Cl. 223-52.1.
- Renick, Robert C., and H. J. Mills, to International Tele-  
phone and Telegraph Corp. Signal decoder. 2,928,045,  
3-8-60, Cl. 324-68.
- Renick, Wendell E., and K. C. Goodman, to American Brake  
Shoe Co. Electro hydraulic control mechanism. 2,931,388,  
4-5-60, Cl. 137-623.
- Renick, Wendell E., to American Brake Shoe Co. Structure  
forming an adjustable orifice. 2,936,152, 5-10-60, Cl.  
251-205.
- Renken, Claus J., Jr., and R. G. Myers, to United States of  
America, Atomic Energy Commission. Metal resistivity  
measuring device. 2,965,840, 12-20-60, Cl. 324-37.
- Renkey, Albert L., to Harblson-Walker Refractories Co. In-  
sulating refractory. 2,963,377, 12-6-60, Cl. 106-64.
- Renna, Adolf A. T. Piano accordion wrist rest. 2,930,274,  
3-29-60, Cl. 84-376.
- Rennard, Paul J. Acoustical barrier fence. 2,936,040,  
5-10-60, Cl. 181-33.
- Renne, George D., Jr., and E. C. Jordan. Arrowhead  
sharpener. 2,951,400, 9-6-60, Cl. 76-86.
- Rennels, John R., to Collins Radio Co. Bearing correction  
means for a direction finding antenna. 2,939,138, 5-31-60,  
Cl. 343-114.
- Rennenkampf, Leonard J., to International Telephone and  
Telegraph Corp. Automatic frequency search and track  
system. 2,951,150, 8-30-60, Cl. 250-20.
- Renner, Earl J. Educational aid and amusement device.  
2,927,381, 3-8-60, Cl. 35-8.
- Renner, Elmer J., to Stephens-Adamson Mfg. Co. Belt con-  
veyors. 2,966,065, 12-27-60, Cl. 74-241.
- Renner, Frank J., G. B. and W. M. Apparatus for making  
coffee. 2,952,202, 9-13-60, Cl. 99-289.
- Renner, George B.: *See—*  
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- Renner, Kurt: *See—*  
Siebert, Arthur, and Renner. 2,948,715.
- Renner, Philip F., deceased: Chicago Title and Trust Co.,  
executor. Confection. 2,924,529, 2-9-60, Cl. 99-137.
- Renner, Raymond L.: *See—*  
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- Renner, Ulrich, to Geigy Chemical Corp. Process for obtain-  
ing an active substance with action on the heart from  
plants of the Voacanga genus. 2,945,851, 7-19-60, Cl.  
260-236.
- Renner, William M.: *See—*  
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- Renney Mfg. Co.: *See—*  
Schoos, Maurice A. 2,963,085.
- Rennick, John L., to Zenith Radio Corp. Suppressor circuit.  
2,924,650, 2-9-60, Cl. 178-5.4.
- Rennick, John L., to Zenith Radio Corp. Cathode-ray beam  
correction structure. 2,954,494, 9-27-60, Cl. 313-76.
- Renninger, Robert G., and K. C. Shearer, to United States  
Steel Corp. Method of firing open hearth furnaces.  
2,920,692, 1-12-60, Cl. 158-117.5.
- Reno, Gordon J.: *See—*  
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2,956,003.
- Renold Chains Ltd.: *See—*  
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- Renouf, William, to Nash Bros. Co. Tire carrier. 2,958,450,  
11-1-60, Cl. 224-42.23.
- Renslow, Leonard C. Capsule or gondola used in high alti-  
tude research. 2,952,378, 9-13-60, Cl. 220-5.
- Rensselaer Polytechnic Institute: *See—*  
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- Rentschler, Karl F., to Alfred Gauthier, G.m.b.H. Photo-  
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- Rentschler, Karl F., to Alfred Gauthier G.m.b.H. Photo-  
graphic shutter. 2,961,935, 11-29-60, Cl. 95-63.
- Rentschler, Waldemar T., to Alfred Gauthier G.m.b.H. Photo-  
graphic camera. 2,924,161, 2-9-60, Cl. 95-64.
- Rentschler, Waldemar T., to Alfred Gauthier G.m.b.H. Photo-  
graphic camera. 2,924,162, 2-9-60, Cl. 95-64.
- Rentschler, Waldemar T., to Alfred Gauthier G.m.b.H. Inter-  
changeable lens camera with coupled exposure meter.  
2,935,920, 5-10-60, Cl. 95-10.
- Rentschler, Waldemar T., to Alfred Gauthier G.m.b.H. Pic-  
ture-taking apparatus with automatic and manual ex-  
posure regulation. 2,935,921, 5-10-60, Cl. 95-10.
- Rentschler, Waldemar T., to Alfred Gauthier G.m.b.H. Photo-  
graphic lens shutter. 2,935,922, 5-10-60, Cl. 95-64.
- Rentschler, Waldemar T., to Alfred Gauthier, G.m.b.H.  
Photographic intra-lens shutter. 2,943,550, 7-5-60, Cl.  
95-63.
- Rentschler, Waldemar T., to Alfred Gauthier, G.m.b.H.  
Photographic intra-lens shutter coupled with an exposure  
meter. 2,944,473, 7-12-60, Cl. 95-10.
- Rentschler, Waldemar T., to Alfred Gauthier, G.m.b.H. Intra  
lens shutter. 2,948,205, 8-9-60, Cl. 95-63.
- Rentschler, Waldemar T., to Alfred Gauthier G.m.b.H. Intra  
lens shutter. 2,949,075, 8-16-60, Cl. 95-63.
- Rentschler, Waldemar T., to Alfred Gauthier, G.m.b.H.  
Photographic camera. 2,953,978, 9-27-60, Cl. 95-10.
- Rentschler, Waldemar T., to Alfred Gauthier, G.m.b.H. Dia-  
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011, 12-20-60, Cl. 95-64.
- Renwanz, Gerhard: *See—*  
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- Renwick, Frederick W. Sr. Antiskid device. 2,943,662,  
7-5-60, Cl. 152-208.
- Renz, Jany, and J. Bourquin, to Sandoz Ltd. Ester-like  
4-hydroxy-piperidine derivatives. 2,946,799, 7-26-60, Cl.  
260-294.3.
- Renz, Jany, and J.-P. Bourquin, to Sandoz Ltd. Ester-like  
piperidine derivatives. 2,956,059, 10-11-60, Cl.  
260-294.3.
- Renzini, Goffredo, to Pirelli Societa per Azioni. Twisting  
head for two-fold yarn. 2,949,725, 8-23-60, Cl. 57-58.36.
- Renzoni, Louis S., and W. V. Barker, to The International  
Nickel Co., Inc. Electrolytic recovery of nickel. 2,966,407,  
12-27-60, Cl. 75-1.
- Repach, Steve J. Pivoting corner post construction.  
2,954,075, 9-27-60, Cl. 155-179.
- Repal, George A.: *See—*  
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Smith, Horace V., and Repal. 2,938,381.
- Repella, Nicholas: *See—*  
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- Repik, Albert J., and C. T. Sloan, Jr., to Pittsburgh Coke &  
Chemical Co. Reactivation of spent adsorbent carbon.  
2,933,454, 4-19-60, Cl. 252-419.



- Replogle, Edward H.: *See*—  
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- Replogle, Edward H. Diving plane. 2,948,251, 8-9-60, Cl. 115-6.1.
- Replogle, Edward H., and M. R. Simmonds; said Simmonds, assor. to said Replogle. Motion generating machine. 2,953,030, 9-20-60, Cl. 74-54.
- Replogle, Edward H. Temporary window closure. 2,955,651, 10-11-60, Cl. 160-40.
- Replogle, Frank S., Jr., and D. A. Gordon, to United States of America, Navy. Means for modulating and detecting neutron flux. 2,944,150, 7-5-60, Cl. 250-83.1.
- Replogle, James B., to B. Clayton. Fluid flow proportioning device. 2,926,684, 3-1-60, Cl. 137-101.19.
- Replogle, James B., to The Union Stock Yard and Transit Co. of Chicago. Refrigerated display counter. 2,956,420, 10-18-60, Cl. 62-256.
- Reppe, Walter, F. Reicheneder, G. Stengel, and A. Zieger, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of acrylic acid and its salts. 2,925,436, 2-16-60, Cl. 260-533.
- Reppe, Walter, H. Pohlmann, and K. Jaeckel, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for the production of mixed polyamides. 2,950,269, 8-23-60, Cl. 260-78.
- Reppe, Walter, W. Pfab, N. von Kutepow, and W. Bueche, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of cyclo-octatetraene. 2,951,881, 9-6-60, Cl. 260-666.
- Repper, Theodore A. Jig mounting for sharpening rotary scrap cutters. 2,938,310, 5-31-60, Cl. 51-218.
- Reppert, Charles L. Automatic antenna positioning unit. 2,950,478, 8-23-60, Cl. 343-117.
- Reppert, Karl, to Fa. Johannes Erhard H. Waldenmaier Erben. Fluidly actuated flap seal. 2,923,522, 2-2-60, Cl. 251-158.
- Reppert, Richard V. Decimal point mechanism for calculating machines. 2,922,573, 1-26-60, Cl. 235-63.
- Reppert, Richard V. Combined typewriting and calculating machine. 2,935,250, 5-3-60, Cl. 235-59.
- Reproduction Research Laboratories, Inc.: *See*—  
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- Republic Aviation Corp.: *See*—  
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- Republic Mfg. Co.: *See*—  
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- Republic of India, The President of the: *See*—  
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- Republic Rubber Division: *See*—  
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- Republic Steel Corp.: *See*—  
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- Reschke, Carl, to Demag-Elektrometallurgie G.m.b.H. Electric arc reduction furnace. 2,959,630, 11-8-60, Cl. 13-9.
- Research Corp.: *See*—  
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- Research Corp.: *See*—Continued  
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- Research-Cottrell, Inc.: *See*—  
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- Research Engineering Co.: *See*—  
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- Research, Inc.: *See*—  
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- Research Institute for Iron, Steel and Other Metals of the Tohoku University, The: *See*—  
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- Research Institute of Temple University: *See*—  
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- Research Interests Ltd.: *See*—  
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- Research Products Corp.: *See*—  
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- Research Specialties Co.: *See*—  
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- Reserve Mining Co.: *See*—  
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- Reserve Mining Co., The: *See*—  
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- Resetch, Alfred W., to General Aniline & Film Corp. Method of and composition for preparing lithographic printing plates. 2,957,765, 10-25-60, Cl. 96-1.
- Resinoid Engineering Corp.: *See*—  
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- Resistance Welders Ltd.: *See*—  
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- Resistoflex Corp.: *See*—  
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St. John, Alexander N. T., and Walker. 2,932,597.
- Resnick, Benjamin. Combination applicator hairbrush. 2,929,085, 3-22-60, Cl. 15-124.
- Resnick, Charles. Connector. 2,932,074, 4-12-60, Cl. 24-265.
- Resnick, Leroy D., to Chicago Development Corp. Preparation of titanium-manganese alloys. 2,920,022, 1-5-60, Cl. 204-71.
- Resnick, Leroy D., to Chicago Development Corp. Heat treatable alloys of titanium or zirconium. 2,948,608, 8-9-60, Cl. 75-175.5.
- Resnick, Leroy D., to Chicago Development Corp. High purity titanium-manganese alloy. 2,949,357, 8-16-60, Cl. 75-175.5.
- Resnick, Paul: *See*—  
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- Resnick, Robert. Street index device for postal clerks. 2,923,070, 2-2-60, Cl. 35-75.
- Ress, Thomas I., to International Business Machines Corp. Radiation pattern identifying apparatus. 2,933,610, 4-19-60, Cl. 250-83.6.
- Ressel, Edward, to Everbrite Electric Signs Inc. Frame structures for center post mounted illuminatable signs. 2,940,198, 6-14-60, Cl. 40-130.
- Ressler, Carl T., and H. R. Diffenderfer, to Neapco Products Inc. Drive shaft and shield assembly. 2,953,000, 9-20-60, Cl. 64-4.
- Ressler, Homer G.: *See*—  
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- Ressler, John J. Combination moisture dehydrator and wind-blown musical instrument. 2,945,410, 7-19-60, Cl. 84-397.
- Restaino, Clemente, and E. Viana. Hoop-rolling guide. 2,960,795, 11-22-60, Cl. 46-220.
- Reswick, James B., and A. R. Williams, said Reswick assor. to said Williams. Airplane brake control. 2,920,924, 1-12-60, Cl. 303-24.
- Rehmeler, Karel L., to Shell Oil Co. Reversing valve for hydraulic reciprocating motor. 2,942,584, 6-28-60, Cl. 121-46.5.
- Retter, Walther, W. Muller, and M. Zimmermann, to Farbenfabriken Bayer Aktiengesellschaft. Metasulfides of polyhalogenated phenols. 2,937,208, 5-17-60, Cl. 260-608.
- Retterath, Valentin, to Groov-Pin Corp. Equipment for producing grooved rods or the like. 2,929,282, 3-22-60, Cl. 80-40.
- Rettie, George W., and R. D. Hotchkiss. Telephone dialing device. 2,949,508, 8-16-60, Cl. 179-90.
- Rettig, Charles E.: *See*—  
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- Reubenstine, George A. Rat guards. 2,959,147, 11-8-60, Cl. 114-221.
- Reucker, Herbert. Electro-magnetic clutch. 2,936,053, 6-10-60, Cl. 192-84.



- Reuge, Albert, Key holder. 2,959,084, 11-8-60, Cl. 84-95.  
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 Reusing, Albert M., and J. H. Eberly, to Sperry Rand Corp. Cutting tool. 2,943,537, 7-5-60, Cl. 90-14.  
 Reusser, Peter U., to The Heald Machine Co. Grinding machine. 2,923,106, 2-2-60, Cl. 51-165.  
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 Hart, James L., and Reusser. 2,953,432.  
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 Reustle, Frank A., Asphalt roof laying machine. 2,937,779, 5-24-60, Cl. 216-20.  
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 Reuter, Franz G.: See—  
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 Ulderup, Jurgen, and Reuter. 2,958,526.  
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 Reuter, Franz G., to Mobay Chemical Co. Hydraulic pit prop. 2,949,893, 8-23-60, Cl. 121-48.  
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 Orthner, Ludwig, and Reuter. 2,932,659.  
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 Von Arb, Edward J., and Tenniswood. 2,962,870.  
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 Reverdin, Daniel, to Compagnie Generale de Telegraphie Sans Fil. Helical delay lines. 2,939,035, 5-31-60, Cl. 315-3.5.  
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 Rey, Henri D., Method of opening oysters. 2,942,292, 6-28-60, Cl. 17-45.  
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 Rey, Thomas J., 1/2 to L. Bloom. Radar system. 2,931,030, 3-29-60, Cl. 343-14.  
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 Raymond, Michel, to Societe Civile d'Etude de Procèdes de Scellement. Gun for urging plugs and pins into a compact mass. 2,932,031, 4-12-60, Cl. 1-44.5.  
 Raymond, Ralph D. Self-powered electron discharge tube devices. 2,926,268, 2-25-60, Cl. 313-54.  
 Reynaud, Francis, and A. Roth, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Process for separating nickel contained in solutions of mixed cobalt and nickel salts. 2,960,400, 11-15-60, Cl. 75-119.  
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 Reynolds, Charles B. Multi-purpose syphoning valve. 2,953,165, 9-20-60, Cl. 137-625.4.  
 Reynolds, Charles G.: See—  
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 Reynolds, Donald S., and R. J. Thorn, to Automatic Canteen Co. of America. Conduit coupling. 2,965,396, 12-20-60, Cl. 285-137.  
 Reynolds, Edd. Rocking bassinet. 2,964,762, 12-20-60, Cl. 5-109.  
 Reynolds, Edward E.: See—  
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 Reynolds, Lionel A., to Tangyes Ltd. Seals for hydraulic rams. 2,964,366, 12-13-60, Cl. 309-23.



- Reynolds, Manning S., to Central Scientific Co. Sample container for measuring the density of volatile liquids. 2,923,158, 2-2-60, Cl. 73-437.
- Reynolds, Manning S., and A. H. Nakata, to Central Scientific Co. Gas chromatography unit. 2,963,898, 12-13-60, Cl. 73-23.
- Reynolds Metals Co.: *See*—
- Baxter, Bruce L. 2,929,036.
  - Bruno, Charles, and Staley. 2,960,597.
  - Chapman, James R., and Weber. 2,953,877.
  - Cheeley, William E. 2,960,218.
  - De Ridder, Ernst J., and Glaser. 2,936,018.
  - Emmons, Neal L. 2,920,725.
  - Fritzlen, Thomas L., Leipertz, and McLean. 2,955,886.
  - Griffin, Roger C., Jr. 2,926,415.
  - Kamlet, Jonas. 2,925,324.
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  - Mostovych, Nicholas, and Cybriwsky. 2,951,025.
  - Mostovych, Nicholas, and Mitchell. 2,941,930.
  - Nagle, Garrett S. 2,956,719.
  - Oberg, William O. 2,950,815.
  - Robson, John. 2,951,765.
  - Ramirez, Ernest R. 2,963,409.
  - Ramirez, Ernest R., and Barkman. 2,958,610.
  - Reynolds, Julian L. 2,958,641.
  - Schaefer, John J. 2,940,388.
  - Schaefer, John J. 2,949,852.
  - Singleton, Ogle R., Jr. 2,952,906.
  - Staley, John, and Lewis. 2,949,593.
  - Staples, Paul R. 2,949,876.
  - Thomas, Jesse B. 2,936,599.
  - Thomas, Jesse B. 2,951,404.
  - Weiler, Harry E. 2,952,341.
  - Wilson, John B. 2,958,266.
- Reynolds, Noel S. Hydraulic master cylinder. 2,954,675, 10-4-60, Cl. 60-54.6.
- Reynolds Oil Well Pumps, Inc.: *See*—
- Crowl, Leland S., and Markwell. 2,933,050.
- Reynolds Pen Co. of New York, Inc.: *See*—
- Cleremans, Maarten. 2,941,511.
- Reynolds, Percival L., to Chicago Rawhide Mfg. Co. Shaft seal assembly. 2,966,376, 12-27-60, Cl. 288-3.
- Reynolds, R. J., Tobacco Co.: *See*—
- Sherrill, Joseph H. 2,951,364.
- Reynolds, Ralph C., and A. S. McKay, to Texaco Inc. Productivity well logging. 2,965,753, 12-20-60, Cl. 250-43.5.
- Reynolds, Richard J., to Shell Oil Co. Oil extended rubber compositions stabilized with magnesium salts. 2,935,485, 5-3-60, Cl. 260-23.7.
- Reynolds, Richard J., and D. G. Norton, to Shell Oil Co. N,N'-dialkyl aromatic diamines. 2,965,605, 12-20-60, Cl. 260-45.9.
- Reynolds, Richard W., and S. Sotos. Apparatus for sorting articles. 2,947,417, 8-2-60, Cl. 209-121.
- Reynolds, Robert C., Jr., to Pan American Petroleum Corp. Separating illite for geochemical analyses. 2,946,657, 7-26-60, Cl. 23-110.
- Reynolds, Robert H. Garment hanger. 2,922,556, 1-26-60, Cl. 223-95.
- Reynolds, Stanley G., 1/2 to P. A. Wagner. Electronic system for handling information. 2,923,773, 2-2-60, Cl. 179-15.
- Reynolds, Vining T. Seismic record plotter. 2,932,001, 4-5-60, Cl. 340-15.
- Reynolds, Warren M.: *See*—
- Luther, Herbert G., and Reynolds. 2,951,760.
  - Sherman, William C., Donovan, Reynolds, and Luther. 2,925,342.
- Reynolds, William B.: *See*—
- Railsback, Henry E., and Reynolds. 2,956,043.
- Reynolds, William E., to E. A. Simpson. Reading-training device. 2,919,499, 1-5-60, Cl. 35-35.
- Reynolds, William W.: *See*—
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- Rezba, Albin J.: *See*—
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- Rezek, Gerard, and C. J. McBrerty, to Radio Corp. of America. Tape reeling machine. 2,951,652, 9-6-60, Cl. 242-55.12.
- Rhee Elastic Thread Corp.: *See*—
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- Rheem Mfg. Co.: *See*—
- Gieser, Ralph H., Jr., and Thomson. 2,941,064.
  - Weaver, John R., Jr., and Gowan. 2,928,536.
- Rhees, Mark C. Adapter for use in blood plasma prothrombin time determination. 2,959,665, 11-8-60, Cl. 219-43.
- Rheinberger, Peter, and M. Auwärter, to Gerätebau-Anstalt. Ultra-violet filter. 2,964,427, 12-13-60, Cl. 117-333.
- Rheingold, Lawrence M.: *See*—
- Berlin, Milton, and Rheingold. 2,936,657.
- Rheinpreussen Aktiengesellschaft für Bergbau und Chemie: *See*—
- Grimme, Walter, and Schmitz. 2,959,622.
- Rhein Stahl Hamburg Stahlbau Eggers & Friedrich: *See*—
- Kneipp, Hans L. 2,936,872.
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- Trumper, Konrad, and Schneider. 2,933,070.
- Rhein Stahl Wanheim Gesellschaft mit beschränkter Haftung: *See*—
- Wilkenloh, Wilhelm, and Jager. 2,954,740.
- Rheinstein, Alfred. Setting shoe for hollow structural wall panel. 2,928,273, 3-15-60, Cl. 72-107.
- Rheinum Rheinische Werkzeug- und Metallwarenfabrik G.m.b.H.: *See*—
- Brüeninghaus, Paul. 2,963,891.
- Rheostatic Co. Ltd.: *See*—
- Burckhardt, Christof W. 2,966,619.
- Rhine, David H., to Texas Instruments Inc. Process and apparatus for homogeneous mixing. 2,953,358, 9-20-60, Cl. 259-1.
- Rhine, William C., to Cutler-Hammer, Inc. Control for plugging an electric motor. 2,943,254, 6-28-60, Cl. 318-373.
- Rhino Products Corp.: *See*—
- Winter, Charles A. 2,960,857.
- Rhoades, John M.: *See*—
- Snell, Jacob K., Rogers, and Rhoades. 2,957,623.
- Rhoades, John M., to General Electric Co. Variable capacity pump. 2,927,536, 3-8-60, Cl. 103-97.
- Rhoades, John W.: *See*—
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- Rhoades, Nolan, and I. Kamukin, to Simplicity Mfg. Co. Power mower with rotary cutter. 2,924,928, 2-16-60, Cl. 56-25.4.
- Rhoades, Rex V., to Industrial Measurements Corp. Valve flow analyzers. 2,934,938, 5-3-60, Cl. 73-3.
- Rhodes, Alan, to The Lubrizol Corp. Steam turbine lubricant. 2,962,443, 11-29-60, Cl. 252-56.
- Rhodes, Albert J., to American Forging & Socket Co. Ratchet lever. 2,938,406, 5-31-60, Cl. 74-576.
- Rhodes, Allen F., and R. Eichenberg, to McEvoy Co. Seal. 2,952,479, 9-13-60, Cl. 285-10.
- Rhodes, Charles K. Hula hoop spinner toy. 2,945,319, 7-19-60, Cl. 46-47.
- Rhodes, Chester R., to Electronic Specialty Co. Electrical instrument protectors. 2,941,149, 6-14-60, Cl. 324-110.
- Rhodes, Curtis L. Apparatus for cooking wieners or the like. 2,924,167, 2-9-60, Cl. 99-358.
- Rhodes, Donald E.: *See*—
- Leaders, William M., Rhodes, Kuhlman, and Hemkens. 2,953,430.
- Rhodes, Ira P., to Swing-A-Way Mfg. Co. Magnetic lid lifter. 2,963,629, 12-6-60, Cl. 317-159.
- Rhodes, John W., to General Motors Corp. Gas turbine nozzle control. 2,955,412, 10-11-60, Cl. 60-35.6.
- Rhodes, Joseph C.: *See*—
- Jacobs, Robert B., and Rhodes. 2,935,590.
  - Jacobs, Robert B., Rhodes, and Lo Giurato. 2,939,312.
- Rhodes, Joseph E., Jr., to Georgia Tech Research Institute. Microscope for viewing substantially transparent objects. 2,950,648, 8-30-60, Cl. 88-39.
- Rhodes, Junior I., to General Electric Co. Transistor oscillator. 2,962,668, 11-29-60, Cl. 331-116.
- Rhodes, Leslie A., to The Jeffrey Mfg. Co. Garbage grinder feeder. 2,963,229, 12-6-60, Cl. 241-46.
- Rhodes, M. H., Inc.: *See*—
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  - Laviana, Lawrence J., and Stodbock. 2,937,247.
- Rhodes, Roland N.: *See*—
- Freedman, Larry A., and Rhodes. 2,950,346.
- Rhodes, Roland N., to Radio Corp. of America. Television deflection circuits. 2,956,202, 10-11-60, Cl. 315-27.
- Rhodes, Roland N., to Radio Corp. of America. Color television demodulating circuit. 2,964,588, 12-13-60, Cl. 178-5.4.
- Rhodes, Stanley J., to Hein-Werner Corp. Three point bender with rod guided ram. 2,938,564, 5-31-60, Cl. 153-38.
- Rhodes, Thomas J., to United States Rubber Co. Apparatus for processing elastomeric material. 2,944,285, 7-12-60, Cl. 18-12.
- Rhodes, Travis M., to James Lees and Sons Co. Industrial apparatus. 2,961,983, 11-29-60, Cl. 112-79.
- Rhodes, Tom B., to Imperial Chemical Industries Ltd. Engine starter cartridges. 2,920,564, 1-12-60, Cl. 102-39.
- Rhodes, Walter C., and C. B. Kirkham, to Airborne Accessories Corp. Power transmission units. 2,928,513, 3-15-60, Cl. 192-4.
- Rhodes, William E., to Robertshaw-Fulton Controls Co. Snap acting switch. 2,927,171, 3-1-60, Cl. 200-87.
- Rhodin, Johannes A. G. Transparent sample holder for pathological specimens and the like. 2,965,219, 12-20-60, Cl. 206-1.
- Rhoe, Clarence E. Carton-type container holders. 2,958,444, 11-1-60, Cl. 222-183.
- Rhyne, Earl C., Jr., to The Warren Mfg. Co., Inc. Low stray-field relays. 2,930,868, 3-29-60, Cl. 200-87.
- Rhyne, John W., Jr.: *See*—
- Kempf, Walter R., and Rhyne. 2,951,891.
- Rhyner, Paul, and H. Illy, to Ciba Ltd. Water-insoluble azo dyestuffs. 2,941,992, 6-21-60, Cl. 260-205.
- Rhys, Cyril O., Jr.: *See*—
- Packie, John W., and Rhys. 2,948,671.
- Rhys, David W., to The International Nickel Co., Inc. Quaternary brazing alloy. 2,964,398, 12-13-60, Cl. 75-159.
- Rhys-Jones, John E., to The Plessey Co. Ltd. Construction of electrical apparatus. 2,929,964, 3-22-60, Cl. 317-101.
- Riat, Henri: *See*—
- Buehler, Arthur, Fasciati, and Riat. 2,943,084.
  - Fasciati, Alfred, Gunst, Riat, and Seitz. 2,945,021.
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  - Seitz, Karl, and Riat. 2,963,472.



- Riat, Henri, to Ciba Ltd. Anthraquinone dyestuffs. 2,952,690, 9-13-60, Cl. 260-372.
- Riat, Henri, and F. Oesterlein, to Ciba Ltd. Metalliferous triazine monoazo-dyestuffs. 2,957,862, 10-25-60, Cl. 260-146.
- Ribas, Manuel P. Plural sac fountain pen. 2,937,618, 5-24-60, Cl. 120-42.16.
- Ribka, Joachim: See—  
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- Riblett, Henry J. Waveguide switch. 2,955,268, 10-4-60, Cl. 333-98.
- Riblett, Earl W.: See—  
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- Ribner, Morris: See—  
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- Riboni, Ubaldo, to Montecatini-Societa Generale per l'Industria Mineraria e Chimica. Magnetic elements and methods for making the same. 2,931,740, 4-5-60, Cl. 117-138.8.
- Ricard, Pierre J., 1/2 to Societe des Forges et Ateliers du Creusot. Steam turbine installation. 2,959,013, 11-8-60, Cl. 60-67.
- Ricards, Charles L.: See—  
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- Ricards, Charles L., P. L. Tollison, L. R. Campbell, and S. Oderman, to Wood Newspaper Machinery Corp. Plate locking mechanism. 2,945,438, 7-19-60, Cl. 101-378.
- Ricards, Harold A.: See—  
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- Riccardi, John. Carton divider. 2,939,623, 6-7-60, Cl. 229-42.
- Ricci, Anthony J.: See—  
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- Ricci, George E. Retractable shelf. 2,926,980, 3-1-60, Cl. 312-303.
- Ricci, Louis N., and B. M. Shannon, to Westinghouse Electric Corp. Plug-in low-impedance bus duct. 2,942,225, 6-21-60, Cl. 339-22.
- Ricciotti, Michael, and J. J. Wachter, to Westinghouse Electric Corp. Method for producing massive solid homogeneous bodies of polyethylene having a thickness of the order of several inches. 2,945,264, 7-19-60, Cl. 18-58.
- Rice, Arthur V., and K. A. King, to R. E. Cote. Vehicle back-up warning device. 2,920,156, 1-5-60, Cl. 200-61.39.
- Rice Barton Corp.: See—  
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Curtenius, Frederick B. 2,958,431.
- Rice, Charles H., to Callery Chemical Co. Preparation of methyl borate. 2,944,076, 7-5-60, Cl. 260-462.
- Rice, Donald A.: See—  
Jones, Arthur F., and Rice. 2,964,580.
- Rice, Edgar C.: See—  
Noble, Jack D., Bentley, and Rice. 2,941,675.
- Rice, Henry T. M.: See—  
Banner, Arthur. 2,927,672.  
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- Rice, John C., and K. Thompson, to Lowe Paper Co. Extrusion coating. 2,955,970, 10-11-60, Cl. 154-102.
- Rice, Joseph: See—  
Weir, Donald A., and Rice. 2,926,851.  
Wright, Esmond P. G., and Rice. 2,927,305.  
Wright, Esmond P. G., and Rice. 2,927,306.  
Wright, Esmond P. G., and Rice. 2,932,009.  
Wright, Esmond P. G., Rice, and Fossey. 2,958,726.  
Wright, Esmond P. G., Rice, and Reynolds. 2,932,688.  
Wright, Esmond P. G., Weir, and Rice. 2,945,625.  
Wright, Esmond P. G., Weir, and Rice. 2,952,731.  
Wright, Esmond P. G., Weir, and Rice. 2,952,732.
- Rice, Leonard L., to Aeroquip Corp. Washer retainer. 2,936,805, 5-17-60, Cl. 151-38.
- Rice, Leonard M.: See—  
Geschickter, Charles F., and Rice. 2,947,664.  
Grogan, Charles H., and Rice. 2,962,496.
- Rice, Lyman A.: See—  
Bolles, Julius H., Rice, and Schneider. 2,965,765.
- Rice, Lyman A., to General Motors Corp. Electric circuit arrangement. 2,932,774, 4-12-60, Cl. 317-141.
- Rice, Lyman A., to General Motors Corp. Regulator. 2,943,169, 6-28-60, Cl. 200-87.
- Rice, Lyman A., to General Motors Corp. Shockproof mounting. 2,951,674, 9-6-60, Cl. 248-358.
- Rice, Orval L., to The New York Air Brake Co. Valve. 2,934,080, 4-26-60, Cl. 137-98.
- Rice, Orval L., and C. A. L. Ruhl, to The New York Air Brake Co. Valve. 2,965,133, 12-20-60, Cl. 137-622.
- Rice, Owen R., to Koppers Co., Inc. Automatically adjusted orifice plate blast furnace gas cleaner and back-pressure system. 2,964,304, 12-13-60, Cl. 261-118.
- Rice, Paul M., to Celanese Corp. of America. Mandrel. 2,952,418, 9-13-60, Cl. 242-72.1.
- Rice, Philip J., Jr.: See—  
Crews, Robert W., and Rice. 2,963,606.
- Rice, Philip K., and R. W. Houvener, to Union Carbide Corp. Process and apparatus for the separation of gas mixtures. 2,966,038, 12-27-60, Cl. 62-34.
- Rice, Richard L., W. J. Hogan, and D. G. Kingsley, to Stapling Machines Co. Wirebound box assembling machine. 2,955,623, 10-11-60, Cl. 140-43.
- Rice, Robert C., and E. W. Schwartz, to General Dynamics Corp. Heat exchanger construction. 2,941,759, 6-21-60, Cl. 244-117.
- Rice, Russell E., to International Harvester Co. Implement control apparatus. 2,947,371, 8-2-60, Cl. 172-605.
- Rice, Stanley I., to The Heald Machine Co. Electro-magnetic chuck. 2,924,917, 2-16-60, Cl. 51-237.
- Rice, Theodore: See—  
Fogle, Merald C., Goldthwait, Kwolek, and Rice. 2,944,098.
- Rice, Walter A., to Mohasco Industries, Inc. Method of making pile fabrics. 2,944,412, 7-12-60, Cl. 66-85.
- Rice, Walter A., to Mohasco Industries, Inc. Apparatus for making pile fabrics. 2,944,413, 7-12-60, Cl. 66-85.
- Rice, Walter A., to Mohasco Industries, Inc. Method and apparatus for making loop pile fabric. 2,944,570, 7-12-60, Cl. 139-38.
- Rice, Walter A., to Mohasco Industries, Inc. Method of making floor mats of irregular contour. 2,949,660, 8-23-60, Cl. 28-74.
- Rice, Warren A., 1/2 interest to C. E. Grebe. Triplanal speaker enclosure. 2,955,669, 10-11-60, Cl. 181-31.
- Rice, William A.: See—  
Groen, Rein J., and Rice. 2,950,203.
- Rich, Alan H. Torsion suspension system for vehicles. 2,957,701, 10-25-60, Cl. 280-104.
- Rich, Benjamin R., to Lockheed Aircraft Corp. Directional controls for propulsive jets. 2,952,123, 9-13-60, Cl. 60-35.54.
- Rich, Charles A., Jr., to Morgan Construction Co. Bearing. 2,955,001, 10-4-60, Cl. 308-36.1.
- Rich, Charles A., Jr., to Morgan Construction Co. Bearing. 2,955,002, 10-4-60, Cl. 308-36.2.
- Rich, Cheryl. Toy umbrella. 2,941,695, 6-21-60, Cl. 222-132.
- Rich, David C., J. E. Archer, and G. R. Harrison, to Pittsburgh Plate Glass Co. Method and apparatus for surfacing sheet material. 2,936,551, 5-17-60, Cl. 51-140.
- Rich, Herbert G., to Fisher Governor Co. Flexible diaphragm flow control valve. 2,939,672, 6-7-60, Cl. 251-5.
- Rich, Howard B. Ladder construction. 2,951,550, 9-6-60, Cl. 182-194.
- Rich, Joseph A., to General Electric Co. Microwave resonant system with a tunable slow wave structure section. 2,934,671, 4-26-60, Cl. 315-3.5.
- Rich, Samuel, to Acorn Aluminum Products Co. Latch for sliding panels. 2,964,344, 12-13-60, Cl. 292-175.
- Rich, Stanley R., to The General Ultrasonics Co. Electro-mechanical transducer system. 2,947,889, 8-2-60, Cl. 310-26.
- Rich, Stanley R., to The General Ultrasonics Co. Diaphragm vibration control. 2,956,538, 10-18-60, Cl. 116-137.
- Rich, Stanley R., to The General Ultrasonics Co. Mechanical vibrator system. 2,956,789, 10-18-60, Cl. 259-72.
- Rich, Theodore A., to General Electric Co. Incipient fog detector. 2,938,423, 5-31-60, Cl. 88-14.
- Rich, Theodore A., to General Electric Co. Compensated light meter power supply. 2,948,814, 8-9-60, Cl. 250-205.
- Rich, Theodore A., to General Electric Co. Condensation nuclei detector. 2,956,435, 10-18-60, Cl. 73-432.
- Rich, Theodore A., to General Electric Co. Arc comparator. 2,960,869, 11-22-60, Cl. 73-432.
- Rich, Walter. Electrically driven clock, particularly for batteries. 2,920,439, 1-12-60, Cl. 53-28.
- Rich, William E.: See—  
Riesz, Kolman, Rich, and Steckowich. 2,942,156.
- Rich, Wilson C., Jr. Rectification process using cool shot in addition to reflux. 2,953,524, 9-20-60, Cl. 208-350.
- Rich, Wilson C., Jr. Apparatus and method for hazardous vapor removal in the refueling of aircraft. 2,965,196, 12-20-60, Cl. 183-4.4.
- Richa, John H., and F. E. Hanson. Coat form retainer. 2,940,646, 6-14-60, Cl. 223-71.
- Richard, Albert R., and G. P. Honkanen, to Woodruff & Stokes Co. Centerless grinding and boring apparatus. 2,939,253, 6-7-60, Cl. 61-103.
- Richard, Andre P.: See—  
Petitcolas, Pierre, and Richard. 2,926,986.
- Richard Co.: See—  
Whitmore, John F. 2,940,486.
- Richard, James A.: See—  
Hohos, Edward J., and Richard. 2,947,279.
- Richard, James A., to Mine Safety Appliances Co. Joint between headgear and face shield. 2,926,380, 3-1-60, Cl. 16-140.
- Richard, Kurt: See—  
Diedrich, Georg, Gaube, and Richard. 2,952,867.  
Diedrich, Georg, Richard, and Gaube. 2,961,711.
- Richards, Brinley T., to Titeflex, Inc. Tube clamp. 2,929,595, 3-22-60, Cl. 248-74.
- Richards, Dexter. Ski binding. 2,959,424, 11-8-60, Cl. 280-11.35.
- Richards, Dwight: See—  
Oliver, Edwin L., Jr., and Richards. 2,964,194.
- Richards, Elmer A., to Borg-Warner Corp. Transmission. 2,953,038, 9-20-60, Cl. 74-730.
- Richards, Elmer A., and J. B. Snoy, to Borg-Warner Corp. Double hydraulic operated clutch device. 2,920,732, 1-12-60, Cl. 192-87.
- Richards, Fred P. Dual flush control. 2,950,483, 8-30-60, Cl. 4-67.
- Richards, George B.: See—  
Billeter, Henry R., and Richards. 2,955,797.
- Richards, George B., to Liquid Controls Corp. Fluid segregators. 2,957,490, 10-25-60, Cl. 137-172.



- Richards, George W. F.: *See*—  
Holmes, Edward W., and Richards. 2,964,288.
- Richards, Glenn L., to General Dynamics Corp. Ringing code detector. 2,923,776, 2-2-60, Cl. 179-17.
- Richards, Grady. Wrench support. 2,960,895, 11-22-60, Cl. 81-53.
- Richards, James A. K., to Bendix Aviation Corp. Measuring circuit with time-varied electric filter. 2,941,150, 6-14-60, Cl. 324-140.
- Richards, Jesse W., to Ford Motor Co. Motor vehicle front end structure. 2,955,870, 10-11-60, Cl. 296-28.
- Richards, John F., and R. A. Thompson, Jr., to Esso Research and Engineering Co. Production of a smooth, uniform, air-free aluminum stearate grease. 2,962,440, 11-29-60, Cl. 252-35.
- Richards, John J., to Becton, Dickinson and Co. Method of marking graduated glass clinical thermometers. 2,931,735, 4-5-60, Cl. 117-5.5.
- Richards, Kenneth F.: *See*—  
Shaw, Kenneth S., Richards, and Lytle. 2,963,162.
- Richards, Kurt F., to Standard Oil Co. Stable petroleum distillate fuels. 2,928,727, 3-15-60, Cl. 44-66.
- Richards, Larry F., to Dayton Tandem V-Belt Drive Co. V-belt sheave constructions. 2,920,491, 1-12-60, Cl. 74-230.01.
- Richards, Lawrence R., to Chapman Brothers. Dual voltage automobile generator. 2,939,975, 6-7-60, Cl. 310-131.
- Richards, Lorenzo A. Electrical sensing unit for measuring water in porous media. 2,941,174, 6-14-60, Cl. 338-35.
- Richards, Lorenzo A. Means for automatic irrigation control. 2,946,512, 7-26-60, Cl. 239-63.
- Richards Mfg. Co.: *See*—  
Craig, William A. 2,955,594.
- Richards, Philip. Load elevating apparatus. 2,944,633, 7-12-60, Cl. 187-9.
- Richards, Raymond S., and O. A. Wheelon, to Titanium Metals Corp. of America. Free bend testing device. 2,919,575, 1-5-60, Cl. 73-100.
- Richards, Richard K., to International Business Machines Corp. Binary adder subtracter. 2,926,850, 3-1-60, Cl. 235-175.
- Richards, Richard K. Magnetic core circuits. 2,935,738, 5-3-60, Cl. 340-174.
- Richards, Richard K. Low-temperature digital computer component. 2,944,211, 7-5-60, Cl. 323-94.
- Richards, Richard K., and T. R. Garrity, to International Business Machines Corp. Bistable transistor circuit. 2,923,836, 2-2-60, Cl. 307-88.5.
- Richards, Robert D., to Muirhead & Co. Ltd. Electrolytic recording media. 2,949,409, 8-16-60, Cl. 204-2.
- Richards, Robert L., Jr., to E. I. du Pont de Nemours and Co. Method of producing heat-shrinkable polyethylene terephthalate film. 2,928,132, 3-15-60, Cl. 18-48.
- Richards, Russell N. Carton cutter. 2,938,264, 5-31-60, Cl. 30-2.
- Richards, Stanley, to Integral Ltd. Chucks for machine tools. 2,966,362, 12-27-60, Cl. 279-4.
- Richards Structural Steel Co., Ltd. of Phoenix Iron Works: *See*—  
Wright, Eric L. 2,966,078.
- Richards, Sydney H., to W. R. Grace & Co. Process for preparing a supported nickel hydrogenation catalyst. 2,955,090, 10-4-60, Cl. 252-455.
- Richards, Thomas W.: *See*—  
Hitch, Harold R., Ramsey, and Richards. 2,940,665.
- Richards, Uri S. Mounts for calendars and memorandum pads. 2,930,557, 3-29-60, Cl. 248-35.
- Richards, Wilfred A., J. R. Price, and K. F. Davis, to The English Electric Co. Ltd. Instrument zero adjusters. 2,963,651, 12-6-60, Cl. 324-154.
- Richardson, Alfred J. Retaining plates for nets, tarpaulins and the like. 2,953,201, 9-20-60, Cl. 160-404.
- Richardson, Ambrose M., and G. W. McCauley. Inflatable structure. 2,934,075, 4-26-60, Cl. 135-1.
- Richardson, Andrew J., and M. L. Earsley. Anti-siphon valve for commode tanks. 2,935,082, 5-3-60, Cl. 137-454.2.
- Richardson, Arthur E. 50% to H. B. Park and 50% to M. Saslove. Apparatus for recapping tires. 2,933,765, 4-26-60, Cl. 18-45.
- Richardson, Arthur W.: *See*—  
Heathfield, Patrick E. H., Gow, and Richardson. 2,928,778.
- Richardson, Avery G., to International Telephone and Telegraph Corp. Positional orientation evaluator. 2,930,129, 3-29-60, Cl. 33-1.
- Richardson, Cloyd B., to The Mead Corp. Process of manufacturing wood pulp. 2,962,412, 11-29-60, Cl. 162-61.
- Richardson Co., The: *See*—  
Boyer, William M. 2,961,373.  
Boyer, William M., and Gavlin. 2,924,626.  
Honnen, Maria. 2,930,774.  
Hutchinson, John L. 2,958,443.  
Stevens, Fred C. 2,930,408.  
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- Richardson, Donald: *See*—  
Came, Donald M., O'Connor, and Richardson. 2,947,541.
- Richardson, Donald E., to United States of America, Navy. Cluster bomb control circuit. 2,958,284, 11-1-60, Cl. 102-70.2.
- Richardson, Donald K., to Hughes Aircraft Co. Enclosure for aircraft compartments. 2,949,841, 8-23-60, Cl. 98-1.
- Richardson, Dora N.: *See*—  
Birtwell, Stanley, Maisey, and Richardson. 2,952,677.  
Hepworth, Walter, and Richardson. 2,966,489.
- Richardson, Earle W. Method and apparatus for pulp molding lampshades. 2,955,975, 10-11-60, Cl. 162-199.
- Richardson, Edwin A., to Columbia-Southern Chemical Corp. Method of treating and packaging caustic soda. 2,924,274, 2-9-60, Cl. 159-47.
- Richardson, Eugene E.: *See*—  
Karil, Robert E., Richardson, and Watson. 2,952,672.  
Karil, Robert E., Sabol, and Richardson. 2,921,901.
- Richardson, Francis: *See*—  
Albright, Robert E., Michonski, and Richardson. 2,944-119.
- Richardson, Franklin L., and W. H. Harms. Cable hanger. 2,964,274, 12-13-60, Cl. 248-68.
- Richardson, Fred. Sheet metal connector. 2,936,861, 5-17-60, Cl. 189-35.
- Richardson, Frederic D. Vehicle trunk. 2,963,314, 12-6-60, Cl. 296-37.
- Richardson, Henry A.: *See*—  
Quarmby, Eric, and Richardson. 2,928,984.
- Richardson, James A., to Unipak Cartons Ltd. Cartons. 2,943,762, 7-5-60, Cl. 220-105.
- Richardson, James A., to Unipak Cartons Ltd. Cartons. 2,943,763, 7-5-60, Cl. 220-115.
- Richardson, John B.: *See*—  
Edsall, Bruce M., and Richardson. 2,932,940.
- Richardson, Leland H. Tortilla holder. 2,957,404, 10-25-60, Cl. 99-426.
- Richardson, Max C.: *See*—  
Chase, Lyle O. 2,938,325.
- Richardson, Morgan B. Jalousie window. 2,952,885, 9-20-60, Cl. 20-62.
- Richardson, Paul N.: *See*—  
Kralovec, Robert D., and Richardson. 2,966,476.
- Richardson, Philip, and A. P. Miller, to C. A. Parsons & Co. Ltd. Dynamo-electric machine cooling structure. 2,929,943, 3-22-60, Cl. 310-64.
- Richardson, Pierce F., to International Harvester Co. Seal between a shaft and a hollow member. 2,959,434, 11-8-60, Cl. 286-11.15.
- Richardson, Richard A., to Carrollton Mfg. Co. Self rimming sink mounting. 2,925,609, 2-23-60, Cl. 4-187.
- Richardson, Robert E. Fishing lure. 2,938,293, 5-31-60, Cl. 43-42.24.
- Richardson, Robert W., to General Motors Corp. Fuel injection system anti-siphon device. 2,963,283, 12-6-60, Cl. 123-119.
- Richardson, Ronald E.: *See*—  
Donovan, Arthur F., Jacquot, and Richardson. 2,961,801.
- Richardson, Ronald E., to Pittsburgh Plate Glass Co. Method of manufacturing curved, tinted laminated glass interlayers. 2,937,407, 5-24-60, Cl. 18-48.
- Richardson, Ronald E., to Pittsburgh Plate Glass Co. Glass pressing nipper rolls. 2,948,646, 8-9-60, Cl. 154-2.7.
- Richardson, Sid, Carbon Co.: *See*—  
Bulls, James W., Normand, and Classen. 2,922,612.
- Richardson, Vernon C. H., to U.S. Industries, Inc. Automatic shut-off valve and controls therefor. 2,935,998, 5-10-60, Cl. 137-458.
- Richardson, Warren S. Clip. 2,955,339, 10-11-60, Cl. 24-262.
- Richardson, William S.: *See*—  
Falk, Louis W., and Richardson. 2,943,504.
- Richardson, William S., to The Falk Corp. Control mechanism. 2,952,347, 9-13-60, Cl. 192-098.
- Richardsons, Westgarth & Co. Ltd.: *See*—  
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- Richartz, Paul, to Bell & Howell Co. Motion picture camera. 2,959,091, 11-8-60, Cl. 88-18.
- Richarz, Werner: *See*—  
Guyer, August and P., and Richarz. 2,955,130.
- Richaud, Henri, to Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Metal plating process. 2,965-551, 12-20-60, Cl. 204-32.
- Richelli, Federico. Machine for the automatic manufacturing and extracting of blocks, either opaque or crystalline ice. 2,925,721, 2-23-60, Cl. 62-132.
- Richelsen, Mark, to Metal Chlorides Corp. Continuous high temperature reaction apparatus. 2,946,668, 7-26-60, Cl. 23-277.
- Richert, Walter J., to American Machine & Foundry Co. Electrical relays. 2,955,174, 10-4-60, Cl. 200-93.
- Richeson, James P., to The Chemstrand Corp. Pressure sealing device. 2,932,183, 4-12-60, Cl. 68-5.
- Richeson, Sanford E. Installation for dispensing several beverages. 2,921,714, 1-19-60, Cl. 222-68.
- Richey, Clarence B., V. O. Hauswirth, and C. E. McKeon, to Ford Motor Co. Hay conditioner and mower hitch means. 2,953,885, 9-27-60, Cl. 56-1.
- Richey, David M., to Emhart Mfg. Co. Power-operated boom structure. 2,940,539, 6-14-60, Cl. 182-2.
- Richfield Oil Corp.: *See*—  
Arnold, Marion L. 2,943,641.  
Bronson, Arthur H. 2,944,936.  
Kofahl, David C. 2,935,024.
- Richgruber, James V. Portable liquid sampler and flow recorder. 2,954,698, 10-4-60, Cl. 73-423.
- Richheimer, Ralph, to Belay Chemical Co., Inc. Automatic siphonic washing apparatus. 2,933,097, 4-19-60, Cl. 137-132.



- Rich Hill Drug Co., Inc.: See—  
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- Richland Auto Parts Co.: See—  
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- Richman, Donald: See—  
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- Richman, Donald, to Hazeltine Research, Inc. Variable-delay system. 2,920,287, 1-5-60, Cl. 332-1.
- Richman, Donald, to Hazeltine Research, Inc. Automatic-chrominance-control system. 2,922,839, 1-26-60, Cl. 178-5.4.
- Richman, Donald, to Hazeltine Research, Inc. Noise-immune synchronizing-signal separator for television receivers. 2,933,558, 4-19-60, Cl. 178-7.3.
- Richman, Donald, to Hazeltine Research, Inc. Phase detector for color television receivers. 2,934,598, 4-26-60, Cl. 178-5.4.
- Richman, Donald, to Hazeltine Research, Inc. Automatic-chrominance-control system. 2,936,332, 5-10-60, Cl. 178-5.4.
- Richman, Donald, to Hazeltine Research, Inc. Signal-translating system for color-television receiver. 2,942,060, 6-21-60, Cl. 178-5.4.
- Richman, Donald, to Hazeltine Research, Inc. Phase detector and color killer. 2,954,425, 9-27-60, Cl. 178-5.4.
- Richman, Henry J., Jr. Remotely controlled trailer hitch and stand. 2,937,887, 5-24-60, Cl. 280-508.
- Richman, Jacob S., and A. L. Korr, said Korr assor. to said Richman. Vending machine. 2,930,312, 3-29-60, Cl. 99-357.
- Richman, Jacob S. Frankfurter package unit and process for cooking frankfurters. 2,939,793, 6-7-60, Cl. 99-174.
- Richman, Oscar and S., and B. Weissenberg, and N. Fabrizio, said S. Richman assor. to said O. Richman. Corner crimper. 2,944,262, 7-12-60, Cl. 1-260.
- Richman, Solomon: See—  
Richman, Oscar and S., Weissenberg, and Fabrizio. 2,944,262.
- Richmond, Alfred, and A. H. Gentle, to British Celanese Ltd. Apparatus for the treatment of yarns. 2,932,935, 4-19-60, Cl. 57-34.
- Richmond Cedar Works Mfg. Corp.: See—  
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- Richmond, Fredericksburg and Potomac Railroad Co.: See—  
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- Richmond Joy H. Hair setting assembly. 2,929,385, 3-22-60, Cl. 123-45.
- Richmond, Nelson R.: See—  
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- Richter, Charles G. Tire regrooving machine. 2,936,828, 5-17-60, Cl. 157-13.
- Richter, Donald L., to Kaiser Aluminum & Chemical Corp. Container. 2,919,826, 1-5-60, Cl. 220-15.
- Richter, Donald L., to Kaiser Aluminum & Chemical Corp. Metallic receptacles. 2,924,369, 2-9-60, Cl. 229-3.5.
- Richter, Donald L., to Kaiser Aluminum & Chemical Corp. Vehicle suspension assembly. 2,943,864, 7-5-60, Cl. 280-104.5.
- Richter, Ferdinand J., and E. C. Yen, to American Cyanamid Co. Fluorescent glass container marking. 2,929,931, 3-22-60, Cl. 250-71.
- Richter, Friedrich, to Electroacoustic Gesellschaft mit beschränkter Haftung. Recording instrument. 2,944,868, 7-12-60, Cl. 346-74.
- Richter, Friedrich, to Electroacoustic Gesellschaft mit beschränkter Haftung. Instruments for recording short intervals of time. 2,946,647, 7-26-60, Cl. 346-74.
- Richter, Frederick H., to The Babcock & Wilcox Co. Method of resisting digester corrosion. 2,938,825, 5-31-60, Cl. 162-48.
- Richter, Frederick H., and F. B. Snyder, to The Babcock & Wilcox Co. Apparatus for avoiding digester corrosion. 2,950,757, 8-30-60, Cl. 162-233.
- Richter, George A., Jr.: See—  
McBurney, Charles H., Richter, and Kine. 2,933,479.
- Richter, George A., Jr., C. H. McBurney, and B. B. Kine, to Rohm & Haas Co. Ion-exchange fibers, films and the like from sulfur containing alkoxymethyl monomers. 2,933,460, 4-19-60, Cl. 260-2.1.
- Richter, Gerhard: See—  
Eggers, Gerhard, Ernst, and Richter. 2,959,378.
- Richter, Hans. Device and method for crimping fully synthetic threads and thread strands. 2,959,906, 11-15-60, Cl. 57-34.
- Richter, Herbert M. Jet-aerator spray shower-head. 2,935,265, 5-3-60, Cl. 239-107.
- Richter, Johan C. F. C., to Aktiebolaget Kamy. Apparatus for separating used liquor from cellulosic pulp. 2,932,396, 4-12-60, Cl. 210-152.
- Richter, Johan C. F. C., to Aktiebolaget Kamy. Digestion apparatus and method. 2,938,824, 5-31-60, Cl. 162-42.
- Richter, Johan C. F. C. Device for discharging materials from vessels. 2,960,161, 11-15-60, Cl. 162-246.
- Richter, John A. Arrowhead. 2,940,758, 6-14-60, Cl. 273-106.5.
- Richter, John W.: See—  
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- Richter, John W., T. H. Gewecke, and C. R. Broman, to Baxter Laboratories, Inc. Parenteral solution equipment. 2,953,132, 9-20-60, Cl. 128-272.
- Richter, John W., D. E. Ayer, and N. G. Brink, to Merck & Co., Inc. Process of preparing ACTH-active concentrates. 2,957,807, 10-25-60, Cl. 167-74.
- Richter, Kenneth E.: See—  
Craig, Thomas A., Richter, Wojciak, and Meineke. 2,952,766.
- Richter, Kurt: See—  
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- Richter, Kurt H. Collapsible table-stand for use in automobiles. 2,921,824, 1-19-60, Cl. 311-21.
- Richter, Orlando W., and J. C. Sugg, Jr. Test set for checking relays. 2,947,937, 8-2-60, Cl. 324-28.
- Richter, Robert, to United States of America, Army. Selective signaling system. 2,935,731, 5-3-60, Cl. 340-156.
- Richter, Walther, to Electro-Seal Corp. Test circuit for magnetic core inductive reactors. 2,927,266, 3-1-60, Cl. 324-34.
- Richter, Walther, to Cutler-Hammer, Inc. Frequency modulation systems. 2,935,700, 5-3-60, Cl. 332-16.
- Richter, Werner E. Detachable hook for refrigerator cars. 2,958,498, 11-1-60, Cl. 248-340.
- Richter, Werner E., and R. Mayer. Meat hook assembly for refrigerator cars. 2,959,389, 11-8-60, Cl. 248-340.
- Richter, Frank H., and W. M. Cissell, to W. M. Cissell Mfg. Co. Garment finisher. 2,948,443, 8-9-60, Cl. 223-67.
- Rick, Chester. Portable lamp. 2,950,892, 8-30-60, Cl. 248-282.
- Rickard, Brent N. Wheel chock. 2,961,070, 11-22-60, Cl. 188-32.
- Rickard, Charlotte I., and J. C. Bletzinger, to Kimberly-Clark Corp. Tampon ejector. 2,922,423, 1-26-60, Cl. 128-263.
- Rickard, Clyde E., to McDowell Mfg. Co. Pressure sealed hydrant valve. 2,925,992, 2-23-60, Cl. 251-172.
- Rickard, Clyde E., to McDowell Mfg. Co. Gasket. 2,962,314, 11-29-60, Cl. 238-5.
- Rickard, George H.: See—  
Anthony, Russel W., and Rickard. 2,943,383.
- Rickard, James A.: See—  
Peters, Beldon A., and Rickard. 2,946,886.
- Rickard, James A., to Jersey Production Research Co. Stable isotope method for well logging. 2,943,200, 6-28-60, Cl. 250-83.3.
- Rickard, James A., to Jersey Production Research Co. Method of logging wells by induced delayed radiation. 2,963,586, 12-6-60, Cl. 250-83.3.
- Rickard, James A., to Jersey Production Research Co. Method of well logging. 2,963,587, 12-6-60, Cl. 250-83.6.
- Rickard, R. H., Associates: See—  
Huiras, Lucia M. 2,933,736.
- Rickards, James C.: See—  
Schur, Milton O., and Rickards. 2,954,036.
- Rickel, William R., and W. W. Syles, to Whirlpool Corp. Clothes washing and extracting machine. 2,942,447, 6-28-60, Cl. 68-24.
- Rickenbach, August W., to Avco Mfg. Corp. Gasket. 2,941,105, 6-14-60, Cl. 313-118.
- Rickenbacher, Hans R.: See—  
Brenner, Carl M., and Rickenbacher. 2,938,029.  
Brenner, Carl M., and Rickenbacher. 2,955,109.
- Rickenbacher, Hansruedi, and H. Zollinger, to Ciba Ltd. Process for the manufacture of 2-halogenanthraquinones. 2,964,536, 12-13-60, Cl. 260-384.
- Ricker, Eugene C., to Haloid Xerox Inc. Electrostatic developing apparatus and method. 2,943,950, 7-5-60, Cl. 117-17.5.
- Ricker, Norman H., to United States of America, Navy. Thermal time delay unshorter for protection of detonating squib. 2,921,525, 1-19-60, Cl. 102-70.2.
- Rickers, Frank O., to The Geo. Wiedemann Brewing Co. Method of carbonating a malt beverage. 2,926,087, 2-23-60, Cl. 99-49.
- Rickert, Herbert B., to The Dow Chemical Co. Halogenated coal acids. 2,929,838, 3-22-60, Cl. 260-515.
- Rickert, Herbert B., and W. M. Geiger, to The Dow Chemical Co. 2,4,6,8-tetra-tertiarybutylphenoxazine. 2,945,856, 7-19-60, Cl. 260-244.
- Rickert, Herbert B., to The Dow Chemical Co. Oil-modified alkyd compositions with coal acids. 2,965,587, 12-20-60, Cl. 260-22.
- Ricketts, James B., Jr., and R. H. Schafer, to Burroughs Corp. Triggered thyatron circuit. 2,942,160, 6-21-60, Cl. 317-142.
- Ricketts, James M.: See—  
Collman, John S., and Ricketts. 2,960,306.
- Ricketts, James M., to General Motors Corp. Compressor seals. 2,938,661, 5-31-60, Cl. 230-132.
- Rickey, Burton C.: See—  
Greene, Lawrence P., Rickey, and Wolf. 2,938,680.
- Rickford, Arthur W.: See—  
Heth, Edwin M., and Rickford. 2,928,305.
- Rickford, Vernon W. Electric saw safety guard retractor. 2,963,056, 12-6-60, Cl. 143-159.
- Rickner, Edward J., and T. F. Droege, to United States of America, Navy. Transistor servo amplifier. 2,951,991, 9-6-60, Cl. 330-32.



- Ricks, Elmer H.: *See*—  
Berghoff, Frank, and Ricks. 2,964,869.
- Ricks, James B., to E. F. Simmons. Surface testing apparatus. 2,961,871, 11-29-60, Cl. 73-105.
- Rickwood, Norman W.: *See*—  
Barnes, Norman, Rickwood, and Sargent. 2,959,217.
- Ricord, Jacques L. Reproduction device. 2,936,691, 5-17-60, Cl. 95-77.5.
- Riddell, John T., Inc.: *See*—  
Morgan, Gerard H., Jr. 2,939,149.
- Rippleyea, Frederick A., and Morgan. 2,929,102.
- Riddell, Robert J., Jr.: *See*—  
Chambers, Edmund S., Garren, Kippenhan, Lamb, and Riddell. 2,920,236.
- Riddell, William, to Burgess Products Co. Ltd. Snap action mechanism. 2,947,831, 8-2-60, Cl. 200-67.
- Ridderstrom, Andrew R. Rib laying apparatus. 2,932,834, 4-19-60, Cl. 12-20.
- Ridderström, Gustav F. I.: *See*—  
Andren, Ingmar K. L., and Ridderström. 2,931,500.
- Riddle, Frank W., and S. L. Duffett, to Scotland Mills, Inc. Float cutting apparatus for looms. 2,958,343, 11-1-60, Cl. 139-291.
- Riddle, Frank W., and S. L. Duffett, to Scotland Mills, Inc. Float cutting apparatus. 2,961,734, 11-29-60, Cl. 26-12.
- Riddle, James M., to Ethyl Corp. Preparation of organotin and lead compounds. 2,950,301, 8-23-60, Cl. 260-429.7.
- Riddle, James M. Preparation of organometallic compounds. 2,950,302, 8-23-60, Cl. 260-429.7.
- Riddle, James M., to Ethyl Corp. Preparation of organomercury compounds. 2,950,303, 8-23-60, Cl. 260-431.
- Riddle, James M. Preparation of organometallic compounds. mercury compounds. 2,950,304, 8-23-60, Cl. 260-431.
- Riddle, James M., to Ethyl Corp. Preparation of organomercury compounds. 2,950,305, 8-23-60, Cl. 260-431.
- Riddle, John W., and E. G. Lundgren. Rear window cleaning device. 2,919,952, 1-5-60, Cl. 296-91.
- Riddle, Kenneth J.: *See*—  
Hemion, John R., Covalence, and Riddle. 2,949,778.
- Riddle, Riley N., Jr. Scales adapter. 2,931,640, 4-5-60, Cl. 265-73.
- Riddle, Thomas F. Sesame seed food product and process of producing the same. 2,926,091, 2-23-60, Cl. 99-140.
- Ridenour, Wayne F., to Cheshire Inc. Vacuum feed assembly for flat pieces and valve therefor. 2,956,804, 10-18-60, Cl. 271-32.
- Rideout, Vincent C., to R. R. Wegner by decree of distribution to L. E. Wegner. Photoelectric inspection apparatus. 2,939,963, 6-7-60, Cl. 250-219.
- Rider, Agatha A.: *See*—  
McCollum, Elmer V., and Rider. 2,928,869.
- Ridge, Guy H.: *See*—  
Buckingham, William D., Ridge, Root, and Turner. 2,938,721.
- Ridge Tool Co., The: *See*—  
Beavis, Hugh H. 2,923,951.
- Ingwer, Carl H., and Wright. 2,923,190.
- Ingwer, Carl H., and Wright. 2,948,326.
- Ridgeway, Denis V., to Pye Ltd. Mounting of cathode ray tubes. 2,922,153, 1-19-60, Cl. 340-367.
- Ridgeway, Denis V., to Pye Ltd. Colour television projection systems. 2,965,706, 12-20-60, Cl. 178-5.4.
- Ridgeway, John L.: *See*—  
Kelley, Joseph A., and Ridgeway. 2,931,716.
- Ridgway, Edmund T., and H. W. Weishelt, Jr., to The Budd Co. Testing of vehicles, especially of semi-trailers. 2,963,903, 12-13-60, Cl. 73-71.7.
- Ridgway, Frank, to Arundel, Coulthard & Co. Ltd. Flyers for textile machines. 2,929,194, 3-22-60, Cl. 57-116.
- Ridgway, Herbert N. Automatic safety guard for vehicles. 2,919,932, 1-5-60, Cl. 280-150.
- Ridgway, Lincoln, to United-Carr Fastener Corp. Fastening device. 2,932,073, 4-12-60, Cl. 24-219.
- Ridgway, Robert C.: *See*—  
Swenson, Harvey F., and Ridgway. 2,924,951.
- Swenson, Harvey F., and Ridgway. 2,924,952.
- Ridler, Desmond S., D. A. Weir, and A. D. Odell, to International Standard Electric Corp. Static electrical switches. 2,933,688, 4-19-60, Cl. 328-96.
- Ridler, Desmond S., and R. Grimmond, to International Standard Electric Corp. Circuit arrangements for producing substantially constant currents. 2,939,019, 5-31-60, Cl. 307-106.
- Ridler, Desmond S., and R. Grimmond, to International Standard Electric Corp. Intelligence storage devices. 2,952,840, 9-13-60, Cl. 340-174.
- Ridler, Desmond S., and R. Grimmond, to International Standard Electric Corp. Intelligence storage devices with compensation for unwanted output current. 2,958,853, 11-1-60, Cl. 340-174.
- Ridler, Desmond S., and B. F. Armsby, to International Standard Electric Corp. Toroidal winding machine. 2,962,235, 11-29-60, Cl. 242-2.
- Ridley, Ian M., and R. L. Klosterman. Concrete gun, mixer and sandblaster. 2,942,860, 6-28-60, Cl. 259-151.
- Riebe, Kenneth W.: *See*—  
Cunningham, Fay L., Riebe, and Greiner. 2,963,494.
- Riebs, Richard E., to McGraw-Edison Co. Electrical protective device. 2,963,614, 12-6-60, Cl. 313-161.
- Rieck, Roy J.: *See*—  
Decker, William H., Rieck, and Bennett. 2,943,520.
- Riecke, Kurt: *See*—  
Fendius, Kurt, and Riecke. 2,937,956.
- Riede, John R.: *See*—  
Cross, Carol D., Henderson, Riede, and Reisinger. 2,941,732.
- Riede, John R., and R. C. Cahill, to The Regents of the University of Minnesota. Magnetic shield for coils. 2,958,037, 10-25-60, Cl. 324-41.
- Riedel, Albrecht, to VEB Geräte-und Regler-Werke Teltow. Apparatus for indicating unbalance of rotating bodies. 2,949,033, 8-16-60, Cl. 73-462.
- Riedel, Bernard B. Automobile wheel balancing apparatus. 2,919,582, 1-5-60, Cl. 73-484.
- Riedel, Erich O., to Rosenthal-Isolatoren G.m.b.H. Plate sieve structure and method of producing same. 2,964,187, 12-13-60, Cl. 209-392.
- Riedel, Herbert. Diapositive frame. 2,931,118, 4-5-60, Cl. 40-152.
- Riedel, Kurt A.: *See*—  
Hansen, John A., Parske, and Riedel. 2,952,170.
- Parske, Charles A., and Riedel. 2,947,227.
- Riedel, Kurt A., and J. A. Hansen, to Kearney & Trecker Corp. Twin spindle milling and boring machine. 2,952,065, 9-13-60, Cl. 29-26.
- Riedel, Norbert. Starter-generator for an internal combustion engine. 2,930,259, 8-29-60, Cl. 74-810.
- Riediger, Bruno, to Metallgesellschaft A.G. Process for the vaporisation of liquefied low-boiling gases. 2,937,504, 5-24-60, Cl. 62-53.
- Riedl, Fredrick J.: *See*—  
Donaldson, George R., and Riedl. 2,952,715.
- Riedmaier, Edward H., and A. N. Feutz, to Flannery and Associates, Inc. Shelf construction. 2,940,603, 6-14-60, Cl. 211-136.
- Rief, F. J., Jr.: *See*—  
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- Rief, F. J., Sr.: *See*—  
Rosendahl, Russell E. 2,933,929.
- Riegel Paper Corp.: *See*—  
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- Magill, Donald G., Jr., and Williams. 2,960,559.
- Pearson, Robert L. 2,956,581.
- Riegel, Robert C., to General Aniline & Film Corp. Dyestuff compositions. 2,955,011, 10-4-60, Cl. 88-85.
- Riegelman, Harry M., Jr.: *See*—  
Mounteer, Carlyle A., Riegelman, and Hughes. 2,948,887.
- Rieger, Saul: *See*—  
Artzt, William W., and Rieger. 2,921,547.
- Riegger, Paul, and H. Bertrang, to Kienzle Apparate G.m.b.H. Tachograph. 2,924,497, 2-9-60, Cl. 346-121.
- Riegger, Paul, and K. Vögtlin, to Kienzle Apparate G.m.b.H. Method and apparatus for the evaluation of tachometer diagrams. 2,933,363, 4-19-60, Cl. 346-23.
- Riegler, Ernst, to Kalle Aktiengesellschaft. Traversing reel. 2,963,233, 12-6-60, Cl. 242-47.10.
- Riehart, Cleo A., and L. B. Jensen, to Swift & Co. Process for bleaching casings. 2,966,415, 12-27-60, Cl. 99-175.
- Riehl, Ernest P., to Superior Concrete Accessories, Inc. Concrete form and chamfer corner strip therefor. 2,940,152, 6-14-60, Cl. 25-118.
- Riehl, Harmon B., and J. W. Powischill, to Proctor & Schwartz, Inc. Method and apparatus for producing yarn sliver. 2,937,411, 5-24-60, Cl. 19-65.
- Riehl, Harmon B., and E. M. Hyde, to The Proctor-Sillex Corp. Apparatus for producing yarn sliver. 2,964,801, 12-20-60, Cl. 19-65.
- Riehl, William A., to Flor-Heat Sales, Inc. Heating panel construction. 2,956,785, 10-18-60, Cl. 258-124.
- Riehm, Theodor: *See*—  
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- Riehm, Theodor, to Udic Societe Anonyme. Concentration of wood sugar solutions. 2,944,923, 7-12-60, Cl. 127-37.
- Riehm, Theodor, to Udic Societe Anonyme. Process for the saccharification of softwood sawdust. 2,945,777, 7-19-60, Cl. 127-37.
- Rieke, John W.: *See*—  
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- Riemenschneider, Claud C. Rack for optionally supporting articles rotatably or stationarily. 2,921,688, 1-19-60, Cl. 211-2.
- Riemenschneider, Claud C. Rack with optional rotatable spindles or stationary spindle supported shelves. 2,921,689, 1-19-60, Cl. 211-2.
- Riendeau, Thomas W., 1/2 to Gadget-Of-The-Month Club, Inc. Multi-purpose hair curler. 2,953,139, 9-20-60, Cl. 132-41.
- Riener, Edward F., to Rohm & Haas Co. Acyloxy-halo derivatives of aliphatic acids and their esters. 2,947,766, 8-2-60, Cl. 260-405.
- Rienks, George W.: *See*—  
Williamson, Ruth B., and Rienks. 2,957,186.
- Rienks, George W. Variable spray pattern lawn sprinkler. 2,943,798, 7-5-60, Cl. 239-520.
- Rieppel, Perry J., to Chemetron Corp. Arc welding method and apparatus. 2,963,570, 12-6-60, Cl. 219-74.
- Ries, Herman E., Jr., to Standard Oil Co. Lubricant compositions. 2,963,437, 12-6-60, Cl. 252-49.8.
- Ries, Herman E., Jr., to Standard Oil Co. Distillate hydrocarbon compositions. 2,965,460, 12-20-60, Cl. 44-75.
- Ries, William M., to Wheeling Steel Corp. Making and handling lath or the like. 2,938,261, 5-31-60, Cl. 29-417.



- Ries, William M., to Wheeling Steel Corp. Apparatus for bundling lath or the like. 2,938,452, 5-31-60, Cl. 100-8.
- Riesco, Manuel. Bar turnover for pack-annealing bed. 2,965,216, 12-20-60, Cl. 198-33.
- Riese, Karl F., to General Mills, Inc. Machine for straightening electrical component leads. 2,964,087, 12-13-60, Cl. 153-32.
- Riesenbergh, Horst, to VEB Carl Zeiss Jena. Mirror systems, particularly for ultra-red spectral apparatus. 2,934,995, 5-3-60, Cl. 88-14.
- Rieser, Raymond G., to Pittsburgh Plate Glass Co. Dyeing plastic sheeting. 2,923,591, 2-2-60, Cl. 8-4.
- Riesgraf, Mathias H.: See—  
Pesek, Clarence T., and Riesgraf. 2,964,951.
- Riester, Hubert A., Jr., and C. J. Kugler, to American Meter Co., Inc. Pneumatic clock controlled motor. 2,930,362, 3-29-60, Cl. 121-48.
- Riester, Oskar: See—  
Coenen, Max, Gotze, Grisar, Riester, Stracke, and Zietan. 2,930,694.
- Riester, Oskar, to Agfa Aktiengesellschaft. Process for sensitizing silver halide emulsions. 2,944,896, 7-12-60, Cl. 96-63.
- Riester, William C., to Trico Products Corp. Windshield cleaner arrangement. 2,932,842, 4-19-60, Cl. 15-250.21.
- Riester, William C., to Trico Products Corp. Piston ring. 2,936,203, 5-10-60, Cl. 309-23.
- Riester, William C., and M. Bitzer, to Trico Products Corp. Windshield cleaning system. 2,935,759, 5-10-60, Cl. 15-250.02.
- Riesz, Charles H., and E. J. Schwoegler, to United States Steel Corp. Method of making naphthalene and lower-boiling compounds from creosote oil. 2,920,116, 1-5-60, Cl. 260-668.
- Riesz, Charles H.: See—  
Sandberg, William A., Erikson, and Riesz. 2,925,368.
- Riesz, Kolman, W. E. Rich, and J. Steckowich, Jr., to Westinghouse Electric Corp. Electrical instrument mounting. 2,942,156, 6-21-60, Cl. 317-99.
- Riesz, Richard P., to Bell Telephone Laboratories, Inc. High speed rectifier. 2,959,505, 11-8-60, Cl. 148-33.
- Rieter, Joh. Jacob, & Co. Ltd.: See—  
Graf, Max. 2,931,073.
- Gründler, Christof. 2,966,025.
- Hess, Heinrich O. 2,929,113.
- Huber, Rudolf, Wildbolz, and Just. 2,942,304.
- Naegeli, Werner. 2,935,767.
- Naegeli, Werner. 2,964,806.
- Naegeli, Werner, and Schwengeler. 2,958,102.
- Schiltknecht, Adolf. 2,938,242.
- Schiltknecht, Adolf. 2,941,262.
- Schiltknecht, Adolf. 2,953,822.
- Schiltknecht, Adolf, and Cousin. 2,942,307.
- Rietsch, Eberhard, to Theodor Wuppermann, G.m.b.H. Process and device for induction heating of the end faces of workpieces to be welded together. 2,928,923, 3-15-60, Cl. 219-9.5.
- Rietz, Albert C. Miniature structural components. 2,931,130, 4-5-60, Cl. 46-19.
- Rietz, Carl A., to Rietz Mfg. Co. Disintegrating apparatus. 2,951,649, 9-6-60, Cl. 241-185.
- Rietz Mfg. Co.: See—  
Rietz, Carl A. 2,951,649.
- Rietzel, Heinz H. W.: See—  
Seidel, Robert H., Rietzel, and Fiedler. 2,960,340.
- Rife, Howard M., and A. H. Walker, to Union Carbide Corp. Stabilization of vinyl alkyl ether resins. 2,922,778, 1-26-60, Cl. 260-45.95.
- Rifken, Louis L. Coupling means for building scaffolds, racks, frameworks, and the like. 2,942,899, 6-28-60, Cl. 287-54.
- Rifkin, Maurice, and H. Moreines, to The Bendix Corp. Instrument control system for aircraft. 2,959,380, 11-8-60, Cl. 244-77.
- Rifkin, Morton S., to R. B. Leonard, Inc. Combination pivot pin and bushing device. 2,921,819, 1-19-60, Cl. 308-22.
- Riga, Jean J. L. E.: See—  
Braconier, Frederic F. A., and Riga. 2,966,392.
- Rigaud, Maurice, to Societe des Agrafes Francaises & d'Articles Metalliques (Societe Anonyme). Locking device. 2,943,878, 7-5-60, Cl. 292-44.
- Rigby, Hugh J. M., to Executors of James Mills, Ltd. Rail fastening. 2,954,169, 9-27-60, Cl. 238-349.
- Rigby, Ivor V., to International Computers and Tabulators Ltd. Combinations of statistical machines. 2,948,468, 8-9-60, Cl. 235-61.7.
- Rigby, Sherman: See—  
Young, Frink M., Gordon, and Rigby. 2,961,611.
- Rigel, Lester A., to Eldema Corp. Illuminated switch. 2,957,072, 10-18-60, Cl. 240-2.
- Rigelsford, Reginald T.: See—  
Hore, Geoffrey D., and Rigelsford. 2,956,825.
- Riggio, Frank L., to Cramer Controls Corp. Automatic reset mechanism for timing devices and the like. 2,951,372, 9-6-60, Cl. 74-1.
- Riggio, Frank L., and A. B. Stempel, to Cramer Controls Corp. Staking apparatus. 2,941,428, 6-21-60, Cl. 78-42.
- Riggle, Marlan S., to Structo Mfg. Co. Telegraphy educational device. 2,954,437, 9-27-60, Cl. 178-115.
- Riggs, Clarence G. Frame for swimming pool cover. 2,964,759, 12-20-60, Cl. 4-172.
- Riggs, George: See—  
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- Riggs, James A., to The Bendix Corp. Brake shoe construction. 2,959,254, 11-8-60, Cl. 188-251.
- Riggs, John H., to The Rudolph Wurlitzer Co. Selector device for automatic phonographs. 2,949,309, 8-16-60, Cl. 274-10.
- Riggs, Mart B., to The Goodyear Tire & Rubber Co. Apparatus for mounting and inflating tubeless tires. 2,936,827, 5-17-60, Cl. 157-1.1.
- Righton, David W.: See—  
Meredith, Frederick W., and Righton. 2,960,283.
- Rigler, Neil E.: See—  
Feldman, Louis I., Rigler, and Shay. 2,962,423.
- Rigney, Richard N., to Task Corp. Frictionless pivot. 2,937,053, 5-17-60, Cl. 308-2.
- Rigney, Winston T.: See—  
Chapman, Harvey W., Dunlap, and Rigney. 2,956,517.
- Rigolini, Vinnie J., to Whitehouse Products, Inc. Apparatus for shaping and affixing pliable material to a support. 2,924,155, 2-9-60, Cl. 93-1.
- Rigot, Robert M., to Russell, Burdall & Ward Bolt and Nut Co. Threaded fastener with biting teeth and bearing platform. 2,959,204, 11-8-60, Cl. 151-37.
- Rigrod, William W., to Bell Telephone Laboratories, Inc. Beam focusing system. 2,944,182, 7-5-60, Cl. 315-3.5.
- Rigterink, Raymond H., to The Dow Chemical Co. 4-chloro- $\alpha$ -dimethylamino-6-phenyl-o-cresol. 2,926,193, 2-23-60, Cl. 260-570.9.
- Riker, Charles O., to Stapling Machines Co. Control mechanism for box-making machines. 2,924,825, 2-16-60, Cl. 1-147.
- Riker, Fredrick J. Electrode regulated steam generator. 2,961,525, 11-22-60, Cl. 219-38.
- Riker Laboratories, Inc.: See—  
Kusserow, Gerhard W., and Draper. 2,956,081.
- Riker, Ralph W., A. M. Brayton, and W. C. Wright, to Sanitary Disposal Corp. Composting apparatus. 2,929,688, 3-22-60, Cl. 23-259.1.
- Riker, Rubim B. Acrobatic kite. 2,931,600, 4-5-60, Cl. 244-153.
- Riley, Catherine L.: See—  
Riley, Edward T., and C. L. 2,964,980.
- Riley, Daniel F., S. Goldberg, and K. J. Germeshausen, to Edgerton, Germeshausen and Grier, Inc. Electric-discharge device. 2,948,825, 8-9-60, Cl. 313-193.
- Riley, David W., and R. Y. Mixer, to Union Carbide Corp. Preparation of bis(heptahydrocarbonylcyclohexyl)siloxanyl oxides. 2,954,391, 9-27-60, Cl. 260-448.2.
- Riley, Edward T., and C. L. Wrench for tightening jamb nuts in junction boxes. 2,964,980, 12-20-60, Cl. 81-90.
- Riley, Harry L., J. Norris, and R. G. Coates, to United Coke and Chemicals Co. Ltd. Heat-exchange apparatus. 2,955,807, 10-11-60, Cl. 257-300.
- Riley, James H.: See—  
Jensen, Raymond W., and Riley. 2,938,533.
- Riley, Joseph F., to P. R. Mallory & Co., Inc. Method of assembling and encapsulating a plurality of electrical condensers. 2,941,258, 6-21-60, Cl. 18-59.
- Riley, Oscar L. Twist drill. 2,936,658, 5-17-60, Cl. 77-70.
- Riley, Patrick J. H.: See—  
Duffield, Francis W. N., Riley, and Bowater. 2,923,359.
- Riley, Richard L., to Chempel Inc. Corrosion resistant aerosol package containing hydrolyzable material. 2,964,165, 12-13-60, Cl. 206-6.
- Riley, Robert H., Jr., to The Black and Decker Mfg. Co. Depth gauge for power-operated screw-driver, nut-runner, and the like. 2,940,488, 6-14-60, Cl. 144-32.
- Riley, Robert H., Jr., and H. O. Short, to The Black and Decker Mfg. Co. Two-speed transmission for portable power-operated tool. 2,942,490, 6-28-60, Cl. 74-370.
- Riley, Robert W.: See—  
Erickson, Harold E., Riley, and Schubert. 2,923,968.
- Erickson, Harold E., Riley, and Schubert. 2,923,974.
- Erickson, Harold E., Riley, and Schubert. 2,943,365.
- Riley, Roy J. Window sash snubber. 2,922,673, 1-26-60, Cl. 292-242.
- Riley, Roy J. Hinged window assembly. 2,938,246, 5-31-60, Cl. 20-42.
- Riley Stoker Corp.: See—  
Blodgett, Norman S. 2,962,006.
- Miller, Earle C. 2,947,289.
- Miller, Earle C. 2,949,099.
- Miller, Earle C., Stone, and Hansen. 2,925,055.
- Terpe, Gunter R. 2,925,069.
- Riley, William A., and L. R. Herring, to United States of America, Navy. Power transmission apparatus for torpedoes. 2,938,485, 5-31-60, Cl. 114-20.1.
- Rill, John C., Jr., to General Motors Corp. Refrigerating apparatus. 2,958,210, 11-1-60, Cl. 62-264.
- Rill, John C., Jr., and K. K. Kesling, to General Motors Corp. Refrigerator cabinet. 2,962,183, 11-29-60, Cl. 220-9.
- Rilling Dermetics Co.: See—  
Strain, Robert J., and Tranner. 2,930,384.
- Rilinger, Alfons: See—  
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- Rilling, Hugh P., E. J. Grisct, Jr., R. T. Lynch, and C. F. Nichols, to American Enka Corp. Continuous spinning system. 2,964,787, 12-20-60, Cl. 18-8.
- Rimbach, Henry W., to Westinghouse Electric Corp. Magnesium-calcium fluorophosphate. 2,921,912, 1-19-60, Cl. 252-301.4.



- Rimbach, Henry W., to Westinghouse Electric Corp. Fluorescent lamp and method. 2,963,610, 12-6-60, Cl. 313-109.
- Rimer, Ralph R.: *See*—  
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- Rimkus, Bernard E.: *See*—  
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- Rimmer, James G. Portable grinding mill. 2,959,363, 11-8-60, Cl. 241-81.
- Rimoldi, Horacio J. A.: *See*—  
Molner, Stanley, John, and Rimoldi. 2,928,189.
- Rimsha, Victor E.: *See*—  
Kozel, James A., Rimsha, and Powell. 2,939,927.
- Rimshaw, Stanley J., to United States of America, Atomic Energy Commission. Method for the recovery of cesium values. 2,925,323, 2-16-60, Cl. 23-25.
- Rimsky, Alexandre: *See*—  
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- Rinaldi, Nicholas, to Scovill Mfg. Co. Curtain rod supporting bracket. 2,964,280, 12-13-60, Cl. 248-265.
- Rinaldo, Carl W., and D. G. Smith, to Moffats Ltd. Mechanism for adjusting the height of racks in range ovens. 2,919,691, 1-5-60, Cl. 126-337.
- Rinaldi, August. Instrument for applying contact lenses. 2,919,696, 1-5-60, Cl. 128-303.
- Rind, Harold, to Fairchild Engine and Airplane Corp. Air conditioning system. 2,943,459, 7-5-60, Cl. 62-217.
- Rindal, Norman G., to American Can Co. Carton locking means. 2,956,720, 10-18-60, Cl. 229-39.
- Rinder, Robert M., R. M. Walsh, E. P. Hamilton, C. M. Hill, O. J. Cotey, G. B. Greene, and W. B. Bennett, to Marchant Research, Inc. Electronic computer. 2,927,732, 3-8-60, Cl. 235-157.
- Rinderer, Francis J., to American Sterilizer Co. Device for cultivating bacteria. 2,952,588, 9-13-60, Cl. 195-143.
- Rindfleisch, Frank P., to Aeroquip Corp. Safety latch for band clamps. 2,936,503, 5-17-60, Cl. 24-279.
- Rindone, Guy E., to Prismo Safety Corp. Glass compositions. 2,939,797, 6-7-60, Cl. 106-47.
- Rindtorff, Ermbrecht, and K. Schmitt, to Bergwerksgesellschaft Hibernia Aktiengesellschaft. Apparatus for ozonizing oxygen containing gases under pressure. 2,936,279, 5-10-60, Cl. 204-316.
- Rindtorff, Ermbrecht, K. Schmitt, and G. Keller, to Bergwerksgesellschaft Hibernia Aktiengesellschaft. Process for the production of colorless polyolefines by the low pressure process. 2,956,983, 10-18-60, Cl. 260-45.95.
- Rinehardt, Albert J., to Heller Roberts Mfg. Corp. Stapling machine. 2,923,938, 2-9-60, Cl. 1-49.
- Rinehart, John S.: *See*—  
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- Rinehart, Preston L.: *See*—  
Dunn, Allen R., Givens, and Rinehart. 2,923,180.
- Rines, Robert H.: *See*—  
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- Ring, Albert W., to M. I. Glass. Dynamic toy simulating a feeding bird or animal. 2,945,320, 7-19-60, Cl. 46-242.
- Ring, James, and H. J. J. Braddock, to National Research Development Corp. Production of optical filters. 2,936,732, 5-17-60, Cl. 118-9.
- Ring, Robert G., to Chapman Chemical Co. Liquid filling device. 2,930,414, 3-29-60, Cl. 141-116.
- Ring, Roland, to Sperry-Sun Well Surveying Co. Bore hole surveying method and apparatus. 2,943,397, 7-5-60, Cl. 33-205.5.
- Ringelman, John F.: *See*—  
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Lynn, Gordon E., and Ringelman. 2,953,751.
- Ringelman, John F., to United States of America, Navy. Thermocouple magnetic amplifier. 2,944,210, 7-5-60, Cl. 323-89.
- Ringer, Evue J., to Bendix Aviation Corp. Relief valve. 2,935,075, 5-3-60, Cl. 137-43.
- Ringhandt, Horst: *See*—  
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- Ringler, Beat H.: *See*—  
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- Ringle, Henry L.: *See*—  
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- Ringler, William A., to Diamond National Corp. Twin-compartmented article carriers. 2,920,791, 1-12-60, Cl. 220-113.
- Ringler, William A., to Diamond National Corp. Carton. 2,950,043, 8-23-60, Cl. 229-44.
- Ringo, Dan: *See*—  
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Dillman, Edward E., Ringo, and Boston. 2,919,766.
- Ringoen, Richard M.: *See*—  
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- Ringoen, Richard M., to Collins Radio Co. Single sideband diversity system. 2,921,188, 1-12-60, Cl. 250-20.
- Ringold, Howard J.: *See*—  
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- Ringold, Howard J., O. Mancera, G. Rosenkranz, and A. Bowers, to Syntex S.A. 6a-fluoro steroids. 2,934,546, 4-26-60, Cl. 260-397.47.
- Ringold, Howard J., and G. Rosenkranz, to Syntex S.A. 2-aralkyl derivatives of  $\Delta^4$ -pregnene-3,20-dione and process for their production. 2,947,762, 8-2-60, Cl. 260-397.3.
- Ringold, Howard J., and G. Rosenkranz, to Syntex S.A. Preparation of steroidal  $\Delta^{1,4}$ -3-ketone compounds using selenium dioxide. 2,957,895, 10-25-60, Cl. 260-397.45.
- Ringold, Howard J., A. Bowers, O. Mancera, and G. Rosenkranz, to Syntex S.A. 6-fluoro pregnanes and intermediate therefor. 2,951,840, 9-6-60, Cl. 260-239.55.
- Ringold, Howard J., F. Sondheimer, and G. Rosenkranz, to Syntex S.A. 15-hydroxy steroids of the pregnane series and process for the preparation thereof. 2,964,544, 12-13-60, Cl. 260-397.47.
- Ringold, Howard J., and G. Rosenkranz, to Syntex S.A. 4-halo derivatives of 2-hydroxymethylene  $\Delta^4$ -androsten-17 $\beta$ -ol-3-one and the corresponding 19-nor compounds. 2,966,501, 12-27-60, Cl. 260-397.4.
- Ringold, Howard J., J. Iriarte, and G. Rosenkranz, to Syntex S.A. 6,7-dihydroxy estradiol and intermediates thereof. 2,921,064, 1-12-60, Cl. 260-239.55.
- Ringrose, Henry T. Apparatus for detecting and indicating the presence and amounts of CO<sub>2</sub> in an atmosphere. 2,940,834, 6-14-60, Cl. 23-254.
- Ringwald, Eugene L., to The Chemstrand Corp. Purification of aliphatic nitriles. 2,920,099, 1-5-60, Cl. 260-465.8.
- Ringwald, Eugene L., to The Chemstrand Corp. Manufacture of bis ( $\delta$ -hydroxyethyl) terephthalate with ethylene oxide. 2,932,662, 4-12-60, Cl. 260-475.
- Ringwood, Alfred E.: *See*—  
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- Ringwood, Arthur F.: *See*—  
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- Rinia, Herre, to North American Philips Co., Inc. Combination heating and cooling system. 2,955,433, 10-11-60, Cl. 62-6.
- Rink, Robert J., to Nordberg Mfg. Co. Warning signal for mill bearing lubricating system. 2,937,056, 5-17-60, Cl. 308-122.
- Rinkema, David, to Allis-Chalmers Mfg. Co. Power take-off mechanism. 2,932,202, 4-12-60, Cl. 74-15.86.
- Rinker, Wilhelm, to Ernst Leitz, G.m.b.H. Instrument for statistical measurements. 2,960,775, 11-22-60, Cl. 33-172.
- Rinkewich, Isaac R., to Melnor Industries, Inc. Gun type garden hose nozzle. 2,937,813, 5-24-60, Cl. 239-459.
- Rinn, Irwin C. Mounts for transparencies, and the like. 2,926,443, 3-1-60, Cl. 40-158.
- Rinse, Jacobus, to J. W. Ayers & Co. Oxo-aluminum acylates, alkoxides and phenoxides. 2,948,743, 8-9-60, Cl. 260-414.
- Rinshed-Mason Co.: *See*—  
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- Rintoul, Harry A., and C. J. Cerulli, to Sperry Rand Corp. Pressure-responsive altitude control device. 2,944,432, 7-12-60, Cl. 74-96.
- Riordan, Howard C. Magnetic detachable holding device. 2,943,246, 6-28-60, Cl. 317-159.
- Riordan, Hugh E.: *See*—  
Ganther, Robert J., Peterssen, and Riordan. 2,960,871.
- Riordan, Michael D., N. D. Carter, and L. B. Bos, to Texaco Inc. Process for producing platinum-alumina catalyst. 2,932,660, 4-12-60, Cl. 252-442.
- Riordan, Michael D., M. F. Fontaine, and J. Ryer, to Texaco Inc. Treatment of synthetic naphtha. 2,948,745, 8-9-60, Cl. 260-450.
- Rios, Carlos B., to Gulf Oil Corp. Removal of phenolic compounds from aqueous solutions. 2,937,142, 5-17-60, Cl. 210-40.
- Ripin, Benet, to Johnson & Johnson. Container and closure therefor. 2,941,562, 6-21-60, Cl. 150-5.
- Ripley, Duane L., to Edwin L. Wiegand Co. Electric heating element and support. 2,922,017, 1-19-60, Cl. 219-35.
- Ripley, Duane L.: *See*—  
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- Ripley, Duane L., to Edwin L. Wiegand Co. Electric heating apparatus. 2,924,693, 2-9-60, Cl. 219-19.
- Ripley, Glenn Q., Jr. Aerating shower head. 2,950,063, 8-23-60, Cl. 239-431.
- Ripley, Walt L., to P. C. Lyons. Utility trailer. 2,932,418, 4-12-60, Cl. 214-505.
- Rippe, Dondeville M., to Dondeville Products Co., Inc. Manufacture of shingles. 2,957,438, 10-25-60, Cl. 113-1.
- Ripper, Walter E. Aerial spraying of land or crops. 2,941,753, 6-21-60, Cl. 244-77.
- Rippere, Robert O.: *See*—  
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- Ripple, Charles W., to Ashland Oil & Refining Co. Desulfurization of petroleum hydrocarbons with aqueous caustic soda and formaldehyde. 2,952,627, 9-13-60, Cl. 208-231.
- Rippingille, Edward V., to General Motors Corp. Fluid flow control means. 2,922,437, 1-26-60, Cl. 137-525.1.
- Ripple Sole Corp.: *See*—  
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Hack, Leonard. 2,941,317.  
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Hack, Nathan, M. and L. 2,930,149.
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- Riscol, Joseph G. Electromagnetic pickup assembly for stringed instruments. 2,933,967, 4-26-60, Cl. 84-1.16.
- Risdon Mfg. Co., The: *See*—  
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Beard, Walter C., Jr. 2,959,325.
- Riser, Clarence B., to Lawrence Brothers, Inc. Sliding door hanger. 2,940,112, 6-14-60, Cl. 16-105.
- Riser, Clarence B., to Lawrence Brothers, Inc. Sliding door hanger. 2,940,113, 6-14-60, Cl. 16-105.



- Rishell, George L., to Sylvania Electric Products Inc. Temperature compensating grid. 2,954,497, 9-27-60, Cl. 313-350.
- Rising, Henry C., and J. Sheriff. Apparatus for freezing ice blocks. 2,942,430, 6-28-60, Cl. 62-66.
- Risk, George. Lead through antenna mast body construction. 2,921,307, 1-12-60, Cl. 343-705.
- Risk, Norman E., and J. L. Holden, to Caterpillar Tractor Co. Torsion bar cushioning means for tractor equalizer bar. 2,948,347, 8-9-60, Cl. 180-9.5.
- Risler, Robert. Drill. 2,964,873, 12-20-60, Cl. 46-22.
- Risley, Roger E., and F. T. Newell, to Dresser Industries, Inc. Underwater coupling and method. 2,922,664, 1-26-60, Cl. 285-96.
- Riss, Hans, and M. Hebel, to Firma Triumph Werke A.G., and Firma Eldi-Feinmec G.m.b.H. Operating arrangement for business machines. 2,953,297, 9-20-60, Cl. 235-59.
- Risse, Ralph F., to Goodman Mfg. Co. Rope sideframe conveyor supporting stand. 2,921,668, 1-19-60, Cl. 198-184.
- Rissi, Erwin: See—
- Jucker, Ernst, Ebnother, and Rissi. 2,959,593.
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- Rist, Michel: See—
- Maurice, Jean, and Rist. 2,920,726.
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- Maurice, Jean, and Rist. 2,964,956.
- Rister, Donald R.: See—
- Hillman, Jerry L., and Rister. 2,966,668.
- Ristine, Robert H., Jr., to United States of America, Army. Primer feed mechanism. 2,953,058, 9-20-60, Cl. 86-45.
- Ritch, Harold B., to The Dow Chemical Co. Sand packing a formation. 2,952,318, 9-13-60, Cl. 166-15.
- Ritchey, Neil F., to Knapp Mills Inc. Shielded container. 2,943,203, 6-28-60, Cl. 250-108.
- Ritchey, Orral W., to Boeing Airplane Co. Digital to analogue servosystem. 2,943,248, 6-28-60, Cl. 313-23.
- Ritchie, Frederick W. Reel mount and adapter for spinning rods. 2,926,450, 3-1-60, Cl. 43-22.
- Ritchie, John B. Apparatus for use in teaching an aspiring swimmer to float in water. 2,953,373, 9-20-60, Cl. 272-1.
- Ritchie, Laurence F. Cigarette lighter. 2,933,911, 4-26-60, Cl. 67-7.1.
- Ritchie, W. C., & Co.: See—
- McBain, John K. 2,943,540.
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- Reenstra, Willard A., and Ritchie. 2,946,043.
- Ritetherm, Inc.: See—
- La Bate, Micheal D. 2,927,142.
- Ritscher, Arthur, to Kurt Korber & Co., K. G. Device for folding sliding boxes for package receptacles. 2,930,294, 3-29-60, Cl. 93-51.
- Ritscher, Karl. Ditch cleaning machine. 2,950,548, 8-30-60, Cl. 37-67.
- Ritsky, Louis L. Shuttles for narrow fabric looms. 2,923-327, 2-2-60, Cl. 139-201.
- Ritt, Paul E., Jr.: See—
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- Ritt, Paul E., Jr., and J. R. Sayers, Jr., to Melpar, Inc. Method for plating at least two different kinds of metals on printed circuits. 2,959,525, 11-8-60, Cl. 204-15.
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- Schwyzler, Robert, Iselin, and Rittel. 2,938,915.
- Rittenberg, George N. Folding chair. 2,926,724, 3-1-60, Cl. 155-147.
- Rittenhouse, Howard E., to Tokheim Corp. Compact liquid dispenser. 2,958,291, 11-1-60, Cl. 103-42.
- Rittenhouse, Howard E., and S. Hinds, ½ to Tokheim Corp. and ½ to Bowser, Inc. Tank filling apparatus. 2,948,307, 8-9-60, Cl. 141-348.
- Ritter Co., Inc.: See—
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- Ellis, Charles A. 2,924,012.
- Lauterbach, Norman E. 2,941,776.
- Ziegler, Eugene R. 2,949,107.
- Ziegler, Eugene R., Craft, Lauterbach, and Nobes. 2,924,880.
- Ritter, David M., and R. P. Black, to United States of America, Atomic Energy Commission. Concentration of Pu using oxalate type carrier. 2,933,369, 4-19-60, Cl. 23-14.5.
- Ritter, Eduard, and P. von Esch; said von Esch assor. to said Ritter. Didactic apparatus. 2,950,543, 8-30-60, Cl. 35-35.
- Ritter, Emil C., to Loriku, Inc. Tubular knock-down bed frame. 2,931,054, 4-5-60, Cl. 5-202.
- Ritter, Ernest A., to M. G. Mackeurtan. Process for the treatment of cellulosic materials. 2,960,444, 11-15-60, Cl. 195-8.
- Ritter, Hartien S., to Columbia-Southern Chemical Corp. Silica precipitation method. 2,921,839, 1-19-60, Cl. 23-182.
- Ritter, Heinrich. Electric heater for cooking or the like. 2,955,186, 10-4-60, Cl. 219-20.
- Ritter, Kaspar: See—
- Hütter, Wolfgang and Ritter. 2,922,320.
- Hütter, Wolfgang, and Ritter. 2,922,481.
- Ritter, Kaspar, and W. Huettner, to Allgaler-Werke G.m.b.H. Drive arrangement for vehicles such as tractors and the like. 2,945,382, 7-19-60, Cl. 74-15.8.
- Ritter, Ralph K.: See—
- Kelemen, Frank K., and Ritter. 2,945,118.
- Ritter, Robert K. Brush with adjustable head. 2,941,228, 6-21-60, Cl. 15-172.
- Ritter, Roger: See—
- Charlie, Roger, Ritter, and Kalopissis. 2,944,942.
- Ritterskamp, Jack H., and C. A. Weise, to Douglas Aircraft Co., Inc. Missile safety closure. 2,943,445, 7-5-60, Cl. 60-39.9.
- Rittler, Mary C.: See—
- Hardy, Le Grand H., Ferree, and Rittler. 2,937,567.
- Rittmann, Albert D., to Philco Corp. Method of fusing metal body to another body. 2,931,743, 4-5-60, Cl. 148-1.5.
- Rittner, Hans: See—
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- Ritz, Heinrich L., to C. A. Parsons & Co. Ltd. Regenerators. 2,925,254, 2-16-60, Cl. 257-267.
- Ritzerfeld, Gerhard: See—
- Ritzerfeld, Wilhelm and G. 2,919,640.
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- Ritzerfeld, Wilhelm and G. 2,937,593.
- Ritzerfeld, Wilhelm and G. 2,953,087.
- Ritzerfeld, Wilhelm and G. 2,958,274.
- Ritzerfeld, Wilhelm and G. Printing device and flat stackable elements. 2,919,640, 1-5-60, Cl. 101-53.
- Ritzerfeld, Wilhelm and G. Apparatus for selective printing. 2,931,294, 4-5-60, Cl. 101-137.5.
- Ritzerfeld, Wilhelm and G. Printing foil attaching arrangement. 2,937,593, 5-24-60, Cl. 101-415.1.
- Ritzerfeld, Wilhelm and G. Apparatus for automatic selective reproduction of printing forms. 2,953,087, 9-20-60, Cl. 101-132.5.
- Ritzerfeld, Wilhelm, and G. Apparatus for lithographic duplication of printing forms. 2,958,274, 11-1-60, Cl. 101-145.
- Ritzl, Emil, to Lear, Inc. Miniature gas turbine. 2,945,349, 7-19-60, Cl. 60-39.36.
- Riuli, Arduino: See—
- Bowman, Robert W., Riuli, and Schrank. 2,926,731.
- Riv Officine di Villar Perosa Società per Azioni: See—
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- Rivas, Luis A.: See—
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- Rivas, Luis A. F., to Radio Corp of America. Data selection device. 2,926,337, 2-23-60, Cl. 340-174.
- Rivello, Robert M.: See—
- Fox, David W., and Rivello. 2,922,291.
- Rively, Clair M., to Westinghouse Electric Corp. Control apparatus. 2,927,679, 3-8-60, Cl. 198-40.
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- Berger, Sol J., and Rivenburgh. 2,922,552.
- Rivenes, Arnold S., to Boeing Airplane Co. Molding apparatus. 2,955,323, 10-11-60, Cl. 18-42.
- River Raisin Paper Co.: See—
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- Rivers, Charles F., to Industrial Metal Fabricators Co. Endless conveyor with articulating sidewalls. 2,950,000, 8-23-60, Cl. 198-196.
- Rivers, George D., to Royal McBee Corp. Printed circuit relays. 2,927,985, 3-8-60, Cl. 200-104.
- Riverside Mfg. Co., Inc.: See—
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- Gruendling, Charles M. 2,927,361.
- Riviere, André. Construction for sea-shore protection against erosion. 2,931,183, 4-5-60, Cl. 61-3.
- Rivinius, Theodore. Crawler type control system. 2,964,911, 12-20-60, Cl. 60-97.
- Rix, Albert, and M. Sauer, to Olympia Werke AG. Control mechanism for the motor of an electric typewriter. 2,919,781, 1-5-60, Cl. 197-17.
- Rixson, Oscar, Co. The: See—
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- Tylman, Florian J. 2,955,314.
- Rizzo, Giuseppe: See—
- Lo Celso, Antonio, and Rizzo. 2,922,077.
- Rizzo, Rosario J. Clamp of the resilient-strap, feed-screw type. 2,940,150, 6-14-60, Cl. 24-274.
- Rizuto, Angelo A. Foldable safety structure. 2,921,644, 1-19-60, Cl. 182-106.
- Rizuto, Angelo A. Collapsible shelf structure. 2,946,459, 7-26-60, Cl. 211-93.
- Rizuto, Angelo A. Retractable caster structure. 2,950-498, 8-30-60, Cl. 16-33.
- Rizuto, Angelo A. Stepladder safety support. 2,957,542, 10-25-60, Cl. 182-129.
- Rizuto, Angelo A. Hinged butt joint. 2,965,399, 12-20-60, Cl. 287-99.
- Roach, Erskine E., to Harold Brown Co. Magnetic check valve. 2,939,475, 6-7-60, Cl. 137-155.
- Roach, Gay W., and J. M. Clark. Cotton weighing machine. 2,939,569, 6-7-60, Cl. 198-37.
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- Koplin, Hans O., Pietsch, Roach, and Stewart. 2,926,948.
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- Vogel, Henry A., and Roach. 2,948,702.



- Roake, William E., to United States of America, Atomic Energy Commission. Sintering metal oxides. 2,952,535, 9-13-60, Cl. 75—206.
- Roake, William E., and W. L. Lyon, to United States of America, Atomic Energy Commission. Regeneration of reactor fuel elements. 2,930,738, 3-29-60, Cl. 204—1.5.
- Roake, William E., E. A. Evans, and D. W. Brite, to United States of America, Atomic Energy Commission. Fuel element for nuclear reactor. 2,941,933, 6-21-60, Cl. 204—154.2.
- Roano, Ada: *See*—
- Roano, Alessandro. 2,923,167.
- Roano, Alessandro, deceased; by F., A., G., G., and R. Roano, heirs, to Phillac S.A. Reversible gears. 2,923,167, 2-2-60, Cl. 74—466.
- Roano, Francesco: *See*—
- Roano, Alessandro. 2,923,167.
- Roano, Gina: *See*—
- Roano, Alessandro. 2,923,167.
- Roano, Guglielmo: *See*—
- Roano, Alessandro. 2,923,167.
- Roano, Roberto: *See*—
- Roano, Alessandro. 2,923,167.
- Roanwell Corp.: *See*—
- Cagen, George. 2,924,672.
- Roback, Kenneth J., to Motorola, Inc. Pushbutton structure. 2,930,241, 3-29-60, Cl. 74—10.33.
- Robb, Alexander L.: *See*—
- Elam, Daniel W., Morrill, Robb, and McAdam, 2,954,144.
- Robb, Edward J.: *See*—
- Houle, Robert E., Menzel, and Robb. 2,930,545.
- Robb, Frank B. Aerator. 2,940,675, 6-14-60, Cl. 239—431.
- Robb, Lester E., to Minnesota Mining and Mfg. Co. Calendaring of copolymers of trifluorochloroethylene and vinylidene. 2,938,236, 5-31-60, Cl. 18—55.
- Robb, Lester E., and D. R. Wolf, to Minnesota Mining and Mfg. Co. Composition comprising trifluorochloroethylene copolymer and silica and process for molding same. 2,954,359, 9-27-60, Cl. 260—41.
- Robb, Walter L.: *See*—
- Davidson, John K., Robb, and Salmon. 2,961,390.
- Robbatt, Edward. Process for treating wool and other fibrous materials to impart water repellency and resistance to shrinkage. 2,961,338, 11-22-60, Cl. 117—55.
- Robbers, James A.: *See*—
- Adams, Robert T., Ellis, and Robbers. 2,957,921.
- Robbins, Albert A., and C. A. Linn, to Kwik-Kold of America, Inc. Refrigerating package. 2,925,719, 2-23-60, Cl. 62—4.
- Robbins, Azor D., to The W. L. Maxson Corp. Optical sights having horizon indicating means. 2,953,960, 9-27-60, Cl. 88—1.
- Robbins, Clyde F.: *See*—
- Nolden, William F., and Robbins. 2,930,859.
- Robbins, Clyde F., to Cutler-Hammer, Inc. Motor control system. 2,953,731, 9-20-60, Cl. 318—203.
- Robbins, Daniel: *See*—
- Lentz, John J., Palmer, and Robbins. 2,947,478.
- Robbins, Daniel H.: *See*—
- Corrado, Victor M., and Robbins. 2,923,215.
- Hadley, William A., and Robbins. 2,943,203.
- Robbins, Edward S., to Robbins Tire and Rubber Co. Inc. Expandable tire chuck. 2,924,255, 2-9-60, Cl. 144—288.
- Robbins, Elmer A., to Tokheim Corp. Register resetting mechanism. 2,930,528, 3-29-60, Cl. 235—144.
- Robbins, Eric J., and J. A. McKnight, to United Kingdom Atomic Energy Authority. Ion sources for mass spectrometers. 2,958,775, 11-1-60, Cl. 250—41.9.
- Robbins, Frederick P. Classifying device. 2,919,804, 1-5-60, Cl. 209—418.
- Robbins, Howard M., and H. R. Kaiser, to Hughes Aircraft Co. Diodeless magnetic shifting register. 2,958,852, 11-1-60, Cl. 340—174.
- Robbins, James D., and R. A. Curtis, 25% to J. De Young, 43.4% to said Robbins, and 31.6% to said Curtis. Combination laundry and dry cleaner apparatus. 2,932,961, 4-19-60, Cl. 68—4.
- Robbins, James S., to Goodman Mfg. Co. Tunnel boring machine having torsion counteracting means. 2,925,258, 2-16-60, Cl. 262—7.
- Robbins, James S. Conveyor. 2,925,903, 2-23-60, Cl. 198—191.
- Robbins, Joseph: *See*—
- Bradshaw, Arthur, Hellyer, Robbins, Smith, and Toon. 2,960,727.
- Robbins, Leo: *See*—
- Phillips, Adrian, and Robbins. 2,943,562.
- Robbins, Leo, to Baldwin-Lima-Hamilton Corp. Speed measuring device. 2,922,108, 1-19-60, Cl. 324—70.
- Robbins, Lysle B.: *See*—
- Gordon, Carroll G., and Robbins. 2,946,543.
- Robbins & Myers, Inc.: *See*—
- Bourke, John D., and Conrad. 2,924,180.
- Gerlitz, Reuben A. 2,924,166.
- Rush, Robert M. 2,944,608.
- Robbins, Roy F., to L. G. Enster, d.b.a. Erneo Enterprises. Trowel and guard therefor. 2,952,028, 9-13-60, Cl. 15—235.4.
- Robbins Tire and Rubber Co., Inc.: *See*—
- Robbins, Edward S. 2,924,255.
- Robbins, Vernon L. Curtain rod bracket support. 2,955,794, 10-11-60, Cl. 248—263.
- Robbins, William K.: *See*—
- Bloomsburg, Harry E., Behymer, and Robbins. 2,946,745.
- Robbins, William P.: *See*—
- Knapp, George P., Robbins, Meyer, and Zwack. 2,957,655.
- Roberson, Cyrus E., to The Noble & Wood Machine Co. Combination Jordan and disc refiner for paper stock. 2,934,278, 4-26-60, Cl. 241—163.
- Roberson, Edwin C., and C. Rounthwaite, to Power Jets (Research and Development) Ltd. Combustion apparatus and ignitor employing vaporized fuel. 2,922,279, 1-26-60, Cl. 60—39.71.
- Roberson, Harvey L., to General Electric Co. Variable angle blade for fluid flow machines. 2,928,653, 3-15-60, Cl. 253—77.
- Roberson, William H., to Hercules Powder Co. Laminated paperboard products and method of making same. 2,959,512, 11-8-60, Cl. 154—138.
- Robert, Georges C. H., to Anciens Etablissements E. Robert, Fred Vauthier & Cie, Successeurs (Societe Anonyme). Atomisers. 2,924,393, 2-9-60, Cl. 239—327.
- Robert, Henri: *See*—
- Ditisheim, Robert, and Robert. 2,929,197.
- Robert Hosiery Mills, Inc.: *See*—
- Servin, Robert S. 2,934,839.
- Robert, Jacques G.: *See*—
- Jacob, Robert M., and Robert. 2,941,999.
- Robert, Jean A.: *See*—
- Gailliot, Paul, and Robert. 2,945,026.
- Robert, John: *See*—
- Beckman, George, and Robert. Re. 24,828.
- Robert, Roger A., and P. P. Matge. System for releasing objects suspended from aircraft. 2,936,676, 5-17-60, Cl. 89—1.5.
- Roberto, Joseph E. Inside mold part for cast concrete. 2,926,413, 3-1-60, Cl. 25—118.
- Robertson, Frederic A., to Robertson Mfg. Co. Wheel adjustment for mowers. 2,961,251, 11-22-60, Cl. 280—43.21.
- Robertson Mfg. Co.: *See*—
- Robertson, Frederic A. 2,961,251.
- Roberts, Alan P., to Jersey Production Research Co. Pressure-proportioning device. 2,959,225, 11-8-60, Cl. 166—147.
- Roberts, Albert. Functional potentiometer. 2,936,436, 5-10-60, Cl. 338—141.
- Roberts, Alfred J. Artist's brush cleaning device. 2,963,727, 12-13-60, Cl. 15—121.2.
- Roberts, Arthur L., C. T. Cowan, and D. White, to The Gas Council. Selective sorption of organic vapors. 2,965,687, 12-20-60, Cl. 260—674.
- Roberts, Benjamin K.: *See*—
- Nelson, Marcus, and Roberts. 2,952,141.
- Roberts, Benjamin K., deceased; E. G. Roberts, administrator, to King-Seely Corp. Inverted mold apparatus for producing ice cubes. 2,949,019, 8-16-60, Cl. 62—347.
- Roberts, Billy W.: *See*—
- King, William D., and Roberts. 2,965,821.
- Roberts Brass Mfg. Co., The: *See*—
- Wiggs, Lawrence A. 2,930,245.
- Roberts, Carleton W., to The Dow Chemical Co. Hexahalo-cyclopentadiene-divinylbenzene adducts and method of making. 2,952,711, 9-13-60, Cl. 260—649.
- Roberts, Carleton W., and D. H. Haigh, to The Dow Chemical Co. Adducts of hexachlorocyclopentadiene and monovinyl aromatic compounds. 2,952,712, 9-13-60, Cl. 260—650.
- Roberts, Dale E. Tooth brush and dentifrice kit. 2,951,489, 9-6-60, Cl. 132—84.
- Roberts, David M.: *See*—
- Fulcher, Charles A., Heuser, Roberts, Rynearson, and Waldhauer. 2,954,691.
- Roberts, Denis M., to Transair Ltd. Retractable landing wheel mechanism for aircraft. 2,941,756, 6-21-60, Cl. 244—102.
- Roberts, Derek A.: *See*—
- Hart, Raymond, and Roberts. 2,932,442.
- Roberts, Donald R., to Personal Products Corp. Catamenial appliance. 2,928,394, 3-15-60, Cl. 128—289.
- Roberts, Earl W., Jr. Ventilated conduit riser cap. 2,938,941, 5-31-60, Cl. 174—82.
- Roberts, Edward S., to Carbogen Corp. Manufacture of alkali carbamates. 2,932,664, 4-12-60, Cl. 260—534.
- Roberts, Edward S., and M. J. Kalous. Process and apparatus for the manufacture of nitric acid at elevated pressures with full power recovery. 2,955,917, 10-11-60, Cl. 23—162.
- Roberts Electronics, Inc.: *See*—
- Akal, Saburo. 2,958,736.
- Roberts, Esther G.: *See*—
- Roberts, Benjamin K. 2,949,019.
- Roberts, Francis F. W.: *See*—
- Young, John Z., Roberts, and Causley. 2,927,219.
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- Nolan, Edward J., Pflug, and Roberts. 2,924,418.
- Roberts, Frank K.: *See*—
- Kraft, Frederic B., and Roberts. 2,959,279.
- Kraft, Frederic B., Roberts, and Lorenz. 2,966,258.
- Roberts, Franklin B.: *See*—
- Luczek, Walter, and Roberts. 2,952,957.
- Roberts, Fred T.: *See*—
- Hykes, Paul G., Roberts, and Bradley. 2,948,568.
- Roberts, Frederick D. Vehicle skid brakes. 2,960,191, 11-15-60, Cl. 188—4.



- Roberts, George A. : *See*—  
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- Roberts, George G. Pilot's ladder and the like. 2,943,696, 7-5-60, Cl. 182-196.
- Roberts, George I., to Bendix Aviation Corp. Coil forming device. 2,923,484, 2-2-60, Cl. 242-1.1.
- Roberts, George I., to Bendix Aviation Corp. Stator coil winding device. 2,936,961, 5-17-60, Cl. 242-1.1.
- Roberts, Godfrey B. : *See*—  
Clews, Kenneth J., and Roberts. 2,923,809.
- Roberts, Robert V., Jr., and N. G. Guilbault, to Trico Products Corp. Windshield wiper. 2,953,804, 9-27-60, Cl. 15-250.42.
- Roberts, Hugh E. Bean vine cutter. 2,954,085, 9-27-60, Cl. 172-44.
- Roberts, J. W., Ltd. : *See*—  
Pennington, John D. 2,964,244.
- Roberts, Jack M. : *See*—  
Kolbe, Adelbert E., and Roberts. 2,930,367.
- Roberts, James A., and H. R. Fischer, to Chicago Pneumatic Tool Co. Dimpling machine. 2,966,195, 12-27-60, Cl. 153-21.
- Roberts, James G., to General Motors Corp. Shot peen inspection technique. 2,958,925, 11-8-60, Cl. 29-90.
- Roberts, James R., and E. H. Collins, to Weyerhaeuser Co. Method of preventing excessive spring-back of dry felted fiber mats. 2,925,360, 2-16-60, Cl. 154-101.
- Roberts, James W. : *See*—  
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- Roberts, Jess M. : *See*—  
Van Wyngarden, Clarence R. 2,943,137.
- Roberts, John A., to General Electric Co. Gas flow calibrator. 2,959,954, 11-15-60, Cl. 73-3.
- Roberts, John D. : *See*—  
Smutny, Edgar J., and Roberts. 2,957,918.
- Roberts, John F. Car top wardrobe carrier. 2,937,774, 5-24-60, Cl. 214-450.
- Roberts, John F. L., H. J. Twitchett, and A. S. Wild, to Imperial Chemical Industries Ltd. Process for manufacture of polyethylene terephthalate in finely divided form. 2,945,840, 7-19-60, Cl. 260-75.
- Roberts, John J. : *See*—  
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- Roberts, John S., C. J. Ott, and T. Gittinger. Lubricator. 2,922,492, 1-26-60, Cl. 184-1.
- Roberts, Lawrence H. : *See*—  
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- Roberts, Lawrence M., and R. E. Willison, to Research-Cottrell, Inc. Electrode structure for electrostatic precipitator. 2,937,711, 5-24-60, Cl. 183-7.
- Roberts, Louis W. : *See*—  
Chun, Herbert H., and Roberts. 2,945,983.
- Roberts Machine Co. Inc. : *See*—  
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- Roberts, Mervyn B. : *See*—  
Baker, Bill P. 2,939,158.
- Roberts Mfg. Co. : *See*—  
Hill, Harvey J. 2,928,115.
- Roberts, Ray H., and B. E. Struckmeyer. Process for extraction of oil soluble growth substances and hormones from flowering plants and resulting compositions. 2,937,206, 5-17-60, Cl. 260-594.
- Roberts, Reginald F., Jr., to Kaiser Aluminum & Chemical Corp. Process of precipitating alumina hydrate from a pregnant caustic aluminate liquor. 2,935,376, 5-3-60, Cl. 23-143.
- Roberts, Richard M. : *See*—  
Youngman, Edward A., and Roberts. 2,947,602.
- Roberts, Robert E. Method and apparatus for making flexible corrugated reinforced hose. 2,936,812, 5-17-60, Cl. 154-7.
- Roberts, Roland R., to Farrel-Birmingham Co., Inc. Planer feed mechanism. 2,923,210, 2-2-60, Cl. 90-49.
- Roberts, Russell M. : *See*—  
Walter, John M., and Roberts. 2,925,016.
- Roberts, Shepard, to General Electric Co. Color cathode ray image display system. 2,943,232, 6-28-60, Cl. 315-13.
- Roberts, Sidney, to Micromatic Machine Corp. Drill jigs. 2,928,298, 3-15-60, Cl. 77-62.
- Roberts, Stiles M. : *See*—  
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- Roberts, Webster C. : *See*—  
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- Roberts, William H. : *See*—  
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- Roberts, William L., to United States Steel Corp. Apparatus for measuring the speed of traveling strip. 2,941,145, 6-14-60, Cl. 324-70.
- Robertshaw-Fulton Controls Co. : *See*—  
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- Coles, Ralph V. 2,955,466.
- Elderton, Robert W., and Wodtke. 2,921,159.
- Garnett, Lawrence T. 2,964,051.
- Genbauffe, Francis S. 2,958,467.
- Hardway, Edward V., Jr. 2,942,456.
- Hardway, Edward V., Jr. 2,966,617.
- Houser, Roy W. 2,922,858.
- Houser, Roy W. 2,945,928.
- Jackson, Wilbur F. 2,943,132.
- Jackson, Wilbur F. 2,954,696.
- Jackson, Wilbur F., and Dykzeul. 2,953,937.
- Jones, Leon, and Lawrence. 2,923,567.
- Lawhon, Charles D. 2,922,700.
- Maltby, Frederick L., Cozzette, and Philippi. 2,933,657.
- Robertshaw-Fulton Controls Co. : *See*—Continued  
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- Morris, Harry, Jr. 2,958,238.
- Mylander, Gerald D. 2,934,085.
- Nye, Dudley D., and Paradise. 2,946,943.
- Nye, Dudley D., and Ross. 2,932,777.
- Perkins, Charles H. 2,950,733.
- Rhodes, William E. 2,927,171.
- Roper, Charles G., and Gilchrist. 2,949,273.
- Roper, Charles G., Gilchrist, and Finck. 2,957,627.
- Roper, Charles G., and Lockery. 2,952,501.
- Ross, Edward J., and Branson. 2,963,566.
- Schatzman, George S., and Purdy. 2,938,540.
- Strobel, Charles K., and Conner. 2,959,651.
- Strobel, Charles K., McMichael, and Kimmell. 2,943,488.
- Tyler, Hugh J. 2,929,891.
- Tyler, Hugh J. 2,943,247.
- Wagner, Joseph P. 2,919,860.
- Wantz, Clarence, and Durst. 2,961,876.
- Wantz, Clarence, and Garner. 2,943,177.
- Wernlund, Roger F. 2,939,122.
- Robertshaw, Robert G., and W. E. Willshaw, to The M-O Valve Co. Ltd. Travelling wave magnetrons. 2,933,643, 4-19-60, Cl. 315-39.3.
- Robertson, Arthur C. : *See*—  
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- Robertson, Arthur C., J. Stuart, III and R. A. Wagner, to Hiller Helicopters. Vertical take-off flying platform. 2,953,321, 9-20-60, Cl. 244-23.
- Robertson, Charlotte R. B. : *See*—  
Bletcher, Ralph E., Ward, and Bucknell. 2,923,315.
- Robertson, Dale N., to The Dow Chemical Co. Nitrogenous compounds. 2,920,101, 1-5-60, Cl. 260-471.
- Robertson, Dale N., to The Dow Chemical Co. Gamma-hydroxy-alpha, beta-acetylenic ketones. 2,937,205, 5-17-60, Cl. 260-590.
- Robertson, Douglas W. : *See*—  
Scott, Thomas R., Jr., Robertson, and Wrigley. 2,954,537.
- Robertson, Earl M. : *See*—  
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- Robertson, Edwin J. : *See*—  
Garapolo, Orlando, and Robertson. 2,924,924.
- Robertson, Elmer W. Radially expandable tire casing mounting. 2,934,114, 4-26-60, Cl. 144-288.
- Robertson, Evans, to Pipe Line Service Corp. Take-up arrangement. 2,939,571, 6-7-60, Cl. 198-208.
- Robertson, Evans, to Pipe Line Service Corp. Coating apparatus. 2,945,278, 7-19-60, Cl. 25-38.
- Robertson, H. H., Co. : *See*—  
Curran, Bernard E. 2,944,478.
- Curran, Bernard E. 2,957,628.
- Curran, Bernard E. 2,957,629.
- Edgar, William L. 2,950,788.
- Edgar, William L. 2,957,555.
- Ferrell, Russell A. 2,949,981.
- Fleming, Edward N. 2,931,387.
- Goemann, Richard P. 2,935,307.
- Hubbell, Dean S., and Weaver. 2,932,584.
- Hubbell, Dean S., and Weaver. 2,932,585.
- Johnson, Thomas B., and Holman. 2,934,990.
- Kautz, Glenn E. 2,957,403.
- Shelby, Wallace A., Jr. 2,937,549.
- Singleton, Fred G., and Schafer. 2,944,994.
- Wiesmann, Joseph W. 2,931,212.
- Wiesmann, Joseph W. 2,931,213.
- Wiesmann, Joseph W. 2,931,533.
- Wiesmann, Joseph W. 2,946,413.
- Robertson, James A., to E. I. du Pont de Nemours and Co. Plasticized polyvinyl alcohol composition. 2,948,697, 8-9-60, Cl. 260-29.2.
- Robertson, James E. : *See*—  
McGraw, Bernard R., and Robertson. 2,938,459.
- Robertson, John A., to United States Gypsum Co. Demountable partition. 2,958,403, 11-1-60, Cl. 189-34.
- Robertson, John D., to Mount Hope Machinery Co. Sheet-engaging rolls. 2,960,753, 11-22-60, Cl. 29-116.
- Robertson, John D., and J. N. Basic, to Mount Hope Machinery Co. Expanding and contracting rolls. 2,960,749, 11-22-60, Cl. 26-63.
- Robertson, John J., to Welx, Inc. Well perforator firing means. 2,924,173, 2-9-60, Cl. 102-20.
- Robertson, John K. : *See*—  
Gustin, Daniel S., and Robertson. 2,960,414.
- Robertson, Olon J., to Pilot Hosiery Mills, Inc. Novelty ankle sock. 2,926,512, 3-1-60, Cl. 66-178.
- Robertson, P. L. Mfg. Co. Ltd. : *See*—  
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- Robertson-Photo-Mechanix Inc. : *See*—  
Sussin, Max H. 2,957,400.
- Robertson, Robert : *See*—  
Rowton, Harold S., Shaw, and Robertson. 2,930,076.
- Robertson, Sloan D. : *See*—  
Frils, Harold T., and Robertson. 2,921,272.
- Robertson, Sloan D., to Bell Telephone Laboratories, Inc. Fineline coupler. 2,922,961, 1-26-60, Cl. 333-6.
- Robertson, Sloan D., to Bell Telephone Laboratories, Inc. High frequency apparatus. 2,923,901, 2-2-60, Cl. 333-73.
- Robertson, Sloan D., to Bell Telephone Laboratories, Inc. Fineline coupler. 2,924,797, 2-9-60, Cl. 333-98.
- Robertson, Thomas E., to American Radiator & Standard Sanitary Corp. Temperature operated power element. 2,942,095, 6-21-60, Cl. 219-93.



- Robertson, William A., to Design Engineers. Hand-operable smoke jet generator. 2,960,981, 11-22-60, Cl. 126-59.5.
- Robeson, Charles D., to Eastman Kodak Co. Preparation of symmetrical conjugated compounds. 2,932,674, 4-12-60, Cl. 260-666.
- Robeson, Max O.: *See*—
- Luke, Oren V., Jr., Robeson, and Taylor. 2,951,095.
- Robichaud, Mabel A. Bottle holder. 2,956,687, 10-18-60, Cl. 211-74.
- Robillard, Jean J. A., to Motorola, Inc. Electrodynamic spectrograph. 2,937,562, 5-24-60, Cl. 88-14.
- Robillard, John H. Fire extinguisher support. 2,965,890, 12-20-60, Cl. 340-280.
- Robin, Burton H., to Swift & Co. Preparation of halo-hydroxy fatty materials. 2,936,314, 5-10-60, Cl. 260-408.
- Robineau, Marcel J.: *See*—
- Ghertman, Iolino, Estrems, Robineau, and Febvre. 2,962,211.
- Robinette, Carl W. Wing clip for model aircraft. 2,932,124, 4-12-60, Cl. 46-79.
- Robins, A. H., Co., Inc.: *See*—
- Lunsford, Carl D. 2,956,062.
- Robins, Erford E.: *See*—
- Parker, Humphrey F., and Robins. 2,947,264.
- Parker, Humphrey F., and Robins. 2,959,262.
- Robins, Erford E., H. F. Parker, and L. W. Lerch, to Columbia McKinnon Chain Corp. Hoist hook block. 2,925,298, 2-16-60, Cl. 294-78.
- Robins, Roland K.: *See*—
- Hitchings, George H., and Robins. 2,926,166.
- Robins, Seymour. Visual aid for vehicle operator. 2,960,772, 11-22-60, Cl. 33-64.
- Robinson, Aaron Z., Jr., to United States of America, Navy. Polarity coincidence correlator. 2,957,137, 10-18-60, Cl. 324-83.
- Robinson, Albert P. Damper frame and damper combination. 2,966,153, 12-27-60, Cl. 126-288.
- Robinson, Alfred J., to Minerals & Chemicals Philipp Corp. Process for simultaneously producing pelleted and fluid cracking catalysts from clays. 2,960,478, 11-15-60, Cl. 252-450.
- Robinson, Arthur A., and J. Leech, to International Business Machines Corp. Instruction controlled shifting device. 2,925,218, 2-16-60, Cl. 235-157.
- Robinson Aviation, Inc.: *See*—
- Dickie, Robert J. 2,932,482.
- Robinson, Bailey P., Jr. Mechanism for producing a manifold assembly interlock. 2,935,002, 5-3-60, Cl. 93-1.1.
- Robinson, Benjamin F. Gasoline sales recording device. 2,935,229, 5-3-60, Cl. 222-30.
- Robinson, Bruce E., to Toledo Scale Corp. Lamp mounting. 2,927,199, 3-1-60, Cl. 240-37.
- Robinson, Charles A.: *See*—
- Garceau, Bertram J., and Robinson. 2,936,251.
- Robinson, Charles B., to Cleveland Electro Metals Co. Ex-bar hanger. 2,956,765, 10-18-60, Cl. 248-205.
- Robinson, Charles E., to Joseph Lucas (Industries) Ltd. Alternating electric current generators. 2,934,662, 4-26-60, Cl. 310-68.
- Robinson, Charles F.: *See*—
- Brubaker, Wilson M., and Robinson. 2,945,126.
- Robinson, Charles F., to Bell & Howell Co. Incandescent lamp. 2,931,933, 4-5-60, Cl. 313-113.
- Robinson, Charles F., to E. I. du Pont de Nemours and Co. Resinous composition. 2,948,705, 8-9-60, Cl. 260-47.
- Robinson, Charles F., to Consolidated Electrodynamics Corp. Acoustical apparatus for gas detection. 2,952,153, 9-13-60, Cl. 73-23.
- Robinson, Charles F., to Consolidated Electrodynamics Corp. Mass spectrometer. 2,953,680, 9-20-60, Cl. 250-41.9.
- Robinson, Charles F., to Consolidated Electrodynamics Corp. Refractometer. 2,957,386, 10-25-60, Cl. 88-14.
- Robinson, Charles F., and W. M. Brubaker, to Consolidated Electrodynamics Corp. Gas analysis. 2,959,677, 11-8-60, Cl. 250-43.5.
- Robinson, Charles J., Jr., to The American Oil Co. Synthesis of aromatic hydrocarbons. 2,938,933, 5-31-60, Cl. 260-668.
- Robinson, Claude L., and R. B. Shulters, to Gardner-Denver Co. Feed attachment for drills. 2,927,486, 3-8-60, Cl. 77-34.4.
- Robinson, Curville J.: *See*—
- Erickson, Harold E., and Robinson. 2,951,519.
- Robinson, David. Collar stays. 2,936,461, 5-17-60, Cl. 2-132.
- Robinson, Donald B.: *See*—
- Herrmann, John A., Platz, and Robinson. 2,943,292.
- Robinson, Edward J. Well derrick. 2,924,309, 2-9-60, Cl. 189-16.
- Robinson, Elvin B., deceased (L. C. Robinson, executrix), to Ideal Machine Shops. Flyer for textile apparatus. 2,919,535, 1-5-60, Cl. 57-115.
- Robinson, Frederick C., to A. H. Hunt (Capacitors) Ltd. Method of winding electrical capacitors. 2,920,834, 1-12-60, Cl. 242-56.1.
- Robinson, Frederick C., and N. H. Bentley, to A. H. Hunt (Capacitors) Ltd. Electrical capacitors. 2,930,109, 3-29-60, Cl. 29-25.42.
- Robinson, Frederick C., and F. R. Beckett, to A. H. Hunt (Capacitors) Ltd. Electrical capacitors. 2,958,117, 11-1-60, Cl. 29-25.42.
- Robinson, Gene C., and J. R. Zietz, Jr., to Ethyl Corp. Hydrocarbon, zincsulfate and sulfonate compounds. 2,942,016, 6-21-60, Cl. 260-429.9.
- Robinson, George L., and L. J. Stypinski, to Canadair Ltd. Articulated vehicle. 2,933,143, 4-19-60, Cl. 180-14.
- Robinson, George Y., Jr.: *See*—
- Collins, Samuel C., Robinson, and Selldorf. 2,951,346.
- Farrell, James H., Hunsaker, Pastuhov, and Robinson. 2,954,003.
- Robinson, Gerald, to General Aniline & Film Corp. Composition containing vinyl pyrrolidone polymer stabilized with alkylated phenol. 2,941,980, 6-21-60, Cl. 260-45.95.
- Robinson, Gilbert C., to Zonolite Co. Structural clay products and method of making the same. 2,922,719, 1-26-60, Cl. 106-40.
- Robinson, Gilbert G., and J. H. Madden. Transmitter final with series-tuned self-neutralized tank circuit. 2,944,221, 7-5-60, Cl. 330-65.
- Robinson, Glen: *See*—
- Kyle, James C., Robinson, and Eggers. 2,920,212.
- Robinson, Glen P., Jr.: *See*—
- Hutchins, Samuel F., and Robinson. 2,943,358.
- Robinson, Herbert L., C. I. Smith, and M. M. Zimet, to Sperry Rand Corp., Ford Instrument Co. Division. Microwave doppler signal simulator. 2,935,701, 5-3-60, Cl. 332-45.
- Robinson, Herbert L., C. I. Smith, and M. M. Zimet, to Sperry Rand Corp., Ford Instrument Co. Division. Microwave suppressed carrier modulator. 2,936,429, 5-10-60, Cl. 332-45.
- Robinson, Herman P., to United States of America, Atomic Energy Commission. Automatic counter. 2,939,633, 6-7-60, Cl. 235-92.
- Robinson, Ivan M.: *See*—
- Brebner, Donald L., Edwards, Robinson, Squire, and Starkweather. 2,944,993.
- De Jong, Rudolf B., and Robinson. 2,943,077.
- Robinson, Ivan M., L. H. Rombach, and W. L. Truett, to E. I. du Pont de Nemours and Co. Polymers of bicyclo-(2.2.1)-2-heptene. 2,932,630, 4-12-60, Cl. 260-93.1.
- Robinson, James: *See*—
- Speakman, Raymond H., and Robinson. 2,932,062.
- Robinson, James A.: *See*—
- Raine, Thomas, and Robinson. 2,924,518.
- Robinson, James M.: *See*—
- Greshel, Leonard J., Robinson, and Dahlman. 2,936,341.
- Robinson, James V., and I. E. Shaffer, to The Mead Corp. Casting surface for producing cast-surfaced mineral coated paper. 2,943,954, 7-5-60, Cl. 117-64.
- Robinson, John A., to Western Electric Co., Inc. Automatic gain control system. 2,951,210, 8-30-60, Cl. 331-40.
- Robinson, John L.: *See*—
- Kirk, Roy, and Robinson. 2,952,727.
- Robinson, John V.: *See*—
- Browning, Iben, and Robinson. 2,960,603.
- Robinson, John W.: *See*—
- Boller, Ernest R., and Robinson. 2,952,603.
- Robinson, José A. G. Illuminated tire gauge. 2,951,370, 9-6-60, Cl. 73-389.
- Robinson, Kearney G., to Boeing Airplane Co. High-frequency coaxial transmission line elbow fittings. 2,952,823, 9-13-60, Cl. 333-97.
- Robinson, Kenneth: *See*—
- Konins, Julius A., Robinson, and Pollak. 2,938,962.
- Robinson, Kenneth J. Collapsible stand for barrels, drums and the like. 2,966,322, 12-27-60, Cl. 248-150.
- Robinson, Kenneth R.: *See*—
- Sturrock, Murray G., Cline, and Robinson. 2,942,030.
- Sturrock, Murray G., Cline, Robinson, and Zergher. 2,964,529.
- Robinson, Lester E.: *See*—
- Opsahl, Eugene G., and Robinson. 2,963,989.
- Robinson, Lillian C.: *See*—
- Robinson, Elvin B. 2,919,535.
- Robinson Machine Works, Inc.: *See*—
- Robinson, Samuel C. 2,937,228.
- Robinson, Milton J.: *See*—
- Buettner, Raymond J., Sievert, Svoboda, and Robinson. 2,939,514.
- Robinson, Nigel D.: *See*—
- Froggatt, Robert J., and Robinson. 2,958,855.
- Robinson, Philip W., and R. E. Smith, Jr. Apparatus for making carbon black. 2,926,073, 2-23-60, Cl. 23-259.5.
- Robinson, Philip W. Setting of axminster spools. 2,952,891, 9-20-60, Cl. 28-72.5.
- Robinson, Preston: *See*—
- Peck, David B., and Robinson. 2,921,246.
- Robinson, Preston, to Sprague Electric Co. Electrolytic capacitors. 2,923,867, 2-2-60, Cl. 317-230.
- Robinson, Preston, to Sprague Electric Co. High energy storage capacitor. 2,931,961, 4-5-60, Cl. 317-258.
- Robinson, Preston, to Sprague Electric Co. High dielectric constant ceramics. 2,935,411, 5-3-60, Cl. 106-39.
- Robinson, Preston, to Sprague Electric Co. Electrolytes. 2,944,026, 7-5-60, Cl. 252-62.2.
- Robinson, Preston, to Sprague Electric Co. Process for producing a conductive layer on heat sensitive dielectric material. 2,956,909, 10-18-60, Cl. 117-217.
- Robinson, Preston, and D. B. Peck, to Sprague Electric Co. Electrical capacitors. 2,935,668, 5-3-60, Cl. 317-258.
- Robinson, Ralph M.: *See*—
- Freifelder, Morris, Illich, and Robinson. 2,923,715.
- Illich, George M., Jr., and Robinson. 2,955,926.



- Robinson, Ralph O., Jr., to United States of America, Navy. Dipole radio sonde. 2,939,130, 5-31-60, Cl. 343-7.
- Robinson, Richard A., to G. D. Searle & Co. 3-( $\omega$ -hydrazino) alkylindoles. 2,947,758, 8-2-60, Cl. 260-319.
- Robinson, Richard S., to John A. Manning Paper Co., Inc. Brightening agent for electroplating. 2,932,610, 4-12-60, Cl. 204-49.
- Robinson, Samuel A.: See—  
Jones, Robert E., and Robinson. 2,933,516.
- Robinson, Samuel C., to Robinson Machine Works, Inc. Co-axial cable splice. 2,937,228, 5-17-60, Cl. 174-88.
- Robinson, Sydney, to Stanley W. Jackson. Treatment of textile fibres. 2,964,803, 12-20-60, Cl. 19-70.
- Robinson, Thomas L., to Automated Circuits, Inc. Printed electrical circuits and method of making the same. 2,943,956, 7-5-60, Cl. 117-212.
- Robinson, Thomas R., Jr., to The Marlin Firearms Co. Loading means for bolt-action rifles. 2,963,810, 12-13-60, Cl. 42-16.
- Robinson, Walter H., Jr., and R. F. West, to The Stanley Works. Saw blade holder. 2,953,175, 9-20-60, Cl. 145-31.
- Robinson, Warn D.: See—  
Sullivan, James D., Robinson, and Cummings. 2,955,136.
- Robinson, Warn D., and J. D. Sullivan, to Monsanto Chemical Co. Recovery of ortho-cresol. 2,963,408, 12-6-60, Cl. 202-46.
- Robinson, William A.: See—  
McLaughlin, George H., Harvey, Cartier, and Robinson. 2,931,974.
- Robinson, William B.: See—  
Lamphier, Walter C., Robinson, and Christopher. 2,923,977.
- Robinson, William J., to Minneapolis-Honeywell Regulator Co. Conductive fluid actuator. 2,934,900, 5-3-60, Cl. 60-52.
- Robinson, William J., to Minneapolis-Honeywell Regulator Co. Capacitive balanced system. 2,965,836, 12-20-60, Cl. 323-93.
- Robinson, William L., to Monsanto Chemical Co. Method of producing chlorocyanuric acids. 2,964,525, 12-13-60, Cl. 260-248.
- Robinson, William W., Jr., and D. C. Camp. Poultry feeding trough with vertically adjustable supporting leg assemblies. 2,945,473, 7-19-60, Cl. 119-61.
- Robischung, Philip J.: See—  
Bass, Miles M., Bell, Hammond, and Robischung. 2,922,258.
- Robischung, Philip J., to Hammond Machinery Builders, Inc. Machine tool. 2,919,522, 1-5-60, Cl. 51-217.
- Robischung, Philip J., to Hammond Machinery Builders, Inc. Machine tool. 2,935,824, 5-10-60, Cl. 51-266.
- Robishaw, Alces P., to C. N. Housh. Pipe rack and lay-down trough. 2,958,430, 11-1-60, Cl. 214-25.
- Robison, Fred A. Earth tamping roller. 2,938,439, 5-31-60, Cl. 94-50.
- Robison, Gerson H., and J. F. Dickson, to United States of America, Atomic Energy Commission. Coincidence occurrence indicator. 2,960,687, 11-15-60, Cl. 340-253.
- Robison, Samuel B.: See—  
Baldwin, Francis P., Miller, and Robison. 2,943,664.  
Baldwin, Francis P., and Robison. 2,933,117.  
Baldwin, Francis P., and Robison. 2,955,103.  
Fusco, James V., Robison, and Miller. 2,962,474.
- Robison, William A., Jr.: See—  
Brinker, Emil F., and Robison. 2,952,755.
- Robison, William A., Jr., to Westinghouse Air Brake Co. Car retarder speed pressure selective control apparatus. 2,964,618, 12-13-60, Cl. 246-182.
- Robitschek, George C. Electrically controlled manifold valve. 2,965,084, 12-20-60, Cl. 123-119.
- Robock, Lloyd H. Single line feeding apparatus. 2,966,250, 12-27-60, Cl. 198-30.
- Robosonic National Industries Corp.: See—  
Waldman, Herbert, and Gelbman. 2,966,359.
- Robotron Corp.: See—  
Rockafellow, Stuart C. 2,952,815.  
Rockafellow, Stuart C. 2,961,596.
- Robotyper Corp.: See—  
Oxley, Le Roy V., and Blythe. 2,947,320.  
Oxley, Leroy V., Blythe, and Popovich. 2,958,567.
- Robra, Helmut: See—  
Billen, Peter, and Robra. 2,933,184.
- Robra, Helmut, to Schloemann Aktiengesellschaft. Equipment for forging the cranks of crankshafts in consecutive operations. 2,944,320, 7-12-60, Cl. 29-6.
- Robson, Aubrey H., to American Air Filter Co., Inc. Air conditioning apparatus. 2,939,295, 6-7-60, Cl. 62-140.
- Robson, Briton S., and E. Snow, to British Insulated Cables Ltd. Reeling device. 2,955,771, 10-11-60, Cl. 242-25.
- Robson, Eric R., to Radio Corp. of America. Magnetic erase head. 2,959,643, 11-8-60, Cl. 179-100.2.
- Robson, Homer L., to Olin Mathieson Chemical Corp. Bleaching composition. 2,959,554, 11-8-60, Cl. 252-99.
- Robson, Homer L., to Olin Mathieson Chemical Corp. Production of calcium hypochlorite product and method of manufacture. 2,963,440, 12-6-60, Cl. 252-187.
- Robson, James T., to Ferro Corp. Apparatus for regulating the operation of a tunnel kiln. 2,921,356, 1-19-60, Cl. 25-142.
- Robson, John, to Reynolds Metals Co. Combined food packaging and cooking container. 2,951,765, 9-6-60, Cl. 99-192.
- Robtschek, Paul, and C. T. Bean, to Hooker Chemical Corp. Flame retardant polyester resin composition containing halogen and phosphorus, and laminated article using said composition as a binder. 2,931,746, 4-5-60, Cl. 154-43.
- Roby, Russell R. Power chuck. 2,954,983, 10-4-60, Cl. 279-121.
- Roby, Sheldon S.: See—  
Ferry, Chamberlain, and Roby. 2,929,893.
- Roccati, Arnold J., to Fairchild Engine and Airplane Corp. Optical tracking system for rotary blade aircraft in flight. 2,964,849, 12-20-60, Cl. 33-46.
- Rocchi, Raymond P.: See—  
Caloiero, John, Michellini, and Rocchi. 2,946,452.  
Caloiero, John, Michellini, and Rocchi. 2,958,422.  
Caloiero, John, Michellini, and Rocchi. 2,958,423.
- Rocchini, Albert G., and C. E. Trautman, to Gulf Research & Development Co. Residual fuels. 2,949,008, 8-16-60, Cl. 60-35.6.
- Rocchini, Albert G., and C. E. Trautman, to Gulf Research & Development Co. Corrosion inhibited fuels containing vanadium. 2,966,029, 12-27-60, Cl. 60-39.02.
- Rocform Corp.: See—  
Arrighini, Artill. 2,960,743.
- Roch, Josef, to Dr. Karl Thomae G.m.b.H. Tri- and tetra-substituted pteridine derivatives. 2,940,972, 6-14-60, Cl. 260-247.5.
- Roch, Pierre M., to Pierre Roch, S.a.r.l. Micrometric head. 2,963,792, 12-13-60, Cl. 33-164.
- Roch, Pierre, S.a.r.l.: See—  
Roch, Pierre M. 2,963,792.
- Rocha, Henrique A. F., to General Electric Co. Ultrasonic image detector. 2,957,340, 10-25-60, Cl. 73-67.5.
- Roche, Arthur F.: See—  
Keskula, Henno, Price, and Roche. 2,958,671.
- Roche, Arthur F., B. H. Tubbs, and C. Jones, to The Dow Chemical Co. Transparent molding compositions of copolymers of vinyl aromatic hydrocarbons and esters of methacrylic acid and copolymers of butadiene and styrene and method of making. 2,941,977, 6-21-60, Cl. 260-45.5.
- Roche, Arthur F., and N. R. Ruffing, to The Dow Chemical Co. Transparent compositions of polyvinylxylene and rubbery butadiene-styrene copolymers. 2,941,978, 6-21-60, Cl. 260-45.5.
- Roché, Jean A., to United States of America, Air Force. Pressure responsive apparatus for turbojet engine controls. 2,937,526, 5-24-60, Cl. 73-389.
- Roche, Jean A. F., and A. F. Schexnaydre, to General Electric Co. Turbojet fuel regulating system with temperature compensation for preventing compressor stall. 2,963,859, 12-13-60, Cl. 60-39.28.
- Roche, Melvin E.: See—  
Sands, Hillard J., and Roche. 2,953,832.
- Roche, Melvin E. Hinge for a pivotal bedframe. Re. 24,841, 6-21-60, Cl. D5-2.
- Roche, Melvin E., to Harvard Mfg. Co. Bedframe with controlled movement cross rail. 2,939,157, 6-7-60, Cl. 5-176.
- Roche, Melvin E., to Harvard Mfg. Co. Bedframe side rail end cap. 2,951,252, 9-6-60, Cl. 5-279.
- Roche, Thomas K.: See—  
Inouye, Henry, Manly, and Roche. 2,921,850.
- Rochelneau, Leopold A. Combination test set, gauge, comparator, and dial indicator. 2,965,970, 12-27-60, Cl. 33-169.
- Rochelle, Robert W. Magnetic core multivibrator circuit. 2,963,658, 12-6-60, Cl. 331-113.
- Rochester Button Co.: See—  
Hendrickson, Roy H., and Sweeting. 2,959,324.
- Rochester, Nathaniel: See—  
Fox, Philip E., Bartelt, Crawford, and Rochester. 2,950,465.
- Rochester Ropes, Inc.: See—  
Rochester, William L., Jr. 2,939,732.
- Rochester, William L., Jr., to Rochester Ropes, Inc. Cable fitting. 2,939,732, 6-7-60, Cl. 287-78.
- Rochling'sche Eisen-und Stahlwerke G.m.b.H.: See—  
Heiligenstaedt, Hans E. W. 2,948,521.
- Rochrig, Frederick L. O. Safety device. 2,949,129, 8-16-60, Cl. 137-539.
- Rochwald George W. Telephone holder. 2,958,741, 11-1-60, Cl. 179-148.
- Rochwite, Seton I. Stereoscopic camera. 2,922,349, 1-26-60, Cl. 95-18.
- Rock, Albin S.: See—  
Hall, Elisha W., and Rock. 2,920,428.
- Röck, Heinrich, to Sueddeutsche Kalkstickstoff-Werke A.G. Leaching process for the recovery of pure titanium, zirconium and hafnium. 2,965,476, 12-20-60, Cl. 75-84.
- Rock, Joseph J., to International Business Machines Corp. Signal pick-off device. 2,962,567, 11-29-60, Cl. 200-87.
- Rock, Kingsley C., to Minneapolis-Honeywell Regulator Co. Photographic flash apparatus. 2,935,650, 5-3-60, Cl. 315-241.
- Rockafellow, Stuart C., to Robotron Corp. High gain direct current amplifier. 2,952,815, 9-13-60, Cl. 330-63.
- Rockafellow, Stuart C., to Robotron Corp. Apparatus for automatic power factor compensation for tube firing resistance welding control. 2,961,596, 11-22-60, Cl. 323-58.
- Rockafeld, Wilden A., to The Brundage Co. Support structure for a motor having a rotating field. 2,927,228, 3-1-60, Cl. 310-91.



- Rockafeld, Wilden A., to The Brundage Co. Bearing structure. 2,937,054, 5-17-60, Cl. 308—26.
- Rockefeller, Harry E.: *See*—  
Craig, James R., Rockefeller, Stanchus, and Davis. 2,947,847.
- Wilson, Jack L., Rockefeller, and Butler. 2,948,803.
- Rockefeller, Harry E., and J. L. Wilson, to Union Carbide Corp. Electric arc deoxidized metal deposition. 2,920,181, 1-5-60, Cl. 219—74.
- Rockelman, Harold J. Gasoline trap. 2,946,475, 7-26-60, Cl. 220—18.
- Rockett, Jack: *See*—  
Bruson, Herman A., and Rockett. 2,942,013.
- Rockett, Jack, to Olin Mathieson Chemical Corp. Certain pyridine-2-dithiophosphonate, N-oxides. 2,922,791, 1-26-60, Cl. 260—294.8.
- Rockett, Jack, to Olin Mathieson Chemical Corp. Certain ester derivatives of 2-mercaptopyridine, N-oxide. 2,922,792, 1-26-60, Cl. 260—294.8.
- Rockett, Jack, to Olin Mathieson Chemical Corp. 2-allylic thiopyridine N-oxides. 2,922,793, 1-26-60, Cl. 260—294.8.
- Rockett, Jack, to Olin Mathieson Chemical Corp. Thioformal and acetal derivatives of mercapto-pyridine-1-oxide. 2,932,647, 4-12-60, Cl. 260—294.8.
- Rockett, Jack, and B. B. Brown, to Olin Mathieson Chemical Corp. S-(2-pyridyl-1-oxide)-S'-trichloromethyl disulfide and salts. 2,922,790, 1-26-60, Cl. 260—294.8.
- Rockey, Charles F. Alternating current rectifier. 2,931,966, 4-5-60, Cl. 321—8.
- Rock Fabricates and Mining Corp.: *See*—  
Welty, Lloyd G., and Hinkson. 2,925,831.
- Rockford Machine Tool Co.: *See*—  
Bjorklund, Stanley A. 2,924,239.
- Johnson, Earle W. 2,931,684.
- Rockhill, William H. Steering control for outboard motors. 2,961,986, 11-29-60, Cl. 114—144.
- Rocklin, Albert L., to The Dow Chemical Co. O-quinones. 2,920,082, 1-5-60, Cl. 260—396.
- Rocklin, Albert L., to The Dow Chemical Co. Preparation of pentachlorothiophenol. 2,922,820, 1-26-60, Cl. 260—609.
- Rocklin, Albert L., to The Dow Chemical Co. Method for preparing polychlorothiophenols. 2,949,487, 8-16-60, Cl. 260—609.
- Rocklin, Albert L., to The Dow Chemical Co. Method for preparing polychlorophenyl ethers and thioethers. 2,949,488, 8-16-60, Cl. 260—609.
- Rockmore, Milton M. Razor-blade dispenser. 2,964,167, 12-13-60, Cl. 206—16.
- Rockoff, Joseph, to The Dayton Rubber Co. Method for manufacturing roller assemblies. 2,932,856, 4-19-60, Cl. 18—59.
- Rockoff, Joseph, to The Dayton Rubber Co. Textile machine units. 2,932,859, 4-19-60, Cl. 19—143.
- Rockoff, Joseph, to The Dayton Rubber Co. Pneumatic tire. 2,937,684, 5-24-60, Cl. 152—362.
- Rockoff, Joseph, to Dayco Corp. Flocked or pile surfaced cellular article and method for its manufacture. 2,964,421, 12-13-60, Cl. 117—33.
- Rocks, James K.: *See*—  
Hunter, Austin R., and Rocks. 2,949,366.
- Rocks, James K., to Kelco Co. Method and composition for preparing cold water desserts. 2,925,343, 2-16-60, Cl. 99—131.
- Rockstead, Joel B.: *See*—  
Viggers, Robert F., and Rockstead. 2,960,860.
- Rockstroh, Richard K.: *See*—  
Blissard, Harold S., Smith, Rockstroh, and Guthrie. 2,943,992.
- Rockstrom, Leonard, to Cameron Machine Co. Apparatus for controlling tension in a web. 2,965,326, 12-20-60, Cl. 242—75.43.
- Rockwall Co.: *See*—  
Arrighini, Artile, and Bell. 2,944,334.
- Rockwell, Adelbert W., Jr.: *See*—  
Gilbride, Andrew J., and Rockwell. 2,926,367.
- Gilbride, Andrew J., and Rockwell. 2,934,774.
- Rockwood, Albert M., and D. M. Cowan, to Tea Council of the United States of America, Inc. Tea-making apparatus. 2,927,522, 3-8-60, Cl. 99—290.
- Rockwell, Edward A. Accumulating apparatus and system. 2,919,715, 1-5-60, Cl. 137—549.
- Rockwell, Edward A. Pressure regulating and metering valve. 2,925,824, 2-23-60, Cl. 137—490.
- Rockwell, Edward A. Brake pedal mechanism. 2,928,293, 3-15-60, Cl. 74—512.
- Rockwell, Edward A. Slack adjuster apparatus. 2,928,508, 3-15-60, Cl. 188—152.
- Rockwell, Edward A. Master cylinder construction. 2,932,168, 4-12-60, Cl. 60—54.6.
- Rockwell, Edward A. Unloading valve mechanism. 2,933,101, 4-19-60, Cl. 137—509.
- Rockwell, Edward A. Power compound booster for brakes. 2,936,590, 5-17-60, Cl. 60—54.6.
- Rockwell, Eileen A., to The La Resistia Corset Co. Undergarments. 2,960,987, 11-22-60, Cl. 128—528.
- Rockwell G.m.b.H.: *See*—  
Ruess, Leopold. 2,953,032.
- Rockwell, Gaynor O., to United States of America, Navy. Directional locator for origin of fluid borne vibrations. 2,962,697, 11-29-60, Cl. 340—16.
- Rockwell, Gaynor O., and G. M. Gourley, to United States of America, Navy. Scatter charge. 2,960,915, 11-22-60, Cl. 89—1.
- Rockwell, Harley T. Lubricator. 2,939,752, 6-7-60, Cl. 308—243.
- Rockwell, Harvard S. Grain storage structures. 2,947,118, 8-2-60, Cl. 50—202.
- Rockwell, Harvey W., to Allis-Chalmers Mfg. Co. Pressure relief and valve spool positioning mechanism. 2,928,423, 3-15-60, Cl. 137—622.
- Rockwell, Harvey W., to Allis-Chalmers Mfg. Co. Weight transferring supporting structure. 2,928,683, 3-15-60, Cl. 280—406.
- Rockwell, Harvey W., to Allis-Chalmers Mfg. Co. Automatic depth control for an implement. 2,933,838, 4-26-60, Cl. 37—144.
- Rockwell, Harvey W., to Allis-Chalmers Mfg. Co. Apron lift mechanism. 2,935,803, 5-10-60, Cl. 37—124.
- Rockwell, Harvey W., to Allis-Chalmers Mfg. Co. Vehicle steering and control apparatus. 2,936,039, 5-10-60, Cl. 180—79.2.
- Rockwell, Harvey W., and H. L. Eckert, to Allis-Chalmers Mfg. Co. Articulated self-propelled earth moving vehicle. 2,936,038, 5-10-60, Cl. 180—79.2.
- Rockwell, Harvey W., and D. W. Hawk, to Allis-Chalmers Mfg. Co. Retractable auxiliary wheels. 2,950,926, 8-30-60, Cl. 280—405.
- Rockwell Mfg. Co.: *See*—  
Bloxxom, Clarence W. 2,925,941.
- Buttke, Richard A. 2,944,376.
- Buttke, Richard A. 2,955,007.
- Gilmore, Edward R., and Spore. 2,949,125.
- Karby, Henning. 2,940,309.
- Murphy, Robert D., and Janson. 2,947,403.
- Pettigrew, David D., and Bell. 2,947,197.
- Rugeley, Rowland B., and Batchelder. 2,919,834.
- Scherer, George F. 2,932,311.
- Staller, Charles V., and Kish. 2,945,668.
- Treff, Conrad C., and Hague. 2,921,468.
- Warrick, Edward C., and Brown. 2,943,631.
- Warrick, Edward C., Holtz, and Kmetz. 2,956,595.
- Zavada, Anthony W. 2,960,074.
- Rockwell, Robert B. H. Preferred subscriber telephone system. 2,943,155, 6-28-60, Cl. 179—27.
- Rockwell, Robert G., to Varian Associates. Klystron amplifier. 2,940,002, 6-7-60, Cl. 315—5.46.
- Rockwell, Ronald J., to Crosley Broadcasting Corp. Modulation system. 2,966,636, 12-27-60, Cl. 332—60.
- Rockwell, Ronald K., and E. J. Samario, to Sperry Rand Corp. Detector circuit for loran receivers. 2,946,052, 7-19-60, Cl. 343—108.
- Rockwell-Standard Corp.: *See*—  
Bixby, Leo A. 2,949,040.
- Fante, Harry H., and Gonia. 2,920,684.
- Fante, Harry H., and Gonia. 2,940,480.
- Goldman, Leo. 2,928,506.
- Hanley, William G. 2,957,706.
- Herder, Elmer A., and Friesen. 2,951,383.
- House, Bryan E. 2,922,317.
- House, Bryan E. 2,942,696.
- House, Bryan E., Super, and Mathews. 2,945,564.
- Mather, Glen E., and Green. 2,932,506.
- Mathews, George P. 2,940,550.
- Pawlikowski, Edward T. 2,934,133.
- Pitts, Kennard, and Herder. 2,958,369.
- Rockwell, Willard F. 2,944,636.
- Rowland, Frederick F., and Perdue. 2,920,884.
- Scheel, Walther F. 2,923,579.
- Schou, Carl E. 2,932,216.
- Schou, Carl E. 2,933,952.
- Williams, William J. 2,932,366.
- Rockwell, Willard F., to Rockwell-Standard Corp. Emergency brake. 2,944,636, 7-12-60, Cl. 188—29.
- Rockwood, Albert M.: *See*—  
Conklin, Robert M., Rockwood, Smelker, and Linsker. 2,925,089.
- Rockwood & Co.: *See*—  
Hazen, Gretzolon L. 2,926,629.
- Hill, Henry H. 2,939,466.
- Petraskas, Harry O. 2,951,582.
- Seymour, Lynn L., and Poutsch. 2,963,327.
- Rockwood, Lawrence R., to Electro-Measurements, Inc. Adjustable support for articles of manufacture. 2,926,876, 3-1-60, Cl. 248—137.
- Rock Wool Engineering and Equipment Co., Inc.: *See*—  
Overman, Earl R. 2,927,742.
- Overman, Earl R. 2,927,763.
- Rocky Mountain Metal Products Co.: *See*—  
Peak, Joseph D. 2,954,606.
- Rodale Mfg. Co., Inc.: *See*—  
Kuehn, Howard O. 2,965,870.
- Lewis, Harold P., and Schmier. 2,928,920.
- Lewis, Harold P., and Schmier. 2,965,737.
- Schmier, Jacob. 2,944,243.
- Schmier, Jacob, and Lewis. 2,933,579.
- Rodd, Raymond D., to S I Handling Systems, Inc. Dial set automatic tow line truck release. 2,936,719, 5-17-60, Cl. 104—172.
- Rodda, Sidney, to Siemens Edison Swan Ltd. Photomultiplier tubes. 2,922,064, 1-19-60, Cl. 313—94.
- Rodder, William, to Blaw-Knox Co. Piercer inlet table. 2,958,244, 11-1-60, Cl. 80—13.



- Rodenacker, Wolf, to Farbenfabriken Bayer Aktiengesellschaft. Film evaporator. 2,942,656, 6-28-60, Cl. 159-12.
- Rodenacker, Wolf, to Farbenfabriken Bayer Aktiengesellschaft. Polyamide melt spinning process and apparatus. 2,943,350, 7-5-60, Cl. 18-8.
- Rodenhauser, Ludwig, and A. Bauerle. Cap for a writing instrument. 2,939,426, 6-7-60, Cl. 120-42.01.
- Roder, Albert, to NSU Werke A.G. Engine lubricating system. 2,919,768, 1-5-60, Cl. 184-6.
- Roder, Albert, to NSU Werke A.G. Shock absorbers. 2,924,305, 2-9-60, Cl. 188-88.
- Roder, Josef, and F. Stoff, to Dravo Corp. Spiral vibratory conveyor. 2,934,202, 4-26-60, Cl. 198-220.
- Roderick, Manuel J., to J. S. Kamborian. Toe lasting machine with binder holder. 2,936,467, 5-17-60, Cl. 12-12.41.
- Roderick, Wayne J., and O. J. Huffman, Jr., to Alton Box Board Co. Top-opening paperboard container. 2,922,565, 1-26-60, Cl. 229-44.
- Rodgers, Birdy L. Collapsible fuel barrel rack for trailers. 2,963,254, 12-6-60, Cl. 248-311.
- Rodgers, Dorothy F. Educational device. 2,959,872, 11-15-60, Cl. 35-74.
- Rodgers, Edward. Ice machine control. 2,934,912, 5-3-60, Cl. 62-137.
- Rodgers, Elbert A. Slip device and pack-off tool. 2,920,703, 1-12-60, Cl. 166-121.
- Rodgers, George W., J. E. Althouse, D. P. Anderson, G. R. Bussey, and L. H. Minnear, to United States of America, Atomic Energy Commission. Analog-to-digital data converter. 2,952,012, 9-6-60, Cl. 340-347.
- Rodgers, Georgia H. Spinning wheel music toy. 2,923,091, 2-2-60, Cl. 46-175.
- Rodgers Hydraulic, Inc.: See—
- Pahl, James H. 2,922,373.
- Rodgers, John, to Marconi's Wireless Telegraph Co. Ltd. Pulsed radar systems. 2,943,314, 6-28-60, Cl. 343-7.7.
- Rodgers, John K.: See—
- Tracht, Joseph H., and Rodgers. 2,966,055.
- Rodgers, Mansel B. Hole sealing device for tires. 2,928,300, 3-15-60, Cl. 81-15.6.
- Rodgers, Nelson E., K. H. Langlois, and H. T. Peeler, to Foremost Dairies, Inc. Food product and method of manufacture. 2,930,696, 3-29-60, Cl. 99-2.
- Rodgers, Samuel M., Jr.: See—
- Windover, Francis E., Rodgers, and Beaver. 2,958,607.
- Rodgers, Thomas E.: See—
- Kent, James J., Jr., and Rodgers. 2,958,612.
- Rodgers, Warren, and C. R. Trampier, to National Lead Co. Preparation of anhydrite. 2,956,859, 10-18-60, Cl. 23-122.
- Rodi & Wienenberger Aktiengesellschaft: See—
- Ihringer, Gerhard. 2,943,437.
- Jacobsen, David. 2,949,729.
- Knoop, Hendrikus. 2,952,120.
- Kunzmann, Ludwig. 2,928,232.
- Kunzmann, Ludwig. 2,952,119.
- Rodick, Raymond: See—
- Gordon, Gerald, Jr. 2,959,716.
- Rodick, Raymond E. and V. F., to The Steam-O-Matic Corp. Variable output control for blowers. 2,934,022, 4-26-60, Cl. 103-6.
- Rodick, Vernon: See—
- Gordon, Gerald, Jr. 2,959,716.
- Rodick, Vernon F.: See—
- Rodick, Raymond E. and V. F. 2,934,022.
- Rodin, Eugene. Infant's surgical tray with quick release restraining means. 2,926,054, 2-23-60, Cl. 311-5.
- Rodine, Milward T., to Hughes Aircraft Co. Method and means for making circular variable density filters. 2,960,015, 11-15-60, Cl. 95-1.
- Rodis, Franz: See—
- Bretschneider, Otto, and Rodis. 2,934,423.
- Harnisch, Heinz, Rodis, and Beltz. 2,950,170.
- Rodler, Waldo E., Jr., to Showver Co. Forward-reverse drive mechanism. 2,924,997, 2-16-60, Cl. 74-752.
- Rodman, Ernest A., to E. I. du Pont de Nemours and Co. Sheet material. 2,949,394, 8-16-60, Cl. 154-50.
- Rodman, Isaac P., and J. L. Winget, to United States of America, Navy. Optimum aperture ratio for transceiver. 2,953,059, 9-20-60, Cl. 83-1.
- Rodman, Norman H. A., to Orelone Concentrating Corp. Apparatus for concentrating ores. 2,930,484, 3-29-60, Cl. 209-430.
- Rodnert, Gustav O.: See—
- Nilsson, Nils E., Bjork, and Rodnert. 2,924,664.
- Rodriguez, Conrad F., and M. W. Wallace, to International Telephone and Telegraph Corp. Electron gun structure. 2,947,897, 8-2-60, Cl. 313-82.
- Rodriguez, Emil, to Jacoby-Bender, Inc. Separable telescoping bracelet linkage. 2,956,395, 10-18-60, Cl. 59-79.
- Rodriguez, Eustasio. Gasoline in granulated form. 2,922,702, 1-26-60, Cl. 44-7.
- Rodriguez, Ignacio, and M. G. Butler, to Servomechanisms, Inc. Non-electric magnetic clutch (torque limiting). 2,929,477, 3-22-60, Cl. 192-56.
- Rodriguez, Ramon: See—
- Quinones, Luis, and Rodriguez. 2,960,787.
- Rodtz, Robert J., Sr. Tile setting gauge. 2,930,135, 3-29-60, Cl. 33-180.
- Rodwell, John. Height gauges. 2,953,855, 9-27-60, Cl. 33-170.
- Rodwell, Robert H., to Hunter and Co. (Paints) Ltd. Production of anti-corrosive coatings for metals. 2,923,643, 2-2-60, Cl. 117-70.
- Rodziewicz, Wlodzimierz, J. Dobrowolski, and W. Wojnowski. Catalytic method for obtaining pentachlorophenol from phenol. 2,938,059, 5-24-60, Cl. 260-623.
- Roe, A. V., Canada Ltd.: See—
- Spurrier, Francis R. 2,920,866.
- Roe, Jasper R., to Colerain Metal Products Co. Heavy duty waste disposer. 2,932,459, 4-12-60, Cl. 241-46.
- Roe, Jonas L. Mine dredger. 2,962,822, 12-6-60, Cl. 37-191.
- Roerber, Henry W.: See—
- Holtz, Charles E., and Roerber. 2,953,842.
- Roerber, Henry W., to Sylvania Electric Products Inc. Bulb to mount assembly, preheater and transfer device. 2,940,220, 6-14-60, Cl. 49-2.
- Roebig, Adolf, to Roebig-Christ & Co., Inc. Suction and pressure pump. 2,946,291, 7-26-60, Cl. 103-149.
- Roebig-Christ & Co., Inc.: See—
- Roebig, Adolf. 2,946,291.
- Roebuck, Alan K., and B. L. Evering, to Standard Oil Co. Isoparaffin alkylation process. 2,965,689, 12-20-60, Cl. 260-683.2.
- Roebuck, Frank H.: See—
- Francis, Howard T., and Roebuck. 2,964,432.
- Francis, Howard T., and Roebuck. 2,964,433.
- Roeck, Eugene C.: See—
- Less, Frank W., Searer, and Roeck. 2,965,514.
- Roedel, Milton J.: See—
- MacDonald, Robert N., and Roedel. 2,920,059.
- Roeder, George K. Valve system for pumps. 2,932,312, 4-12-60, Cl. 137-332.
- Roeder, John, Jr., to Whirlpool Corp. Refrigerating apparatus. 2,942,051, 6-21-60, Cl. 136-4.
- Roeder, John, Jr., to Whirlpool Corp. Refrigerating apparatus having improved heat transferring means. 2,947,150, 8-2-60, Cl. 62-3.
- Roeder, John, Jr., to Whirlpool Corp. Refrigerating apparatus including supplement refrigerating means. 2,964,912, 12-20-60, Cl. 62-3.
- Roederer, Edward P., Jr., to Phillips Petroleum Co. Sampling device and method for obtaining samples. 2,950,724, 8-30-60, Cl. 134-183.
- Roedter, Henry E. Automatic ice maker. 2,947,156, 8-2-60, Cl. 62-353.
- Roeger, Richard E., to Cleveland Instrument Co. Machine tool locating mechanism. 2,926,345, 2-23-60, Cl. 340-282.
- Roehl, Edward J., and E. B. Michel, to Pittsburgh Steel Co. Laboratory test for determining brazability of copper-plated steel strip. 2,942,999, 6-28-60, Cl. 117-50.
- Roehm, Jack M., and V. W. Damm, to Kawneer Co. Door back-check and hold open mechanism. 2,958,089, 11-1-60, Cl. 16-49.
- Roehr Products Co., Inc.: See—
- Stevens, Peter. 2,941,531.
- Roehr, Zbislav M. Disposable needle assembly. 2,953,243, 9-20-60, Cl. 206-43.
- Roehrig, Frederick L. O. Carrier. 2,951,671, 9-6-60, Cl. 248-311.
- Roehrig, Jonathan R.: See—
- Lawrance, Richard B., and Roehrig. 2,928,042.
- Roelen, Otto, to Ruhrchemie Aktiengesellschaft. Process for the production of high molecular weight ethylene polymers. 2,924,591, 2-9-60, Cl. 260-94.9.
- Roelig, Hermann, and J. Schmahl, to Farbenfabriken Bayer Aktiengesellschaft. Apparatus for measuring and recording the dynamic modulus of elasticity. 2,948,147, 8-9-60, Cl. 73-89.
- Roemer, Franz K., to Hoeganaes Sponge Iron Corp. Feeding chute for metal powder rolling mill. 2,919,466, 1-5-60, Cl. 18-9.
- Roemer, Peter. Outboard motor mount. 2,939,658, 6-7-60, Cl. 248-4.
- Roemert, Eduard: See—
- Andres, Helmut, von Hayn, and Roemert. 2,921,636.
- Roepke, Raymond R., and J. T. Litchfield, Jr., to American Cyanamid Co. Recording cardiograph. 2,927,573, 3-8-60, Cl. 128-205.
- Roesch, Adolf, and J. Soehlemann; said Soehlemann assor. to said Roesch. Bearing arrangement. 2,933,355, 4-19-60, Cl. 308-203.
- Roesch, Ernst: See—
- Duerksen, Arnold, and Roesch. 2,942,295.
- Roesch, George R., to The Peters Stamping Co. Foot operated brake lever. 2,932,981, 4-19-60, Cl. 74-541.
- Roesel, John F. Rotary mower. 2,960,811, 11-22-60, Cl. 56-25.4.
- Roesel, John F., Jr.: See—
- Relation, Alfred E., and Roesel. 2,962,667.
- Roesel, John F., Jr., to Westinghouse Electric Corp. Transistor inverter circuit. 2,953,754, 9-20-60, Cl. 331-113.
- Roesel, John F., Jr., to Westinghouse Electric Corp. Electrical inverter circuits. 2,965,856, 12-20-60, Cl. 331-113.
- Roesel, John F., Jr., and T. M. Corry, to Westinghouse Electric Corp. Fluorescent lighting systems. 2,965,804, 12-20-60, Cl. 315-201.
- Roeser, Gerald P., to American-Marietta Co., Stoner-Mudge Co. Division. Sanitary can coating. 2,947,442, 8-2-60, Cl. 220-64.



- Roeser, John O., to Illinois Tool Works. Toggle switch. 2,930,865, 3-29-60, Cl. 200-70.
- Roessler, Charles E., Jr., to The Howe Scale Co. Printing hammers for printing devices for weighing scales. 2,919,644, 1-5-60, Cl. 101-297.
- Roethel, John H. Door lock. 2,944,850, 7-12-60, Cl. 292-223.
- Roethel, John H. Door lock. 2,946,613, 7-26-60, Cl. 292-229.
- Roethel, John H. Latch bolt and keeper safety interlock. 2,952,487, 9-13-60, Cl. 292-198.
- Roethel, John H. Latch bolt and keeper safety interlock. 2,962,316, 11-29-60, Cl. 292-198.
- Roff, William T., Jr., to J. P. Stevens & Co., Inc. Chrome dyeing of fibrous glass material. 2,951,739, 9-6-60, Cl. 8-8.
- Roffe, John W.: *See*—  
Asp, Howard L., and Roffe. 2,951,689.
- Roffman, Eugene, S. E. Torrey, and J. H. Stryker, to United States of America, Army. Non-destructive testing by televisual methods. 2,938,162, 5-24-60, Cl. 324-37.
- Roffman, Eugene, and A. J. Wysocki, to United States of America, Army. Detection of faults in magnetic material. 2,938,163, 5-24-60, Cl. 324-37.
- Rofusa N.V.: *See*—  
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Reimers, Hinrich. 2,959,466.
- Rogant, Humbert R., to James Campbell, Smith, Inc. Steering mechanism for fork lift truck. 2,959,425, 11-8-60, Cl. 280-87.
- Rogers, Alan B.: *See*—  
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- Rogers, Alan B., and R. W. Kline. Preparation of frozen stuffed fowl. 2,928,748, 3-15-60, Cl. 99-194.
- Rogers, Arthur O.: *See*—  
Coker, James N., Fields, and Rogers. 2,921,941.  
Coker, James N., Fields, and Rogers. 2,937,184.
- Rogers, Arthur O., to E. I. du Pont de Nemours and Co. Optically active salts of lysine and butane-2-sulfonic acid. 2,934,561, 4-26-60, Cl. 260-501.
- Rogers Brothers Corp.: *See*—  
Hoffer, Arnold H. 2,919,928.
- Rogers, Charles H., to R. T. Vanderbilt Co., Inc. Stabilized bordeaux mixture composition. 2,947,659, 8-2-60, Cl. 167-16.
- Rogers, Cyril B., and D. W. McKee, to Clark Equipment Co. Locking device for freight carrier. 2,956,835, 10-18-60, Cl. 296-35.
- Rogers, Donald F.: *See*—  
Snell, Jacob K., Rogers, and Rhoades. 2,957,623.
- Rogers, Donald L., 25% to W. T. Morgan. Pump liner adjuster. 2,963,984, 12-13-60, Cl. 103-216.
- Rogers, Donald P., and D. B. Staake, to United States of America, Navy. Low frequency spectrum and amplitude distribution analyzer. 2,958,822, 11-1-60, Cl. 324-77.
- Rogers, Douglas C., to International Standard Electric Corp. Electron velocity modulation apparatus. 2,944,181, 7-5-60, Cl. 315-3.5.
- Rogers, Dow A., Jr., to Westinghouse Electric Corp. Unsaturated compositions stabilized against copper and copper wires coated with said compositions. 2,921,873, 1-19-60, Cl. 117-232.
- Rogers, Dow A., Jr., to Westinghouse Electric Corp. Resinous reaction products of unsaturated polyesters organopolysiloxanes, and unsaturated monomers and electrical members insulated therewith. 2,937,230, 5-17-60, Cl. 174-121.
- Rogers, Edward S.: *See*—  
Hackley, Reginald A., and Rogers. 2,925,581.
- Rogers, Edmund, to The Engine Parts Mfg. Co. Method of stabilizing sprayable paints. Re. 24,863, 8-30-60, Cl. 106-190.
- Rogers, Elwood C., Jr. Photographic printing apparatus. 2,952,780, 9-13-60, Cl. 250-214.
- Rogers, Ernest C. Chip eliminator and stock saver plug. 2,961,740, 11-29-60, Cl. 29-57.
- Rogers Follansbee (Electric Heating & Cooling Co.): *See*—  
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- Rogers, Francis R.: *See*—  
Perkey, Russell C., and Rogers. 2,962,911.  
Williams, Howard J., and Rogers. 2,950,857.
- Rogers, Francis R., to The Bendix Corp. Compressor pressure limiter for gas turbine engines. 2,958,190, 11-1-60, Cl. 60-39.28.
- Rogers, Freeman P.: *See*—  
Pfumm, Heinz R., and Rogers. 2,947,078.
- Rogers, George S., to Super Oil Seal Mfg. Co., Ltd. Railway journal box seal. 2,958,551, 11-1-60, Cl. 286-6.
- Rogers, Gordon R.: *See*—  
Stoner, Harry B., Parre, and Rogers. 2,934,613.
- Rogers, Gordon R., to The Vendo Co. Vending mechanism for merchandise vending machines. 2,934,240, 4-26-60, Cl. 221-243.
- Rogers, Henry, and P. Stama, 1/2 to said Rogers and 1/2 to E. G. Deutsch. Mechanism for assembling slider to slide fastener chain. 2,949,666, 8-23-60, Cl. 29-211.
- Rogers, Howard H., to Williams-White & Co. Multiple opening press. 2,941,249, 6-21-60, Cl. 18-17.
- Rogers Industries, Inc.: *See*—  
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- Rogers, Jack A.: *See*—  
Cobel, George B., and Rogers. 2,963,360.
- Rogers, James G., to Hughes Aircraft Co. Electro-optical light shutter. 2,960,914, 11-22-60, Cl. 88-61.
- Rogers, John D., to Westinghouse Electric Corp. Bypass gas turbine power plant employing regenerative cycle. 2,930,190, 3-29-60, Cl. 60-39.18.
- Rogers, John L., to Bell Telephone Laboratories Inc. Magnetic memory device. 2,926,342, 2-23-60, Cl. 340-174.
- Rogers, Joseph N. Trap. 2,928,203, 3-15-60, Cl. 43-92.
- Rogers, Lesley B., to Contract Building Services, Inc. Mop heads. 2,940,108, 6-14-60, Cl. 15-229.
- Rogers, Louis J.: *See*—  
Spracklen, Stanford B., Martin, Rogers, Capehart, Fertig, and Fellows. 2,933,600.
- Rogers, Margaret. Foundation garment. 2,925,817, 2-23-60, Cl. 128-533.
- Rogers, Mortimer D., to International Business Machines Corp. Data handling system. 2,935,619, 5-3-60, Cl. 250-233.
- Rogers, Odus M., and H. A. Ramsey. Peanut harvester. 2,956,628, 10-18-60, Cl. 171-60.
- Rogers, Philip M.: *See*—  
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- Rogers, Raymond E. Insecticide applicator for animals. 2,946,310, 7-26-60, Cl. 119-157.
- Rogers, Robert W. Orthopedic device. 2,920,620, 1-12-60, Cl. 128-80.
- Rogers, Samuel C., to Bell Telephone Laboratories, Inc. Parallel transistor amplifiers. 2,941,154, 6-14-60, Cl. 330-29.
- Rogers, Stanley, and T. M. Dannback, to General Dynamics Corp. Current loss compensating device. 2,944,207, 7-5-60, Cl. 323-44.
- Rogers, Thomas C.: *See*—  
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- Rogers, Thomas G., to Southern Wood Preserving Co. Apparatus for trimming and sorting switch ties. 2,938,552, 5-31-60, Cl. 444-3.
- Rogers, Thomas M.: *See*—  
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- Rogers, William A., Jr.: *See*—  
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- Rogers, William J. Roll-ball amusement device having a rotatable goal. 2,954,230, 9-27-60, Cl. 273-117.
- Rogers, William L.: *See*—  
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- Rogerson, Harold S. Overwind stop for clock springs. 2,937,866, 5-24-60, Cl. 267-1.
- Rogerson, Walter A.: *See*—  
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- Roggan, Francis J., to Glar-Ban Corp. Lighting device for instrument panels. 2,963,571, 12-6-60, Cl. 240-8.16.
- Roggenburk, Earl G. Impact tool. 2,947,283, 8-2-60, Cl. 121-33.
- Roggenburk, Earl G. Motor operated, rotary impact tool. 2,961,903, 11-29-60, Cl. 81-523.
- Roggendorff, Martin P., to Klockner-Humboldt-Deutz Aktiengesellschaft. Spring-actuated starter for internal combustion engines. 2,919,770, 1-5-60, Cl. 185-41.
- Roggenstein, Edwin O., to Sperry Rand Corp. Typewriter ribbon guard and mounting. 2,930,469, 3-29-60, Cl. 197-151.
- Roggenstein, Edwin O., to Sperry Rand Corp. Automatic position indicator. 2,930,471, 3-29-60, Cl. 197-190.
- Roggenstein, Edwin O., to Sperry Rand Corp. Means for typing, verifying and printing. 2,938,952, 5-31-60, Cl. 178-17.
- Roggenstein, Edwin O., and R. E. Coleman, to Sperry Rand Corp. Proportional spacing typewriter. 2,954,861, 10-4-60, Cl. 197-84.
- Roggi, Porfirio E., and R. A. Chartier, to United States Rubber Co. Method of making plastic foam laminates. 2,964,799, 12-20-60, Cl. 18-59.
- Rogin, Milton: *See*—  
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- Rogoff, Mortimer: *See*—  
Busignies, Henri G., Adams, and Rogoff. 2,927,501.  
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- Rogoff, Mortimer, to McDermott Controls, Inc. Electrical instrument with thermistor sensing element. 2,926,299, 2-23-60, Cl. 323-68.
- Rogovin, Nancy R. Timing attachment for telephones. 2,941,350, 6-21-60, Cl. 58-144.
- Rogovin, Seymour P.: *See*—  
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- Rogowski, Frank J. Nippers for railroad ties. 2,923,252, 2-2-60, Cl. 104-17.
- Roh, Nikolaus: *See*—  
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- Rohacs, Etienne. Valves. 2,941,629, 6-21-60, Cl. 188-88.
- Rohatyn, Frederick S. Apparatus for cooling a device which produces heat during the operation thereof. 2,927,736, 3-8-60, Cl. 236-49.
- Rohdin, Howard A. Package and method of making same. 2,952,353, 9-13-60, Cl. 206-1.
- Rohl, Georg. Stripping device for bobbins, especially for the weft bobbins of looms. 2,941,278, 6-21-60, Cl. 28-20.
- Rohland, Paul G. Cable clamp for joining and holding wire cables and end loops thereof. 2,936,499, 5-17-60, Cl. 24-130.
- Rohland, William S.: *See*—  
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- Rohland, William S., and L. E. Bundy, Jr., to International Business Machines Corp. Time interval detection system. 2,956,264, 10-11-60, Cl. 340—149.
- Rohlfs, Hans A.: *See*—  
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- Rohlfs, John H., to Special Machine Co. Straightening machine. 2,938,563, 5-31-60, Cl. 153—32.
- Rohlfs, John H., to The McKay Machine Co. Profile milling machine. 2,944,466, 7-12-60, Cl. 90—13.
- Rohling, Heinz: *See*—  
Mauthe, Gustav, Graulich, and Rohling. 2,949,335.
- Rohloff, Ebbe, and L. Szecl, to Siemens-Schuckertwerke Aktiengesellschaft. Direct current to alternating current inverter. 2,949,565, 8-16-60, Cl. 315—98.
- Rohloff, Margaret J., 50% to E. Lammers. Pencil type eraser with catch all attachment for erasure debris. 2,933,066, 4-19-60, Cl. 120—36.
- Rohm & Haas Co.: *See*—  
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- Rohr, Milton C., to General Motors Corp. Carburetor air heating device. 2,946,575, 7-26-60, Cl. 261—14.
- Rohrbacher, Earl W., to General Motors Corp. Air cleaner silencer assembly. 2,963,111, 12-6-60, Cl. 183—44.
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- Roop, Cyril W., and S. E. Urban, to B.B. Chemical Co. Casting of thin cellular resin sheets. 2,956,310, 10-18-60, Cl. 18—57.
- Roop, Cyril W., C. Rossitto, and A. M. Chaplick, to B.B. Chemical Co. Manufacture of thin sheet foam. 2,957,207, 10-25-60, Cl. 18—57.
- Roos, Ernst F. Lober, and J. Koerner, to Farbenfabriken Bayer Aktiengesellschaft. Halogen containing polymers stabilized with a pyrazole. 2,946,765, 7-28-60, Cl. 260—45.8.
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- Root, Charles W., and E. M. Moss, to The Bendix Corp. Electrical apparatus. 2,966,568, 12-27-60, Cl. 200—87.
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- Roper, Daniel W., and S. Oldberg, to Eaton Mfg. Co. Engine accessory and drive mechanism therefor. 2,948,268, 8-9-60, Cl. 123—41.11.
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- Ropp, Richard C., to Sylvania Electric Products Inc. Cadmium pyrophosphate phosphor. 2,966,465, 12-27-60, Cl. 252—301.6.
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- Rosaen, Nils O. Industrial oil filter control unit. 2,936,731, 5-17-60, Cl. 116—117.
- Rosaen, Oscar E. Fluid pump. 2,937,599, 5-24-60, Cl. 103—120.
- Rosaen, Oscar E. Fluid pumps. 2,938,470, 5-31-60, Cl. 103—135.
- Rosaen, Oscar E. Fluid pumps or motors of the vane type. 2,941,479, 6-21-60, Cl. 103—136.
- Rosahl, Dietrich: *See—*  
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Malz, Hugo, and Rosahl. 2,962,475.
- Rosamilia, Peter L.: *See—*  
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Harvey, Mortimer T., and Rosamilia. 2,963,463.
- Rosan, Joseph. Pick quick collapsible file. 2,927,585, 3-8-60, Cl. 129—16.
- Rosan, Joseph. Lock ring drive tool. 2,932,082, 4-12-60, Cl. 29—275.
- Rosander, Conrad, to Bemis Bro. Bag Co. Bag. 2,959,343, 11-8-60, Cl. 229—62.5.
- Rosander, Milton A.: *See—*  
Hoberg, George G., Deighton, and Rosander. 2,922,135.
- Roschak, Henry J.: *See—*  
Glaser, Jerry, Kumm, Roschak, and Stoner. 2,956,502.
- Roschen, John, to Philco Corp. Semiconductor device and method of fabrication thereof. 2,930,949, 3-29-60, Cl. 317—235.
- Roschke, Erwin M.: *See—*  
Eilers, Carl G., and Roschke. 2,947,804.
- Roscoe, Howard E., to E. I. du Pont de Nemours and Co. Apparatus for making regenerated cellulose film. 2,925,088, 2-16-60, Cl. 134—64.
- Roscoe, John P. Roadway switch for traffic counting systems. 2,922,003, 1-19-60, Cl. 200—86.
- Roscoe, John S., and G. W. Schaeffer, to Olin Mathieson Chemical Corp. Preparation of addition product of lithium aluminum hydride and a tertiary alkyl amine. 2,955,126, 10-4-60, Cl. 260—448.
- Roscoe, Merrill W., and R. L. Beldin, to Deere & Co. Corn harvester. 2,957,293, 10-25-60, Cl. 56—18.
- Rose, Alan C.: *See—*  
Lewis, Willard D., and Rose. 2,954,433.
- Rose, Albert G.: *See—*  
Pickavance, William T., Brown, and Rose. 2,935,964.
- Rose, Arnold A. S., to Avro Aircraft Ltd. Fluid seal. 2,919,938, 1-5-60, Cl. 286—11.11.
- Rose, Arnold S., to Radio Corp. of America. Method of alloying semiconductor material. 2,943,005, 6-28-60, Cl. 148—1.5.
- Rose, Bertram L., to International Computers and Tabulators Ltd. Card feeding apparatus. 2,937,019, 5-17-60, Cl. 271—44.
- Rose, Boyd W., and H. W. Hart, said Rose assor. to Food Machinery and Chemical Corp. Poultry feeding system. 2,940,424, 6-14-60, Cl. 119—53.
- Rose, Carl: *See—*  
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- Rose, Charles F. P.: *See—*  
Kohman, Girard T., Miller, Rose, and Young. 2,966,643.
- Rose, Clarence P., to V. M. Rose. Shelf structure. 2,933,194, 4-19-60, Cl. 211—137.
- Rose, Clarence W. Cable connector for safety belts. 2,957,220, 10-25-60, Cl. 24—134.
- Rose, David J., to Bell Telephone Laboratories, Inc. Gas discharge protector for vacuum systems. 2,958,803, 11-1-60, Cl. 313—217.
- Rose, Elizabeth H.: *See—*  
Rose, Nelson P., and E. H. 2,939,224.
- Rose, George G. Tissue culture device. 2,942,520, 6-28-60, Cl. 88—40.
- Rose, George M., Jr., to Radio Corp. of America. Anode top-cap assembly for electron discharge devices. 2,962,619, 11-29-60, Cl. 313—246.
- Rose, Glenn R.: *See—*  
Demorest, Howard L., Frykman, Kelly, and Rose. 2,926,627.
- Rose, Grover D., Jr. Concrete pump. 2,926,614, 3-1-60, Cl. 103—148.
- Rose, Herbert: *See—*  
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Spingies, Erwin, and Rose. 2,960,225.  
Spingies, Erwin, and Rose. 2,961,546.
- Rose, Herbert S. Tie-down and wall ventilator. 2,931,215, 4-5-60, Cl. 72—98.
- Rose, Howard E., to Borg-Warner Corp. Pump. 2,925,040, 2-16-60, Cl. 103—37.
- Rose, Howard E. Pressure booster or de-booster. 2,935,952, 5-10-60, Cl. 103—45.
- Rose, Howard E., to Borg-Warner Corp. Selector valve with pressure balanced load holding poppet valve. 2,960,111, 11-15-60, Cl. 137—622.
- Rose, Howard L.: *See—*  
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- Rose, John A.: *See—*  
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- Rose, John E., to Stauffer Chemical Co. Constant current network level selector. 2,957,123, 10-18-60, Cl. 323—76.
- Rose, John J. Continuous ignition system for a turbojet engine. 2,938,147, 5-24-60, Cl. 315—160.
- Rose, John L., Jr.: *See—*  
Reeves, Howard F., Jr., Ingwalson, and Rose. 2,956,978.
- Rose, Joseph K. Adjustable rigid support for masts and towers. 2,933,165, 4-19-60, Cl. 189—31.4.
- Rose, Julian K., and H. W. Schulz, to Union Carbide Corp. Linear polymers containing regularly recurring ester and amide linkages. 2,946,769, 7-26-60, Cl. 260—75.
- Rose, Louis L. Pitching practice apparatus. 2,964,316, 12-13-60, Cl. 273—26.
- Rose, Martin. Synthetic resin clothes pin. 2,931,086, 4-5-60, Cl. 24—137.
- Rose, Nelson P., and E. H. Method and means for teaching manual skills. 2,939,224, 6-7-60, Cl. 35—29.
- Rose, Stanley E., and E. E. Heimo, to General Electric Co. Room air conditioner having vent control means. 2,950,667, 8-30-60, Cl. 98—94.



- Rose, Thomas E., to Beech-Nut Life Savers, Inc. Machines for unloading jars or the like from cartons. 2,935,215, 5-3-60, Cl. 214-304.
- Rose, Viola M.: *See*—
- Rose, Clarence F. 2,933,194.
- Rose, Warren C., to Wildman Jacquard Co. Knitting machine and method. 2,964,932, 12-20-60, Cl. 66-99.
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- Farmer, Fred, and Szerenyi. 2,932,064.
- Rosebrook, Roy, to Banstrom Industries, Inc. Tracer valve. 2,938,702, 5-31-60, Cl. 251-3.
- Rosebrook, Roy, to Banstrom Industries, Inc. Spool valve. 2,958,340, 11-1-60, Cl. 137-622.
- Rosebrook, Roy, to Banstrom Industries, Inc. Machine tool control. 2,960,071, 11-15-60, Cl. 121-41.
- Rosecrans, Stanley A.: *See*—
- Carlson, Charles L., and Rosecrans. 2,947,069.
- Roseman, Isadore M., to Cable Raincoat Co. Seam forming method and apparatus. 2,941,577, 6-21-60, Cl. 154-42.
- Roseman, Joseph C.: *See*—
- Kleineberg, Paul E., and Roseman. 2,922,171.
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- Rummery, Frank O., Roseman, and Gilbert. 2,950,984.
- Rosen, Bessie S.: *See*—
- Shelanski, Herman A. 2,931,777.
- Rosen, David: *See*—
- Barke, Albert H. 2,960,560.
- Rosen, George, to United States of America, Air Force. System for varying capacitance. 2,946,969, 7-26-60, Cl. 333-80.
- Rosen, Hyman. Corneal fabrication. 2,952,023, 9-13-60, Cl. 3-13.
- Rosen, Irving: *See*—
- Pyne, William J., Rosen, and Bluestone. 2,939,871.
- Rosen, Irving, to Diamond Alkali Co. Method of killing nematodes by treatment with 3-halo-2,3-dihydrothiophene-1,1-dioxide. 2,928,766, 3-15-60, Cl. 167-33.
- Rosen, Irving, to Diamond Alkali Co. Thiocyanate pesticide. 2,965,537, 12-20-60, Cl. 187-30.
- Rosen, Irving, and F. B. Slezak, to Diamond Alkali Co. Method of destroying bacteria employing substituted xylenes. 2,943,016, 6-28-60, Cl. 187-30.
- Rosen, Jack M.: *See*—
- Saltzman, Alvin R., and Rosen. 2,923,689.
- Rosen, Leo: *See*—
- Marsh, Lynn W., Jr., and Rosen. 2,959,349.
- Marsh, Lynn W., Jr., and Rosen. 2,959,734.
- Rosen, Louis W. Badges and pin-attaching means therefor. 2,930,154, 3-29-60, Cl. 40-15.
- Rosen, Milton: *See*—
- Levin, John B., Repella, and Rosen. 2,964,745.
- Rosen, Nathan: *See*—
- Neville, Richard S., and Rosen. 2,961,777.
- Rosen, Ruth. Plastic shoe. 2,924,029, 2-9-60, Cl. 36-7.1.
- Rosen, Samuel R.: *See*—
- Nord, Eric T., and Rosen. 2,936,959.
- Rosenbacher, Saul E., to Max Stern's Sons Co. Paper board display stand. 2,941,773, 6-21-60, Cl. 248-174.
- Rosenbaum, Chester K., and J. C. Tallman, to E. I. du Pont de Nemours and Co. Process of activating nickel-aluminum catalysts. 2,950,260, 8-23-60, Cl. 252-466.
- Rosenbaum, Danny M.: *See*—
- Campbell, Ivor E., and Rosenbaum. 2,935,399.
- Rosenbaum, Donald A. Valve assembly. 2,922,430, 1-26-60, Cl. 137-64.
- Rosenbaum, Harry S., to Eastern Products Corp. Fastening system. 2,963,130, 12-6-60, Cl. 189-36.
- Rosenbaum, Harry S., to Eastern Products Corp. Fastening system. 2,963,132, 12-6-60, Cl. 189-88.
- Rosenbaum, Jacob. Heat dissipating electronic mounting apparatus. 2,965,819, 12-20-60, Cl. 317-234.
- Rosenbaum, Robert, to Allied Chemical Corp. Oxidized polyethylene wax compositions of controlled high melt viscosities and process for preparing them. 2,943,069, 6-28-60, Cl. 260-23.
- Rosenbaum, Werner, to Champlain Co., Inc. Low temperature web drier. 2,932,092, 4-12-60, Cl. 34-159.
- Rosenberg, Adolf. Stabilized fat-soluble vitamin and method of making same. 2,937,091, 5-17-60, Cl. 99-2.
- Rosenberg, David L., to Boston Royal Petticoat Co. Maternity slip. 2,931,044, 4-5-60, Cl. 2-73.
- Rosenberg, David S., and E. Weil, to Hooker Chemical Corp. Process for making N-methyl pyrrole. 2,951,081, 8-30-60, Cl. 260-313.
- Rosenberg, Dewey W. Rotary trash rake. 2,938,324, 5-31-60, Cl. 56-27.
- Rosenberg, Edgar N. Tape transport mechanism. 2,946,585, 7-26-60, Cl. 271-23.
- Rosenberg, Ernst T.: *See*—
- Diczfalusy, Egon R., Fernö, Högberg, Linderot, and Rosenberg. 2,962,515.
- Fernö, Ove B., Fex, Linderot, Rosenberg, and Högberg. 2,962,495.
- Rosenberg, Hans R., to E. I. du Pont de Nemours and Co. Lipolic acid compositions. 2,933,430, 4-19-60, Cl. 167-53.
- Rosenberg, Harold W. Sectionalized metal chassis for electronic equipment. 2,942,749, 6-28-60, Cl. 220-4.
- Rosenberg, Jack, to General Dynamics Corp. Control system. 2,964,252, 12-13-60, Cl. 242-9.
- Rosenberg, Jack, A. F. Brewer, and T. J. Scuitto, to General Dynamics Corp. Reversible decade counter. 2,964,241, 12-13-60, Cl. 235-92.
- Rosenberg, Ludwig M.: *See*—
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- Rosenberg, Milton, to Radio Corp. of America. Trigger circuit. 2,920,191, 1-5-60, Cl. 250-27.
- Rosenberg, Milton, to Telemeter Magnetics, Inc. Shift register driving system. 2,936,446, 5-10-60, Cl. 340-174.
- Rosenberg, Milton, to Telemeter Magnetics, Inc. Memory system. 2,937,364, 5-17-60, Cl. 340-174.
- Rosenberg, Norman V., to Ionics, Inc. Electrodialysis demineralization. 2,937,126, 5-17-60, Cl. 204-180.
- Rosenberg, Philip, to United States of America, Army. Static thrust stand. 2,953,019, 9-20-60, Cl. 73-116.
- Rosenberger, Sanders D.: *See*—
- Gibbons, Ambrose J., Jr., and Rosenberg. 2,962,522.
- Rosenberger, Gerald B.: *See*—
- McKeon, John T., Jr., and Rosenberger. 2,930,908.
- Rosenberger, Gerald B., to International Business Machines Corp. Simultaneous carry adder. 2,966,305, 12-27-60, Cl. 235-175.
- Rosenberger, Harold E., and J. L. Goodyear, to Bausch & Lomb Optical Co. Preheating means for slide projectors. 2,949,815, 8-23-60, Cl. 88-28.
- Rosenberger, John, to R. T. Moloney, deceased; American National Bank and Trust Co. of Chicago, executor. Multipivot bowling pin with switch. 2,940,756, 6-14-60, Cl. 273-41.
- Rosenberger, John, to Lion Mfg. Corp. Selectively operable ball gate and switch means. 2,954,979, 10-4-60, Cl. 273-127.
- Rosenberger, Maurice S., to General Motors Corp. Seal. 2,927,808, 3-8-60, Cl. 286-11.16.
- Rosenberger, Maurice S., to General Motors Corp. Mechanical valve lash adjuster. 2,962,011, 11-29-60, Cl. 123-90.
- Rosenblad, Curt F. Multiple evaporation methods. 2,941,590, 6-21-60, Cl. 159-47.
- Rosenblatt, Bernard J., to Standard Yarn Mills Inc. Twisted metal staple and yarn formed therefrom. 2,963,850, 12-13-60, Cl. 57-139.
- Rosenbloom, Arnold: *See*—
- Trautman, De Forest L., Rosenbloom, and Hellfron. 2,951,295.
- Rosenblum, Charles: *See*—
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- Hitt, Otis D., Knapp, Johnson, and Rosenblum. 2,924,114.
- Rosenbusch, Kurt: *See*—
- Küntzel, Adolf, and Rosenbusch. 2,955,012.
- Rosenbush, Fred M.: *See*—
- Beggs, John C., and Rosenbush. 2,963,878.
- Rosencrans, Charles A., to Radio Corp. of America. Frequency modulation limiter which does not detune associated tuned circuit. 2,932,734, 4-12-60, Cl. 250-20.
- Rosendahl, Russell E., 25% to F. J. Rief, Sr. and 25% to F. J. Rief, Jr. Adjustable reciprocating mechanical movement. 2,933,929, 4-26-60, Cl. 74-37.
- Rosene, Robert B., and J. F. Eberhard, to The Dow Chemical Co. Well bore photography. 2,953,979, 9-27-60, Cl. 95-11.
- Rosenfeld, Azriel, and B. Berkowitz, to Sperry Rand Corp., Ford Instrument Co. Division. Optical radar simulator. 2,941,311, 6-21-60, Cl. 35-10.4.
- Rosenfeld, Henry, to American Lantern and Mfg. Co. Recessed lighting fixtures. 2,925,490, 2-16-60, Cl. 240-78.
- Rosenfeld, Myer: *See*—
- Pickett, Charles F., and Rosenfeld. 2,961,291.
- Pickett, Charles F., and Rosenfeld. 2,961,292.
- Pickett, Charles F., Wagner, and Rosenfeld. 2,929,789.
- Rosenfeld, William D., to California Research Corp. Petroleum prospecting method. 2,921,003, 1-12-60, Cl. 195-103.5.
- Rosenfeldt, Gunther J. T.: *See*—
- Helle, Fritz K., and Rosenfeldt. 2,951,773.
- Rosenhagen, Carl E. Lap assembly. 2,942,386, 6-28-60, Cl. 51-184.3.
- Rosenhagen, William: *See*—
- Vegliante, Donald E., Sherwood, Rosenhagen, and Wicks. 2,939,712.
- Rosenholm, Johannes U. Gravity weighted spirits for spirit levels. 2,948,066, 8-9-60, Cl. 33-211.
- Rosenkrands, Johannes, to General Motors Corp. Semi-independent vehicle wheel suspension. 2,963,301, 12-8-60, Cl. 280-124.
- Rosenkranz, Carl-Georg, and W. Schwarzwälder, to Firma Halstenbach & Co. Thread winding frames. 2,964,254, 12-13-60, Cl. 242-27.
- Rosenkranz, George: *See*—
- Djerassi, Carl, Ringold, Sondheimer, and Rosenkranz. 2,940,989.
- Djerassi, Carl, and Rosenkranz. 2,925,428.
- Djerassi, Carl, Rosenkranz, and Romo. 2,924,596.
- Djerassi, Carl, Sondheimer, and Rosenkranz. 2,945,028.
- Djerassi, Carl, Sondheimer, Sandoval, and Rosenkranz. 2,925,427.
- Ringold, Howard J., Bowers, Mancera, and Rosenkranz. 2,951,840.
- Ringold, Howard J., Iriarte, and Rosenkranz. 2,921,064.
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- Ringold, Howard J., and Rosenkranz. 2,947,762.
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- Rosenkranz, George: *See*—Continued  
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 Sondheimer, Franz, Mancera, and Rosenkranz. 2,937,191.  
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 Rosenkranz, George, J. Romo, and C. Djerassi, to Syntex S.A. Cyclopentanophenanthrene derivatives and process. 2,946,784, 7-26-60, Cl. 260—239.55.  
 Rosenoer, Jacques: *See*—  
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 Rosenquist, Paul A., and R. R. Yaegle, to Deluxe Metal Products Co. Book stall including rail supporting adapter structure. 2,959,294, 11-8-60, Cl. 211—45.  
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 Rosenthal, Adolph H., to Fairchild Camera and Instrument Corp. Light-modulator display means. 2,943,315, 6-28-60, Cl. 343—17.  
 Rosenthal, Arnold J., to Celanese Corp. of America. Corrosion inhibition. 2,927,031, 3-1-60, Cl. 106—14.  
 Rosenthal, Charles W., to Bell Telephone Laboratories, Inc. Magnetic core memory circuits. 2,922,988, 1-26-60, Cl. 340—174.  
 Rosenthal, Henry. Folding wing projectile. 2,961,928, 11-29-60, Cl. 89—17.  
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 Rosenthal, Joseph S., to Cisco, Inc. Wearing apparel. 2,939,150, 6-7-60, Cl. 2—81.  
 Rosenthal, Leighton A.: *See*—  
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 Rosenthal, Louis A., to Union Carbide Corp. Continuous measuring apparatus and method. 2,940,040, 6-7-60, Cl. 324—71.  
 Rosenthal, Morey L. Method of packaging frozen meats. 2,955,043, 10-4-60, Cl. 99—169.  
 Rosenthal, Murray W., to Pyrope, Inc. Antiseptic toothbrushes. 2,939,164, 6-7-60, Cl. 15—159.  
 Rosenthal, Norman A., J. R. Panek, and K. R. Cranker, to Thiokol Chemical Corp. Curing of polysulfide polymers with manganite coated MnO<sub>2</sub>. 2,940,959, 6-14-60, Cl. 260—79.1.  
 Rosenthal, Paul, to American Optical Co. Electrical control for micro-film projector. 2,933,978, 4-26-60, Cl. 88—24.  
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 Rosenthal, Robert, to Industrial Instruments, Inc. Conductivity cell. 2,939,070, 5-31-60, Cl. 324—30.  
 Rosenthal, Samuel, deceased (by L. A. Rosenthal and C. R. Kramer, executor and executrix), and W. C. Rupp; said Rupp assor. to the estate of S. Rosenthal. Pressing machine. 2,956,714, 10-18-60, Cl. 223—74.  
 Rosenthal, Waldemar A., and H. A. Pinkalla, to American Bio-Synthetics Corp. Food flavoring composition and method of enhancing the flavor of foods. 2,928,740, 3-15-60, Cl. 99—17.  
 Rosenthal, Waldemar A., and H. A. Pinkalla, to Chr. Hansen's Laboratory, Inc. Method of stabilizing the flavor of foods and the resulting product. 2,946,688, 7-26-60, Cl. 99—97.  
 Rosenthal, William. Nursing brassieres. 2,925,816, 2-23-60, Cl. 128—461.  
 Rosentrater, Fred W. Pump with dual rotors. 2,934,260, 4-26-60, Cl. 230—141.  
 Rosenvold, Carl. Transposing plate. 2,936,330, 5-10-60, Cl. 174—147.  
 Rosenwald, Robert H., to Universal Oil Products Co. Use of metal deactivator in fatty materials. 2,921,856, 1-19-60, Cl. 99—163.  
 Rosenwald, Robert H., and E. H. Valance, to Universal Oil Products Co. Preparation of dialkyl substituted aromatic compounds. 2,950,335, 8-23-60, Cl. 260—671.  
 Rosenwald, Robert H., and J. A. Chenicek, to Universal Oil Products Co. Rubber stabilized with N-sec-alkyl-P-amino-phenols. 2,960,487, 11-15-60, Cl. 260—45.9.  
 Rosenwald, Robert H., and W. K. T. Gleim, to Universal Oil Products Co. Preparation of antioxidants from wood tar distillate. 2,960,539, 11-15-60, Cl. 260—613.  
 Rosenwinkel, Henry P. Revolving antenna support. 2,929,593, 3-22-60, Cl. 248—45.  
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 Roser, Louis A. and G. A. Apparatus for quick freezing food items. 2,920,462, 1-12-60, Cl. 62—374.  
 Rosholt, Gordon T., to Minneapolis-Honeywell Regulator Co. Electromechanical elements. 2,939,673, 6-7-60, Cl. 251—139.  
 Roshon, Carl T., to Crown Zellerbach Corp. Standing supports for collapsible retaining sheets employing flanged metal pallet legs. 2,953,339, 9-20-60, Cl. 248—120.  
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 Rosier, Gerardus, and M. M. A. A. G. Verstraeten, to North American Philips Co., Inc. Circuit for controlling the resonance frequency of an oscillatory circuit. 2,951,995, 9-8-60, Cl. 332—16.  
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 Rosin, Seymour: *See*—  
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 Rosin, Seymour, to Scanoptic, Inc. Anamorphic lens system. 2,944,464, 7-12-60, Cl. 88—57.  
 Rosinski, Edward J., to Socony Mobil Oil Co., Inc. Preparation of phosphate-containing alumina gels. 2,938,874, 5-31-60, Cl. 252—437.  
 Rösler, Walter. Wire net making machine for simultaneously making several wire nets from unilaterally crossing longitudinal wire webs, etc. 2,962,059, 11-29-60, Cl. 140—112.  
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 Rosmarin, Philip F., to John H. Breck, Inc. Temporary hair coloring composition. 2,960,443, 11-15-60, Cl. 167—88.  
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 Rösner, Oskar, to Cleveite Corp. Method for the recovery of alkaline solutions containing germanium. 2,949,340, 8-16-60, Cl. 23—51.  
 Rosoff, Arthur M. Feed container-dispenser. 2,943,600, 7-5-60, Cl. 119—18.  
 Rosolia, Louis, and P. De Mauro, to Globe Lighting Products, Inc. Polishing machines. 2,950,493, 8-30-60, Cl. 15—21.  
 Ross, Arthur C. Electrical robot dueler. 2,957,693, 10-25-60, Cl. 273—95.  
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 Nye, Dudley D., and Ross. 2,932,777.  
 Ross, Edward J., and C. H. Elbreder. Composition and method for treatment of caged pet birds. 2,946,685, 7-26-60, Cl. 99—4.  
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 Ross, Edward O. Grain separator. 2,947,416, 8-2-60, Cl. 209—28.  
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 Ross, Ethel M. Scarf and method of forming the same. 2,942,274, 6-28-60, Cl. 2—91.  
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 Ross, Frank S. Die operating mechanism for a casting machine. 2,923,986, 2-9-60, Cl. 22—65.  
 Ross, Frederick W. Electrical aerodynamic aircraft control system. 2,958,484, 11-1-60, Cl. 244—77.  
 Ross, George E., to The Galion Iron Works & Mfg. Co. Hydraulic control for motor graders. 2,960,829, 11-22-60, Cl. 60—52.  
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 Ross, Harold M. Mouthpiece. 2,919,693, 1-5-60, Cl. 128—136.  
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 Ross, Herbert J., to Imperial Chemical Industries Ltd. Sealing device. 2,946,476, 7-26-60, Cl. 220—45.  
 Ross, Howard S. Inertia responsive shock absorber arrangement for vehicle. 2,957,703, 10-25-60, Cl. 280—124.  
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 Ross, Hugh N., to American Instrument Co., Inc. Relative humidity measuring apparatus. 2,966,061, 12-27-60, Cl. 73—336.5.



- Ross, Ian M., and F. M. Smits, to Bell Telephone Laboratories, Inc. Semiconductive current limiters. 2,959,504, 11-8-60, Cl. 148-33.
- Ross, James A., to Ling Electronics Inc. Power controlling electrical circuit. 2,935,671, 5-3-60, Cl. 318-128.
- Ross, James A., to Ling-Altec Electronics, Inc. Displacement-acceleration control circuits. 2,935,672, 5-3-60, Cl. 318-128.
- Ross, James A., to Ling-Altec Electronics, Inc. Four pole transducer. 2,944,194, 7-5-60, Cl. 317-123.
- Ross, James F.: *See*—  
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- Neal, Arthur H., and Ross. 2,928,817.
- Ross, James F., to Esso Research and Engineering Co. Polymerization diluent purification process. 2,943,123, 6-28-60, Cl. 260-674.
- Ross, James F., and E. M. Gladrow, to Esso Research and Engineering Co. Removal of metal contaminants in polymerization processes. 2,929,808, 3-22-60, Cl. 260-94.9.
- Ross, Jasper. Shoe safety heel. 2,920,404, 1-12-60, Cl. 36-61.
- Ross, John. Interchangeable shoe shine kits. 2,957,194, 10-25-60, Cl. 15-265.
- Ross, John M.: *See*—  
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- Ross, Karl F. Radiolocation system. 2,920,320, 1-5-60, Cl. 343-12.
- Ross, Karl F. Radio location and warning system. 2,923,005, 1-26-60, Cl. 343-14.
- Ross, Karl F. Diversity transmission system for beyond-the-horizon signaling. 2,966,583, 12-27-60, Cl. 250-6.
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- Ross, Milton E.: *See*—  
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- Ross Operating Valve Co.: *See*—  
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- Ross, Perry, to Ford Motor Co. Vehicle seat construction. 2,919,743, 1-5-60, Cl. 155-5.
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- Aiken, William R. 2,952,835.
- Ross, Ralph C.: *See*—  
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- Ross, Ralph R. Fastening apparatus. 2,925,748, 2-23-60, Cl. 78-48.
- Ross, Robert R., to W. Phillips. Oil separator and return apparatus. 2,959,934, 11-15-60, Cl. 62-192.
- Ross, Robert R., to Wayland Phillips. Balanced circulating system for refrigeration. 2,966,043, 12-27-60, Cl. 62-174.
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- Schwarz, Meyer, and Ross. 2,934,682.
- Ross, Sidney D., to Sprague Electric Co. Electrolytes. 2,934,681, 4-26-60, Cl. 317-230.
- Ross, Sidney D., to Sprague Electric Co. Electrolytic capacitor. 2,965,816, 12-20-60, Cl. 317-230.
- Ross, Sidney D., and W. M. Allison, to Sprague Electric Co. Stabilized dielectric compositions. 2,935,667, 5-3-60, Cl. 317-258.
- Ross, Sidney D., W. J. Bernard, and M. Markarian, to Sprague Electric Co. Method of making an electrolyte. 2,941,946, 6-21-60, Cl. 252-62.2.
- Ross, Steven W., and E. Tochlin, to United States of America, Navy. Fast neutron film dosimeter. 2,933,605, 4-19-60, Cl. 250-83.1.
- Ross-Tacony Crucible Co.: *See*—  
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- Ross, Thaddeus C.: *See*—  
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- Ross, Walter C. J., J. L. Everett, and J. J. Roberts, to National Research Development Corp. NN-di-chloroethylaminobutyrate and preparation thereof. 2,944,079, 7-5-60, Cl. 260-518.
- Ross, William A., to Dura Corp. Brake tester. 2,940,307, 6-14-60, Cl. 73-122.
- Ross, William C.: *See*—  
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- Ross, William J., and W. A. Walker, to United States of America, Navy. Combination dolly-launcher for missiles. 2,949,823, 8-23-60, Cl. 89-1.7.
- Rossa, Giovanni. Metal panel for forming envelopes subjected to high temperatures. 2,962,131, 11-29-60, Cl. 189-34.
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- Rossell, William T., to Transit Research Corp. Rail truck. 2,950,689, 8-30-60, Cl. 105-133.
- Rossell, William T., to Transit Research Corp. Railway truck. 2,957,433, 10-25-60, Cl. 105-197.
- Rossetto, Louis, and L. Miaskoff, to Davidson Corp. Plate clamp for printing machine. 2,935,937, 5-10-60, Cl. 101-132.5.
- Rosshelm, David B., to The M. W. Kellogg Co. Method for fabricating vessels. 2,962,182, 11-29-60, Cl. 220-3.
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- Hoffmann, Karl, Hunger, Kebrle, and Rossi. 2,945,044.
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- Rossi, Giovanni. Steam generator provided with exchangers in series. 2,964,025, 12-13-60, Cl. 122-421.
- Rossi, Jerry C. S. Convertible article of furniture. 2,953,793, 9-27-60, Cl. 5-355.
- Rossi, Joseph: *See*—  
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- Rossi, William J.: *See*—  
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- Rossin, Elmer H.: *See*—  
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- Rossin, Elmer H., and M. J. Scott, to Monsanto Chemical Co. Fire-retardant cellulosic compositions and process for producing fire-retardant cellulosic structures therefrom. 2,952,880, 9-20-60, Cl. 18-57.
- Rossin, Elmer H., and M. J. Scott, to Monsanto Chemical Co. Fire-retardant cellulosic compositions and process for producing fire-retardant cellulosic structures therefrom. 2,953,463, 9-20-60, Cl. 106-15.
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- Rossire, Francis H. S., to Bendix Aviation Corp. Manual controller for automatic steering systems. 2,923,502, 2-2-60, Cl. 244-83.
- Rossitto, Conrad: *See*—  
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- Roop, Cyril W., Rossitto, and Chaplick. 2,957,207.
- Rossiter, Geoffrey W. Display and amusement devices. 2,924,036, 2-9-60, Cl. 40-133.
- Rossman, Edwin F., to General Motors Corp. Rod seal for shock absorber. 2,943,711, 7-5-60, Cl. 188-100.
- Rossman, Edwin F., to General Motors Corp. Device to prevent movement beyond predetermined rate. 2,944,638, 7-12-60, Cl. 188-96.
- Rossman, Norton L. Insulating container. 2,954,913, 10-1-60, Cl. 229-14.
- Rosso, Mario. Fountain pens. 2,952,242, 9-13-60, Cl. 120-42.03.
- Rost, Berthold: *See*—  
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- Rostas, Ernest, to Compagnie Francaise Thomson-Houston. High frequency electric discharge devices. 2,953,714, 9-20-60, Cl. 315-39.63.
- Rostenberg, Adolph, Jr., to The University of Illinois Foundation. Method of inhibiting perspiration and compositions therefor. 2,962,420, 11-29-60, Cl. 167-90.
- Rostron, Frank, to Newman, Hender and Co. Ltd. Egg handling plant. 2,952,106, 9-13-60, Cl. 53-55.
- Roszkowski, Theodore R.: *See*—  
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- Lambert, Harold L. 2,950,732.
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- Rote, Richard S., to Lukens Steel Co. Method of making corrosion resistant clad steel plate. 2,943,388, 7-5-60, Cl. 29-471.5.
- Rote, William A., K. C. Mathews, and J. P. Burgarella, to Minneapolis-Honeywell Regulator Co. Electrical apparatus. 2,932,799, 4-12-60, Cl. 330-10.
- Rotelli, Antonio. Heel structure for high-heeled ladies' foot-wears. 2,938,283, 5-31-60, Cl. 36-34.
- Roters, Herbert C., to Casner Patents, Inc. Hysteresis motor rotor. 2,953,700, 9-20-60, Cl. 310-261.
- Roth, Alan, to Hess, Goldsmith & Co. Process for selectively coloring glass fabric and resultant article. 2,955,053, 10-4-60, Cl. 117-37.
- Roth, Andre: *See*—  
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- Roth, Arthur: *See*—  
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- Roth, Barbara: *See*—  
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- Roth, Curt B., L. Horwitz, and H. Levine, to General Aniline & Film Corp. 2-methyl-6- $\beta$ -cyanoethoxy-benzothiazoles as sensitizing dye intermediates. 2,928,839, 3-15-60, Cl. 280-304.



- Roth, Ernest J., to Joe Lowe Corp. Tray or screen for proofing and cooling bakery products. 2,919,824, 1-5-60, Cl. 214-312.
- Roth, Eugene: See—  
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- Roth, Grant V. W.: See—  
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- Roth, Harold. Women's sanitary panties. 2,954,770, 10-4-60, Cl. 128-288.
- Roth, Herman P., and C. F. Lombard, to United Tanks, Inc. Protective helmet. 2,923,941, 2-9-60, Cl. 2-3.
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- Roth, Murray H.: See—  
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- Roth, Otto W., and C. W. Tilley. Pick strand nylon rope splicing tool. 2,954,659, 10-4-60, Cl. 57-23.
- Roth, Otto W., and C. W. Tilley. Pick strand cable splicing tool. 2,954,660, 10-4-60, Cl. 57-23.
- Roth, Otto W. Heat oven reflector type. 2,963,567, 12-6-60, Cl. 219-35.
- Roth, Paul L.: See—  
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- Roth, Robert I., to International Business Machines Corp. Data processing machine. 2,937,363, 5-17-60, Cl. 340-173.
- Roth, Robert I., to International Business Machines Corp. Data storage device using electrically responsive fluid. 2,939,113, 5-31-60, Cl. 340-173.
- Roth, Robert N. Analog to digital transducer. 2,935,249, 5-3-60, Cl. 235-1.
- Roth, Roy W., and D. E. Nagy, to American Cyanamid Co. Concrete containing polymers of alkylidene bisacrylamide and process of making. 2,948,699, 8-9-60, Cl. 260-41.
- Roth, Walter, and R. E. Grande, to General Electric Co. Incandescent lamp. 2,928,977, 3-15-60, Cl. 313-222.
- Roth, Walter J. H.: See—  
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- Roth, Willard, and T. L. Case, to Sunbeam Equipment Corp. Heat-treating furnace. 2,926,902, 3-1-60, Cl. 266-3.
- Roth, William W. Conductor spreaders and ladder hangers. 2,963,104, 12-6-60, Cl. 182-46.
- Rothe, Heinrich C. Space vehicle guidance mechanism and method. 2,963,243, 12-6-60, Cl. 244-14.
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- Rothenberg, Hansjorg. Apparatus for packing rollable containers. 2,919,525, 1-5-60, Cl. 53-52.
- Rothenberg, Jakob. Ironing apparatus. 2,946,147, 7-26-60, Cl. 38-2.
- Rothermel, Edward M., to The Dayton Rubber Co. Method for manufacturing flexible conduits. 2,941,571, 6-21-60, Cl. 154-8.
- Rothermel, Edward M., and R. B. Waddell, Jr., to The Dayton Rubber Co. Method of making a reinforced corrugated hose. 2,927,625, 3-8-60, Cl. 154-8.
- Rothermel, Edward M., and R. B. Waddell, Jr., to Dayco Corp. Flexible conduit. 2,949,133, 8-16-60, Cl. 138-56.
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- Rothrock, Ivan W. Machine to prepare precisely the edges of sheet material for veneering and the like. 2,948,312, 8-9-60, Cl. 143-55.
- Rothweiler, Alfred F., and A. Mischke, to Daimler-Benz Aktiengesellschaft. Elastic suspension of a drive aggregate in a motor vehicle. 2,929,461, 3-22-60, Cl. 180-64.
- Rothweiler, Friedrich P., Greif, and F. Eggert, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Manufacture of alkyl chlorination products. 2,941,014, 6-14-60, Cl. 260-662.
- Rotman, Walter. Electro-mechanically scannable trough waveguide transmission lines and antennas. 2,943,325, 6-28-60, Cl. 343-762.
- Rotman, Walter. Variable conductance trough waveguide antennas. 2,957,173, 10-18-60, Cl. 343-772.
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- Rotow, Alexander A., and E. A. Dymacek, to Radio Corp. of America. Electron multiplier. 2,942,132, 6-21-60, Cl. 313-103.
- Rott, Horst-Gunther, C. F. Gruber, W. Beha, and R. Ankert, to Schoeller & Co., Elektrotechnische Fabrik. Cigarette dispenser with electric lighting device. 2,936,930, 5-17-60, Cl. 221-15.
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- Roubal, Alexander J., to Allis-Chalmers Mfg. Co. Vibrating mechanism. 2,928,544, 3-15-60, Cl. 209-367.
- Roubal, Alexander J., to Allis-Chalmers Mfg. Co. Jaw crusher. 2,960,276, 11-15-60, Cl. 241-219.
- Rouban, Basile, to Societe Anonyme dite: Les Successeurs de B. Trayvou. Semi-automatic weight make-up device for weighing pulverulent or fine granulous products. 2,927,764, 3-8-60, Cl. 249-60.
- Roubian, Vahe S. Denture adjustment device. 2,929,143, 3-22-60, Cl. 32-1.
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- Roudy, Zola D., and N. R. H. Ormond, to Armour and Co. Cheese products and method for the manufacture thereof. 2,956,885, 10-18-60, Cl. 99-116.
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- Rousseau, Sylvia. Combined garment hanger and stretcher. 2,958,447, 11-1-60, Cl. 223-69.
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- Roux, Pierre, to Etablissements L. Morane Societe Anonyme. Machines for shaping sheet metal. 2,945,528, 7-19-60, Cl. 153-32.
- Rove, Gene, and P. H. Borden, to Carol Campbell Enterprises, Inc. Elapsed-time meter. 2,932,154, 4-12-60, Cl. 58-146.
- Rover Co. Ltd., The: *See*—  
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- Rovere, Guerino D. Ornamental-illuminating request-for-service-indicating lamp. 2,935,041, 5-3-60, Cl. 116-132.
- Rovner, Samuel, H. Morgen, and H. C. Kreinick. Beer cooler and dispenser. 2,928,257, 3-15-60, Cl. 62-264.
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- Rowan, Henry A., to Magnus Chemical Co., Inc. Portable apparatus for cleaning industrial parts. 2,959,178, 11-8-60, Cl. 134-141.
- Rowan, Timothy J., to The Indium Corp. of America. Manufacture of indium spheres. 2,952,868, 9-20-60, Cl. 18-1.
- Rowan, William H.: *See*—  
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- Rowe, Carl B.: *See*—  
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- Rowe, Carl H.: *See*—  
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- Rowe, Dale H., and R. R. Jackwig, to Rowe Mfg. Co. Glass panels for overhead door. 2,956,314, 10-18-60, Cl. 20-36.
- Rowe, Frank E., Jr., to Deering Milliken Research Corp. Spindle mounting. 2,954,661, 10-4-60, Cl. 57-132.
- Rowe, George L., and H. P. Spindler. Lawn mower. 2,926,926, 3-1-60, Cl. 280-43.2.
- Rowe, George L., and H. P. Spindler. Wheel-adjusting mechanisms for lawn mowers. 2,948,544, 8-9-60, Cl. 280-43.13.
- Rowe, Gilbert, to Esso Research and Engineering Co. Fuel oil distribution system. 2,922,469, 1-26-60, Cl. 158-36.
- Rowe, Harry C., to Stewart-Warner Corp. Ultra high frequency tuner. 2,945,189, 7-12-60, Cl. 331-98.
- Rowe Mfg. Co., Inc.: *See*—  
Ambrose, John J. 2,954,632.  
Dubois, Harry G. 2,957,603.  
Du Bois, Harry G. 2,965,262.  
Gabrielsen, Christian. 2,923,392.  
Gabrielsen, Christian. 2,923,434.  
Gabrielsen, Christian. 2,957,568.  
Gabrielsen, Christian. 2,957,605.  
Gabrielsen, Christian, and Ericson. 2,923,433.  
Rowe, Dale H., and Jackwig. 2,956,314.
- Rowe, Mark R.: *See*—  
Dietrich, Howard H., Hiller, Lay, Rowe, and Zeisloft. 2,943,441.
- Rowe, Oliver R.: *See*—  
Wilson, Robert W., and Rowe. 2,944,495.
- Rowell, Edward L.: *See*—  
Merting, Karl, Rowell, and Craver. 2,942,506.
- Rowen, John H., to Bell Telephone Laboratories, Inc. Non-reciprocal wave transmission. 2,958,055, 10-25-60, Cl. 333-31.
- Rowland, Ben W., to Georgia Kaolin Co. Clay products and method of reducing clay viscosity. 2,950,983, 8-30-60, Cl. 106-288.
- Rowland, Dan R., to General Motors Corp. Joint closure. 2,942,902, 6-28-60, Cl. 287-90.
- Rowland, Frederick T., and W. F. Perdue, to Rockwell-Standard Corp. Leaf spring insert. 2,920,884, 1-12-60, Cl. 267-49.
- Rowland, Roy A. Window sill and head tension guide. 2,927,356, 3-8-60, Cl. 20-52.2.
- Rowland, Stanley P., and H. Braus, to National Distillers and Chemical Corp. Composition comprising polyethylene and an alkylol amide. 2,956,979, 10-18-60, Cl. 260-32.6.
- Rowland, Stanley P., and R. F. Conyne, to Rohm & Haas Co. Resinous compositions containing epoxidized vegetable oils. 2,963,455, 12-6-60, Cl. 260-23.
- Rowland, Stanley P., and E. M. Beavers, to Rohm & Haas Co. Epoxihexahydrophthalates and endoalkyleneoxyhexahydrophthalates. 2,963,490, 12-6-60, Cl. 260-348.
- Rowlands, Daniel C., to Air Reduction Co., Inc. Nitrite ester of methyl butynol. 2,955,131, 10-4-60, Cl. 260-466.
- Rowlands, Daniel C., and D. E. Neunherz, to Air Reduction Co., Inc. Lubricating oils containing esters of acetylenic alcohols. 2,959,553, 11-8-60, Cl. 252-56.
- Rowlands, Tom: *See*—  
Molins, Desmond W., and Rowlands. 2,935,069.  
Molins, Desmond W., Rowlands, and Byrne. 2,963,026.
- Rowlands, Tom, to Molins Machine Co. Ltd. Manufacture of mouthpiece cigarettes. 2,942,606, 6-28-60, Cl. 131-94.
- Rowlands, Tom, and E. Luddington, to Molins Machine Co., Ltd. Winding apparatus. 2,939,645, 6-7-60, Cl. 242-56.
- Rowlett, Willard A.: *See*—  
Pritchard, Arnold J., and Rowlett. 2,933,336.
- Rowley, Frank A.: *See*—  
Smith, Eric W. A., and Rowley. 2,949,523.
- Rowley, George A., to Plastic Binding Corp. Combined punching and uncurling machine. 2,935,752, 5-10-60, Cl. 11-1.
- Rowley, Lothair H., to Sperry Rand Corp., Ford Instrument Co. Division. Digital to analog converter. 2,950,472, 8-23-60, Cl. 340-347.
- Rowley, Robert J., to Collins Radio Co. Negative and positive noise limiter. 2,961,532, 11-22-60, Cl. 250-20.
- Rowls, Garth A.: *See*—  
Doyle, John M., and Rowls. 2,942,055.  
Doyle, John M., and Rowls. 2,942,059.
- Rowth, Olin A.: *See*—  
Snyder, John M., Rowth, and Lee. 2,945,765.
- Rowton, Harold S., C. Shaw, and R. Robertson. Machines for filleting fish. 2,930,076, 3-29-60, Cl. 17-3.
- Roxburgh, Allan G. Pressure fluid control valves. 2,960,073, 11-15-60, Cl. 121-46.5.
- Roxy, Frank C. Process of and apparatus for shaping metal strips being held under tension. 2,935,110, 5-3-60, Cl. 153-2.
- Roy, Francis C.: *See*—  
Johnston, Donald L., and Roy. 2,930,832.
- Roy, Frank P., and R. L. Sallo, to United States Steel Corp. Contact element for electrolytic processing of wire and the like. 2,946,734, 7-26-60, Cl. 204-279.
- Roy, Frank P., and R. L. Sallo, to United States Steel Corp. Grommet for guiding wire and the like. 2,961,691, 11-29-60, Cl. 16-2.
- Roy, Gerard E. Fire starting device. 2,963,081, 12-6-60, Cl. 158-10.
- Roy, Maurice, to Office National d'Etudes et de Recherches Aeronautiques (O.N.E.R.A.). Shock wave compressors, especially for use in connection with continuous flow engines for aircraft. 2,935,246, 5-3-60, Cl. 230-120.
- Roy, Milton, Co.: *See*—  
Sallfrank, Royal B. 2,951,446.  
Schneider, George W., Jr. 2,950,396.
- Roy, Robert: *See*—  
Orloff, George, Roy, Cooper, and Langdon. 2,943,819.
- Roy, Robert, to British Messier Ltd. Aircraft undercarriage leg. 2,942,809, 6-28-60, Cl. 244-104.
- Roy, William A.: *See*—  
Fassak, John, Jr., and Roy. 2,957,956.
- Royal Appliance Mfg. Co.: *See*—  
Kasper, Elmer J. 2,964,236.
- Royal Container Co.: *See*—  
Wilson, Harry W., and Dornbush. 2,947,125.
- Royal, Edward F. Adhesive coated decorated sheet material. 2,956,703, 10-18-60, Cl. 216-62.
- Royal Electric, Inc.: *See*—  
Boyer, Raymond W. 2,923,247.  
Boyer, Raymond W. 2,953,098.  
Danesi, Paul P. 2,965,875.
- Royal Industries, Inc.: *See*—  
Hutchinson, Davis, and Bassotti. 2,930,244.
- Royal-McBee Corp.: *See*—  
Cetran, Louis, and Arthur. 2,925,577.  
Cetran, Louis, and Arthur. 2,940,386.  
D'Onofrio, Anthony, Cetran, and Lapointe. 2,941,646.  
Frechette, Leo P., Jr. 2,945,577.  
Hebert, Donald G. 2,946,237.  
Khalil, Seyed. 2,940,575.  
Lambert, Harry L. 2,946,422.  
Lambert, Harry L., Page, and Snyder. 2,932,375.  
Lapointe, Lloyd J., D'Onofrio, and Cetran. 2,945,576.  
Perez, Guillermo. 2,934,193.  
Perez, Guillermo, Dreher, and Arthur. 2,965,170.  
Rivers, George D. 2,927,985.  
Scribner, Albert W. 2,946,380.  
Snyder, Alton G., Lambert, and Page. 2,964,108.  
Von Kummer, Ferdinand G., and Gallagher. 2,943,312.  
Von Kummer, Ferdinand G., and Santucci. 2,932,796.  
Zimmerman, Arthur A. 2,949,994.
- Royalist Provision Co.: *See*—  
Zitin, Arnold. 2,937,092.  
Zitin, Arnold. 2,937,095.
- Royalty Holding Corp.: *See*—  
Hovorka, Jiri. 2,938,395.
- Royce, Draper P., to Gem Crib and Cradle Co. Bed rail hook adjustment. 2,945,243, 7-19-60, Cl. 5-296.
- Royce, Mark B., to Continental Can Co., Inc. Folding container with slip-in veneers. 2,939,620, 6-7-60, Cl. 229-14.
- Royce, Mark B., to Continental Can Co., Inc. Ventilated shipping container for fruits and vegetables. 2,957,597, 10-25-60, Cl. 217-42.
- Royden, George T., to Mackay Radio and Telegraph Co., Inc. Stabilized low frequency wave generating circuit. 2,938,171, 5-24-60, Cl. 331-30.
- Royden, George T., to Mackay Radio and Telegraph Co. Automatic telegraph message numbering apparatus. 2,954,431, 9-27-60, Cl. 178-17.
- Royden, George T., and J. W. Butterworth, to Mackay Radio and Telegraph Co. Error suppressing telegraph system. 2,944,110, 7-5-60, Cl. 178-23.
- Royer, Arthur G., to Harris Intertype Corp. Continuous sheet feeding method and pallet therefor. 2,950,107, 8-23-60, Cl. 271-61.
- Royer, Darrell E.: *See*—  
Brandes, Roy H., Hirsch, and Royer. 2,919,752.
- Royer, Darrell E., to General Motors Corp. Propeller torque unit construction. 2,948,263, 8-9-60, Cl. 121-38.
- Royer, George H.: *See*—  
Pittman, George F., Jr., Bright, and Royer. 2,953,741.



- Royer, John A., to Buckner Mfg. Co., Inc. Adjustable stop finger unit for reversible sprinklers. 2,928,608, 3-15-60, Cl. 239-230.
- Royer, Neal B., to The Emerson Electric Mfg. Co. Welder. 2,960,623, 11-15-60, Cl. 315-279.
- Royer, Richard P. Hosiery pairing rack. 2,920,765, 1-12-60, Cl. 211-10.
- Royer, Stanley H., A. J. Miller, and J. J. Calaman, to Union Carbide Corp. Thermal rock piercing control apparatus. 2,935,303, 5-3-60, Cl. 255-36.
- Royer, Wayne H., to Capital Products Corp. Level oven loader and unloader. 2,931,322, 4-5-60, Cl. 107-57.
- Royer, Wayne H., to Capital Products Corp. Traveling tray conveyor and stabilizing device. 2,965,049, 12-20-60, Cl. 107-57.
- Roylance, Alan, to Lever Bros. Co. Process for producing confectioners' hard butter. 2,928,745, 3-15-60, Cl. 99-118.
- Roylyn Inc.: See—
- Field, James H., and Vogt. 2,949,776.
- Rozanski, Edward J., to The Patent Button Co. Face cap. 2,928,151, 3-15-60, Cl. 24-90.
- Rozell, Charles J. Portable combination power tool. 2,923,330, 2-2-60, Cl. 144-1.
- Rozmus, Mick T.: See—
- Rozmus, Walter J., Barnes, and Rozmus. 2,926,030.
- Rozmus, Walter J.: See—
- Barnes, William A., and Rozmus. 2,932,221.
- Rozmus, Walter J., and W. A. Barnes, to Kelsey-Hayes Co. Work preparation cutter attachment for a butt weld tool. 2,925,654, 2-23-60, Cl. 30-124.
- Rozmus, Walter J., W. A. Barnes, and M. T. Rozmus, to Kelsey-Hayes Co. Tube joint structure and method of making same. 2,926,030, 2-23-60, Cl. 285-286.
- Rozsa, Tibor A.: See—
- Lykken, Henry G., Rozsa, and Gracza. 2,963,230.
- Rozyski, Paulin L. J. M., to Societe Commerciale ECA. Training gear for elementary flying instruction. 2,937,457, 5-24-60, Cl. 35-12.
- Ruano, William J.: See—
- James, Henry D. 2,921,248.
- James, Henry D. 2,929,009.
- Ruau, Caroline M.: See—
- Molins, Desmond W., and Ruau. 2,958,365.
- Ruau, Felix F.: See—
- Molins, Desmond W., and Ruau. 2,958,365.
- Rubber and Asbestos Corp.: See—
- Been, Jerome L., and Grover. 2,920,990.
- Rubber Corp. of America: See—
- O'Donnell, Robert T. 2,957,858.
- Rubbra, Arthur A., to Rolls-Royce Ltd. Expansion joint with fuel drainage collector for ducting of gas turbine power plants. 2,949,736, 8-23-60, Cl. 60-39.32.
- Rubel, Herbert J., to United Aircraft Corp. Blade mounting. 2,919,889, 1-5-60, Cl. 253-77.
- Ruben, Henning M., and H. Hesse. Aspirating apparatus. 2,947,470, 8-2-60, Cl. 230-160.
- Ruben, Samuel. Electric current producing cell. Re. 24,830, 5-31-60, Cl. 136-6.
- Ruben, Samuel. Sulfamate primary cell. 2,948,768, 8-9-60, Cl. 136-100.
- Ruben, Samuel. Electric current producing cell. 2,948,769, 8-9-60, Cl. 136-102.
- Ruben, Samuel. Lead peroxide dry cell. 2,954,418, 9-27-60, Cl. 136-100.
- Ruben, Zorro D. Safety foot switch. 2,944,120, 7-5-60, Cl. 200-5.
- Rubens, Gerald E. Closure device. 2,939,450, 6-7-60, Cl. 126-140.
- Rubens, Gerald E. Fire screen construction. 2,958,378, 11-1-60, Cl. 160-19.
- Rubens, Louis C., to The Dow Chemical Co. Method of stabilizing vinyl aromatic polymer foams. 2,952,593, 9-13-60, Cl. 204-154.
- Rubens, Louis C., to The Dow Chemical Co. Latent-foaming vinyl aromatic polymer compositions and method of making the same. 2,952,594, 9-13-60, Cl. 204-154.
- Rubens, Louis C., and D. Urchick, to The Dow Chemical Co. Method of making cellular polyethylene. 2,948,664, 8-9-60, Cl. 204-154.
- Rubens, Louis C., J. D. Griffin, and D. Urchick, to The Dow Chemical Co. Process for making cellular polyethylene articles. 2,948,665, 8-9-60, Cl. 204-154.
- Rubenson, Joseph G.: See—
- Miles, Raymond C., and Rubenson. 2,962,166.
- Rubenstein, Carl R., and R. W. Spafford. Automatic dispatch. 2,925,787, 2-23-60, Cl. 104-88.
- Rubenstein, David. Shock absorbing connections for building constructions. 2,950,576, 8-30-60, Cl. 50-128.
- Rubenstein, David. Decorative structural element. 2,951,001, 8-30-60, Cl. 154-45.9.
- Rubenstein, David. Reel-unit and method. 2,951,006, 8-30-60, Cl. 154-126.
- Rubenstein, Harry J. Wire display rack. 2,944,679, 7-12-60, Cl. 211-181.
- Rubery, Herbert E. Poultry vaccinating machine. 2,952,257, 9-13-60, Cl. 128-253.
- Rubico, Jerome A., to Shoe Patents Corp. Plastic welt for shoes. 2,922,236, 1-26-60, Cl. 36-78.
- Rubin, Adolf, to Gesellschaft fur Forderanlagen Ernst Heckel m.b.H. Cable railway for passengers. 2,949,864, 8-23-60, Cl. 103-150.
- Rubin, George H. Snow throwers. 2,919,504, 1-5-60, Cl. 37-53.
- Rubin, George H. Eye shields. 2,923,943, 2-9-60, Cl. 2-13.
- Rubin, Harold, to Testrite Instrument Co., Inc. Display device. 2,931,515, 4-5-60, Cl. 211-60.
- Rubin, Harry, & Sons, Inc.: See—
- Rubin, Leonard R. 2,946,152.
- Rubin, Jacob. Combined sewing machine cabinet and folding chair. 2,940,807, 6-14-60, Cl. 312-29.
- Rubin, Leonard R., to Harry Rubin & Sons, Inc. Musical toy hoop. 2,946,152, 7-26-60, Cl. 46-175.
- Rubin, Martin: See—
- Bersworth, Frederick, and Rubin. 2,924,576.
- Rubin, Norbert C., to The Yoder Co. Method and apparatus for making pipe. 2,959,849, 11-15-60, Cl. 29-417.
- Rubin, Paul S. Device for tensing, twisting, and severing wire. 2,943,650, 7-5-60, Cl. 140-119.
- Rubin, Richard: See—
- Hatch, Richard M., and Rubin. 2,942,210.
- Rubin, Richard, and L. G. Wilde, to A. Alford. Electrical insulated splice. 2,958,722, 11-1-60, Cl. 174-84.
- Rubino, Giacomo J. Hair curler. 2,964,046, 12-13-60, Cl. 132-122.
- Rubino, John W., and L. Himmel, to International Telephone and Telegraph Corp. Radar signal simulator. 2,928,086, 3-8-60, Cl. 343-177.
- Rubino, Morris: See—
- Beter, Ralph H., and Rubino. 2,946,957.
- Rubino, Morris, to United States of America, Army. Magnetic switching devices and systems. 2,949,504, 8-16-60, Cl. 179-15.
- Rubinstein, Harvey: See—
- Kelner, Robert C., and Rubinstein. 2,933,719.
- Kelner, Robert C., Fuller, Rubinstein, and Lerner. 2,958,076.
- Rubinstein, Harvey, to Laboratory for Electronics, Inc. Driver circuits. 2,964,647, 12-13-60, Cl. 307-88.
- Rubinstein, Stanley, to Northrop Corp. Parachute load release. 2,940,792, 6-14-60, Cl. 294-83.
- Rubissow, George A.: See—
- Mamon, Michel. 2,926,300.
- Ruby, Jerry: See—
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- Ruck, Arthur L., R. C. Layne, and R. E. Dennis. Process for forming plastic binders. 2,952,037, 9-13-60, Cl. 18-47.5.
- Ruckelshaus, John G. Method of preparing electrical resistors. 2,962,393, 11-29-60, Cl. 117-212.
- Rucker, Benjamin C., 10% to L. Beckham and 15% to F. B. Chessher. Reversible valve assembly for pumps. 2,935,995, 5-10-60, Cl. 137-329.04.
- Rucker, John T., to Hooker Chemical Corp. Insecticidal perchlorocarbon. 2,934,470, 4-26-60, Cl. 167-30.
- Rucker, John T., to Hooker Chemical Corp. Selective hydrogenation of chlorobenzenes. 2,949,491, 8-16-60, Cl. 260-650.
- Rucker, Ralph V. Emergency traction assembly for vehicle wheels. 2,963,064, 12-6-60, Cl. 152-218.
- Ruckert, Alfred: See—
- Bartl, Hugo, Pestian, Diery, Heyna, and Ruckert. 2,961,349.
- Haakh, Hermann, and Ruckert. 2,933,416.
- Ruckert, Horst: See—
- Hinz, Werner, and Ruckert. 2,966,594.
- Rucks, Walter H.: See—
- White, James S., and Rucks. 2,931,616.
- Rudd, Wallace C., to Magnetic Heating Corp. Welding of lengths of tubing. 2,922,019, 1-19-60, Cl. 219-67.
- Rudd, Wallace C., to Magnetic Heating Corp. Process for induction heating and quenching of metal. 2,930,724, 3-29-60, Cl. 148-10.5.
- Rudd, Wallace C., to Magnetic Heating Corp. High frequency electrical welding. 2,938,993, 5-31-60, Cl. 219-67.
- Rudd, Wallace C., and H. J. Cameron, to Magnetic Heating Corp. Apparatus for continuous heat treating of wire. 2,932,502, 4-12-60, Cl. 266-3.
- Ruddell, Clarence W. Automatic irrigation system. 2,931,579, 4-5-60, Cl. 239-179.
- Rudder, Roger B.: See—
- Ouellette, Ludger A. 2,932,838.
- Ruddick, Ronald B., to Emery Industries, Inc. Method of separating fatty acids. 2,934,547, 4-26-60, Cl. 260-419.
- Ruddle, Harold L.: See—
- Brewer, Claire N., Goss, and Ruddle. 2,957,244.
- Rudel, Harry W.: See—
- Westlund, Roy A., Jr., and Rudel. 2,927,080.
- Rudel, Harry W., and V. F. Massa, to Esso Research and Engineering Co. Motor lubricating oils and methods for using same. 2,942,588, 6-28-60, Cl. 123-1.
- Rudelick, John, and V. J. Palmer, to Bruner Corp. Control valve. 2,920,652, 1-12-60, Cl. 137-625.29.
- Ruderman, Irving W., to Isomet Corp. Monitoring ionizing radiation. 2,961,541, 11-22-60, Cl. 250-71.5.
- Rudesyle, David T.: See—
- Kucklinsky, Walter H., and Rudesyle. 2,945,463.
- Rudin, Alfred: See—
- Currah, Jack E. C., Rudin, and Morf. 2,926,125.
- Rudine, Vernon P. Snow coating device. 2,950,922, 8-30-60, Cl. 280-12.
- Rudisch, Walter E., to Bendix Aviation Corp. Electromagnetic clutch with resilient torque transmission. 2,939,561, 6-7-60, Cl. 192-84.



- Rudisch, Walter E., to The Bendix Corp. Clutch. 2,956,657, 10-18-60, Cl. 192-84.
- Rudisch, Walter E., to The Bendix Corp. Clutches. 2,957,562, 10-25-60, Cl. 192-84.
- Rudisch, Walter E., to The Bendix Corp. Clutch. 2,962,141, 11-29-60, Cl. 192-53.
- Rudner, Bernard, to W. R. Grace & Co. N-aminoindolobenzoguinolinium compounds. 2,933,500, 4-19-60, Cl. 260-287.
- Rudner, Bernard, to W. R. Grace & Co. Apomorphinium salts. 2,946,795, 7-26-60, Cl. 260-285.
- Rudner, Bernard, to W. R. Grace & Co. Salts of ergot alkaloids. 2,946,796, 7-26-60, Cl. 260-285.5.
- Rudner, Bernard, to W. R. Grace & Co. N-aminotetrahydroisoquinolinium salts. 2,946,797, 7-26-60, Cl. 260-286.
- Rudner, Bernard, to W. R. Grace & Co. Lupine hydrazinium compounds. 2,946,798, 7-26-60, Cl. 260-293.
- Rudner, Bernard, to W. R. Grace & Co. Method of making hydrozine derivatives. 2,953,570, 9-20-60, Cl. 260-294.7.
- Rudner, Bernard, to W. R. Grace & Co. Strychnos hydrazinium compounds. 2,957,866, 10-25-60, Cl. 260-236.
- Rudner, Bernard, to W. R. Grace & Co. Aralkylhydrazinium salts. 2,957,873, 10-25-60, Cl. 260-247.5.
- Rudner, Bernard, to W. R. Grace & Co. N-aminopiperidinium salt. 2,957,876, 10-25-60, Cl. 260-256.4.
- Rudner, Bernard, L. O. Young, and M. E. Brooks, to W. R. Grace & Co. Acyclic hydrazinium chlorides. 2,929,847, 3-22-60, Cl. 260-383.
- Rudner, Bernard, and M. J. Woods, to W. R. Grace & Co. Tetrahydropyridazinium compounds. 2,946,790, 7-26-60, Cl. 260-250.
- Rudner, Bernard, and A. G. Prapas, to W. R. Grace & Co. 8-aminococainium compounds. 2,947,752, 8-2-60, Cl. 260-292.
- Rudner, Bernard, and A. G. Prapas, to W. R. Grace & Co. Quinoline and acridine compounds. 2,948,728, 8-9-60, Cl. 260-279.
- Rudner, Bernard, and A. G. Prapas, to W. R. Grace & Co. 8-aminotropanium compounds. 2,948,730, 8-9-60, Cl. 260-292.
- Rudner, Bernard, and M. E. Brooks, to W. R. Grace & Co. Phenol-hydrazinium inner salts. 2,953,600, 9-20-60, Cl. 260-567.5.
- Rudner, Bernard, and M. E. Brooks, to W. R. Grace & Co. Nitroparaffin-hydrazine salts. 2,963,507, 12-6-60, Cl. 260-501.
- Rudnicki, Mark I., to Ex-Cell-O Corp. Automatic feed mechanism for grinding machines. 2,924,915, 2-16-60, Cl. 51-165.
- Rudnicki, William E.: See—  
Muller, George H., and Rudnicki. 2,935,335.
- Rudnik, Raymond G.: See—  
Miller, Roland E., and Rudnik. 2,923,114.
- Rudolf, Henry J. G., to Applied Mechanics Co. Gauge for oil tank. 2,924,973, 2-16-60, Cl. 73-309.
- Rudolf, Henry J. G., to Applied Mechanics Co. Audible signal device for oil tanks and means for installing same. 2,964,009, 12-13-60, Cl. 116-112.
- Rudolf, John J., Jr.: See—  
Hawkins, Royal R., and Rudolf. 2,939,285.
- Rudolf, John J., Jr., and H. A. Sanderson, to Minneapolis-Honeywell Regulator Co. Magnetic tracer head. 2,941,140, 6-14-60, Cl. 323-51.
- Rudolf, John J., Jr., and R. L. Fillmore, to Minneapolis-Honeywell Regulator Co. Automatic duplicating control apparatus. 2,962,645, 11-29-60, Cl. 318-162.
- Rudolph, Hans. Measuring instrument. 2,923,064, 2-2-60, Cl. 33-164.
- Rudolph, Hans, to Siemens & Halske Aktiengesellschaft. Multiplex pulse modulation system for telegraphy. 2,966,548, 12-27-60, Cl. 178-52.
- Rudolph, Paul: See—  
Henze, Rudolf, Rudolph, and Danulat. 2,925,334.
- Rudorfer, Hermann, to Oesterreichische Stickstoffwerke Aktiengesellschaft. Process and apparatus for recovering platinum and platinum-rhodium alloys from gases containing same. 2,920,953, 1-12-60, Cl. 75-101.
- Rudow, Henry: See—  
Mutchnik, Henry, and Rudow. 2,938,759.
- Rudszinat, Willy, to Kurt Korber & Co. K.G. Cigarette transferring devices for cigarette making machines. 2,927,678, 3-8-60, Cl. 198-24.
- Rudy, Erland W.: See—  
Bridges, Robert M., Rudy, and Rummell. 2,946,980.
- Rudy Mfg. Co.: See—  
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- Rue, Dale: See—  
Altgelt, Rudolph J., and Rue. 2,953,211.
- Rue, Harold D.: See—  
Altgelt, Rudolph J., and Rue. 2,953,211.
- Rue, Robert W., to The New York Air Brake Co. Pressure graduating control valve. 2,942,583, 6-28-60, Cl. 121-46.5.
- Rued, Fred H., to Baldwin-Lima-Hamilton Corp. Turbine wheel balancer. 2,940,315, 6-14-60, Cl. 73-467.
- Ruedisulj, Wilhelmus M. J., to Shell Oil Co. Preparation of component for premium grade motor gasoline. 2,944,004, 7-5-60, Cl. 208-100.
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- Rueger, Ernst A. Apparatus for measuring the humidity of gases. 2,932,199, 4-12-60, Cl. 73-335.
- Rueger, Herman, to Hamilton Watch Co. Cannon pinion assembly. 2,952,118, 9-13-60, Cl. 58-138.
- Rueger, William J., to International Business Machines Corp. Coaxial magnetic printing head. 2,950,161, 8-23-60, Cl. 346-74.
- Ruegg, Max: See—  
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- Ruegg, Rudolf: See—  
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- Ruegeberg, Werner, to Armstrong Cork Co. High energy inductor and tank circuit. 2,921,197, 1-12-60, Cl. 250-40.
- Ruegeberg, Werner, to Armstrong Cork Co. Method and apparatus for edge heating thermoplastic dielectrics. 2,925,864, 2-23-60, Cl. 164-125.
- Ruegeberg, Werner, to Armstrong Cork Co. Deviation amplifier and control system. 2,928,924, 3-15-60, Cl. 219-10.77.
- Ruegnitz, Roy C. Egg washing apparatus. 2,966,159, 12-27-60, Cl. 134-188.
- Ruehle, Robert A. Variable alternating current coil constructions. 2,927,291, 3-1-60, Cl. 336-149.
- Ruehleman, Herbert E., to United States of America, Navy. Electric time fuze. 2,926,610, 3-1-60, Cl. 102-70.2.
- Ruehleman, Herbert E., to United States of America, Navy. Temperature compensated R.C. network. 2,927,224, 3-1-60, Cl. 307-109.
- Ruehlen, Forrest N.: See—  
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- Ruehrwein, Robert A.: See—  
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- Ruehrwein, Robert A., to Monsanto Chemical Co. Purification of phosphoric acid. 2,955,918, 10-11-60, Cl. 23-165.
- Ruehrwein, Robert A., and G. B. Skinner, to Monsanto Chemical Co. Method for producing titanium trichloride. 2,940,825, 6-14-60, Cl. 23-87.
- Ruehrwein, Robert A., and F. V. Williams, to Monsanto Chemical Co. Crystallization of boron phosphide. 2,966,424, 12-27-60, Cl. 117-47.
- Rueshoff, Gerhard. Aluminized building material. 2,933,919, 4-26-60, Cl. 72-28.
- Ruess, Leopold, to Rockwell G.m.b.H. V belt sheave for a stepless V belt transmission, especially for motor vehicles. 2,953,032, 9-20-60, Cl. 74-230.6.
- Ruet, Jean, to Bendix Aviation Corp. Disk brakes. 2,937,722, 5-24-60, Cl. 188-73.
- Ruet, Jean P.: See—  
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- Ruetimeyer, Bernhard: See—  
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- Ruetimeyer, Bernhard, and F. Oesterlein, to Ciba Ltd. Complex metal compounds of monoazo-dyestuffs. 2,931,794, 4-5-60, Cl. 260-146.
- Ruetschi, Paul, to The Electric Storage Battery Co. Storage battery construction. 2,951,106, 8-30-60, Cl. 136-6.
- Ruettiger, Justin. Solid oculars. 2,946,259, 7-26-60, Cl. 88-57.
- Ruf, Walter. Torsion spring device on vehicles. 2,950,103, 8-23-60, Cl. 267-57.
- Ruff, Alonzo W., to V. C. Patterson & Associates, Inc. Automatic defrosting apparatus. 2,954,680, 10-4-60, Cl. 62-155.
- Ruff, Charles F.: See—  
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- Ruff, Clarence B. Adjustable pillow support. 2,952,856, 9-20-60, Cl. 5-338.
- Ruff, Edgar E., to Lever Brothers Co. Spray dried detergent compositions. 2,947,701, 8-2-60, Cl. 252-109.
- Ruff, Raymond. Hollow glass fishing pole with line storing reel. 2,957,264, 10-25-60, Cl. 43-20.
- Ruff, Richard J., to Catalytic Combustion Corp. Re-circulating oven. 2,921,778, 1-19-60, Cl. 263-3.
- Ruff, Richard J., to Catalytic Combustion Corp. Coating oven. 2,950,098, 8-23-60, Cl. 263-8.
- Ruff, Richard O.: See—  
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- Ruffinatti, Osvaldo. Apparatus for kneading boiled sugar. 2,949,868, 8-23-60, Cl. 107-33.
- Ruffing, Norman R.: See—  
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- Ruffino, David. Conveyor belt. 2,930,478, 3-29-60, Cl. 198-175.
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- Rugaber, Robert H., and J. P. Welsh, to General Dynamics Corp. Binary code converter. 2,951,901, 9-6-60, Cl. 178-26.
- Ruge, Arthur C., to Baldwin-Lima-Hamilton Corp. Apparatus for automatically classifying according to predetermined conditions. 2,930,943, 3-29-60, Cl. 317-149.
- Rugeley, Rowland B., and G. E. Batchelder, to Rockwell Mfg. Co. Dispensing system for highly volatile liquids. 2,919,834, 1-5-60, Cl. 222-52.
- Rugen, Vernon L.: See—  
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- Ruger, William B., to Sturm, Ruger & Co., Inc. Semi-automatic pistol. 2,933,983, 4-26-60, Cl. 89—194.
- Ruger, William B., to Sturm, Ruger and Co., Inc. Revolver cylinder pin and cross pin. 2,955,373, 10-11-60, Cl. 42—59.
- Ruget, Etienne G., to Nord Aviation Societe Nationale de Constructions Aeronautiques, Apparatus for enabling the manoeuvrability and the stability of a supersonic aircraft to be controlled. 2,924,400, 2-9-60, Cl. 244—46.
- Rugg, Frank M., and J. E. Potts, to Union Carbide Corp. Polymerization of vinyl ester in the presence of polyethylene and product therefrom. 2,947,718, 8-2-60, Cl. 260—45.5.
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- Rugg, John S., to E. I. du Pont de Nemours and Co. Curable hexafluoropropene-vinylidene fluoride composition. 2,933,481, 4-19-60, Cl. 260—87.7.
- Ruggieri, Albert P., and J. W. House. Mounting rack for fire hose nozzles. 2,929,597, 3-22-60, Cl. 248—75.
- Ruggles, David M., to Bell Telephone Laboratories, Inc. Piezoelectric crystal unit. 2,953,896, 9-20-60, Cl. 310—9.1.
- Ruggles, Percy C.: See—
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- Ruh, Robert P.: See—
- Igenfritz, Edgar M., and Ruh. 2,932,651.
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- Ruh, Robert P., and R. A. Davis, to The Dow Chemical Co. Preparation of fluoronitriles. 2,939,878, 6-7-60, Cl. 260—465.7.
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- Rice, Orval L., and Ruhl. 2,965,133.
- Ruhl, Charles A. L., to The New York Air Brake Co. Control valve having a movable member containing combination check and relief valve unit. 2,946,347, 7-26-60, Cl. 137—622.
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- Ruhrchemie Aktiengesellschaft: See—
- Feichtinger, Hans. 2,921,958.
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- Geiser, Nikolaus, and Kolling. 2,938,021.
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- Kolling, Helmut, Geiser, and Von Hoffmann. 2,943,083.
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- Rummel, Walter, to Dr. Schwarz Arzneimittelfabrik G.m.b.H. Process for raising blood serum iron levels and controlling anemia. 2,957,806, 10-25-60, Cl. 167—68.
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- Rummery, Frank O., R. Roseman, and J. M. Gilbert, to The Glidden Co. Making cadmium red pigments. 2,950,984, 8-30-60, Cl. 106—301.
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- Rumsey, Rollin D., to Houdaille Industries, Inc. Valve construction. 2,933,095, 4-19-60, Cl. 137—38.
- Rumsey, Rollin D., to Houdaille Industries, Inc. Damping system. 2,942,867, 6-28-60, Cl. 267—1.
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- Rundell, Raymond R. Fishing chum pot. 2,941,327, 6-21-60, Cl. 43—44.99.
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- Bell, Keith L. 2,926,282.
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- Runton, Leslie A., to The Russell Mfg. Co. Conveyor belt for corrugated paper board. 2,955,969, 10-11-60, Cl. 154—52.1.
- Runton, Leslie A., and H. C. Morton, to The Russell Mfg. Co. Molded resin bearings. 2,953,418, 9-20-60, Cl. 308—238.
- Runyan, Raymond A., to Schlumberger Well Surveying Corp. Signal amplifying system. 2,922,114, 1-19-60, Cl. 330—9.
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- Ruoff, Karl, and W. Eberle, to Firma Dr. Ing. h.c. F. Porsche K.G. Change-speed transmission. 2,940,321, 6-14-60, Cl. 74-15.2.
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- Rupert, Kenneth C., to Sylvania Electric Products Inc. Electron tube mount assembly mechanism. 2,956,607, 10-18-60, Cl. 153-2.
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- Rupert, Richard. Reflector and mounting therefor. 2,956,476, 10-18-60, Cl. 88-78.
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- Ruppert, Wilhelm, and G. Schwedler, to Metallgesellschaft Aktiengesellschaft. Process for the production of titanium carbide coatings. 2,962,388, 11-29-60, Cl. 117-49.
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- Ruppright, Siegfried, to Hughes Aircraft Co. Magnetic check valve. 2,949,931, 8-23-60, Cl. 137-528.
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- Ruscito, Anthony J., and H. V. May, to Sprague Electric Co. Mounting for combined capacitor arrangements. 2,948,770, 8-9-60, Cl. 174-52.
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- Rush, Joseph A., and E. G. Lurcott, Jr., to Radio Corp. of America. Sweep circuit. 2,953,679, 9-20-60, Cl. 250-27.
- Rush, Robert M., to Robbins & Myers, Inc. Centralizing spider for wells. 2,944,608, 7-12-60, Cl. 166-241.
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- Rushing, Frank C., to United States of America, Atomic Energy Commission. Centrifugal pump and shaft sealing means. 2,951,448, 9-6-60, Cl. 103-111.
- Rushing, Frank C., to United States of America, Atomic Energy Commission. Cushioned bearing. 2,951,730, 9-6-60, Cl. 308-146.
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- Ruskin, Henry, to Swingline, Inc. Tag attaching stapling machine. 2,927,323, 3-8-60, Cl. 1-3.
- Ruskin, Henry, to Swingline, Inc. Tacker. 2,936,456, 5-17-60, Cl. 1-49.
- Ruskin, Simon L., to Union Carbide Corp. Rocket propellants. 2,933,381, 4-19-60, Cl. 52-5.
- Ruskin, Simon L., to Union Carbide Corp. Promotion of chemical reactions. 2,934,481, 4-26-60, Cl. 204-158.
- Ruskin, Simon L., to Union Carbide Corp. Metallo-ceramic preparations. 2,940,951, 6-14-60, Cl. 260-37.
- Ruskin, Simon L., to Union Carbide Corp. Preparation of rocket propellants. 2,944,881, 7-12-60, Cl. 52-5.
- Ruskin, Simon L., to Union Carbide Corp. Inorganic and organometal compositions. 2,951,796, 9-6-60, Cl. 204-158.
- Ruskin, Simon L., to Union Carbide Corp. Catalytic conversion of petroleum. 2,953,509, 9-20-60, Cl. 204-162.
- Rusler, George W., Jr.: *See*—  
Lundquist, Peter P., and Rusler. 2,942,806.
- Rusnak, Paul. Instant release valve. 2,928,647, 3-15-60, Cl. 251-74.
- Rusnack, Victor A.: *See*—  
Forbush, Lothrop M., Rusnack, Stofflet, and Wroby. 2,956,632.
- Rusoff, Irving I., to General Foods Corp. Preparation of chocolate flavoring. 2,954,293, 9-27-60, Cl. 99-26.
- Rusoff, Irving I., to General Foods Corp. Chocolate product and process therefor. 2,957,769, 10-25-60, Cl. 99-23.
- Rusoff, Irving I., to General Foods Corp. Flavor product and process. 2,965,490, 12-20-60, Cl. 99-23.
- Ruspino, James G.: *See*—  
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- Russ, Alfred: *See*—  
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- Russ, Daniel G., to Bendix Aviation Corp. Fuel feed and power control system for gas turbine engines. 2,947,141, 8-2-60, Cl. 60-39.28.
- Russell, Allan D., to Kingston Electronic Corp. Signal-pick-up test probe. 2,946,001, 7-19-60, Cl. 324-20.
- Russell, Allan D., to Kingston Electronic Corp. Signal-pick-up test probe. 2,946,002, 7-19-60, Cl. 324-24.
- Russell, Arthur G.: *See*—  
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- Russell Auto-Feed Screwdrivers Ltd., The: *See*—  
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- Pattison, Walter T. 2,955,630.
- Russell, Burdsall & Ward Bolt and Nut Co.: *See*—  
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- Russell, Cecil R.: *See*—  
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- Russell, Charles A., to National Lead Co. Organotitanium complexes and method of making same. 2,926,183, 2-23-60, Cl. 260-429.5.
- Russell, Charles R., and E. A. Schulz, to Western Electric Co., Inc. Apparatus for cleaning strip material. 2,948,006, 8-9-60, Cl. 15-102.
- Russell, Donald H.: *See*—  
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- Russell, Duane J., and C. D. Hansen, to United States of America, Navy. Astable multivibrator. 2,952,818, 9-13-60, Cl. 331-113.
- Russell, Edwin R., A. W. Adamson, and G. E. Boyd, to United States of America, Atomic Energy Commission. Adsorption-bismuth phosphate method for separating plutonium. 2,942,937, 6-28-60, Cl. 23-14.5.
- Russell, Francis R.: See—
- Huntley, Allan R., and Russell. 2,944,009.
- Russell, Fred J. Sliding door latch with dead lock. 2,924,475, 2-9-60, Cl. 292-129.
- Russell, Fred J. Circular strike installation. 2,937,898, 5-24-60, Cl. 292-340.
- Russell, Fred J. Low friction strike plate. 2,946,614, 7-26-60, Cl. 292-341.11.
- Russell, Fred J., and F. J. Netschert; said Netschert assor. to said Russell. Closed retractor housing. 2,959,439, 11-8-60, Cl. 292-1.
- Russell, Fred J., and F. J. Netschert; said Netschert assor. to said Russell. Knob retainer. 2,961,268, 11-22-60, Cl. 292-352.
- Russell, George F.: See—
- Barber, Herbert L., and Russell. 2,957,694.
- Russell, J. D.: See—
- Mueller, John D., and Russell. 2,962,433.
- Russell, Jacob B., and F. M. Partridge. Dual cycle heat powered airconditioning system. 2,952,138, 9-13-60, Cl. 62-233.
- Russell, James C. Multiple speed reciprocating hydraulic motors. 2,935,852, 5-10-60, Cl. 60-97.
- Russell, James L., and E. E. Herman. Scrambling system. 2,948,779, 8-9-60, Cl. 179-15.
- Russell, John A., and J. R. Bouille, to Joy Mfg. Co. Continuous mining apparatus of the chain type for longwall mining. 2,939,692, 6-7-60, Cl. 262-29.
- Russell, John D. Rotary welding electrodes. 2,945,939, 7-19-60, Cl. 219-82.
- Russell, John D., to Joy Mfg. Co. Mobile loading machine. 2,957,570, 10-25-60, Cl. 198-123.
- Russell, John D., to Joy Mfg. Co. Low height shuttle car. 2,962,176, 11-29-60, Cl. 214-83.36.
- Russell, John G., to Thompson Products, Inc. Nutating disc motor. 2,922,403, 1-26-60, Cl. 121-69.
- Russell, John K., and W. W. Boggs, to Luber-Finer Inc. Method and apparatus for crumpling paper. 2,924,154, 2-9-60, Cl. 93-1.
- Russell, John K., and W. W. Boggs, to Luber-Finer Inc. Cover gasket. 2,954,896, 10-4-60, Cl. 220-46.
- Russell, John L., to The Bristol Co. Electrically actuated contacting device. 2,960,585, 11-15-60, Cl. 200-90.
- Russell, John L., to The Bristol Co. Electrical contactor. 2,960,586, 11-15-60, Cl. 200-90.
- Russell, John P., E. Stutchfield, J. R. Myers, and D. F. Arthur, to British Nylon Spinners Ltd. Twisting of textile filaments. 2,936,567, 5-17-60, Cl. 57-77.4.
- Russell, John R., and M. J. Forster, to The Firestone Tire & Rubber Co. Tubeless tires having an air impervious graft polymer innerliner. 2,929,429, 3-22-60, Cl. 152-330.
- Russell, Joseph L.: See—
- Grabiel, Charles E., Russell, and Volk. 2,925,369.
- Russell, Kenneth F., to Pomona Foundry, Inc. Box stacking mechanism. 2,948,382, 8-9-60, Cl. 198-35.
- Russell-Lacey Mfg. Co., Inc.: See—
- Wear, John H. 2,961,982.
- Russell, Linus E., to Peters & Russell, Inc. Pump base. 2,959,137, 11-8-60, Cl. 103-218.
- Russell, Louis A., to International Business Machines Corp. Transistor control circuit. 2,922,899, 1-26-60, Cl. 307-88.5.
- Russell, Louis A., to International Business Machines Corp. Double ended drive for selection lines of a core memory. 2,929,050, 3-15-60, Cl. 340-174.
- Russell Mfg. Co., The: See—
- Morton, Henry C., and Mann. 2,923,983.
- Morton, Henry C., and Washken. 2,922,221.
- Runtun, Leslie A. 2,955,969.
- Runtun, Leslie A., and Morton. 2,953,418.
- Russell, Marvin E., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,937,509, 5-24-60, Cl. 62-162.
- Russell-Miller Milling Co.: See—
- Sullivan, Betty J., and Dasher. 2,957,632.
- Russell, Ralph S., to Hydraulic Supply Mfg. Co. Seam tester for concrete pipe. 2,927,456, 3-8-60, Cl. 73-48.
- Russell, Robert C.: See—
- Winther, Martin P., and Russell. 2,948,370.
- Russell, Robert C., to Eaton Mfg. Co. Blocker type synchronizing means for a positive clutch. 2,919,774, 1-5-60, Cl. 192-53.
- Russell, Robert C., to Eaton Mfg. Co. Controlled slip differential. 2,932,218, 4-12-60, Cl. 74-711.
- Russell, Robert C., to Eaton Mfg. Co. Torque converter with dual-purpose reaction member. 2,933,951, 4-26-60, Cl. 74-677.
- Russell, Robert C., to Eaton Mfg. Co. Synchronizing means for multiple speed ratio axle shifting mechanism. 2,934,186, 4-26-60, Cl. 192-4.
- Russell, Robert C., to Eaton Mfg. Co. Variable reactor hydraulic torque converter. 2,944,402, 7-12-60, Cl. 60-54.
- Russell, Robert C., to Eaton Mfg. Co. Multiple-turbine torque converter. 2,944,441, 7-12-60, Cl. 74-677.
- Russell, Robert G.: See—
- Leedy, Nelson J., and Russell. 2,933,590.
- Russell, Robert G., to Owens-Corning Fiberglas Corp. Method for attenuating and treating glass fibers. 2,919,970, 1-5-60, Cl. 18-54.
- Russell, Robert G., to Owens-Corning Fiberglas Corp. High speed winding collet. 2,947,489, 8-2-60, Cl. 242-18.
- Russell, Robert G., and D. G. Bloomfield, to Davy and United Engineering Co. Ltd. Collapsible mandrels. 2,941,744, 6-21-60, Cl. 242-72.1.
- Russell, Stanley D., to J. I. Case Co. Bale ventilating means. 2,933,037, 4-19-60, Cl. 100-98.
- Russell, Virginia A.: See—
- King, Aden J., and Russell. 2,942,935.
- Russell, Warren O., to Kennebaggo Lake Camps. Culverts. 2,958,200, 11-1-60, Cl. 61-16.
- Russell, William M. Automatic tea-making appliances. 2,924,699, 2-9-60, Cl. 219-44.
- Russell, William M., to J. D. Gould Co. Hydraulic control valve. 2,926,882, 3-1-60, Cl. 251-30.
- Russell, William J., and R. B. Fay, to Handy Hannah Products Corp. Hair dryer. 2,962,576, 11-29-60, Cl. 219-39.
- Russell, William H.: See—
- Gaskill, William A., and Russell. 2,959,652.
- Russell, William S., and J. L. Van Vliet. Aluminum chromatizing process. 2,925,763, 3-15-60, Cl. 148-6.16.
- Russer's, Inc.: See—
- McFarlane, Arthur M. 2,946,470.
- Russo, Aurelio D.: See—
- Wenner, Charles B., and Russo. 2,923,479.
- Russo, Carl J., A. L. Trifunovic, and H. A. Sinski, to Joseph Bancroft & Sons Co. Apparatus for treating textile fibers. 2,960,729, 11-22-60, Cl. 19-66.
- Russo, Jack. Row boat covers. 2,965,113, 12-20-60, Cl. 135-6.
- Russo, Matthew: See—
- Caler, Herschel R., Russo, and Singer. 2,945,397.
- Caler, Herschel R., Russo, and Singer. 2,952,768.
- Rust, Edgar C., Jr., to James Hunter Machine Co. Needle loom structure. 2,930,100, 3-29-60, Cl. 28-4.
- Rust, James H., and H. Bieber, to Esso Research and Engineering Co. Removal of metallic contaminants from petroleum fractions. 2,943,048, 6-28-60, Cl. 208-252.
- Rust, John B., and W. B. Canfield. Water repellent, method of preparing same and textile coated therewith. 2,923,698, 2-2-60, Cl. 260-70.
- Rust, Mack D. Cotton picker spindle slat fastening means. 2,960,812, 11-22-60, Cl. 56-42.
- Rust, William M., Jr.: See—
- Feagin, Frank J., MacPhail, and Rust. 2,927,656.
- Feagin, Frank J., MacPhail, and Rust. 2,928,071.
- Ruston & Hornsby Ltd.: See—
- Froggatt, Alfred W., and Parsons. 2,938,510.
- Rutemiller, Herbert C., to Aluminum Co. of America. Aluminum base alloy casting. 2,922,731, 1-26-60, Cl. 148-21.91.
- Rutgers, Norman L.: See—
- Bierwirth, Henry C., and Rutgers. 2,936,874.
- Rutgers, Relfer, to N.V. Koninklijke Pellerij "Mercurius" v/h Gebroeders Laan. Method of preparing a flaked cereal product thickening with liquid. 2,928,743, 3-15-60, Cl. 99-80.
- Rutgers, Ulrich J., American Enka Corp. Traversing mechanism for winding machine. 2,950,068, 8-23-60, Cl. 242-43.
- Rütgerswerke-Aktiengesellschaft: See—
- Geller, Julius, and Hupe. 2,941,871.
- Sauer, Hubert. 2,951,823.
- Ruth, Edward S., to The Gamewell Co. Electrical panel assembly. 2,933,656, 4-19-60, Cl. 317-117.
- Ruth, Joseph P. Method of treating exhaust gases of internal combustion engines. 2,933,368, 4-19-60, Cl. 23-2.
- Ruth, Reuben R. Engine starter. 2,933,077, 4-19-60, Cl. 123-185.
- Ruthardt, Konrad. Spinning nozzles. 2,938,788, 5-31-60, Cl. 75-172.
- Rutherford, Charles E. Engine fuel tank rack. 2,965,239, 12-20-60, Cl. 211-71.
- Rutherford, David D., to General Motors Corp. Spacer clip. 2,938,637, 5-31-60, Cl. 214-10.5.
- Rutherford, George W., to The W. L. Somner Co., Inc. Automatic clutch engager. 2,946,318, 7-26-60, Cl. 121-38.
- Rutherford, Henry P., to Multi Corp. Shuttle tips. 2,925,834, 2-23-60, Cl. 139-196.
- Rutherford, Henry C.: See—
- Kaspari, Albert R., Rutherford, and Avalon. 2,944,663.
- Rutherford, Kathleen A. Educational game. 2,964,858, 12-20-60, Cl. 35-48.
- Ruthroff, Clyde L., to Bell Telephone Laboratories, Inc. Frequency discriminator. 2,928,940, 3-15-60, Cl. 250-31.
- Rutishauser, Paul O., to Regina Sewing Machines Corp. Sewing machines. 2,939,415, 6-7-60, Cl. 112-158.
- Rutkowski, Walter J., to General Electric Co. Electric discharge device electrode connection. 2,961,569, 11-22-60, Cl. 313-318.
- Rutkus, John, Jr.: See—
- Eichler, Rolf W., Eichorn, and Rutkus. 2,945,434.
- Rutkus, John, Jr., D. W. Shepardson, and B. J. Wolfe, to Haloid Xerox Inc. Xerographic toner dispenser. 2,965,266, 12-20-60, Cl. 222-70.



- Rutledge, Jack T. Anchor hoist. 2,937,610, 5-24-60, Cl. 114-210.
- Rutledge, John H.: *See*—  
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- Rutledge, Thomas F.: *See*—  
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- Rutschi, Karl. Pump. 2,939,399, 6-7-60, Cl. 103-87.
- Rutten, Peter, to P & D Sales Co. Silage distributor. 2,962,151, 11-29-60, Cl. 198-155.
- Rutter, Donald P., to Johns-Manville Corp. Hydrofolding of metal. 2,960,141, 11-15-60, Cl. 153-73.
- Rutz, Richard F., to International Business Machines Corp. Semiconductor device fabrication. 2,942,329, 6-28-60, Cl. 29-25.3.
- Ruvensky, Naomi H. Plant propagation. 2,958,981, 11-8-60, Cl. 47-53.
- Ruvlin, Abraham E., to United States of America, Air Force. Linear-logarithmic amplification. 2,933,695, 4-19-60, Cl. 330-193.
- Ruyle, William V.: *See*—  
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- Ruze, John, to The Gabriel Co. Antenna system for variable polarization. 2,930,039, 3-22-60, Cl. 343-756.
- Ruzevick, Peter M.: *See*—  
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- Ruzicka, Stanley O., to Fortner & Perrin, Inc. Garment hanger. 2,961,134, 11-22-60, Cl. 223-96.
- Ryan Aeronautical Co., The: *See*—  
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David, Constant C. 2,919,546.  
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Ratkevich, Adam E. 2,942,265.  
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- Ryan, Alfred K.: *See*—  
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- Ryan, Charles, to The A. C. Gilbert Co. Merchandise display package. 2,921,673, 1-19-60, Cl. 206-45.31.
- Ryan, Charles C.: *See*—  
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- Ryan, David E. Shoe repair molds. 2,947,033, 8-2-60, Cl. 18-34.
- Ryan, Edmund J., to Poly-Gas Research and Development Co., Inc. Apparatus and method for producing a controlled ozone content in oxygen. 2,937,983, 5-24-60, Cl. 204-193.
- Ryan, F. B., Mfg. Co.: *See*—  
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- Ryan, Francis B., to F. B. Ryan Mfg. Co. Reel trailer and cable layer. 2,943,583, 7-5-60, Cl. 111-5.
- Ryan, Frank E., Jr. Balloon target shooting apparatus. 2,925,078, 2-16-60, Cl. 124-17.
- Ryan, James F., Jr., to Barmotline Products, Inc. Automatic gasoline dispensing hose-nozzle valve. 2,929,418, 3-22-60, Cl. 141-225.
- Ryan, James F., Jr., to W. F. and John Barnes Co. Apparatus for packaging a liquid under pressure. 2,931,150, 4-5-60, Cl. 53-112.
- Ryan, James J. Flight recorder. 2,959,459, 11-8-60, Cl. 346-7.
- Ryan, John C. Control device for brake-holding mechanism. 2,966,565, 12-27-60, Cl. 200-82.
- Ryan, John F.: *See*—  
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- Ryan, John J.: *See*—  
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- Ryan, John W. Rolling-block rifle. 2,962,016, 11-29-60, Cl. 124-2.
- Ryan, John W. Cap gun with pendulum means for producing sound. 2,962,830, 12-6-60, Cl. 42-57.
- Ryan, Joseph D.: *See*—  
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- Ryan, Joseph J.: *See*—  
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- Ryan, Kelly P. Tongue supporting jack mechanism for trailer-type vehicle. 2,939,679, 6-7-60, Cl. 254-86.
- Ryan, Maurice A., to International Paper Co. Quick-opening pasted multiwall paper bag. 2,923,456, 2-2-60, Cl. 229-55.
- Ryan, Paul A., to International Research & Development Corp. Automatic direction finding device for aircraft. 2,943,323, 6-28-60, Cl. 343-120.
- Ryan, Thomas J.: *See*—  
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- Ryan, William H., and V. K. Walworth, to Polaroid Corp. Processing of molecularly oriented sheets of transparent, linear, high molecular weight, hydroxyl-containing polymers to improve the dyeing qualities thereof. 2,931,295, 4-5-60, Cl. 101-149.1.
- Ryan, William H., and V. K. Walworth, to Polaroid Corp. Processing of molecularly oriented sheets of transparent, linear, high molecular weight, hydroxyl-containing polymers to improve the dyeing qualities thereof. 2,931,296, 4-5-60, Cl. 101-149.1.
- Ryan, William J. Automatic power transmission. 2,955,477, 10-11-60, Cl. 74-190.
- Ryant, Charles J., Jr., and S. F. Kapff, to Standard Oil Co. Vacuum equilibrium flash vaporization equipment. 2,949,768, 8-23-60, Cl. 73-53.
- Ryba, Anton, to Zahnradfabrik Friedrichshafen. Electromagnetic friction clutch. 2,946,419, 7-26-60, Cl. 192-84.
- Ryba, Robert J.: *See*—  
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- Rychlik, Frank J. Pump and valve therefor. 2,954,048, 9-27-60, Cl. 137-512.15.
- Ryck, Francis M.: *See*—  
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- Ryck, Francis M., to General Motors Corp. Windshield wiper blade. 2,920,335, 1-12-60, Cl. 15-245.
- Ryck, Francis M., to General Motors Corp. Wiper blade. 2,939,165, 6-7-60, Cl. 15-250.36.
- Ryck, Francis M., to General Motors Corp. Wiper arm connector attachment means. 2,958,892, 11-8-60, Cl. 15-250.32.
- Ryck, Francis M., to General Motors Corp. Windshield wiper blade. 2,964,776, 12-20-60, Cl. 15-250.42.
- Ryckaert, Andre: *See*—  
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- Rydberg, John A., to A. B. Asbrink & Co. Mobile pneumatic cleaning device. 2,932,845, 4-19-60, Cl. 15-346.
- Ryder, Frank A., to Stewart-Warner Corp. Quiet operating combustion heater. 2,964,103, 12-13-60, Cl. 158-28.
- Ryder, Fred, and J. R. Redpath, to Chicago Carton Co. Carrying carton. 2,957,602, 10-25-60, Cl. 220-113.
- Ryder, Fred A., to Chicago Carton Co. Tape dispensing package. 2,921,674, 1-19-60, Cl. 206-52.
- Ryder, Harold E., Jr. Rack shaft locking means. 2,933,290, 4-19-60, Cl. 255-22.
- Ryder, Harold F.: *See*—  
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- Rye, John K.: *See*—  
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- Rye, John L., to The Keelavite Co. Ltd. Hydraulic control of brakes. 2,945,572, 7-19-60, Cl. 192-8.
- Ryen, Earl S., to Crouse-Hinds Co. Barrel inspection light. 2,939,945, 6-7-60, Cl. 240-2.18.
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- Ryer, Jack, M. F. Fontaine, and H. V. Hess, to Texaco Inc. Dealkylation of alkyl-substituted naphthalenes. 2,943,120, 6-28-60, Cl. 260-672.
- Ryer, Jack, M. F. Fontaine, and E. R. Christensen, to Texaco Inc. Production of motor fuels from olefin-containing naphthas with a catalyst comprising zinc oxide and zinc chromite. 2,960,460, 11-15-60, Cl. 208-134.
- Rygiel, Joseph R.: *See*—  
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- Ryker, Don W.: *See*—  
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- Rylander, Arthur F., H. A. Vogel, and R. F. Roach, to Pittsburgh Plate Glass Co. Heat hardenable phenolic resin compositions comprising blends of alkenylphenol-aldehyde resins and polyvinylacetal resins and metal base coated therewith. 2,964,491, 12-13-60, Cl. 260-43.
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- Rylander, Paul N., to Standard Oil Co. Solvent extraction process. 2,922,808, 1-26-60, Cl. 260-450.
- Rylander, Paul N., to Standard Oil Co. Extraction with gamma-butyrolactone. 2,930,810, 3-29-60, Cl. 260-450.
- Rylander, Paul N., to Standard Oil Co. Solvent extraction of oil-soluble water-immiscible alcohols using dimethyl-sulfoxide. 2,954,392, 9-27-60, Cl. 260-450.
- Rylander, Paul N., and L. M. Berkowitz, to Engelhard Industries, Inc. Purification of olefins selective hydrogenation of monosubstituted 1-olefins with a ruthenium catalyst. 2,944,094, 7-5-60, Cl. 260-677.
- Rylander, Paul N., and T. D. Nevitt, to Standard Oil Co. Activation of metals for grignard type syntheses. 2,952,596, 9-13-60, Cl. 204-154.
- Rylands Brothers Ltd.: *See*—  
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- Rymer, Richard H.: *See*—  
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- Rymer, Russell S., to Associated Ventures, Inc. Charcoal lighter. 2,939,773, 6-7-60, Cl. 44-35.
- Rymland, Murray J. Spring cushion assembly employing cylindrical springs. 2,942,278, 6-28-60, Cl. 5-271.
- Rymland, Murray J. Method and structure for the manufacture of spring assemblies. 2,961,667, 11-29-60, Cl. 5-259.
- Rynders, Robert D.: *See*—  
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- Rynearson, Robert L.: *See*—  
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- Rypinski, Chandos A., Jr., to R. D. Collins. Telephone sub-set current generator. 2,963,552, 12-6-60, Cl. 179-17.
- Rys, Tadeusz J.: *See*—  
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- Ryser, Ernst,  $\frac{1}{2}$  to B. Voumard. Sliding clasp fasteners. 2,959,833, 11-15-60, Cl. 24-205.1.
- Ryser, Gottlieb: *See*—  
Guex, Waldemar, Isler, Rüegg, and Ryser. 2,948,748.
- Ryser, Leo W., W. W. White, J. D. Brown, and H. A. Franklin, to Peter Kiewit Sons', Inc. Method for forming concrete piles. 2,920,455, 1-12-60, Cl. 61-57.
- Ryskiewicz, Edward E., to International Business Machines Corp. Photosensitive materials and recording media. 2,927,025, 3-1-60, Cl. 96-90.
- Rysti, Alpo, to Oy. Kaukas Ab. Arrangement in conveyors for lumber. 2,920,741, 1-12-60, Cl. 198-33.
- Rytina, Anton W.: *See*—  
Gusman, Samuel, and Rytina. 2,951,048.
- Rywak, John, to Northern Electric Co., Ltd. Gating circuits. 2,953,695, 9-20-60, Cl. 307-88.5.
- Ryznar, John W., to Nalco Chemical Co. Mold release agents for use in die casting. 2,923,041, 2-2-60, Cl. 22-192.
- S.A. Ateliers de Construction Prefabriquee de Maxeville-Studal: *See*—  
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- S.A. Emboutissage et Usinage de Saint-Denis: *See*—  
Pauquet, André. 2,953,121.
- S.A.F.F.A.-S.p.A. Fabbriche Flammiferi ed Affini: *See*—  
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- S.A. Plastus: *See*—  
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- S.A.R.O.M. Societa Azionaria Raffinazione Olii Minerali: *See*—  
Mignone, Tomaso. 2,953,501.
- S.A.S.I.B.-S.p.A. Scipione Innocenti-Bologna: *See*—  
Innocenti, Scipione. 2,930,381.  
Innocenti, Scipione. 2,946,579.
- S.A.S. Lavorazione Materie Plastiche (L.M.P.) di M.I. Colombo & C.: *See*—  
Colombo, Roberto. 2,954,581.
- S & C Electric Co.: *See*—  
Baker, Charles H. 2,954,448.  
Beebe, Emmett R. 2,922,459.  
Lindell, Sigurd I. 2,922,864.  
Lindell, Sigurd I. 2,954,449.  
Lindell, Sigurd I. 2,961,514.  
Mikos, John J. 2,954,450.
- S.D.M. Enterprises, Inc.: *See*—  
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- S & H Products, Inc.: *See*—  
Straitwell, Harold L., Jr. 2,933,852.
- S I Handling Systems, Inc.: *See*—  
Bradt, Lynn, and Stewart. 2,936,718.  
Rodd, Raymond D. 2,936,719.
- S-J Chemical Co.: *See*—  
Smith-Johannsen, Robert. 2,940,871.
- SKF Kugellagerfabriken G.m.b.H.: *See*—  
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Kraft, Walter. 2,955,330.  
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- S K & H Equipment Ltd.: *See*—  
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- S-M Tappet Sales: *See*—  
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- S.O.S. B-Skod I/S: *See*—  
Snitker, Jens C. 2,927,353.
- S.p.A. Alessandro Calzoni: *See*—  
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- S.p.A. "Vetrocoke": *See*—  
Giammarco, Giuseppe. 2,943,910.
- S.p.A. Virginio Rimoldi & C.: *See*—  
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- S & S Corrugated Paper Machinery Co., Inc.: *See*—  
Shields, Albert F. 2,931,520.  
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- S. & S. Industries, Inc.: *See*—  
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- S & W Curb Clamp, Inc.: *See*—  
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- SWF-Spezialfabrik Fur Autozubehar Gustav Rau G.m.b.H.: *See*—  
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- Saal, Frederick A., to Bell Telephone Laboratories, Inc. Traffic simulation. 2,941,039, 6-14-60, Cl. 179-15.
- Saal, Frederick A., and I. Welber, to Bell Telephone Laboratories, Inc. Time assignment speech interpolation system. 2,935,569, 5-3-60, Cl. 179-15.
- Saalfank, Royal B., to Milton Roy Co. Stroke-adjusting mechanism. 2,951,446, 9-8-60, Cl. 103-38.
- Saar, Robert P., to Henry Pratt Co. Rotary valve. 2,941,779, 6-21-60, Cl. 251-175.
- Saarento, Aulis, to Ansola Oy. Door handle lock. 2,945,719, 7-19-60, Cl. 292-169.
- Saari, Frank, and G. V. W. Roth, to Monarch Equipment Corp. Sand traps. 2,957,718, 10-25-60, Cl. 291-11.
- Saari, Oliver E.: *See*—  
Bohle, Fred, and Saari. 2,938,436.
- Saari, Oliver E., to Illinois Tool Works. Multiple skew-axis gearing. 2,935,885, 5-10-60, Cl. 74-425.
- Saari, Oliver E., to Illinois Tool Works. Skew axis gearing. 2,954,704, 10-4-60, Cl. 74-466.
- Saari, Veikko K.: *See*—  
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- Saarinien, Eero. Articles of furniture and supports therefor. 2,939,517, 6-7-60, Cl. 155-134.
- Saarivirta, Matti J., to American Metal Climax, Inc. Process for making wrought copper-titanium alloys. 2,943,960, 7-5-60, Cl. 148-12.7.
- Sabatini, John J., to Bendix Aviation Corp. Reversible engine starter gearing. 2,926,531, 3-1-60, Cl. 74-9.
- Sabatini, John J., to Bendix Aviation Corp. Engine starter gearing. 2,932,201, 4-12-60, Cl. 74-7.
- Sabee, Reinhardt N.: *See*—  
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- Sabel, Richard H., to Flexonics Corp. Flexible gas burner. 2,962,091, 11-29-60, Cl. 153-105.
- Sabel, William: *See*—  
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- Sabia, Frank A.: *See*—  
Logan, Bruce G., and Sabia. 2,956,944.
- Sabine, David B.: *See*—  
Freedman, Louis, Blitz, Sabine, and Elgen. 2,939,821.
- Sabins, Rolland C. Device and its use for protecting elements against galvanic dissolution. 2,934,485, 4-26-60, Cl. 204-197.
- Sabins, Rolland C. Electrolytic system. 2,963,413, 12-6-60, Cl. 204-196.
- Sablottne, Heinrich. Rail joint. 2,929,560, 3-22-60, Cl. 238-204.
- Sabo, Stephen C.: *See*—  
Stemmons, Charles O., and Sabo. 2,926,011.  
Stemmons, Charles O., and Sabo. 2,962,757.
- Sabo, Stephen C., to The B. F. Goodrich Co. Ventilation garment for inflatable flying suit. 2,935,748, 5-10-60, Cl. 2-81.
- Sabo, Stephen C., to The B. F. Goodrich Co. Inflatable flotation vest. 2,950,488, 8-30-60, Cl. 9-316.
- Sabol, Albert R.: *See*—  
Karll, Robert E., Sabol, and Richardson. 2,921,901.
- Sabol, Albert R., to Standard Oil Co. Lubricating oil additives and preparation thereof. 2,965,569, 12-20-60, Cl. 252-32.7.
- Sabol, Albert R., and R. E. Karll, to Standard Oil Co. Preparation of metal salts of phosphorus sulfide-hydrocarbon reaction products. 2,962,493, 11-29-60, Cl. 260-139.
- Sabol, Andrew J. Free piston injection engine. 2,957,305, 10-25-60, Cl. 60-13.
- Sabol, Michael S., and J. A. Szczepanik, to ACF Industries, Inc. Lading barrier or bulkhead structure. 2,956,518, 10-18-60, Cl. 105-376.
- Sabotka, Chester W.: *See*—  
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- Sabre Research Corp.: *See*—  
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- Sacchi, Eduardo M., and H. G. Luther, to Chas. Pfizer & Co., Inc. Process for stimulating conception in animals. 2,944,541, 7-12-60, Cl. 128-1.
- Sacchini, Columbus R.: *See*—  
Hungerford, Philip C., Jr., and Sacchini. 2,961,267.
- Sacchini, Columbus R., to Curtiss-Wright Corp. Marguerite Metal Products Division. Method of producing a clutch spring having control coils. 2,922,220, 1-26-60, Cl. 29-173.
- Sacchini, Columbus R., to Curtiss-Wright Corp. Textile spindles, particularly for top driving of filling quills. 2,922,274, 1-26-60, Cl. 57-130.
- Sacchini, Columbus R., to Curtiss-Wright Corp. Winch or hoist brake. 2,961,217, 11-22-60, Cl. 254-186.
- Sachs, Alfred L.: *See*—  
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- Sachs, Irving H., and R. Sefcik, to J. Chain & Co. Spinning toy. 2,961,794, 11-29-60, Cl. 46-47.
- Sachs, Louis. Urine receptacle. 2,937,645, 5-24-60, Cl. 128-295.
- Sachs, Samuel C. Conduit-supporting device. 2,937,833, 5-24-60, Cl. 248-49.
- Sachsel, George F.: *See*—  
Nack, Herman, and Sachsel. 2,938,233.
- Sachsenroder, Gustav, Sr., and T. Schroder. Tying pliable containers. 2,949,630, 8-23-60, Cl. 17-34.
- Sachtleben, Lawrence T., to Radio Corp. of America. Composite photography. 2,961,920, 11-29-60, Cl. 88-24.
- Sachtler, Wendelin. Camera panning heads. 2,957,365, 10-25-60, Cl. 74-572.
- Sack, Edgar A., Jr., to Westinghouse Electric Corp. Display device. 2,922,993, 1-26-60, Cl. 340-324.
- Sack, Edgar A., Jr., and J. A. Asars, to Westinghouse Electric Corp. Display device. 2,922,076, 1-19-60, Cl. 315-71.
- Sack, Henri, and C. Cousin, to Etablissement Public dite: Houilleres du Bassin du Nord et du Pas-de-Calais. Process for preparing, by a mechanical way, polyethylenes with homogeneous physico-chemical properties. 2,960,724, 11-22-60, Cl. 18-48.



- Sackett, Thomas H., and P. F. Glass, to Johnston Testers, Inc. Fill up valve for well strings. 2,947,363, 8-2-60, Cl. 166-224.
- Sackett, Walter J. Apparatus for forming powdered materials into granules or pellets. 2,952,866, 9-20-60, Cl. 18-1.
- Sacks, Edward L.: *See—*
- Shanahan, William J., Vetter, and Sacks. 2,965,702.
- Sacks, Jacob M.: *See—*
- Blutman, Eli, and Sacks. 2,953,776.
- Sacks, Jacob M., to United States of America, Navy. Diode gate circuit. 2,931,919, 4-5-60, Cl. 307-88.5.
- Sacks, Jacob M., to Zenith Radio Corp. Subscription television. 2,954,423, 9-27-60, Cl. 178-5.1.
- Sacks, Jacob M., and E. D. Heberling, to United States of America, Navy. Rapid reduction of telemetric data. 2,961,648, 11-22-60, Cl. 340-347.
- Sacks, Milton: *See—*
- Nalin, Edward, Yoss, Sacks, and Smedresman. 2,963,402.
- Sacks, Milton, to Nysco Laboratories, Inc. Insufflator. 2,946,332, 7-26-60, Cl. 128-266.
- Saco-Lowell Shops: *See—*
- Adams, Andrew C. 2,927,364.
- Burnham, Virgil A. 2,951,266.
- Ingraham, Garfield B. 2,962,770.
- Ingraham, Garfield B., and Truslow. 2,934,796.
- Neal, Charles M. 2,959,908.
- Park, Arthur L. 2,927,363.
- Pray, Lester W. 2,931,593.
- Tarbox, Philip B. 2,927,348.
- Tarbox, Philip B. 2,940,130.
- West, Paul B. 2,944,302.
- West, Paul B. 2,951,268.
- Saco, William J.: *See—*
- Emmick, Frank C., and Saco. 2,935,751.
- Saczawa, Matthew F.: *See—*
- Budney, Michael P., H. S., T. W., and Saczawa. 2,931,253.
- Sadd, John A., to National Research Development Corp. Hypodermic injection apparatus. 2,921,582, 1-19-60, Cl. 128-173.
- Sader, Louis A.,  $\frac{1}{2}$  to J. J. Digiovanni. Safety device. 2,966,001, 12-27-60, Cl. 43-44.95.
- Sadir-Carpentier: *See—*
- Zisler, Siegfried. 2,921,311.
- Zisler, Siegfried. 2,939,143.
- Sadler, Arthur M., C. D. Mitchell, and H. E. Walter, to United States of America, Agriculture. Method of manufacturing cheese. 2,942,983, 6-28-60, Cl. 99-116.
- Sadler, Carl L., and F. T. Fariss, to Sundstrand Corp. Control for variable displacement pump. 2,941,480, 6-21-60, Cl. 103-162.
- Sadler, John H. Starting torch for liquid fuel burner. 2,925,126, 2-16-60, Cl. 158-76.
- Sadler, Peter, to N.G.N. Electrical Ltd. Rotary pumps and valves therefor. 2,929,550, 3-22-60, Cl. 230-147.
- Sadler, Peter, to N.G.N. Electrical Ltd. Vacuum pumping apparatus. 2,935,243, 5-3-60, Cl. 230-45.
- Sadorf, John, to Geo. Stevens Mfg. Co. Winding machine. 2,959,372, 11-8-60, Cl. 242-158.4.
- Sadow, Leonard B.: *See—*
- Hilliard, William A., and Sadow. 2,937,271.
- Sadow, Leonard B., to Longines-Wittnauer Watch Co., Inc. Indicating atmospheric responsive instrument with calibrating adjustment. 2,931,226, 4-5-60, Cl. 73-336.
- Sadowsky, Wilson, and C. L. Burns, to Essex Wire Corp. Electric switch. 2,961,519, 11-22-60, Cl. 200-168.
- Sadwith, Howard M. Automatic cleaning machine. 2,943,424, 7-5-60, Cl. 51-164.
- Saeger, Waldemar, to Radio Corp. of America. Signal detecting circuit. 2,920,239, 1-5-60, Cl. 315-170.
- Saeki, Osamu: *See—*
- Taniyama, Toshio, Saeki, Karato, and Usamoto. 2,957,758.
- Safe Flight Instrument Corp.: *See—*
- Greene, Leonard M. 2,964,744.
- Greene, Leonard M., and Nelson. 2,945,375.
- Safeguard Corp.: *See—*
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- Safety Automatic Brake Corp.: *See—*
- Hemphill, Stanley R. 2,959,261.
- Safety Socket Screw Co.: *See—*
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- Safeway Stores, Inc.: *See—*
- Pfeffer, John C. 2,964,211.
- Saffer, Alfred: *See—*
- Barker, Robert S., and Saffer. 2,963,508.
- Barker, Robert S., and Saffer. 2,963,509.
- Barker, Robert S., and Saffer. 2,966,515.
- Egbert, Robert B., Landau, and Saffer. 2,920,119.
- Landau, Ralph, Egbert, and Saffer. 2,920,118.
- Saffer, Alfred, and D. Brown, to Mid-Century Corp. Process for separating ethyl benzene from xylene-containing mixtures. 2,922,827, 1-26-60, Cl. 260-674.
- Safferling, Anton, to Kugelfischer Georg Schafer & Co. Method of and device for carrying out nondestructive hardness tests. 2,952,806, 9-13-60, Cl. 324-34.
- Saffir, Jacob A., to The Dentists' Supply Co. of New York. Artificial teeth. 2,920,390, 1-12-60, Cl. 32-8.
- Saffir, Jacob A. Cigarettes. 2,936,763, 5-17-60, Cl. 131-15.
- Saffir, Jacob A. Cigarettes. 2,954,035, 9-27-60, Cl. 131-10.
- Saffir, Jacob A. Strapless shoe. 2,965,982, 12-27-60, Cl. 36-25.
- Safford, Moyer M., and R. L. Myers, to General Electric Co. Polyethylene blend. 2,924,559, 2-9-60, Cl. 204-154.
- Safford, Moyer M., and M. L. Corrin, to General Electric Co. Polyethylene composition containing di-*cumyl* peroxide, silica, and a stabilizer, and process of making same. 2,928,801, 3-15-60, Cl. 260-41.
- Safanoff, Albert: *See—*
- Lerner, Louis L., Oberstar, and Safanoff. 2,964,770.
- Lerner, Louis L., and Safanoff. 2,920,624.
- Lerner, Louis L., and Safanoff. 2,922,425.
- Lerner, Louis L., and Safanoff. 2,954,574.
- Safir, Sidney R.: *See—*
- Izzo, Patrick T., and Safir. 2,927,114.
- Lopresti, Rocco J., Safir, Young, and Rauh. 2,940,980.
- Safley, Louis H., to The Chemstrand Corp. Control system for textile apparatus. 2,962,771, 12-6-60, Cl. 19-43.3.
- Safreno, Douglas E. Rack for vehicle cab. 2,929,539, 3-22-60, Cl. 224-1.
- Saf-T-Boom Corp.: *See—*
- Thomas, Arthur J. 2,950,016.
- Saf-T-Brake Valve Co., Inc.: *See—*
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- Safway Steel Products, Inc.: *See—*
- Anderson, Arvid A., and Hauck. 2,928,642.
- Sagady, Alexander J., to General Motors Corp. Signal modifier valve. 2,927,568, 3-8-60, Cl. 123-119.
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- Sagar, Harold: *See—*
- Batty, John W., Henshall, and Sagar. 2,955,960.
- Sagar, Paul B. Induced draft gas fired space heating system. 2,944,596, 7-12-60, Cl. 158-7.
- Sagarin, Philip H., to Valve Corp. of America, Inc. Container and valve assembly. 2,957,611, 10-25-60, Cl. 222-394.
- Sage Electronics Corp.: *See—*
- Nelson, Robert H. 2,942,222.
- Sage, Philip G. Garment hanger structure. 2,944,711, 7-12-60, Cl. 223-94.
- Sager, Gunter, and A. E. Sowers, to General Dynamics Corp. Time position memory circuit. 2,932,013, 4-5-60, Cl. 340-174.
- Sager, Robert H. Auxiliary sun glasses. 2,949,609, 8-23-60, Cl. 2-13.
- Saginaw Wire Products Inc.: *See—*
- Hoern, Joseph H. 2,930,412.
- Sagner, Stanley, to A. Sagner's Son. Garments with waistbands having pockets attached thereto. 2,930,046, 3-29-60, Cl. 2-227.
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- Sagner, Stanley. 2,930,046.
- Sago, Yoshiharu, S. Nemoto, and M. Kakunodate, to Canon Camera Co., Inc. Safety device for shutter release in camera. 2,930,303, 3-29-60, Cl. 95-31.
- Sagona, Charles. Internal combustion engines. 2,941,522, 6-21-60, Cl. 123-64.
- Sagura, John J.: *See—*
- Allen, Charles F. H., Illingsworth, and Sagura. 2,948,614.
- Sagura, John J., and J. A. Van Allan, to Eastman Kodak Co. Azide sensitized resin photographic resist. 2,940,853, 6-14-60, Cl. 96-91.
- Sah, Peter P. T., to The Regents of the University of California. Anti-tubercular agents. 2,940,899, 6-14-60, Cl. 167-65.
- Sahlin Engineering Co., Inc.: *See—*
- Sahlin, Henry. 2,943,748.
- Sahlin, Henry; R. T. Sahlin and National Bank of Detroit, executors, to Sahlin Engineering Co., Inc. Loading and unloading apparatus. 2,943,748, 7-5-60, Cl. 214-1.
- Sahlin, Richard A., to Remington Arms Co., Inc. Electric primer. 2,960,032, 11-15-60, Cl. 102-46.
- Sahlin, Richard T.: *See—*
- Sahlin, Henry. 2,943,748.
- Sahyun Laboratories: *See—*
- Faust, John A., and Sahyun. 2,953,565.
- Sahyun, Melville, and Faust. 2,948,724.
- Sahyun, Melville: *See—*
- Faust, John A., and Sahyun. 2,953,565.
- Sahyun, Melville, and J. A. Faust; said Faust assor. to said Sahyun, d.b.a. Sahyun Laboratories. Halogenated derivatives of tetrahydro-1-naphthyl cyclic amidines. 2,948,724, 8-9-60, Cl. 260-251.
- Saiberlich, Erwin W., to Fox River Tractor Co. Sand and chip spreaders. 2,954,982, 10-4-60, Cl. 275-8.
- Saidel, William R.,  $\frac{1}{4}$  to T. N. Cummings,  $\frac{1}{4}$  to B. R. Peterson, Jr.,  $\frac{1}{4}$  to T. B. Shiu, and  $\frac{1}{4}$  to N. A. Cummings. Blank for a conical container. 2,966,292, 12-27-60, Cl. 229-1.5.
- Saidel, William R., and J. M. Heigl, to Swift & Co. Bacon carton. 2,963,215, 12-6-60, Cl. 229-51.
- Saint, T. R., to Jabez Burns & Sons, Inc. Method for brewing coffee. 2,948,618, 8-9-60, Cl. 99-71.
- Saint-Amour, John D., and G. J. Crowdes, Jr., to Assembly Products, Inc. Circuit for contact meters. 2,947,919, 8-2-60, Cl. 317-152.
- St. Arnaud, Arthur L.: *See—*
- Lovrinch, Louis B., and St. Arnaud. 2,955,504.



- St. Clair, Leo J., to Adamas Carbide Corp. Tool holder. 2,930,111, 3-29-60, Cl. 29-96.
- St. Clair, Theodore A., to Garment hanger. 2,926,824, 3-1-60, Cl. 223-95.
- St. Clair, Theodore A., to P. D. Wurzbarger. Tube coupling with deformable pipe gripping cutting means. 2,943,871, 7-5-60, Cl. 285-342.
- St. Clair, Theodore A., R. W. Phillips, and R. P. Boyle, to The Weatherhead Co. Hose coupling having upset locking means. 2,926,029, 2-23-60, Cl. 285-256.
- St. Clair, William E., to Koppers Co., Inc. Bearing member. 2,956,848, 10-18-60, Cl. 309-44.
- Saint Frison, Louis H. N.: *See*—  
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- Neuville, Louis P. F. A., and Saint Frison. 2,952,455.
- St. Jean, Robert R.: *See*—  
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- St. Jean, Robert R., to Worcester Automatic Machine Co. Material handling apparatus. 2,951,725, 9-6-60, Cl. 294-97.
- St. Jean, Robert R., and W. H. Warman, to Worcester Automatic Machine Co. Stacking apparatus. 2,924,342, 2-9-60, Cl. 214-16.
- St. Joe Machines, Inc.: *See*—  
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- St. Joe Paper Co.: *See*—  
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- St. John, Alexander N. T., and B. M. Walker, to Resistoflex Corp. Method of fabricating a polyester polytetrafluoroethylene resin laminated pipe. 2,932,597, 4-12-60, Cl. 154-83.
- St. John, Michael J.: *See*—  
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- St. John, Wayne L., and W. J. Griebstein, to The Procter & Gamble Co. Detergent composition. 2,954,347, 9-27-60, Cl. 252-109.
- St. John, Willard M., Jr., to Phillips Petroleum Co. Solid composite propellants with burning rate catalyst. 2,941,352, 6-21-60, Cl. 60-35.4.
- St. John, Willard M., Jr., to Phillips Petroleum Co. Rocket propellant composition and method of mixing propellant compositions. 2,952,530, 9-13-60, Cl. 52-5.
- St. Johnston, Andrew, to International Business Machines Corp. Electronic digital computing machines. 2,952,837, 9-13-60, Cl. 340-172.5.
- St. Marie, Hilaire E., to Snappy, Inc. Heating conduit fitting having guiding and camming means. 2,935,340, 5-3-60, Cl. 285-18.
- St. Mars, Yvon, to Trinity Ladder Inc. Ladder assemblies. 2,926,746, 3-1-60, Cl. 182-26.
- St. Pierre, Henry. Traction chain for vehicles. 2,950,750, 8-30-60, Cl. 152-231.
- St. Pierre, John N., to Carrier Corp. High side pressure control for refrigeration systems. 2,952,991, 9-20-60, Cl. 62-184.
- St. Regis Paper Co.: *See*—  
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- Bruce, Donald S., and Heise. 2,954,353.
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- Peterson, William R. 2,930,569.
- Sheard, William G. 2,962,159.
- Titchenal, Oliver R. 2,955,796.
- Sainty, Christopher L., to Structural Concrete Components Ltd. Manufacture of pellets or granular material. 2,938,230, 5-31-60, Cl. 18-4.
- Sair, Louis, to The Griffith Laboratories, Inc. Blood base coloring composition. 2,938,800, 5-31-60, Cl. 99-148.
- Sair, Louis, to The Griffith Laboratories, Inc. Production of proteinaceous dry syrup composition and the resulting product. 2,947,636, 8-2-60, Cl. 99-142.
- Sair, Louis, to The Griffith Laboratories, Inc. Production of comminuted meat products. 2,964,409, 12-13-60, Cl. 99-108.
- Saito, Hachio. Pitching machines. 2,921,574, 1-19-60, Cl. 124-29.
- Saito, Tomizo. Grinding disc for grinding mills. 2,950,872, 8-30-60, Cl. 241-296.
- Sakaguchi, Kinichiro, S. Abe, and T. Beppu, to Kyowa Hakko Kogyo Kabushiki Kaisha. Method of producing alloisocitric acid by fermentation. 2,949,404, 8-16-60, Cl. 195-36.
- Sakaki, Yoshinobu. Remote control device for an electrically driven miniature cinematographic camera. 2,927,226, 3-1-60, Cl. 307-156.
- Sakal, Emile L.: *See*—  
Van Wessem, Gilbert C., and Sakal. 2,960,441.
- Sakornbut, Songe S., to Monsanto Chemical Co. Impregnating composition. 2,926,096, 2-23-60, Cl. 106-15.
- Sakuragi, Taketami: *See*—  
Kummerow, Fred A., and Sakuragi. 2,955,115.
- Sala, Antillo. Geothermic central plant for the production of energy, with uncondensable gases compressor-extractors directly operated by the engines producing the energy. 2,927,428, 3-8-60, Cl. 60-40.
- Sala, Luis C. Transmission mechanism for doll with independently movable limbs. 2,927,467, 3-8-60, Cl. 74-42.
- Salak, Michael, C. R. Keating, Jr., and R. L. Wilson, to American Brake Shoe Co. Brake shoes. 2,943,713, 7-5-60, Cl. 188-251.
- Salant, Abner S., to General Foods Corp. Process for treating thiamine. 2,945,039, 7-12-60, Cl. 260-256.6.
- Sajas, Joseph G. Window washer's platform. 2,925,139, 2-16-60, Cl. 182-62.
- Salati, Emdio. Coffee infusion preparing machine with hydrocompressor. 2,925,027, 2-16-60, Cl. 99-302.
- Sale, William H., to Standard Car Truck Co. Lubricant applying pad for railway car journals. 2,919,959, 1-5-60, Cl. 308-88.
- Sale, William H., to The Journalstop Co. Journal stop. 2,941,849, 6-21-60, Cl. 308-40.
- Sale, William H., to Kiasing Hand Brake Co. Journal box lid with sealing and venting means therefor. 2,962,326, 11-29-60, Cl. 308-47.
- Salem, Samuel, and R. H. Spelman, to The General Tire and Rubber Co. Method and apparatus for treating fiber cords. 2,932,901, 4-19-60, Cl. 34-23.
- Salem, Samuel, and R. E. Bingham, to The General Tire & Rubber Co. Treatment of polyethylene terephthalate fibers. 2,938,823, 5-31-60, Cl. 154-139.
- Salem Tool Co.: *See*—  
Adams, George L. 2,940,740.
- Carothers, William D. 2,951,693.
- McCarthy, Vincent J. 2,935,309.
- Salentine, Herbert M. Deep well pump reciprocator. 2,950,685, 8-30-60, Cl. 103-45.
- Sales, Charles M. Hydraulic hoist. 2,931,627, 4-5-60, Cl. 254-139.
- Salhofer, Josef F., to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing polyvinyl chloride foils of low turbidity. 2,923,137, 3-15-60, Cl. 18-57.
- Salice, Arturo. Circular shaped double-acting spring hinge, especially for doors of furniture. 2,940,116, 6-14-60, Cl. 16-182.
- Salinas, Victor H.: *See*—  
Lapetina, Charles J., and Salinas. 2,949,699.
- Salisbury, Beryl T. Radio receiver mounted on wall receptacle. 2,934,639, 4-26-60, Cl. 250-14.
- Salisbury, Ellsworth C., to Mundean Mfg. Co. Vending machine. 2,934,239, 4-26-60, Cl. 221-109.
- Salisbury, Ellsworth C., and D. H. Lyons, to Ideal Dispenser Co. Article dispensing apparatus. 2,933,217, 4-19-60, Cl. 221-109.
- Salisbury, Frank M., to Carmody Corp. Simulated circuit breaker teaching device. 2,924,890, 2-16-60, Cl. 35-10.
- Salisbury, Frank M., and E. O. Carmody, to Carmody Corp. Question and answer device. 2,924,025, 2-9-60, Cl. 35-9.
- Salisbury, George F., to W. H. Salisbury & Co. Protective device. 2,927,146, 3-1-60, Cl. 174-5.
- Salisbury, Samuel H., and C. M. White, to Olin Mathieson Chemical Corp. Penetrant composition. 2,951,039, 8-30-60, Cl. 252-33.3.
- Salisbury, W. H., & Co.: *See*—  
Salisbury, George F. 2,927,146.
- Salisbury, Winfield W., to Zenith Radio Corp. Direct radiation vacuum tube. 2,939,998, 6-7-60, Cl. 315-4.
- Salisbury, Winfield W., to Zenith Radio Corp. Air-core transformer. 2,963,669, 12-6-60, Cl. 336-192.
- Salkin, Ralph, to S. B. Penick and Company. Purification of weakly basic alkaloids by the use of naphthoate salts. 2,948,729, 8-9-60, Cl. 260-236.
- Sallach, Max E., to Addressograph-Multigraph Corp. Comparison devices. 2,920,310, 1-5-60, Cl. 340-149.
- Sallans, Henry R.: *See*—  
Phillips, Kenneth L., and Sallans. 2,948,351.
- Saller, Erik, to Food Machinery and Chemical Corp. Process of purifying carbon tetrachloride. 2,945,796, 7-19-60, Cl. 204-163.
- Salles, John. Spear guns. 2,923,285, 2-2-60, Cl. 124-13.
- Sallmann, Richard, to Ciba Ltd. Thiophosphoric acid ester. 2,944,933, 7-12-60, Cl. 167-22.
- Sallmann, Richard, to Ciba Ltd. Organic phosphate compounds and use thereof. 2,959,516, 11-8-60, Cl. 167-22.
- Sallo, Jerome S.: *See*—  
Fisher, Robert D., Sallo, and Tsu. 2,945,217.
- Sallo, Richard L.: *See*—  
Roy, Frank P., and Sallo. 2,946,734.
- Salmet, Gaston, to North American Philips Co., Inc. Automatic frequency stabilization. 2,930,001, 3-22-60, Cl. 331-17.
- Salmi, Eino J. O. Derail with built-in replacers. 2,946,882, 7-26-60, Cl. 246-163.
- Salmon, Benjamin J. M.: *See*—  
Bertin, Jean H., and Salmon. 2,964,906.
- Paris, Francois G., Bertin, and Salmon. 2,944,391.
- Salmon, Joe E.: *See*—  
Deems, Frank E., and Salmon. 2,949,644.
- Salmon, Louis A. Rubbish barrel incinerator. 2,938,476, 5-31-60, Cl. 110-18.
- Salmon, Max. Mop. 2,929,087, 3-22-60, Cl. 15-229.
- Salmon, Oliver: *See*—  
Davidson, John K., Robb, and Salmon. 2,961,390.
- Salmon, Reginald D., and L. T. Tedham, to Creed & Co. Ltd. Platen arrangements for teleprinters and the like. 2,943,721, 7-5-60, Cl. 197-133.



- Salmon, Reginald D., and F. J. L. Turner, to Creed & Co., Ltd. Apparatus for checking recorded information. 2,960,164, 11-15-60, Cl. 164-112.
- Salo, Carl A. Shell reloading apparatus. 2,961,915, 11-29-60, Cl. 86-25.
- Salo, Martin: *See*—
- Baxter, Ernest L., and Salo. 2,959,492.
- Salo, Martin, and G. J. Clarke, to Eastman Kodak Co. Cellulose ester composition. 2,956,895, 10-18-60, Cl. 106-177.
- Sallo, Richard L.: *See*—
- Roy, Frank P., and Sallo. 2,961,691.
- Salomon, Francois M. M. B. Apparatus adapted to produce mechanical impulses of alternating opposite directions on a frame. 2,952,235, 9-13-60, Cl. 114-125.
- Salomon, Francois M. M. B. Transmission device. 2,959,971, 11-15-60, Cl. 74-198.
- Salomon, Salomon M., to Bird Machine Co. Fluid inlet device. 2,965,314, 12-20-60, Cl. 239-597.
- Salsbury Corp.: *See*—
- Galleher, Louis C. 2,966,237.
- Salt, Francis E.: *See*—
- Capp, Clifford W., Crocker and Salt. 2,948,760.
- Salter, Frank S., to The Loewy Engineering Co. Ltd. Remote positional control for hydraulic presses. 2,962,960, 12-6-60, Cl. 100-256.
- Salter Machine Co.: *See*—
- Prickett, Wilber W., and M. E. 2,966,285.
- Salter, Michael, to The General Electric Co. Ltd. Electronic integrating circuits. 2,923,889, 2-2-60, Cl. 331-17.
- Salto, Rinaldo, to Ing. C. Olivetti & C. S.p.A. Power-operated type action for typewriters and the like. 2,931,481, 4-5-60, Cl. 197-17.
- Saltz, Bernard. Exerciser. 2,959,414, 11-8-60, Cl. 272-83.
- Saltz, Bernard, and J. H. Campbell, said Campbell assor. to said Saltz. Portable hand operated sewing device. 2,928-363, 3-15-60, Cl. 112-169.
- Saltz, Morris A. Drapery pin hook package and holder. 2,951,249, 9-6-60, Cl. 1-56.
- Saltzman, Alvin R., and J. M. Rosen. Electromagnetic wave energy absorbing material. 2,923,639, 2-2-60, Cl. 252-507.
- Saltzman, Henry: *See*—
- Kowalsky, John, Saltzman, and Cloud. 2,953,784.
- Stavis, Gus, Saltzman, and Zaleski. 2,940,075.
- Salva, John. Safety lock for revolvers. 2,943,411, 7-5-60, Cl. 42-66.
- Salvage, Harry. Safety floats for cabin cruisers. 2,924,192, 2-9-60, Cl. 114-68.
- Salvat, Marcel: *See*—
- Bruck, Henri, Gendreau, and Salvat. 2,945,125.
- Salvatore Compagnone: *See*—
- Kelly, William E. 2,931,060.
- Salverda, Robert E. Trigger guard with trigger protector. 2,948,978, 8-16-60, Cl. 42-1.
- Salvi, A., & Co. gia I.F.I.: *See*—
- Christiani, Severino. 2,945,526.
- Salvi, Alessandro: *See*—
- Perrone, Arrigo, and Salvi. 2,953,624.
- Salvin, Victor S.: *See*—
- Adams, John R., Jr., and Salvin. 2,921,945.
- Adams, John R., Jr., and Salvin. 2,922,796.
- Salvox Corp.: *See*—
- Wilcox, Dwight D., Jr. 2,932,693.
- Salwasser, Melvin. Case packing machine and method. 2,941,339, 6-21-60, Cl. 53-26.
- Salyer, Ival O., and J. D. Calfee, to Monsanto Chemical Co. Blends of vinylidene chlorofluoride polymers with ethylene/vinylene carbonate copolymers. 2,934,514, 4-26-60, Cl. 260-45.5.
- Salyer, Ival O., and J. A. Herbig, to Monsanto Chemical Co. Process of polymerizing monomeric styrene in the presence of a copolymer of ethylene and vinylene carbonate. 2,945-836, 7-19-60, Cl. 260-45.5.
- Salyer, Ival O., and J. A. Herbig, to Monsanto Chemical Co. Blends of styrene-acrylonitrile copolymers with ethylene/vinylene carbonate copolymers. 2,957,847, 10-25-60, Cl. 260-45.5.
- Salzberg, Emmett R., and D. M. Goodman; said Goodman assor. to said Salzberg. Telephone-answering and message-recording system. 2,928,898, 3-15-60, Cl. 179-6.
- Salzberg, Harold K., and C. J. King, to The Borden Co. Protein and nonionic agent compositions. 2,933,406, 4-19-60, Cl. 106-125.
- Salzberg, Harold K., and C. R. Barber, to The Borden Co. Resin binder compositions. 2,953,535, 9-20-60, Cl. 260-19.
- Salzenbrodt, Walter. Receptacle having foamed frictional bottom coating. 2,951,612, 9-6-60, Cl. 220-69.
- Sälzer, Albert, to Friedrich Uhde G.m.b.H. Arrangement for a contact switch. 2,938,968, 5-31-60, Cl. 200-18.
- Salzer, Erwin, to The Chase-Shawmut Co. Electric fuses. 2,960,589, 11-15-60, Cl. 200-131.
- Salzl, Victor H. Wall forming means. 2,919,572, 1-5-60, Cl. 72-48.
- Salzmann, Gerhard M., and R. J. Schiraldi, to Colgate-Palmolive Co. Chlorophyll dental powder. 2,941,926, 6-21-60, Cl. 167-93.
- Sam, Joseph, to Bristol-Myers Co. Therapeutic compounds. 2,922,786, 1-26-60, Cl. 260-247.5.
- Sam, Samuel. Wobble dado assembly. 2,922,449, 1-26-60, Cl. 144-238.
- Samallon, Joseph M. Boat anchor and trailer stand. 2,956-529, 10-18-60, Cl. 114-208.
- Samaniego, Phillip P. Curb feeler signal. 2,930,862, 3-29-60, Cl. 200-61.44.
- Samans, Carl H.: *See*—
- Tisinal, George F., Stanley, and Samans. 2,940,879.
- Samario, Edward J.: *See*—
- Rockwell, Ronald K., and Samario. 2,946,052.
- Samburoff, Serge N., and A. H. Miller, to United States of America, Navy. Missile booster arming device. 2,954,733, 10-4-60, Cl. 102-70.
- Samcoe Holding Corp.: *See*—
- Cohn, Samuel, J., and E. 2,944,317.
- Sameshima, Kenji J.: *See*—
- MacDonald, Duncan N., Lord, and Sameshima. 2,933,205.
- Samhammer, Donald F., and R. E. Hooper, to Chicago Pneumatic Tool Co. Crust breaking apparatus. 2,964,305, 12-13-60, Cl. 262-13.
- Sammons, William A.: *See*—
- Critchley, Octavius H., Bennett, and Sammons. 2,927-292.
- Samos, George: *See*—
- Greene, Margaret W., Samos, and Tucker. 2,942,943.
- Samour, Carlos M., to The Kendall Co. Organo-metallic titanium compounds and method of making the same. 2,920,089, 1-5-60, Cl. 260-429.5.
- Samour, Carlos M., to The Kendall Co. Organo-metallic titanium compounds. 2,935,522, 5-8-60, Cl. 260-429.5.
- Samour, Carlos M., to The Kendall Co. Organo-metallic zirconium compounds and method of making the same. 2,956,071, 10-13-60, Cl. 260-429.3.
- Sampietro, Achilles C., to Thompson Ramo Wooldridge, Inc. Motor-pump unit and method of making same. 2,920,574, 1-12-60, Cl. 103-87.
- Sampietro, Achilles C., to Thompson Products Inc. Engine turbosupercharger system. 2,921,431, 1-19-60, Cl. 60-13.
- Sampietro, Achilles C., to Thompson Ramo Wooldridge Inc. Air conditioning system. 2,928,261, 3-15-60, Cl. 62-402.
- Sampietro, Achilles C., to Thompson Ramo Wooldridge Inc. Thermal electromotive force generator. 2,937,218, 5-17-60, Cl. 136-114.
- Sampietro, Achilles C., to Thompson Ramo Wooldridge Inc. Electric control system for fluid springs. 2,943,851, 7-5-60, Cl. 267-65.
- Sampietro, Achilles C., to Thompson Ramo Wooldridge Inc. Impeller for turbine engine and the like. 2,944,785, 7-12-60, Cl. 253-48.
- Sampietro, Achilles C., to Thompson Ramo Wooldridge Inc. Fuel injector. 2,946,513, 7-26-60, Cl. 239-91.
- Sampietro, Achilles C., to Thompson Ramo Wooldridge Inc. Diaphragm pump. 2,953,096, 9-20-60, Cl. 103-44.
- Sampietro, Achilles C., to Thompson Ramo Wooldridge Inc. Automotive leveling and anti-dive system. 2,954,237, 9-27-60, Cl. 230-124.
- Sampietro, Achille C. Power transmission mechanism for automobile vehicles. 2,963,106, 12-6-60, Cl. 180-70.
- Sampietro, Achilles C., and J. P. Heiss, to Thompson Ramo Wooldridge Inc. Reexpansion gas turbine engine with differential compressor drive. 2,960,825, 11-22-60, Cl. 60-39.16.
- Sample, Joseph F.: *See*—
- Hereth, Ralph F., Bremerton, and Sample. 2,960,009.
- Samples, Arthur M. Film holder for monitoring radiation. 2,946,890, 7-26-60, Cl. 250-83.
- Sampre Meccanica Di Precisione S.p.A.: *See*—
- Fusaroli, Goffredo. 2,928,625.
- Sampson Chemical & Pigment Corp.: *See*—
- Isenberg, Sampson, and Jannings. 2,941,265.
- Sampson, Ernest S., to General Electric Co. Shaft rotation indicator. 2,943,307, 6-23-60, Cl. 340-268.
- Sampson, Ernest S., and R. E. Anderson, to General Electric Co. Thermal conductivity testing. 2,951,360, 9-6-60, Cl. 73-15.
- Sampson, Frederick W.: *See*—
- Shaw, Arthur R., and Sampson. 2,945,759.
- Sampson, Frederick W., to General Motors Corp. Brake structure. 2,924,303, 2-9-60, Cl. 188-78.
- Sampson, Frederick W., to General Motors Corp. Brake structure. 2,951,562, 9-6-60, Cl. 188-264.
- Sampson, Frederick W., to General Motors Corp. Brake structure. 2,966,239, 12-27-60, Cl. 188-78.
- Sampson, George H., to Winthrop-Atkins Co., Inc. Calendar mount. 2,920,409, 1-12-60, Cl. 40-122.
- Sampson, George H., to Winthrop-Atkins Co., Inc. Calendar mount or the like. 2,946,545, 7-26-60, Cl. 248-35.
- Sampson, Herman: *See*—
- Heyl, Edgar J., Hitov, and Sampson. 2,964,208.
- Sampson, Richard E., to Bigelow-Liptak Corp. Tank fire-proofing. 2,933,917, 4-26-60, Cl. 72-14.
- Sampson, Robert C., to Westinghouse Electric Corp. Blade vibration damping structure. 2,942,843, 6-28-60, Cl. 253-77.
- Sampson, Sidney O. Automatic tape recorder including push-button control. 2,952,416, 9-13-60, Cl. 242-55.12.
- Sampson, Sidney O. Automatic dual reproducing head for tape recording device. 2,952,746, 9-13-60, Cl. 179-100.2.
- Sams, Howard W., & Co., Inc.: *See*—
- Hensler, Walter W., and Mann. 2,922,941.



- Sams, Powell F., and R. L. Teders, to The Pillsbury Co. Apparatus for treating air. 2,928,494, 3-15-60, Cl. 183-4.3.
- Samsel, Richard W., to General Electric Co. Compressional wave transducer. 2,945,208, 7-12-60, Cl. 340-10.
- Samsel, Richard W., and T. C. Madison, to General Electric Co. Static force measurement. 2,924,970, 2-16-60, Cl. 73-14.1.
- Samsel, Richard W., and G. R. Peterson, to General Electric Co. Compressional wave transducer and method of making the same. 2,928,068, 3-8-60, Cl. 340-10.
- Samson, Ralph L.: *See—*
- Zahner, Charles F., and Samson. 2,947,088.
- Samson, Richard D.: *See—*
- Loper, Harry W., and Samson. 2,965,539.
- Samuel, Arthur J., to Gulf Research & Development Co. Dispensers. 2,920,798, 1-12-60, Cl. 222-39.4.
- Samuel, Arthur J., to Gulf Research & Development Co. Aerosol dispensers and like pressurized packages. 2,924,360, 2-9-60, Cl. 222-39.4.
- Samuel, George A., and J. V. Bell, to D. Craven. Process of chromizing air hardening tool steel. 2,921,877, 1-19-60, Cl. 148-14.
- Samuel, George A., J. V. Bell, and J. G. Jackson, to D. Craven. Method of chromizing. 2,962,391, 11-29-60, Cl. 117-107.
- Samuels, Abram. Track for supporting traverse drapes. 2,930,073, 3-29-60, Cl. 16-95.
- Samuels, Abraham M., to The Dole Valve Co. Valve for detergent dispenser. 2,962,255, 11-29-60, Cl. 251-7.
- Samuels, Herbert: *See—*
- Peccha, Richard J., Samuels, and Kay. 2,953,541.
- Samuels, Martin L., to United States Pipe and Foundry Co. Method of grain refining centrifugal castings. 2,931,744, 4-5-60, Cl. 148-11.5.
- Samuels, Martin L., and J. E. Pettit, to United States Pipe and Foundry Co. Roll structure. 2,964,251, 12-13-60, Cl. 241-29.5.
- Samuels, William P., Jr.: *See—*
- Whelan, John M., Jr., and Samuels. 2,935,494.
- Samuelson, Charles T. Subaqueous drilling apparatus. 2,946,566, 7-26-60, Cl. 255-2.5.
- Samuelson, Le Roy, and I. L. Beck. Bottle take-out jaws. 2,958,556, 11-1-60, Cl. 294-86.
- Samuelson, Wallace H. E., to Piezo Crystal Co. Piezo electric crystal holder. 2,933,628, 4-19-60, Cl. 310-9.1.
- Samuelsson, John H. S., to Svenska Aeroplan Aktiebolaget. Method of forming sheet metal articles having compound curves. 2,943,587, 7-5-60, Cl. 113-51.
- Samways, Alfred J.: *See—*
- Sonmore, Stanley V., and Samways. 2,933,874.
- Samwel, Paulus J. F., to North American Philips Co., Inc. Method of preparing technically pure-a-hexachlorocyclohexane in a cyclic process. 2,954,408, 9-27-60, Cl. 260-648.
- Sanberg-Serrell Corp.: *See—*
- Houser, Bradford C. 2,959,355.
- Morgan, Donald W. 2,942,460.
- Vice, Charles L., and Serrell. 2,947,067.
- Sanborn, Lewis B.: *See—*
- Istel, Jacques A., and Sanborn. 2,925,971.
- Sanborn, Malcolm A., and W. G. Klein, to Bates Mfg. Co. Apparatus for corrective drafting of strands of discontinuous fibers. 2,930,084, 3-29-60, Cl. 19-70.
- Sanborn, Willard F.: *See—*
- Thayer, Lynn W., Sanborn, and Wraase. 2,941,772.
- Sanchez, Albert. Suction valve for baby bottle nipple. 2,959,314, 11-8-60, Cl. 215-11.
- Sanchirico, Anthony J.: *See—*
- Taylor, Richard, Strachl, and Sanchirico. 2,920,818.
- Sanctuary, George E., to Boeing Airplane Co. Ejection seat for aircraft. 2,931,598, 4-5-60, Cl. 244-122.
- Sanctuary, Robert E., to Worcester Valve Co., Inc. Ball valve. 2,930,576, 3-29-60, Cl. 251-175.
- Sanctuary, Robert E., to Worcester Valve Co., Inc. Ball valve seat ring. 2,963,263, 12-6-60, Cl. 251-175.
- Sand, Darrel R., to General Motors Corp. Sprag clutch. 2,927,671, 3-8-60, Cl. 192-45.1.
- Sand, Darrel R., to General Motors Corp. Energy transmitting device. 2,927,673, 3-8-60, Cl. 192-69.
- Sand, Darrel R., to General Motors Corp. Brake mechanism. 2,954,103, 9-27-60, Cl. 188-69.
- Sand, Darrel R., to General Motors Corp. Brake mechanism. 2,964,135, 12-13-60, Cl. 188-69.
- Sand, Donald M.: *See—*
- Schlenk, Hermann, Sand, and Thilotsen. 2,959,580.
- Sand, John G.: *See—*
- Totaro, Thomas C., and Sand. 2,949,327.
- Sand, Leonard B., J. F. Wyant, and P. T. Mecozzi, to Standard Oil Co. Cable pulling lubricant comprising a clay-organic complex. 2,956,019, 10-11-60, Cl. 252-21.
- Sandahl, Sigurd: *See—*
- Gothberg, Karl E. A., and Sandahl. 2,959,249.
- Sandback, Irving C.: *See—*
- Harris, Thomas I., Johnson, and Sandback. 2,956,475.
- Sandback, Irving C., to Bell & Howell Co. Optical objective. 2,933,018, 4-19-60, Cl. 88-57.
- Sandback, Irving C., and A. Cox, to Bell & Howell Co. Optical objective of variable equivalent focal length. 2,959,101, 11-8-60, Cl. 88-57.
- Sandberg, Bernard L.: *See—*
- Friedman, Donald, and Sandberg. 2,921,472.
- Friedman, Donald, and Sandberg. 2,952,158.
- Sandberg, Carl R.: *See—*
- Barclay, Harry A., McLean, and Sandberg. 2,922,543.
- Sandberg, Ray A., to Houdaille Industries, Inc. Method of brazing. 2,926,421, 3-1-60, Cl. 29-47.5.
- Sandberg, Ray A., to The Bingham-Herbrand Corp. Parking brake assembly. 2,934,972, 5-3-60, Cl. 74-54.1.
- Sandberg, Ray A., to Houdaille Industries, Inc. Heat exchanger and method of making same. 2,940,162, 6-14-60, Cl. 29-157.3.
- Sandberg, Ray A., to Houdaille Industries Inc. Heat exchanger. 2,940,737, 6-14-60, Cl. 257-256.
- Sandberg, Ray A., to Houdaille Industries, Inc. Method of brazing refrigerator evaporators. 2,944,339, 7-12-60, Cl. 29-49.3.
- Sandberg, William A., T. A. Erikson, and C. H. Riesz, to United States of America, Navy. Producing perchloric acid by irradiation. 2,925,368, 2-16-60, Cl. 204-157.
- Sandburg, Eugene L. Fishing lure. 2,922,245, 1-26-60, Cl. 43-42.06.
- Sander, Benjamin, and W. E. Eickmeier, to Nixdorf-Krein Mfg. Co. Stabilizing fittings for playground swings and the like. 2,954,958, 10-4-60, Cl. 248-317.
- Sander, Erich. Hydraulic transmission. 2,925,785, 2-23-60, Cl. 103-120.
- Sander, Hans E. G., to Hein, Lehmann & Co. Aktiengesellschaft. Sieve texture, especially for the bottoms of harp-shaped sieves. 2,926,785, 3-1-60, Cl. 209-40.1.
- Sander, Howard H., to United States of America, Atomic Energy Commission. Zero-time indicator. 2,951,201, 8-30-60, Cl. 324-68.
- Sanders Associates, Inc.: *See—*
- Albert, Edmond J. 2,950,412.
- Blitz, Daniel. 2,926,317.
- Dahlgren, Victor F. 2,932,599.
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- Dahlgren, Victor F. 2,963,392.
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- Hayner, Paul F. 2,929,362.
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- Hayner, Paul F., and Tally. 2,925,228.
- Kline, Jack. 2,949,581.
- Kline, Jack, and Winsor. 2,950,453.
- Mikulis, Benjamin M., and Wegener. 2,964,436.
- Misek, Victor A. 2,944,192.
- Nalette, Thomas A., and Lalmond. 2,946,877.
- Pope, Harold W., Hayner, and Henderson. 2,945,380.
- Sommers, Donald J. 2,961,620.
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- Sommers, Donald J., and Wilson. 2,938,175.
- Subilla, Maurice H. 2,951,411.
- Wegener, Howard W., and Mikulis. 2,963,535.
- Wild, Norman R., and Williston. 2,945,233.
- Sanders, Earl E. Davit unit for boat anchors. 2,940,413, 6-14-60, Cl. 114-210.
- Sanders, G. G.: *See—*
- Peterson, Frank C., and Goodwin. 2,963,155.
- Sanders, George S., to Agricultural Aviation Engineering Co. Dust metering apparatus for agricultural aircraft. 2,958,154, 11-1-60, Cl. 43-147.
- Sanders, Harry L.: *See—*
- Heroy, James H., Jr., Hartwell, and Sanders. 2,962,746.
- Sanders, Homer E., to Ethyl Corp. Malfunction detector and indicator. 2,940,070, 6-7-60, Cl. 340-271.
- Sanders, James H.: *See—*
- Dunbar, Calvin D., and Sanders. 2,954,960.
- Sanders, John C. Method and mechanism for detecting stall and surge of gas engines. 2,926,524, 3-1-60, Cl. 73-116.
- Sanders, Kenneth: *See—*
- Anderson, Paul E., and Sanders. 2,940,419.
- Sanders, Leon D., to Systematic Parking Co. Parking apparatus. 2,925,150, 2-16-60, Cl. 187-76.
- Sanders, Leon D., to Systematic Parking Co. Automobile parking apparatus. 2,963,180, 12-6-60, Cl. 214-16.1.
- Sanders, Marion D.: *See—*
- Staforth, Derrick H., Mortenson, and Sanders. 2,965,468.
- Sanders, Robert G., to Warner-Lambert Pharmaceutical Co. Process for suppressing food spoilage and composition therefor. 2,963,374, 12-6-60, Cl. 99-150.
- Sanders, Robert G., R. R. Read, and R. J. Palazzolo, to Warner-Lambert Pharmaceutical Co. Therapeutic compositions for inhibiting carbonic anhydrase activity. 2,920,012, 1-5-60, Cl. 167-51.5.
- Sanders, Roy Y., Jr. Edible pharmaceutical ink and process of using same. 2,948,626, 8-9-60, Cl. 106-24.
- Sanders, Victor M., to Aerojet-General Corp. Jet propulsion motor with safety pressure relief means. 2,958,184, 11-1-60, Cl. 60-35.6.
- Sanders, Victor M., to Aerojet-General Corp. Pressure responsive safety device for jet propulsion motors. 2,958,185, 11-1-60, Cl. 60-35.6.
- Sanders, W. H., (Electronics) Ltd.: *See—*
- Tutchings, Alec. 2,938,965.
- Sanders, Walter E.: *See—*
- Cutler, Stanley, and Sanders. 2,963,564.
- Sanders, William W., and R. J. Hengstebeck, to Standard Oil Co. Combination catalytic and thermal reforming process. 2,938,854, 5-31-60, Cl. 208-65.
- Sanders, William W., and R. J. Hengstebeck, to Standard Oil Co. Coking apparatus for hydrocarbon oils. 2,941,928, 6-21-60, Cl. 202-221.
- Sanders, Zal H. Incision guide. 2,932,296, 4-12-60, Cl. 128-305.
- Sanderson, Harold A.: *See—*
- Rudolf, John J., Jr., and Sanderson. 2,941,140.



- Sanderson, James C., to McCorguodale Colour Display Ltd. Apparatus for the deposition of liquid materials. 2,961,949, 11-29-60, Cl. 101—163.
- Sanderson & Murray, Ltd.: *See*—  
Davidson, Maxwell W., 2,931,290.
- Sanderson, Thomas E. F., and D. Amsel, to Copy Cat Ltd. Photographic printing apparatus. 2,953,077, 9-20-60, Cl. 95—75.
- Sanderson, William R., to Graflex, Inc. Photographic camera and adapter for mounting same. 2,966,107, 12-27-60, Cl. 95—86.
- Sanderson, William T., to Chelton (Poppits) Ltd. Plastic beads. 2,947,053, 8-2-60, Cl. 24—217.
- Sandgren, Axel R., to A B Ceaverken. Locking devices for photographic cassettes, particularly cassettes for X-ray photographs. 2,925,766, 2-23-60, Cl. 95—71.
- Sandgren, Rind, and T. Gizeski, to Electric Eye Equipment Co. Multi-unit printing-press drive. 2,944,644, 7-12-60, Cl. 192—02.
- Sandhage, Ellsworth R.: *See*—  
Callahan, John C., and Sandhage. 2,954,769.
- Sandholdt, Frederick G.: *See*—  
Landry, J. L., and Sandholdt. 2,920,987.
- Sandler, Fulton W.: *See*—  
Nicolosi, Robert V., and Kotler. 2,938,396.
- Sandler, Jack, to Travelmaster Shoemakers, Inc. Sling back shoe. 2,930,150, 3-29-60, Cl. 36—58.5.
- Sandmann, Herbert, and H. Brandt. Heat exchangers. 2,951,686, 9-6-60, Cl. 257—265.
- Sandner, Walter J.: *See*—  
Fierce, William L., and Sandner. 2,942,946.  
Fierce, William L., and Sandner. 2,951,744.  
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Fierce, William L., and Sandner. 2,965,676.
- Sandor, Bela: *See*—  
Bogater, John P., Sandor, and Velavicius. 2,959,448.
- Sandor, Bela I. Passenger safety device for vehicles. 2,931,665, 4-5-60, Cl. 280—150.
- Sandoval, Alberto: *See*—  
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- Sandoz A.G.: *See*—  
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Hofer, Kurt. 2,925,316.  
Jucker, Ernst, and Lindenmann. 2,933,501.  
Lutz, Karl. 2,931,825.  
Merian, Ernest. 2,955,902.  
Merian, Ernest, Nicolaus, and Senn. 2,936,319.  
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- Sandoz Ltd.: *See*—  
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Fleck, Fritz. 2,956,898.  
Fluegel, Walter, and Durst. 2,955,010.  
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Guenthard, Jacques. 2,962,497.  
Jucker, Ernst, Ebnother, and Rissi. 2,959,593.  
Jucker, Ernst, Ebnother, Rissi, Vogel, and Steiner. 2,955,112.  
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Keller, Robert C. 2,963,339.  
Petrzlika, Theodor, Frey, Hofmann, Ott, Schenk, and Troxler. 2,959,591.  
Renz, Jany, and Bourquin. 2,946,799.  
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Steinemann, Willy, and Wehrli. 2,961,437.  
Wiedemann, Erwin. 2,940,029.
- Sandoz Trust: *See*—  
Byland, Hans-Rudolf. 2,941,991.  
Hagen, Joseph. 2,948,400.
- Sandri, Joseph M., and E. K. Fields, to Standard Oil Co. Isomerization process. 2,960,554, 11-15-60, Cl. 260—683.68.
- Sands, Arthur G., to United States of America, Navy. Method for preparing conductive latex films. 2,929,108, 3-22-60, Cl. 18—47.5.
- Sands, Hillard J., and M. E. Roche, to Harvard Mfg. Co. Wire type angle clamp. 2,953,832, 9-27-60, Cl. 24—243.
- Sands, Theoburn P., to Monsanto Chemical Co. Mineral oil compositions. 2,928,789, 3-15-60, Cl. 252—33.4.
- Sandstrom, Lars H., to Sperry Rand Corp. Ruggedized klystron tuner. 2,966,611, 12-27-60, Cl. 315—5.22.
- Sandt, Bernd W.: *See*—  
Bro, Manville I., and Sandt. 2,946,763.  
Mallouk, Robert S., and Sandt. 2,955,099.
- Sandvig, Robert L., to Thor Power Tool Co. Drill system with suction. 2,919,901, 1-5-60, Cl. 255—50.
- Sandvikens Jernverks Aktiebolag: *See*—  
Gisner, Bo, and Ohlsson. 2,924,875.  
Hard Af Segerstad, Carl G. 2,943,477.  
Landstedt, Lars G. 2,956,783.
- Sandy, Charles A., and J. H. Wernitz, to E. I. du Pont de Nemours and Co. Hydrocarbon fuels having improved anti-knock properties. 2,935,973, 5-10-60, Cl. 123—1.
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- Sandy Hill Iron and Brass Works, The: *See*—  
De Bell, George W. 2,920,836.  
Pasoli, Paul A. 2,920,699.  
Pasoli, Paul A. 2,943,678.  
Fusco, James J. 2,941,593.
- Saner, Charles C. Pump. 2,952,211, 9-13-60, Cl. 103—44.
- Sanford, Arthur C. Wood truss heel joint construction. 2,937,418, 5-24-60, Cl. 20—92.
- Sanford, Arthur C. Unit column building construction. 2,943,366, 7-5-60, Cl. 20—1.
- Sanford, David P.: *See*—  
Huck, William F., Albrecht, and Sanford. 2,946,591.  
Huck, William F., Albrecht, and Sanford. 2,949,300.
- Sanford-Day Iron Works, Inc.: *See*—  
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- Sanford-Day Iron Works, Inc. of Tennessee: *See*—  
Jones, Robert E. 2,966,236.
- Sanford, James E.: *See*—  
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- Sanford, Robert A.: *See*—  
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- Sanford, Robert A., and S. H. Patinkin, to Sinclair Refining Co. Tertiary amylene recovery using sulfuric acid and hydrocarbon extractants. 2,958,715, 11-1-60, Cl. 260—677.
- Sanford, Robert F.: *See*—  
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- Sanford, Roy S.: *See*—  
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Clark, Harlan C., and Sanford. 2,925,015.  
Eames, James O. 2,942,699.  
Eaton, Wilfred A. 2,934,178.  
Eaton, Wilfred A., and Casler. 2,954,854.
- Sanford, Roy S., to R. S. Sanford, R. H. Casler, J. O. Eames, W. A. Eaton, and E. D. Sedergren. Damping mechanism. 2,925,891, 2-23-60, Cl. 188—152.
- Sanford, Roy S., and J. O. Eames, to R. S. Sanford, W. A. Eaton, E. D. Sedergren, R. H. Casler, and J. O. Eames. Liquid cooled brake system. 2,930,456, 3-29-60, Cl. 188—152.
- Sanford, Roy S., and J. O. Eames, to R. S. Sanford, R. H. Casler, J. O. Eames, W. A. Eaton, and E. D. Sedergren. Fluid pressure brake mechanism. 2,945,566, 7-19-60, Cl. 188—264.
- Sanford, Stuart P., to Westinghouse Electric Corp. Carton and method of assembly. 2,927,687, 3-8-60, Cl. 206—45.19.
- Sanford, Stuart P., to Westinghouse Electric Corp. Display carton. 2,951,583, 9-6-60, Cl. 206—45.13.
- Sanford, Wayne H., Jr.: *See*—  
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- Sanford, Weston P.: *See*—  
Chapin, Earl C., and Sanford. 2,950,270.
- San Francisco Research Corp.: *See*—  
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- Sangamo Electric Co.: *See*—  
Burns, Cecil H., Jr., Donan, Wolfe, Eckdahl, Daugherty, Wilson, and Sarkissian. 2,954,546.  
Downing, William C., Jr., and McAuliff. 2,966,629.  
Eckdahl, Donald E., Sprague, Dobbins, Wilson, and Sarkissian. 2,954,166.  
Kurz, Fred. 2,954,525.
- Sanger, Werner J. Packaged foodstuff. 2,965,500, 12-20-60, Cl. 99—182.
- Sangrelet, Irwin W.: *See*—  
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- Sangrelet, Irwin W., to Abbott Laboratories. Esterification of pyridine carboxylic acids. 2,948,734, 8-9-60, Cl. 260—295.5.
- Sangster, Arlon G.: *See*—  
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- Sanin Cabo, Vitalicia H.: *See*—  
Leira, Alberto R., and Sanin Cabo. 2,935,755.
- Sanitary Disposal Corp.: *See*—  
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- Sanitary Plastics, Inc.: *See*—  
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- Sanitor Mfg. Co.: *See*—  
Thomasma, John C. and C. W. 2,931,536.  
Thomasma, John C. and C. W. 2,944,664.
- Sankey, Edward L., to McGraw-Edison Co. Fuse construction. 2,961,515, 11-22-60, Cl. 200—120.
- Sanlaville, Joseph, and L. Foulletier, to Societe d'Electrochimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Method of selectively separating hydrofluoric acid from its solution with other hydrohalogenic acids. 2,920,941, 1-12-60, Cl. 23—154.
- Sanna Dairies, Inc.: *See*—  
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- Sanna, Filip L., to Sanna Dairies, Inc. Method for drying food materials. 2,953,457, 9-20-60, Cl. 99—56.
- Sannipoli, Alfred L., and E. E. Thomas, to Seamless Covers Inc. Apparatus for the manufacture of paint roller covers. 2,920,372, 1-12-60, Cl. 26—2.



- Sannipoli, Alfred L., and E. E. Thomas, to Seamless Covers, Inc. Method of mounting fabric sleeves on hollow cores to form paint rollers. 2,944,588, 7-12-60, Cl. 154-41.
- Sano Corp.: *See*—  
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- Sano, Tomitaro T. Sheet material dispenser. 2,936,936, 5-17-60, Cl. 225-43.
- Sanoica, Frank J.: *See*—  
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- Sanraku Shuzo Kabushiki Kaisha: *See*—  
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- Sansone, Alfred: *See*—  
De Blasio, James J., Podsiadlo, and Sansone. 2,944,563.
- Sansone, Leonard F., Jr.: *See*—  
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- Sansonetti, Alfred S., to Airborne Accessories Corp. Inventory indicator. 2,921,290, 1-12-60, Cl. 340-153.
- Sansum, Robert D.: *See*—  
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- Santa Clara Frosted Foods Co.: *See*—  
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- Santangelo, Charles E.: *See*—  
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- Santangelo, Joseph G.: *See*—  
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- Sant Angelo, Michael A., to Sperry Rand Corp. Aircraft navigation instrument. 2,932,024, 4-5-60, Cl. 343-108.
- Santapa, Frank J., to Chicago Rawhide Mfg. Co. Controlled gap seal. 2,937,039, 5-17-60, Cl. 286-11.15.
- Santarelli, Vincent. Garden duster. 2,957,268, 10-25-60, Cl. 43-148.
- Santelli, T. R., and T. G. Erard, to Owens-Illinois Glass Co. Antimony coating for glass. 2,948,636, 8-9-60, Cl. 117-46.
- Santiago, Herminio. Equilateral triangular billiard and pool tables. 2,923,546, 2-2-60, Cl. 273-4.
- Santmyer, Philip H., to Monsanto Chemical Co. Method of controlling nematodes employing alkali metal salt of N-(n-propyl) dithiocarbamate. 2,945,781, 7-19-60, Cl. 167-22.
- Santmyer, Philip H., and J. W. Baker, to Monsanto Chemical Co. Nematocidal polyamine salts of phosphorotioic acids. 2,956,921, 10-18-60, Cl. 167-30.
- Santner, Robert R., and C. H. Trotter, to Phillips Petroleum Co. Means for detecting storage tank leaks. 2,924,352, 2-9-60, Cl. 220-18.
- Santora, Hugo R., G. P. Lunday, and J. A. Benson, to North American Aviation, Inc. Rocket engine assembly testing and launching apparatus. 2,925,013, 2-16-60, Cl. 89-1.7.
- Santos, John R. L.: *See*—  
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Hoyer, Llewellyn E., and Santos. 2,929,664.
- Santos, Joseph: *See*—  
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- Santschi, Julius V., to Pittsburgh Plate Glass Co. Apparatus for glass drilling. 2,941,338, 6-21-60, Cl. 51-81.
- Santucci, Anthony H.: *See*—  
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- Sanymetal Products Co. Inc.: *See*—  
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- Sanz, Manuel C., R. R. Randolph, and C. Starr, to United States of America, Atomic Energy Commission. Process of impregnating graphite with a uranium compound. 2,946,699, 7-26-60, Cl. 117-65.
- Sanz, Manuel C. Laboratory apparatus. 2,961,302, 11-22-60, Cl. 23-259.
- Saperstein, Henry G.: *See*—  
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- Saperstein, Joel. Tire traction attachment. 2,946,366, 7-26-60, Cl. 152-218.
- Saphra, Frederick, to Sperry Rand Corp. Gyroscopic instruments. 2,960,876, 11-22-60, Cl. 74-5.7.
- Sapoff, Meyer: *See*—  
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- Saponara, Domenick, to Caloric Appliance Corp. Oven door hinge. 2,938,516, 5-31-60, Cl. 126-191.
- Saporito, Frederick A.: *See*—  
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- Saporta, Lester J.: *See*—  
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- Sapp, Alexander E.: *See*—  
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- Sapp, Baxter B.: *See*—  
Mitchell, Garland W., and Sapp. 2,949,761.
- Sapp, William M., Jr.: *See*—  
Hackney, Robert F., Payne, and Sapp. 2,954,865.
- Sapp, Winfred F., to United States of America, Navy. Rocket fuze. 2,948,219, 8-9-60, Cl. 102-78.
- Sapper, David I., to E. I. du Pont de Nemours and Co. Thermoplastic films coated with vinylidene chloride copolymer and an anti static agent. 2,925,356, 2-16-60, Cl. 117-72.
- Sapper, Wolfgang: *See*—  
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- Sapphire Products, Inc.: *See*—  
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- Saraceno, John A.: *See*—  
Galgano, James A., and Saraceno. 2,955,191.
- Saravia, Roberto F., and G. E. Broach. Toy. 2,948,533, 8-9-60, Cl. 273-96.
- Sarco Co., Inc.: *See*—  
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- Sardeson, Robert, to Pako Corp. Valve. 2,925,246, 2-16-60, Cl. 251-191.
- Sardeson, Robert, and C. Miller, to Pako Corp. Machine for processing films. 2,934,000, 4-26-60, Cl. 95-89.
- Sardou, Charles F., Jr.: *See*—  
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- Sare, Carl R., and N. W. Hilliker, to The W. W. Sly Mfg. Co. Filter bag. 2,959,247, 11-8-60, Cl. 183-51.
- Sarett, Ben L.: *See*—  
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- Sarett, Ben L. Process for stabilizing mayonnaise and the resulting product. 2,940,860, 6-14-60, Cl. 99-163.
- Sarett, Lewis H.: *See*—  
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Arth, Glen E., Poos, and Sarett. 2,949,472.  
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- Sarett, Lewis H., to Merck & Co., Inc. di-Δ<sup>3</sup>-3-ethylenedioxy-11-keto-20-cyano pregnenes. 2,931,806, 4-5-60, Cl. 260-239.55.
- Sarett, Lewis H., to Merck & Co., Inc. Allopregnane compounds for topical application. 2,943,978, 7-5-60, Cl. 167-58.
- Sarett, Lewis H., to Merck & Co. Inc. 3,20-diketo-11-oxygenated-17,21-dihydroxyallopregnane 3-cyclic alkylene ketal 21-organic sulfonate compounds. 2,949,453, 8-16-60, Cl. 260-239.55.
- Sarett, Lewis H., to Merck & Co. Inc. Δ<sup>5</sup>-3-ethylenedioxy-11,20-diketo-21-iodopregnene. 2,950,281, 8-23-60, Cl. 260-239.55.
- Sarett, Lewis H., and R. E. Beyer, to Merck & Co., Inc. 9α-halo allopregnanes. 2,922,797, 1-26-60, Cl. 260-397.45.
- Sargeant, Walter E., to General Motors Corp. Timing control circuit. 2,949,583, 8-16-60, Cl. 331-114.
- Sargent, Albert M. File box. 2,929,530, 3-22-60, Cl. 220-22.
- Sargent, E. H., & Co.: *See*—  
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- Sargent, Edward J., and R. F. Cooper, to Sargent Rodless Pump Co. Hydraulic engine. 2,933,071, 4-19-60, Cl. 121-157.
- Sargent, Elbert R., and H. H. Sigler, to Hiller Aircraft Corp. Fuel supply control for rotary wing aircraft. 2,943,885, 7-5-60, Cl. 170-135.4.
- Sargent & Greenleaf, Inc.: *See*—  
Miller, Harry C. 2,951,353.
- Sargent, Herbert B.: *See*—  
Poorman, Richard M., Sargent, and Lamprey. 2,964,420.
- Sargent, Herbert B., and R. M. Poorman, to Union Carbide Corp. Reduction of metal oxides. 2,965,474, 12-20-60, Cl. 75-34.
- Sargent, Jack, and G. Birnbaum, to United States of America, Commerce, Recording microwave hygrometer. 2,964,703, 12-13-60, Cl. 324-58.5.
- Sargent, Neil A., and W. M. Davis, to Monsanto Chemical Co. Apparatus for producing aerogels. 2,925,127, 2-16-60, Cl. 159-2.
- Sargent, Raymond F.: *See*—  
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Lane, Raymond J., and Sargent. 2,944,765.
- Sargent, Richard G.: *See*—  
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- Sargent Rodless Pump Co.: *See*—  
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- Sargent, Ronald J., to General Motors Corp. Selector control. 2,941,548, 6-21-60, Cl. 137-624.
- Sargent, Ronald J., to General Motors Corp. Selector control. 2,964,060, 12-13-60, Cl. 137-624.
- Sarich, Steve, Jr., to Puget Sound Salmon Egg Co., Inc. Multi-tone salmon eggs and methods of producing same. 2,932,572, 4-12-60, Cl. 99-3.
- Saricks, Joseph G.: *See*—  
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- Sariotti, Victor A.: *See*—  
Fahrenbach, Wolfgang B., Tonna, and Sariotti. 2,932,929.
- Sarka, Albert J., to Wean Equipment Corp. Flying cutter for strip material. Re. 24,807, 4-12-60, Cl. 83-324.
- Sarka, Albert J., to Wean Equipment Corp. Coil handling mechanism. 2,920,839, 1-12-60, Cl. 242-78.6.
- Sarka, Albert J., to Wean Equipment Corp. Coil handling mechanism. 2,947,492, 8-2-60, Cl. 242-78.7.
- Sarkar, Asim K.: *See*—  
Adams, Dennis A. W., and Sarkar. 2,928,830.
- Sarkes Tarzian, Inc.: *See*—  
Eannarino, George. 2,958,020.  
Eannarino, George, and Finn. 2,930,948.  
Finn, George B., Jr. 2,946,935.  
Junker, Donald W. 2,947,922.  
Valdettaro, Alarico A., and Meadows. 2,947,866.
- Sarkissian, David. Stair carpet fastener. 2,958,895, 11-8-60, Cl. 16-10.



- Sarkissian, Hrant H.: *See*—  
Dobbins, Willis E., Williams, Sarkissian, Eckdahl, Steele, and Wolff. 2,921,740.  
Eckdahl, Donald E., Donan, Wolfe, Sprague, Sarkissian, Isborn, and Wilson. 2,924,381.
- Sarla, Ralph M., and E. O. Schneidersmann, to Union Carbide Corp. Apparatus for fusion electrolysis of reactive metals. 2,957,816, 10-25-60, Cl. 204-225.
- Sarlin, Jean P. Sanitary attachment for toilet bowls. 2,929,073, 3-22-60, Cl. 4-1.
- Sarnecki, Wilhelm: *See*—  
Pommer, Horst, and Sarnecki. 2,957,933.  
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- Sarnoff, Stanley J., to Cartrix Corp. Hypodermic syringe devices. 2,956,563, 10-18-60, Cl. 128-218.
- Saro (Anglesey) Ltd.: *See*—  
Owen, Wallace. 2,966,336.
- Sarofeen, George M. J., to Titmus Optical Co., Inc. Glycol carbonate addition polymers. 2,964,501, 12-13-60, Cl. 260-77.5.
- Sarong, Inc.: *See*—  
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- Sarowski, Edwin E., and E. P. Petzer, to American Metal Products Co. Vehicle front suspension arm pivoted by ball joints. 2,960,348, 11-15-60, Cl. 280-96.1.
- Sarret, Pierre: *See*—  
Gailliot, Paul, Baget, and Sarret. 2,927,115.
- Sartor, Eugene E., to United States of America, Army. Azimuth-elevation correction data indicator. 2,942,464, 6-28-60, Cl. 73-189.
- Sartore, Laurence, to Keystone Casing Supply Co. Method of stuffing sausage casings. 2,922,186, 1-26-60, Cl. 17-45.
- Sartori, James A., and C. A. Hill, to American Radiator & Standard Sanitary Corp. Radiator. 2,930,590, 3-29-60, Cl. 257-124.
- Sartori, Mario F., to E. I. du Pont de Nemours and Co. Halogen substituted dinaphthofuran-diones. 2,940,983, 6-14-60, Cl. 260-346.2.
- Sartori, Mario F., to E. I. du Pont de Nemours and Co. Water-soluble azo dyes for polyacrylic fiber. 2,965,631, 12-20-60, Cl. 260-155.
- Sartorio, Aristide L. Fruit stripping device. 2,962,855, 12-6-60, Cl. 56-334.
- Sasaki, Shiro. Transformer and the like. 2,937,350, 5-17-60, Cl. 336-183.
- Sasaki, Tetsuo: *See*—  
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- Sasaki, Yoshio, to Kabushiki-Kaisha Maruman (known as Maruman Co. Ltd.). Expandable band. 2,957,303, 10-25-60, Cl. 59-79.
- Sasaki, Yozo, and T. Hamada, to International Standard Electric Corp. Process of making manganese-zinc-ferrite. 2,924,573, 2-9-60, Cl. 252-62.5.
- Sasgen Derrick Co.: *See*—  
Sasgen, Matthias F. 2,943,708.
- Sasgen, Matthias F., to Sasgen Derrick Co. Hoisting equipment. 2,943,708, 7-5-60, Cl. 187-85.
- Saslove, Moe: *See*—  
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- Sasnett, Russell M., and L. W. Guth, to General Electric Co. Dishwashing machine. 2,959,179, 11-8-60, Cl. 134-186.
- Sasse, Gunther, to J. Stachowicz, and O. Benecke. Door closing device. 2,962,749, 12-6-60, Cl. 16-51.
- Sasse, Klaus, R. Wegler, and F. Grewe, to Farbenfabriken Bayer Aktiengesellschaft. Fungicidal sulfonyl-benzotriazole. 2,943,017, 6-28-60, Cl. 167-33.
- Sasse, Louis. Paint can brim and wiper. 2,960,257, 11-15-60, Cl. 220-90.
- Sasseen, John H., to Jersey Production Research Co. Keyed modulation system for modulating non-time dependent signals in proportion to real time. 2,963,682, 12-6-60, Cl. 340-18.
- Sasseen, John H., J. D. Ball, and F. J. Feagin, to Jersey Production Research Co. Thermocouple protective circuit. 2,951,976, 9-6-60, Cl. 321-1.5.
- Sassen, Bernard: *See*—  
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- Sassler, Marvin L., to International Telephone and Telegraph Corp. Synchronous detector system. 2,924,706, 2-9-60, Cl. 250-20.
- Sateren, Martin G., to United States of America, Navy. Control system for torpedo. 2,943,588, 7-5-60, Cl. 114-23.
- Sather, Delaine C., to Collins Radio Co. Nonlinear glide-slope transfer network and aircraft control system. 2,939,137, 5-31-60, Cl. 343-108.
- Satkowski, William B.: *See*—  
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- Sato, Minoru: *See*—  
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Hoshino, Yasushi, and Sato. 2,962,559.  
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- Sato, Tadao: *See*—  
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- Sato, Takayoshi, to Kabushiki Kaisha Kōpaku Kaki Seisakusho. Photographic shutter device. 2,926,590, 3-1-60, Cl. 95-64.
- Satter, Neil S. Apparatus and method for conditioning respiration. 2,934,060, 4-26-60, Cl. 128-1.
- Satterfield, Rufus C. Ladies hand bags with a detachable frame and handle. 2,925,111, 2-16-60, Cl. 150-28.
- Satterthwaite, Cameron B., to E. I. du Pont de Nemours and Co. Formation of fibers from polymeric dispersions which contain a thickening agent. 2,963,340, 12-6-60, Cl. 18-54.
- Satterthwaite, Jenkins R.: *See*—  
Edwards, Charles L., Jr., and Satterthwaite. 2,955,590.
- Sattler, Emil: *See*—  
Schmalenbach, Adolf, and Sattler. 2,925,450.
- Sattler, Emil, to Koppers Co., Inc. Process for the operation of an installation for the pressure refining of crude benzene. 2,939,891, 6-7-60, Cl. 260-674.
- Sattler, Robert E.: *See*—  
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- Sattler, Robert E., to Phillips Petroleum Co. Fluid mixture separation. 2,952,134, 9-13-60, Cl. 62-21.
- Sattler, Robert I., to La Salle Tool, Inc. Collet chuck construction. 2,928,680, 3-15-60, Cl. 279-2.
- Säuberlich, Willy, to Maschinenfabrik Goebel G.m.b.H. Device for tensioning printing plates particularly steel engraved plates on printing presses. 2,963,969, 12-13-60, Cl. 101-415.1.
- Saubestre, Edward B., to Sylvania Electric Products Inc. Manufacture of semiconductive translating devices. 2,935,453, 5-3-60, Cl. 204-29.
- Saudinaitis, Emmanuel, and J. G. V. Isabeau, to Zenith Radio Corp. Scanning generator. 2,954,504, 9-27-60, Cl. 315-27.
- Sauer, Alexander, to Romika K.G. Lemm & Co. Manufacture of laminated sheet materials. 2,937,968, 5-24-60, Cl. 154-100.
- Sauer, Alfred B.: *See*—  
Joachim, Joseph G., and Sauer. 2,943,880.
- Sauer, Edgar, to Zeiss Ikon A.G. Stuttgart. Photographic camera with central shutter. 2,923,217, 2-2-60, Cl. 95-11.
- Sauer, Edgar, to Zeiss Ikon A.G. Stuttgart. Reflex camera with photoelectric meter. 2,933,991, 4-26-60, Cl. 95-10.
- Sauer, Edgar, J. Hahn, E. Jörg, and E. Rall, to Zeiss Ikon A.G. Single lens reflex cameras. 2,925,764, 2-23-60, Cl. 95-64.
- Saul, Francis K., Sr. Collapsible antenna. 2,932,028, 4-5-60, Cl. 343-881.
- Sauer, Frederick: *See*—  
De Zeeuw, John R., and Sauer. 2,951,759.
- Sauer, Henry J. Cleaning brush. 2,927,336, 3-8-60, Cl. 15-179.
- Sauer, Hubert, to Rutgerswerke-Aktiengesellschaft. Unsaturated polyesters of unsaturated  $\alpha$ ,  $\beta$ -dicarboxylic acids and polyvalent alcohols. 2,951,823, 9-6-60, Cl. 260-45.4.
- Sauer, J. P., & Sohn, Gesellschaft mit beschränkter Haftung: *See*—  
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- Sauer, John C.: *See*—  
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- Sauer, Manfred: *See*—  
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- Sauer, Richard W., and A. F. Weed, to The Atlantic Refining Co. Process for preparing stable heating oil. 2,951,033, 8-30-60, Cl. 208-226.
- Sauer, Robert C.: *See*—  
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- Sauerland, Joseph, to Peck Hardman & Co. Pneumatic action for player pianos. 2,943,525, 7-5-60, Cl. 84-25.
- Sauey, William R., to Flambeau Plastics Corp. Shotgun shell box. 2,928,530, 3-15-60, Cl. 206-3.
- Saukakis, Albert J., to Amchem Products Inc. Acid baths for cleaning and pickling metal. 2,941,949, 6-21-60, Cl. 252-151.
- Saul & Co.: *See*—  
Byland, Hans-Rudolf. 2,941,991.  
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Hofer, Kurt. 2,925,316.
- Saul, George A.: *See*—  
Baker, Joseph W., Chupp, and Saul. 2,960,429.  
Baker, Joseph W., and Saul. 2,924,553.  
Baker, Joseph W., and Saul. 2,934,469.  
Baker, Joseph W., and Saul. 2,956,919.
- Saul, George A., to Monsanto Chemical Co. Pyridylalkyl-thioalkyl and oxalkyl phosphorothioates. 2,961,445, 11-22-60, Cl. 260-294.8.
- Saul, Francis K., Sr. Collapsible antenna. 2,926,350, 2-23-60, Cl. 343-881.
- Saul, Samuel, Jr., and A. Zwillich, said Zwillich assor. to said Saul. Rack construction. 2,925,181, 2-16-60, Cl. 211-147.
- Saulnier, Raymond. Aircraft with low aspect-ratio wing. 2,958,480, 11-1-60, Cl. 244-15.
- Saulson, Saul, to Harlan M. Buck, Inc. Sitz bath. 2,947,995, 8-9-60, Cl. 4-6.
- Saulson, Saul and S. H., to Harlan M. Buck, Inc. Sitz bath. 2,947,994, 8-9-60, Cl. 4-6.
- Saulson, Stanley H.: *See*—  
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- Saum, George A., and R. W. Redington, to General Electric Co. Electrostatic deflection and focusing system. 2,947,896, 8-2-60, Cl. 313-78.
- Saumsiegle, Robert W., to Pneumatic Scale Corp., Ltd. Tube closing and sealing apparatus. 2,935,831, 5-10-60, Cl. 53-373.
- Saunders, Alfred C., to Electro Refractories & Abrasives Corp. Refractory articles. 2,943,008, 6-28-60, Cl. 154-43.
- Saunders, Alfred P., to Wildt Mellor Bromley Ltd. Yarn feeding and changing mechanism for circular knitting machines. 2,940,285, 6-14-60, Cl. 66-140.
- Saunders, Alfred P., to Wildt Mellor Bromley Ltd. Circular knitting machines equipped with wrap thread mechanism. 2,956,425, 10-18-60, Cl. 66-135.
- Saunders, Alfred P., to Wildt and Co. Ltd. Circular knitting machines of the superimposed needle cylinder type. 2,959,040, 11-8-60, Cl. 66-14.
- Saunders, Arnold E.: See—  
Marini, Herman R., Lytle, Saunders, and Wagner. 2,943,963.
- Saunders, Charles A. Archery target matt stand. 2,958,500, 11-1-60, Cl. 248-351.
- Saunders, Charles E., to United States of America, Navy. Synthetic lubricant composition. 2,951,041, 8-30-60, Cl. 252-34.7.
- Saunders, Charles E., to United States of America, Navy. Halogenated hydrocarbon lubricants containing heat treated boron nitride. 2,960,466, 11-15-60, Cl. 252-25.
- Saunders, Charles L.: See—  
Fuchs, Francis J., Jr., and Saunders. 2,930,265.
- Saunders, Earle R.: See—  
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- Saunders, Earle R., and R. L. Pope, to Union Carbide Corp. Alloy addition agent. 2,935,397, 5-3-60, Cl. 75-44.
- Saunders, Ellis: See—  
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- Saunders, Frank L., and J. H. Oswald, to The Dow Chemical Co. Stable waxing emulsions. 2,964,456, 12-13-60, Cl. 204-154.
- Saunders, Frank S., to British Overseas Airways Corp. and Alltools Ltd. Load cell for weighing machines. 2,934,092, 4-26-60, Cl. 137-778.
- Saunders, George H.: See—  
Grangaard, Donald H., and Saunders. 2,926,114.
- Saunders, Jack N. Heating systems. 2,960,272, 11-15-60, Cl. 237-8.
- Saunders, Ralph: See—  
Boss, William O., and Saunders. 2,927,296.
- Saunders, Robert G. Railway journal box vent. 2,957,546, 10-25-60, Cl. 183-93.
- Saunders, Robert P. Photographic easel. 2,936,671, 5-17-60, Cl. 88-24.
- Saunders, Robert W.: See—  
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- Saunders, Thomas B.: See—  
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- Saunders Valve Co. Ltd.: See—  
Jarrett, Charles R., and Price. 2,955,616.
- Saunderson, Henry D., to United States of America, Navy. Water discriminating fuze. 2,949,855, 8-23-60, Cl. 102-70.2.
- Saunderson, Jason L., and E. Du Bois, to Baird-Atomic, Inc. Spectroscopic apparatus. 2,937,561, 5-24-60, Cl. 88-14.
- Saurenmann, William T., to Sealright-Oswego Falls Corp. Container covering machine. 2,932,141, 4-12-60, Cl. 53-314.
- Saurma, Friedrich G. Receptor and landing control method. 2,959,376, 11-8-60, Cl. 244-14.
- Saurwein, Albert G., and R. H. Parker, to Union Carbide Corp. Bulb socket assembly. 2,931,005, 3-29-60, Cl. 339-182.
- Sause, Henry W.: See—  
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Cusic, John W., and Sause. 2,957,870.
- Sauter, Donald M., and R. E. Wendt, Jr., to Westinghouse Electric Corp. Control system for generator. 2,933,614, 4-19-60, Cl. 290-40.
- Sauter, Erwin R., A. F. McDonald, and J. A. Charlesworth, to South African Coal, Oil and Gas Corp. Ltd. Process for production of an iron catalyst. 2,944,988, 7-12-60, Cl. 252-443.
- Sauter, Harvey. Animal controlling apparatus. 2,931,154, 4-5-60, Cl. 54-6.
- Sauter, Karl, to Luwa Ltd. Air conditioning apparatus. 2,944,628, 7-12-60, Cl. 183-32.
- Sauter, Walter A.: See—  
Eklund, Harry N., and Sauter. 2,921,289.
- Savage, Albert B., to The Dow Chemical Co. Process for preparing alkyl hydroxyalkyl cellulose ethers and the product obtained thereby. 2,949,452, 8-16-60, Cl. 260-231.
- Savage, Donald C.: See—  
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- Savage, Jack P.: See—  
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- Savage, John A. Bottom loading for truck tanks. 2,947,330, 8-2-60, Cl. 141-1.
- Savage, Kenneth W. and L. H., to The Lithibar Co. Indexing mechanism. 2,930,260, 3-29-60, Cl. 74-815.
- Savage, Kenneth W. and L. H., to The Lithibar Co. Mechanical device. 2,953,947, 9-27-60, Cl. 74-815.
- Savage, Leonard H.: See—  
Savage, Kenneth W. and L. H. 2,930,260.  
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- Savage, Richard L.: See—  
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- Savage, Richard M., to General Electric Co. Compositions comprising an organopolysiloxane, silica and a dicarboxylic acid ester plasticizer and the heat cured product thereof. 2,938,007, 5-24-60, Cl. 260-31.8.
- Savage, Robert J.: See—  
Savage, William J. and R. J. 2,940,801.
- Savage, Russell C., to Bendix-Westinghouse Automotive Air Brake Co. Motion translating and speed reducing mechanism. 2,920,488, 1-12-60, Cl. 74-60.
- Savage, Russell H., to The Mead Corp. Paper stock recovery process. 2,959,513, 11-8-60, Cl. 162-6.
- Savage, Wilfrid A. Engine radiator testing device. 2,937,521, 5-24-60, Cl. 73-45.8.
- Savage, William J. and R. J. Dirt and water seal for journal boxes. 2,940,801, 6-14-60, Cl. 308-83.
- Savard, Guy: See—  
Volf, Charles, and Savard. 2,938,108.
- Savard, Guy, and C. Volf, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude. Electric arc welding. 2,964,612, 12-13-60, Cl. 219-146.
- Savelli, John N., to Draper Corp. Shuttle with thread parter attachment. 2,942,628, 6-28-60, Cl. 139-196.
- Savarslak, Irving S. Method of preparing cooked fowl. 2,922,718, 1-26-60, Cl. 99-107.
- Savet, Paul H., to American Bosch Arma Corp. Vertical indicator. 2,921,380, 1-19-60, Cl. 33-206.
- Savet, Paul H., to American Bosch Arma Corp. Apparatus for obtaining true atmospheric data. 2,959,958, 11-15-60, Cl. 73-181.
- Savides, Christos: See—  
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- Savides, Savas P. Containers for ice cream products and the like. 2,948,305, 8-9-60, Cl. 141-112.
- Savigny, Charles: See—  
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- Savin, Cornelius. Arc massaging shoe. 2,963,799, 12-13-60, Cl. 36-8.5.
- Savio, Joseph, to Electro-Char Corp. Electric cooking apparatus. 2,938,102, 5-24-60, Cl. 219-37.
- Savitt, Arnold J., to Hazeltine Research, Inc. Method and apparatus for assembling electrical components on printed wiring cards. 2,959,848, 11-15-60, Cl. 29-407.
- Savoca, Joseph I.: See—  
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- Savolainen, Jouko E.: See—  
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- Savransky, Gilbert: See—  
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- Saw, Peter D., to Tyer & Co. Ltd. Apparatus for detecting flaws in protective coatings. 2,920,270, 1-5-60, Cl. 324-54.
- Sawley, Nell T., to The Pipe Machinery Co. Transfer apparatus in combination thereof with machines. 2,923,952, 2-9-60, Cl. 10-107.
- Sawley, Neil T., to The Pipe Machinery Co. Transfer apparatus and combination thereof with machines. 2,925,166, 2-16-60, Cl. 198-19.
- Sawicki, John G.: See—  
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- Sawyer, Charles F., Jr., to Vanadium-Alloys Steel Co. Manufacture of metal stock having internal holes. 2,948,957, 8-16-60, Cl. 29-423.
- Sawyer, Charles H. V., and P. E. Landeg, to C. D. Patents Ltd. Devices for releasing fluid pressure. 2,947,443, 8-2-60, Cl. 220-89.
- Sawyer, Edgar W., Jr., to Minerals & Chemicals Philipp Corp. Toxicant carrier and pesticidal compositions containing same. 2,962,418, 11-29-60, Cl. 167-42.
- Sawyer, Franklin L.: See—  
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- Sawyer, Frederick D., 25% to W. A. Schach. Frame structure for tractor-mounted crop harvester. 2,936,562, 5-17-60, Cl. 56-14.
- Sawyer, James H., to Deering Milliken Research Corp. Yarn delivery arrangement and method. 2,954,181, 9-27-60, Cl. 242-128.
- Sawyer, Lester T.: See—  
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- Sawyer, Richard L., and H. E. Vermillion, to Texaco Inc. Motor fuel. 2,965,458, 12-20-60, Cl. 44-58.
- Saxby, Frank R., and R. Pritchard, to The National Cash Register Co. Electronic digital serial binary adders. 2,930,530, 3-29-60, Cl. 235-176.
- Saxby, Frank R., and W. L. Rogers, to The National Cash Register Co. Data conversion apparatus for transferring data in either direction between a calculating machine and a computer. 2,924,382, 2-9-60, Cl. 235-155.
- Saxby, Robert N. Type-printing arrangements. 2,927,677, 3-8-60, Cl. 197-13.
- Saxe, Walter E., to The Conveyor Co. Ice breaking apparatus. 2,925,079, 2-16-60, Cl. 125-23.
- Saxe, Walter E., to The Conveyor Co. Apparatus for preventing voids in free-standing piles. 2,965,248, 12-20-60, Cl. 214-10.



- Saxenmeyer, George J., to International Business Machines Corp. Magnetic core detection circuit for double punch and blank column. 2,939,124, 5-31-60, Cl. 340-213.
- Saxl, Karel: *See*—  
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- Saxon, Robert, to American Cyanamid Co. Acrylonitrile polymers plasticized with bis (cyanoethyl) phosphines. 2,963,460, 12-6-60, Cl. 260-30.6.
- Saxton, Harold L.: *See*—  
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- Saxton, Howard N., to General Dynamics Corp. Binding post unit. 2,946,979, 7-26-60, Cl. 339-253.
- Saxton, William R.: *See*—  
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- Say, Donald L.: *See*—  
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- Sayanagi, Kazuo, to Canon Camera Co., Inc. Phase noise filter and its application to photography and photolithography. 2,959,105, 11-8-60, Cl. 88-106.
- Sayers, James E., to Apra Precipitator Corp. Dust collector. 2,963,110, 12-6-60, Cl. 183-7.
- Sayers, John R., Jr.: *See*—  
Ritt, Paul R., Jr., and Sayers. 2,959,525.
- Saykay, Joseph J., to Fairchild Camera and Instrument Corp. Selective load energization. 2,939,121, 5-31-60, Cl. 340-176.
- Sayko, Andrew F., and R. G. Newberg, to Esso Research and Engineering Co. Asphalt, isobutylene-styrene copolymer, hydrocarbon oil adhesive for laminates. 2,935,486, 5-3-60, Cl. 260-28.5.
- Sayles, Raymond E., to Pennway Garment Co. Sewing machine ribbon tension guide. 2,961,186, 11-22-60, Cl. 242-155.
- Sayles St. Sales Co.: *See*—  
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- Saylor, Matthias W., T. R. Harter, and R. E. Krafft, to The Magnavox Co. Lamination indexing and assembling machine. 2,964,840, 12-20-60, Cl. 29-203.
- Saylor, Richard: *See*—  
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- Sayner, William V.: *See*—  
Radcliffe, Arthur J., Jr., Ribner, and Sayner. 2,962,557.
- Sayre, Richard L., to The Heekin Can Co. Insulated receptacle. 2,954,893, 10-4-60, Cl. 220-17.
- Saywell, Lawrence G., to Eureka Chemical Co. Corrosion prevention. 2,943,945, 7-5-60, Cl. 106-14.
- Sbrana, Adolphe. Nautical propulsion system using webs and craft fitted with such system. 2,948,255, 8-9-60, Cl. 115-28.
- Scag, Dane T.: *See*—  
Odell, Robert C., Frentzel, Scag, and Netzler. 2,944,753.
- Scaglione, Paul J. Box spout. 2,933,218, 4-19-60, Cl. 222-90.
- Scala, Joseph D. Juncitures between the uppers and outer soles of shoes. 2,958,965, 11-8-60, Cl. 36-16.
- Scalera, Mario, F. Brody, C. L. Zimmerman, and A. B. Ulmes, to American Cyanamid Co. Dyeing polyacrylonitrile fibers with the aid of cuprous complexes. 2,939,759, 6-7-60, Cl. 88-55.
- Scallet, Barrett L.: *See*—  
Commerford, John D., and Scallet. 2,944,913.
- Scallet, Barrett L., and E. A. Sovell, to Anheuser-Busch, Inc. Starch product and method of producing same. 2,951,776, 9-6-60, Cl. 24-71.
- Scalzitzi, Edward: *See*—  
Ragon, Eleanor A. 2,926,977.
- Scamman, John F.: *See*—  
Clarke, Clifton A., Jr., McQuarrie, and Scamman. 2,930,979.
- Scamman, John F., J. G. Landry, and R. G. Jewell, to General Electric Co. Induction watt-hour meter. 2,930,980, 3-29-60, Cl. 324-137.
- Scandia Packaging Machinery Co.: *See*—  
Anderson, Andrew W. 2,948,096.
- Scanes, Percy, to George Kent Ltd. Measurement of fluid flow. 2,941,402, 6-21-60, Cl. 73-230.
- Scanlan, James J., to American Chicle Co. Deodorant composition. 2,922,747, 1-26-60, Cl. 167-93.
- Scanlin, Charles T. Anchor retainer and lock. 2,938,491, 5-31-60, Cl. 114-210.
- Scanlon, Earl J., and A. L. Jokl, to Continental Motors Corp. Generator rotor construction. 2,930,916, 3-29-60, Cl. 310-156.
- Scanlon, Edward C. Braider machine plastic horn gear. 2,941,440, 6-21-60, Cl. 87-50.
- Scanlon, Edward C. Braiding machine bobbin carrier. 2,960,905, 11-22-60, Cl. 87-55.
- Scanlon, Elizabeth A. Playground equipment. 2,929,627, 3-22-60, Cl. 272-60.
- Scanlon, William F.: *See*—  
Pace, Charles J., and Scanlon. 2,954,706.
- Scanners Ltd.: *See*—  
Gray, John G. 2,959,970.
- Scanoptic, Inc.: *See*—  
Ehrenhaft, Franz F., and Rosin. 2,940,372.  
Rosin, Seymour. 2,944,464.
- Scantlin, John R.: *See*—  
Haas, Ralph W., and Scantlin. 2,922,032.
- Scantlin, John R., to General Dynamics Corp. Broadcast paging system. 2,941,161, 6-14-60, Cl. 331-149.
- Scanzani, Robert M., to Bomac Laboratories Inc. Magnetron device. 2,945,159, 7-12-60, Cl. 315-39.61.
- Scapa Dryers Ltd.: *See*—  
Hindle, Thomas. 2,943,375.  
Hindle, Thomas, Lord, and Race. 2,949,134.  
Hindle, Thomas, and Race. 2,936,796.
- Scaramucci, Domer. Rectangular packing for wire line oil savers. 2,960,357, 11-15-60, Cl. 286-16.
- Scarboro, Ernest E. Time regulated cigarette dispensers. 2,953,280, 9-20-60, Cl. 221-15.
- Scarborough, William M., to North American Aviation, Inc. Miniaturized slip ring device. 2,924,800, 2-9-60, Cl. 339-5.
- Scarborough, Alfred D.: *See*—  
Exner, William L., and Scarborough. 2,932,471.  
Gyger, Cecil E., and Scarborough. 2,945,216.
- Scarborough, Alfred D., to Hughes Aircraft Co. Automatic timing track recording apparatus. 2,926,341, 2-23-60, Cl. 340-174.
- Scarff, Ted R.: *See*—  
Moeller, John D., and Scarff. 2,942,553.
- Scarioni, Romeo. Baking furnace. 2,949,524, 8-16-60, Cl. 219-35.
- Scarioni, Romeo. Ice-cream moulding machine for refrigerators. 2,962,267, 11-29-60, Cl. 259-118.
- Scarlett, Arthur A., R. E. Penfold, and C. B. Harrop, to International Harvester Co. Tractor mounted plow. 2,959,233, 11-8-60, Cl. 172-274.
- Scarlett, Henry A.: *See*—  
Price, Longueville H., Jr., Du Plessis, and Scarlett. 2,934,784.
- Scarrott, Gordon G.: *See*—  
Freer, John A., and Scarrott. 2,963,947.  
Johnson, Kenneth C., and Scarrott. 2,934,706.
- Scata, Mario, and B. Dal-Biano, to International Standard Electric Corp. Sealed oscillating member or armature of polarized electromagnetic relay or switch. 2,921,161, 1-12-60, Cl. 200-87.
- Scata, Sebastian: *See*—  
Cirillo, Frank. 2,931,382.
- Scatchard, Thomas L., to The New York Air Brake Co. Vaporization of metals. 2,930,879, 3-29-60, Cl. 219-19.
- Scavini, Carlo. Hair-comb cleaner. 2,919,454, 1-5-60, Cl. 15-39.
- Scavone, Michael: *See*—  
Kowalski, Frank J., and Scavone. 2,966,228.
- Scavuzzo, William J., to Purolator Products, Inc. Filter unit. 2,932,400, 4-12-60, Cl. 210-235.
- Schaab, Rudolph S., and R. E. Brandt, to The George W. Borg Corp. Electrifiers for the processing of fur and pile fabrics. 2,934,809, 5-3-60, Cl. 26-2.
- Schaaber, Otto. Rotary field chill-mold. 2,944,309, 7-12-60, Cl. 22-57.2.
- Schaadt, Franz, and A. Hegelmayer, to Firma Wasag-Chemie A.G. Electric detonator. 2,963,970, 12-13-60, Cl. 102-18.
- Schaaf, Arthur A. Effluent regulator for septic tanks. 2,944,669, 7-12-60, Cl. 210-121.
- Schaaf, Edward J., E. F. Greedy, and P. S. Devirian, Jr., to Food Machinery and Chemical Corp. Harvester for vine crops. 2,940,240, 6-14-60, Cl. 56-21.
- Schaap, Emerson J. Tongue for farm implement. 2,940,531, 6-14-60, Cl. 172-26.
- Schaap, Willem F. C., to The Babcock & Wilcox Co. Apparatus for vapor generating and superheating with recirculated gas flow control of reheat. 2,960,972, 11-22-60, Cl. 122-478.
- Schaberg, Johannes G., to Minneapolis-Honeywell Regulator Co. Combined torquer and pick-off. 2,925,569, 2-16-60, Cl. 336-40.
- Schabot, Bernard W. Tapered hole gage. 2,943,394, 7-5-60, Cl. 33-147.
- Schabot, Bernard W. Indexing fixture. 2,921,487, 1-19-60, Cl. 77-64.
- Schabuer, Fritz M., to Mackay Radio and Telegraph Co. Variable pulse delay apparatus. 2,931,981, 4-5-60, Cl. 328-55.
- Schachet, Hyman. Corrugated potato chip machine. 2,947,335, 8-2-60, Cl. 146-78.
- Schacht, Gunter H., to Automatic Electric Laboratories, Inc. Cross bar switch. 2,955,168, 10-4-60, Cl. 179-27.54.
- Schacht, Louis L. Structural assemblies. 2,919,477, 1-5-60, Cl. 20-56.4.
- Schachter, Jacob, to Pitometer Log Corp. Ultra-high frequency oscillator with resonant cavity tuning means. 2,966,635, 12-27-60, Cl. 331-98.
- Schachter, Willy, H. Schumacher, and H. Leupold, to Voigt & Haefner A. G. Welding. 2,957,070, 10-18-60, Cl. 219-79.
- Schackert, Heinz, to Jos. Schneider & Co. Magnetic system for producing arcuate motions. 2,966,108, 12-27-60, Cl. 95-64.
- Schackmann, Heinrich: *See*—  
Kuss, Ernst, Remagen, Rosin, and Schackmann. 2,963,157.
- Schade, Arthur E., 1/10 to Gadget-of-The-Month Club, Inc. Coffee can opener. 2,924,353, 2-9-60, Cl. 220-52.
- Schade, Frank S., to National Blank Book Co. Expandable post binder. 2,962,027, 11-29-60, Cl. 129-13.
- Schade, Harry: *See*—  
Fasch, Werner, and Schade. 2,963,950.



- Schade, Otto H., Jr., to Radio Corp. of America. Electron beam tube. 2,932,758, 4-12-60, Cl. 313-313.
- Schade, Willy, to Eastman Kodak Co. High resolution photographic objectives covering a moderate field. 2,936,675, 5-17-60, Cl. 88-57.
- Schadlich, Karl H., to General Aniline & Film Corp. Photographic masking using the callier effect. 2,925,338, 2-16-60, Cl. 96-16.
- Schaefer, Adolph O. Production of large masses of steel suitable for the production of forgings, and apparatus therefor. 2,958,913, 1-8-60, Cl. 22-212.
- Schaefer, Arthur E.: See—
- Fillion, Stanley H., and Schaefer. 2,950,017.
- Schaefer, Carl A., to Square D Co. Time relay apparatus. 2,929,898, 3-22-60, Cl. 200-97.
- Schaefer, Carl F., and J. A. Mead, to United Aircraft Corp. Line of sight stabilizing system. 2,966,063, 12-27-60, Cl. 74-534.
- Schaefer, David H. Counting circuit. 2,934,750, 4-26-60, Cl. 340-174.
- Schaefer, David H. Static analogue divider. 2,948,473, 8-9-60, Cl. 235-196.
- Schaefer, Earl F.: See—
- Bivens, Paul E., and Schaefer. 2,925,801.
- Schaefer, Earl F., to Owens-Illinois Glass Co. Method of treating glass container surfaces. 2,926,101, 2-23-60, Cl. 117-45.
- Schaefer, Edward E. Display hanger. 2,947,421, 8-2-60, Cl. 211-45.
- Schaefer, Edward J. Mechanical and hydraulic absorbing means for a submersible pump system. 2,950,129, 8-23-60, Cl. 285-49.
- Schaefer, Edward J. Cable connector. 2,958,842, 11-1-60, Cl. 339-61.
- Schaefer Equipment Co.: See—
- Cale, Roland E. 2,921,653.
- Schaefer, Ernest R. Amusement device. 2,919,516, 1-5-60, Cl. 46-22.
- Schaefer, F. & M., Brewing Co., The: See—
- Strandskov, Frede B., and Bockelmann. 2,963,368.
- Strandskov, Frede B., and Bockelmann. 2,964,406.
- Schaefer, Frederic C., to American Cyanamid Co. 6-( $\alpha$ -vinyl-oxalkyl)-2,4-diamino-s-triazines and polymers thereof. 2,920,061, 1-5-60, Cl. 260-67.6.
- Schaefer, Frederic C., and G. A. Peters, to American Cyanamid Co. Substituted s-triazine preparation. 2,953,563, 9-20-60, Cl. 260-248.
- Schaefer, George E., to Hamilton Mfg. Co. Cabinet corner construction. 2,945,270, 7-19-60, Cl. 20-92.
- Schaefer, George W.: See—
- Roscoe, John S., and Schaefer. 2,955,126.
- Schaefer, Hugh F.: See—
- Johnson, Richard E., Cahoon, and Schaefer. 2,945,079.
- Johnson, Richard E., Darland, Grulke, Cahoon, and Schaefer. 2,948,767.
- Schaefer, Inc.: See—
- Hargrave, Delbert A., and Omelianchuk. 2,932,955.
- Schaefer, John J., to Reynolds Metals Co. Printing roll and method for assembling the same. 2,940,388, 6-14-60, Cl. 101-375.
- Schaefer, John J., to Reynolds Metals Co. Printing roll. 2,949,852, 8-23-60, Cl. 101-375.
- Schaefer, Joseph. Electrical system. 2,925,574, 2-16-60, Cl. 338-132.
- Schaefer, Langdon C., to Westinghouse Electric Corp. Terminal board for dynamoelectric machines. 2,942,125, 6-21-60, Cl. 310-71.
- Schaefer, Louis F., to Radio Corp. of America. Burst separator for color television receivers. 2,951,898, 9-6-60, Cl. 178-54.
- Schaefer, Peter R.: See—
- Wojciak, Thaddeus J., and Schaefer. 2,933,591.
- Schaefer, Robert E.: See—
- Williams, Paul H., Green, Schaefer, and Long. 2,935,934.
- Schaefer, Robert H.: See—
- Fisher, Mark E., Tuck, and Schaefer. 2,933,172.
- Stadthaus, Kurt R., Bobo, and Schaefer. 2,944,326.
- Schaefer, Rodger L., E. H. Sundbeck, and R. W. Sudhoff, to The Chemstrand Corp. Process of producing non-fibrillating acrylonitrile polymer filaments with wet steam treatment and products produced thereby. 2,920,934, 1-12-60, Cl. 8-130.1.
- Schaefer, Rudolph. Wire stretcher. 2,944,788, 7-12-60, Cl. 254-161.
- Schaefer, Vincent J., to General Electric Co. Method of depositing a silver film. 2,924,535, 2-9-60, Cl. 117-33.3.
- Schaefer, William, to Oaklyn Specialty Co. Automatic electrically heated solder pot. 2,957,440, 10-25-60, Cl. 113-93.
- Schaeffer, George W.: See—
- Toeniskoetter, Richard H., and Schaeffer. 2,921,833.
- Schaeffer, Matthew J.: See—
- Taylor, Fielding, Jr., and Schaeffer. 2,923,603.
- Schaeffer, Werner. Hanging conveyor. 2,928,525, 3-15-60, Cl. 198-165.
- Schaeffer, William D.: See—
- McKinnis, Art C., and Schaeffer. 2,921,933.
- Schaeffer, William D., to Union Oil Co. of California. Hydrazine manufacture. 2,935,378, 5-3-60, Cl. 23-190.
- Schaeffer, William D., and W. S. Dorsey, to Union Oil Co. of California. Separation of C-8 aromatic hydrocarbon isomers utilizing Werner complexes. 2,926,206, 2-23-60, Cl. 260-674.
- Schaeffer, William D., and J. D. Wordie, to Union Oil Co. of California. Separation of C-8 aromatic hydrocarbon isomers using Werner complexes. 2,951,104, 8-30-60, Cl. 260-669.
- Schaeffer, William S. Mowing machine. 2,941,345, 6-21-60, Cl. 56-25.
- Schaeffer, Georg, to Industriewerk Schaeffer OHG. Method of producing cages for roller bearings and more particularly for needle roller bearings. 2,933,803, 4-26-60, Cl. 29-148.4.
- Schaelchlin, Walter, and D. M. Boer, to United States of America, Navy. Control systems. 2,937,611, 5-24-60, Cl. 114-221.
- Schaer, Glenn R.: See—
- Beach, John G., and Schaer. 2,928,169.
- Schaer, Glenn R., to United States of America, Army. Chromium alloy plating. 2,927,066, 3-1-60, Cl. 204-43.
- Schaeve, Donald K., to Barber-Colman Co. Polarized relay amplifier circuit. 2,922,930, 1-26-60, Cl. 317-148.5.
- Schaeve, Donald K., to Barber-Colman Co. Phase-sensitive amplifier. 2,924,757, 2-9-60, Cl. 317-148.5.
- Schaeve, Donald K., to Barber-Colman Co. Transistor amplifier with stepped output. 2,955,213, 10-4-60, Cl. 307-8.5.
- Schaeve, Donald K., and M. R. Carlson, to Barber-Colman Co. Condition responsive control apparatus. 2,957,111, 10-18-60, Cl. 317-148.5.
- Schafer, Arthur W., to Merc-O-Tronic Instruments Corp. Magneto ignition system tester. 2,938,161, 5-24-60, Cl. 324-15.
- Schafer, Charles F.: See—
- Bjong, Leo V., Schafer, and Hochheiser. 2,937,518.
- Schafer, Erwin: See—
- Hoppner, Martin, Schussler, and Schafer. 2,946,097.
- Schafer, Fridolin, to Robert Bosch, G.m.b.H. Commutator and process of manufacturing the same. 2,934,663, 4-26-60, Cl. 310-235.
- Schafer, Fridolin, to Robert Bosch, G.m.b.H. Commutator arrangement. 2,956,191, 10-11-60, Cl. 310-235.
- Schäfer, Georg: See—
- Baumann, Paul, Broich, and Schäfer. 2,930,822.
- Schafer, Glen H.: See—
- Mazza, Harold, Cohen, and Schafer. 2,940,820.
- Schafer, Karl. Change speed gears. 2,926,538, 3-1-60, Cl. 74-351.
- Schafer, Kenneth A.: See—
- Singleton, Fred G., and Schafer. 2,944,994.
- Schafer, Konrad, to Gebrüder Thonet Aktiengesellschaft. Upholstered chair. 2,951,532, 9-6-60, Cl. 155-191.
- Schafer, Robert H.: See—
- Ricketts, James B., Jr., and Schafer. 2,942,160.
- Schäfer, Rudolf: See—
- Zosel, Kurt, and Schäfer. 2,950,979.
- Schaffer, Paul L. Conversion of amplitude to phase modulation by means of crystal to reduce noise. 2,939,951, 6-7-60, Cl. 250-20.
- Schaffer, Rudolf: See—
- Buschhorn, Walther, and Schaffer. 2,960,939.
- Schaffer, Stanley A.: See—
- Sherts, William M., and Schaffer. 2,964,162.
- Schaffer, William C.: See—
- Graefe, Albert D., Hoffman, and Schaffer. 2,934,898.
- Schaffernicht, Walter, and J. E. Otto, to Telefunken G.m.b.H. Electronic line storage device. 2,945,142, 7-12-60, Cl. 313-68.
- Schaffert, Roland M., to Haloid Xerox Inc. Color xerography. 2,962,375, 11-29-60, Cl. 96-1.
- Schaffert, Roland M., to Haloid Xerox Inc. Xerographic member. 2,962,376, 11-29-60, Cl. 96-1.
- Schaffstein, Goswin: See—
- Reker, Horst, and Schaffstein. 2,965,796.
- Schafflander, Gerald M., to Bantob Products Corp. Manufacture of cigarettes. 2,943,958, 7-5-60, Cl. 131-2.
- Schafflander, Gerald M., to Bantob Products Corp. Manufacture of cigarettes. 2,943,959, 7-5-60, Cl. 131-2.
- Schagen, Pieter: See—
- Calder, Nigel D. R., and Schagen. 2,927,315.
- Calder, Nigel D. R., Schagen, and Tosswill. 2,957,044.
- Schagen, Pieter, to North American Philips Co., Inc. Colour television and like systems. 2,965,704, 12-20-60, Cl. 178-54.
- Schagen, Pieter, and N. D. R. Calder, to North American Philips Co., Inc. Scanning device. 2,924,656, 2-9-60, Cl. 178-76.
- Schagen, Pieter, B. A. Eastwell, and N. D. R. Calder, to North American Philips Co., Inc. Cathode ray tube. 2,957,097, 10-18-60, Cl. 313-76.
- Schalch, Wilbur A.: See—
- Sawyer, Frederick D. 2,936,562.
- Schalch, Wilbur A., to Owens-Illinois Glass Co. Method of forming hollow plastic articles from tubing. 2,964,795, 12-20-60, Cl. 18-55.
- Schald, Arthur J., and G. Sroboda, to Western Electric Co., Inc. Work locating stop. 2,923,193, 2-2-60, Cl. 82-34.
- Schairer, Edward G., to Armstrong Cork Co. Method of producing sheet material. 2,928,133, 3-15-60, Cl. 18-48.8.
- Schake, Richard P., to Daystrom, Inc. Suppressed zero electrical instrument. 2,958,041, 10-25-60, Cl. 324-131.
- Schalkowsky, Samuel, H. Blazek, and I. S. Tolins, to Sperry Rand Corp., Ford Instrument Co. Division. Rotating pendulum accelerometer. 2,936,624, 5-17-60, Cl. 73-516.



- Schall, Louis H., to Raytheon Co. Microwave ovens. 2,956,143, 10-11-60, Cl. 219-10.55.
- Schall, Paul, Jr.: *See*—  
Barrett, Robert E., Olson, and Schall. 2,932,590.
- Schallenberg, Elmer E.: *See*—  
Chafetz, Harry, Schallenberg, Nolan, and Patterson. 2,962,527.
- Schaller, Gerhard. Spiral positive displacement pump. 2,921,534, 1-19-60, Cl. 103-117.
- Schaller, Ruth E. G.: *See*—  
Meyerhardt, Dagobert. 2,954,074.
- Schalltechnik Dr.-Ing. K. Schoeps: *See*—  
Schoeps, Karl, and Küsters. 2,958,739.
- Schallus, Erich: *See*—  
Feldmeyer, Erich, and Schallus. 2,923,811.
- Schalm, Oscar W., and D. O. Noorlander, to The Regents of the University of California. Milk testing receptacle. 2,935,384, 5-3-60, Cl. 23-258.
- Schambers, William. Oiling device for washing machines. 2,953,008, 9-20-60, Cl. 68-23.
- Schamel, Clyde H., and C. S. Semar, to General Motors Corp. Seat adjuster. 2,963,075, 12-6-60, Cl. 155-14.
- Schapker, Richard L. Compound rotary compressor. 2,931,173, 4-5-60, Cl. 60-39.16.
- Schappel, Joseph W., to American Viscose Corp. Production of soil-resistant material. 2,928,754, 3-15-60, Cl. 106-286.
- Scharf, Herbert D., to Jennings Machine Corp. Wire stripping methods and apparatus. 2,956,717, 10-18-60, Cl. 225-1.
- Scharf, Murray M.: *See*—  
Steber, Joseph F. 2,934,207.
- Scharf, Murray M. Method of preparing barrel pack pickles. 2,946,690, 7-26-60, Cl. 99-154.
- Scharfe, Emil F. Evaporative cooler. 2,948,233, 8-9-60, Cl. 103-262.
- Scharfe, Gerhard: *See*—  
Kronig, Walter, and Scharfe. 2,930,823.
- Scharfenberger, Friedrich: *See*—  
Scholl, Mario, Obermaier, and Scharfenberger. 2,944,318.
- Scharla-Nielsen, Hans, D. D. McKee, and F. D. J. McLamb, to Radiation, Inc. Radio frequency amplifier. 2,925,477, 2-16-60, Cl. 179-171.
- Scharla-Nielsen, Hans, and M. L. Cox, to Radiation, Inc. Vacuum tube circuit. 2,961,578, 11-22-60, Cl. 315-112.
- Scharli, Anton: *See*—  
Spinnler, Wilhelm, Bruhin, Scharli, Huber, and Linder. 2,946,910.
- Scharli, Otto, to Aktiengesellschaft Brown, Boveri and Cie. Cooling arrangement for semi-conductor rectifiers. 2,927,250, 3-1-60, Cl. 317-100.
- Scharli, Otto, to Aktiengesellschaft Brown, Boveri & Cie. Cooler for heat removal on a semi-conductor cell built into a container. 2,935,664, 5-3-60, Cl. 317-234.
- Scharringhausen, Hans, to Scharringhausen Maschinenbau Gesellschaft m.b.H. Piston-slide control valve for hydraulic presses. 2,919,680, 1-5-60, Cl. 121-46.5.
- Scharringhausen Maschinenbau Gesellschaft m.b.H.: *See*—  
Scharringhausen, Hans. 2,919,680.
- Schart, Ludwig. Automatically releasable couplings. 2,919,950, 1-5-60, Cl. 294-83.
- Schart, William J., and B. W. Bostad, to General Dynamics Corp. Computing apparatus. 2,941,721, 6-21-60, Cl. 235-175.
- Schaschl, Edward: *See*—  
Marsh, Glenn A., and Schaschl. 2,927,068.  
Marsh, Glenn A., and Schaschl. 2,936,884.  
Marsh, Glenn A., and Schaschl. 2,946,952.  
Marsh, Glenn A., and Schaschl. 2,956,225.
- Schaschl, Edward, and G. A. Marsh, to The Pure Oil Co. Method and apparatus for determining current density. 2,943,027, 6-28-60, Cl. 204-1.
- Schaschl, Edward, and G. A. Marsh, to The Pure Oil Co. Anti-static grounding device. 2,943,242, 6-28-60, Cl. 317-2.
- Schaschl, Edward, and G. A. Marsh, to The Pure Oil Co. Corrosion rate sensing assembly. 2,947,679, 8-2-60, Cl. 204-195.
- Schaschl, Edward, and G. A. Marsh, to The Pure Oil Co. Corrosion inhibition. 2,955,018, 10-4-60, Cl. 21-2.5.
- Schaschl, Edward, and G. A. Marsh, to The Pure Oil Co. Device for determining underground corrosiveness. 2,964,723, 12-13-60, Cl. 338-13.
- Schat, Marinus L. Davits for shipping provisions, stores, machinery spares and similar loads. 2,965,244, 12-20-60, Cl. 212-68.
- Schattler, Wilburn A., and R. M. Stallard, to General Motors Corp. Process and apparatus for dielectric heating. 2,922,865, 1-26-60, Cl. 219-10.41.
- Schatzka, Ivan N.: *See*—  
Smith, Charles J., Read, and Schatzka. 2,935,150.
- Schatzman, George S., and R. G. Purdy, to Robertshaw-Fulton Controls Co. Quick acting fluid pressure actuated valve. 2,938,540, 5-31-60, Cl. 137-508.
- Schatzman, George W., to Houdaille Industries, Inc. Fender and fender shield assembly. 2,966,367, 12-27-60, Cl. 280-153.
- Schaub, Franz, to Ruhrchemie Aktiengesellschaft. Treatment of grain. 2,941,310, 6-21-60, Cl. 34-65.
- Schaub, James B. Fluid transfer system. 2,925,836, 2-23-60, Cl. 141-96.
- Schaub, Thomas S. Spark plugs. 2,944,178, 7-5-60, Cl. 313-141.
- Schauer, Paul J.: *See*—  
Flitcraft, Richard K., Satkowski, Schauer, and Liss. 2,925,390.
- Schauer, Paul J., to Monsanto Chemical Co. Process for the preparation of free-flowing detergent compositions. 2,941,947, 6-21-60, Cl. 252-135.
- Schaufelberger, Felix A., to Chemical Construction Corp. Method of separating ammonia from a gas containing ammonia and carbon dioxide. 2,954,272, 9-27-60, Cl. 23-2.
- Schaufelberger, Henry W., to Western Electric Co., Inc. Article feeding fixture. 2,944,499, 7-12-60, Cl. 113-38.
- Schaufuss, Erich, to Brown, Boveri & Cie, Aktiengesellschaft. Regulating device with auxiliary control circuit. 2,930,958, 3-29-60, Cl. 318-70.
- Schaumer, Theo B., to Munsingwear, Inc. Brassiere. 2,926,668, 3-1-60, Cl. 128-465.
- Schaumer, Theo B., to Munsingwear, Inc. Girdle. 2,929,381, 3-22-60, Cl. 128-540.
- Schaurte, Paul. Diaphragm feed pump. 2,920,572, 1-12-60, Cl. 103-44.
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- Schaurte, Paul. Apparatus for conveying gases or liquids. 2,920,577, 1-12-60, Cl. 103-149.
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- Schaurte, Paul. Diaphragm pump. 2,963,976, 12-13-60, Cl. 103-44.
- Schaus, Karl L.: *See*—  
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- Schauster, Joseph A., to The Empire Tool & Mfg. Co. Velvet racks. 2,956,673, 10-18-60, Cl. 206-51.
- Schawlow, Arthur L., and C. H. Townes, to Bell Telephone Laboratories, Inc. Masers and maser communications system. 2,929,922, 3-22-60, Cl. 250-7.
- Schayes, Raymond G., to North American Philips Co., Inc. Bilateral amplitude limiter. 2,935,625, 5-3-60, Cl. 307-88.5.
- Schechter, Leon: *See*—  
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- Schechter, William H.: *See*—  
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- Schechter, William H., to Callery Chemical Co. Production of alkali metal borohydrides. 2,929,676, 3-22-60, Cl. 23-14.
- Schechter, William H., and T. B. Williams, to Callery Chemical Co. Purification of trimethoxyboroxine. 2,926,186, 2-23-60, Cl. 260-462.
- Schechter, William H., and R. M. Adams, to Callery Chemical Co. Production of alkylchloroboranes. 2,930,743, 3-29-60, Cl. 204-165.
- Schechter, William H., R. M. Adams, and G. F. Huff, to Callery Chemical Co. Preparation of dimethylamine borane. 2,938,923, 5-31-60, Cl. 260-583.
- Schechter, Aaron F. Lamp control. 2,964,613, 12-13-60, Cl. 240-2.
- Schedling, Johann: *See*—  
Leupi, Robert, and Schedling. 2,934,648.
- Scheel, Walther F., to Rockwell-Standard Corp. Shaft support. 2,923,579, 2-2-60, Cl. 308-15.
- Scheeler, Frederick H., to Admiral Corp. Frame for a screen. 2,925,774, 2-23-60, Cl. 101-127.1.
- Scheemaekers, Emile. Paper clip device. 2,938,252, 5-31-60, Cl. 24-66.
- Scheer, Leo N.: *See*—  
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- Scheer, Milton D., and R. Klein, to United States of America, Commerce. Process for low temperature hydrogenation of olefins. 2,934,578, 4-26-60, Cl. 260-683.9.
- Scheer, Richard D.: *See*—  
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Cutlip, Claude R., and Scheer. 2,937,146.
- Scheetz, Howard A.: *See*—  
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- Scheffer, Nicholas, to North American Philips Co., Inc. Electric contact device. 2,951,916, 9-6-60, Cl. 200-16.
- Scheffler, Heinz: *See*—  
Ohnacker, Gerhard, and Scheffler. 2,943,087.
- Scheffler, Peter, to VEB Junkalor. Fluid-pressure operated device. 2,960,097, 11-15-60, Cl. 137-82.
- Scheg, Marcian A., and F. S. Craig, to General Railway Signal Co. Searchlight signals. 2,922,389, 1-26-60, Cl. 116-18.
- Schegk, Ernst, and G. Schrader, to Farbenfabriken Bayer Aktiengesellschaft. Phosphorus containing insecticidal compounds and a process for their production. 2,961,458, 11-22-60, Cl. 260-461.
- Scheib, Richard, Jr.: *See*—  
Cohen, Sidney B., Scheib, and Vacquier. 2,933,059.
- Scheib, Robert L. Barbed point for arrows. 2,939,708, 6-7-60, Cl. 273-106.5.
- Scheibe, Alfred, and W. Streller, to VEB Zentrales Projektierungs-buero der Textilindustrie. Process for making a deformable fibrous band, tape and like article. 2,924,853, 2-16-60, Cl. 19-51.
- Scheibe, Elias W.: *See*—  
Jacobitz, William G., and Scheibe. 2,963,282.



- Scheibe, Wolfgang: *See*—  
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- Scheibel, Kurt, and A. Bohmann, to VEB Spezialmaschinenwerk Limbach. Controlling device, especially an automat for controlling movements of a controllable element of a textile machine. 2,926,703, 3-1-60, Cl. 139—317.
- Scheichl, Ludwig, to F. Hermann. Method for the manufacture of battery electrodes. 2,920,128, 1-5-60, Cl. 136—27.
- Scheid, Charles F., to Sylvania Electric Products Inc. Grid sorting by shadow contours. 2,923,197, 2-2-60, Cl. 88—14.
- Scheid, Erich M.: *See*—  
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- Scheidenhelm, Earl L., to H. D. Hume. Cutter for vine crops. 2,930,436, 3-29-60, Cl. 172—78.
- Scheidenhelm, Earl L., to H. D. Hume. Shield attachment for harvester reel bats. 2,937,488, 5-24-60, Cl. 56—226.
- Scheidenhelm, Earl L., to H. D. Hume. Harvester for pumpkins and similar crops. 2,958,176, 11-1-60, Cl. 56—27.
- Scheidenhelm, Frederick W. Dam and method of making the same. 2,949,743, 8-23-60, Cl. 61—30.
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- Scheiding, Arno H.: *See*—  
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- Scheifele, Frederick W. Fishing sinker. 2,937,468, 5-24-60, Cl. 43—43.1.
- Scheil, Merrill A., to A. O. Smith Corp. Method of welding stainless steel. 2,939,942, 6-7-60, Cl. 219—74.
- Scheinerman, Harry A. Box construction for the support of a mattress on a bed. 2,956,290, 10-18-60, Cl. 5—308.
- Scheirich, H. J., Co.: *See*—  
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- Scheiter, Milton H., to General Motors Corp. Governor drive for hydraulic transmission. 2,951,694, 9-6-60, Cl. 264—2.
- Scheldorf, Marvel W., to Andrew Corp. Broad band antenna. 2,937,372, 5-17-60, Cl. 343—769.
- Scheldorf, Marvel W., to Andrew Corp. Communication antenna. 2,945,231, 7-12-60, Cl. 343—800.
- Schell, Allan C.: *See*—  
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- Schell, Burt E., Jr., to Storage Products Corp. Structural lock. 2,932,368, 4-12-60, Cl. 189—36.
- Schell, Paul, C. A. Cobb, R. Brenner, and G. J. Krolzick, to Whirlpool Corp. Machine contained suds storage and return system. 2,931,200, 4-5-60, Cl. 68—12.
- Schell, Samuel D. Electric razor having an oscillating tapered blade. 2,931,099, 4-5-60, Cl. 30—43.
- Schellenberg, Wolf-Dietrich, and H. Bartl, ½ to Farbenfabriken Bayer Aktiengesellschaft, and ½ to Mobay Chemical Co. Light-sensitive high molecular compounds. 2,948,706, 8-9-60, Cl. 260—66.
- Schelleng, John C.: *See*—  
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- Schellentrager, Eugene W., to The Atlas Bolt & Screw Co. Indicator means for adjustable trip on a weighing mechanism. 2,929,604, 3-22-60, Cl. 249—2.
- Scheller, Hans: *See*—  
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- Scheller, Joachim and H., to Firma Gebr. Scheller, Textilmaschinenfabrik. Variable torque take-up. 2,959,041, 11-8-60, Cl. 66—150.
- Scheller, Walter, to Ciba Ltd. Process for the fractional distillation of inorganic halides. 2,928,722, 3-15-60, Cl. 23—17.
- Scheller, Walter, to Ciba Ltd. Process for the recovery of metal halides from their adducts with phosphorus oxychloride. 2,951,742, 9-6-60, Cl. 23—87.
- Scheller, Walter, and H. Abegg, to Ciba Ltd. Process for the production of addition products of phosphorus oxychloride and their use for separating niobium and tantalum from mixtures containing them. 2,936,214, 5-10-60, Cl. 23—17.
- Schemansky, Joseph R.: *See*—  
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- Schenck, Leslie M., to General Aniline & Film Corp. Stabilization of aromatic amines. 2,927,136, 3-1-60, Cl. 260—578.
- Schenck, Leslie M., to General Aniline & Film Corp. Reduction of orthonitroaniline to produce orthophenylenediamine. 2,956,082, 10-11-60, Cl. 260—580.
- Schenck, Leslie M., and D. L. Deutsch, to General Aniline & Film Corp. Purification of M-phenylenediamine. 2,946,821, 7-26-60, Cl. 260—582.
- Schenck, Leslie M., and D. L. Deutsch, to General Aniline & Film Corp. Purification of M-phenylenediamine. 2,946,822, 7-26-60, Cl. 260—582.
- Schenck, Leslie M., and A. Bloom, to General Aniline & Film Corp. Purification of aromatic meta-diamines. 2,950,319, 8-23-60, Cl. 260—582.
- Schenck, Martin: *See*—  
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- Schenck, Remsen T. E., to Keystone Chemurgic Corp. Bacteriostatic compounds and processes for their preparation. 2,945,853, 7-19-60, Cl. 260—239.65.
- Schenck, Remsen T. E., and A. J. Buzas, to Keystone Chemurgic Corp. Basic aluminum magnesium carbonate. 2,958,626, 11-1-60, Cl. 167—55.
- Schendel, Herbert M., to Beckman Instruments, Inc. Slip ring mount. 2,931,002, 3-29-60, Cl. 338—167.
- Schendel, Herbert M., to Beckman Instruments, Inc. Potentiometer construction. 2,934,732, 4-26-60, Cl. 338—143.
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- Schenk, Walter, to Henkel & Cie. G.m.b.H. Process for the preparation of cyclic dicarboxylic acids. 2,931,829, 4-5-60, Cl. 260—515.
- Schenk, Walter, and G. Schwarte, to Henkel & Cie. G.m.b.H. Process for the preparation of cyclic dicarboxylic acids. 2,930,813, 3-29-60, Cl. 260—515.
- Schenkelberger, Frank J., to Otis Elevator Co. Load clamps for an industrial truck. 2,920,775, 1-12-60, Cl. 214—653.
- Schenkeng, Emerich, to G. M. Pfaff, A-G. Apparatus for continuous heat-sealing. 2,941,576, 6-21-60, Cl. 154—42.
- Schenkeng, Emerich, to G. M. Pfaff AG. Presser foot for sewing machine. 2,949,085, 8-16-60, Cl. 112—235.
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- Petersen, Siegfried, and Domagk. 2,938,041.
- Schepman, Berne A., to The Emico Corp. Filter and filter medium therefor. 2,960,233, 11-15-60, Cl. 210—396.
- Schepers, Eduard J.: *See*—  
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- Scherbatskoy, Serge A.: *See*—  
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- Scherbatskoy, Serge A., to PGAC Development Co. Nuclear well logging. Re. 24,797, 3-15-60, Cl. 250—71.5.
- Scherbatskoy, Serge A. Directional radiation detector. 2,939,010, 5-31-60, Cl. 250—71.
- Scherbatskoy, Serge A. Non-destructive testing. 2,939,012, 5-31-60, Cl. 250—83.3.
- Scherbatskoy, Serge A. Pipe-line exploration. 2,940,302, 6-14-60, Cl. 73—40.5.
- Scherbatskoy, Serge A. Nuclear measuring system. 2,946,888, 7-26-60, Cl. 250—71.5.
- Scherbatskoy, Serge A., to PGAC Development Co. Nuclear well logging method and apparatus. 2,949,535, 8-16-60, Cl. 250—83.3.
- Scherbatskoy, Serge A., to PGAC Development Co. Radioactivity well logging system. 2,957,083, 10-18-60, Cl. 250—83.3.
- Scherbatskoy, Serge A. Radiation detecting. 2,962,590, 11-29-60, Cl. 250—71.5.
- Scherber, Floyd I., to E. I. du Pont de Nemours and Co. Process of coating regenerated cellulose film with polyethylene and resultant article. 2,953,482, 9-20-60, Cl. 117—145.
- Scherenberg, Hans O.: *See*—  
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- Scherenberg, Hans O., to Daimler-Benz Aktiengesellschaft. Piston for an internal combustion engine. 2,963,329, 12-6-60, Cl. 309—10.
- Scherenberg, Hans O., and K.-H. R. Goeschel, to Daimler-Benz Aktiengesellschaft. Mixture varying means for internal combustion engines. 2,945,484, 7-19-60, Cl. 123—179.
- Scherer, Bernard L., to Sorensen & Co., Inc. Protective device for transistor regulators. 2,925,548, 2-16-60, Cl. 323—22.
- Scherer, George F., to Rockwell Mfg. Co. Plug valve improvements. 2,932,311, 4-12-60, Cl. 137—246.22.
- Scherer, George J., to Cramer Posture Chair Co., Inc. Clamping device for fastening scuff plate and bumper to chair legs. 2,954,637, 10-4-60, Cl. 45—137.
- Scherer, George J., to Cramer Posture Chair Co., Inc. Tilt back chair. 2,956,619, 10-18-60, Cl. 155—157.
- Scherer, Karl. Accordion. 2,950,643, 8-30-60, Cl. 84—376.
- Scherer, Otto, H. Hahn, and H. Kuhn, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Method of preparing aliphatic fluorine compounds. 2,927,948, 3-8-60, Cl. 260—653.7.
- Scherer, Otto, H. Kuhn, and E. Forche, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing aliphatic fluorine compounds. 2,946,828, 7-26-60, Cl. 260—653.7.



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- Scherer, Otto, and P. Heller, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. N-(chloro-substituted aryl)-N'-methoxy-N'-methyl ureas. 2,960,534, 11-15-60, Cl. 260-553.
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- Floyd, James J., and Spannello. 2,963,839.
- Ginsberg, Helen F., and Papa. 2,951,089.
- Gould, David H., and Shapiro. 2,959,602.
- Gould, David H., and Shapiro. 2,959,603.
- Hersberg, Emanuel B., and Gould. 2,965,640.
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- Scherl, Ely, to General Electric Co. System for preventing recirculation in clustered turbine engines. 2,960,821, 11-22-60, Cl. 60-35.6.
- Scherr, Harry, to United States of America, War, trustee. Anti-vesicant composition. 2,921,031, 1-12-60, Cl. 252-187.
- Scherr, Harry, to United States of America, War. Mustard gas-destroying paint. 2,931,844, 4-5-60, Cl. 260-738.
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- Scherrer, George H., to United States of America, Navy. Method of making an electric firing device. 2,924,140, 2-9-60, Cl. 86-1.
- Scherrer, George H., to Hercules Powder Co. Detonator. 2,960,932, 11-22-60, Cl. 102-28.
- Scherrer, George H., to Hercules Powder Co. Detonator. 2,960,933, 11-22-60, Cl. 102-28.
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- Scherzinger, Bruno, to Mechanical Pin Resetter Co., Ltd. Bowling alley pin resetting machine. 2,920,892, 1-12-60, Cl. 273-43.
- Scherzinger, Bruno L., to Mechanical Pin Resetter Co., Ltd. Bowling alley pin sweeping mechanism. 2,942,884, 6-28-60, Cl. 273-54.
- Scherzinger, Bruno, to Mechanical Pin Resetter Co., Ltd. Bowling alley pin resetting machine. 2,943,857, 7-5-60, Cl. 273-43.
- Schetelich, Alan A.: See—
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- Biedermann, Walter, Beffa, and Schetty. 2,933,490.
- Scheublein, William A., Jr., and J. Dumpis, to Moog Industries, Inc. Ball joint assembly. 2,954,993, 10-4-60, Cl. 287-90.
- Scheuerpflug, Hans, to Maschinenfabrik Augsburg-Nurnberg A.G. Rope drum and driving gear arrangement. 2,928,624, 3-15-60, Cl. 242-117.
- Scheufele, Herbert C.: See—
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- Scheunert, Alfred, to Siemens & Halske Aktiengesellschaft. Party line telephone switching. 2,938,080, 5-24-60, Cl. 179-17.
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- Roche, Jean A. F., and Schexnaydre. 2,963,859.
- Scheying, Heinz P.: See—
- Bartholomäus, Werner J., Wirsching, and Scheying. 2,953,992.
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- Shichman, Daniel, to United States Rubber Co. Method of flame-spraying a plurality of metals simultaneously. 2,966,423, 12-27-60, Cl. 117-46.
- Schick, Albert L., to American Plasticraft Co. Shoe tree having flexible size adjusting means. 2,941,220, 6-21-60, Cl. 12-115.6.
- Schick, Frederick A., to Allis-Chalmers Mfg. Co. Multiple disk clutch. 2,954,858, 10-4-60, Cl. 192-69.
- Schick, Howard M. Article display and storage structure. 2,950,155, 8-23-60, Cl. 312-202.
- Schick Inc.: See—
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- McLaughlin, Robert L., Miller, and Schick. 2,963,855.
- McLaughlin, Robert L., Miller, and Schick. 2,964,393.
- Schick, Jules, to Goro Société Anonyme. Hinged connecting means for bolts. 2,935,774, 5-10-60, Cl. 24-33.
- Schickner, William C., to United States of America, Atomic Energy Commission. Process of electroplating metals with aluminum. 2,934,478, 4-26-60, Cl. 204-1.5.
- Schieber, Hans. Diamond dressing tool holder. 2,955,587, 10-11-60, Cl. 125-11.
- Schieber, Hans, and P. Bindel. Tire traction chain. 2,955,634, 10-11-60, Cl. 152-233.
- Schiedel, George M., to Ford Motor Co. Differential pressure testing means. 2,936,610, 5-17-60, Cl. 73-40.
- Schiedelbein, Maurice C., to Wolverine Fabricating & Mfg. Co., Inc. Gasket material and method of producing the same. 2,957,784, 10-25-60, Cl. 117-75.
- Schiefer, Harry M.: See—
- Eynon, Benjamin A., and Schiefer. 2,947,772.
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- Schierberl, Francis P.: See—
- Turek, Robert F., and Schierberl. 2,936,583.
- Schierwater, Friedrich W.: See—
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- Schiess Aktiengesellschaft: See—
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- Keyser, Johann J. 2,950,507.
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- Schiff, Leonard I., to United States of America, Navy. Differential analyzer. 2,961,767, 11-29-60, Cl. 33-1.
- Schiff, Henry L., to United States of America, Army. Interlock mechanism for multiple section structures. 2,952,340, 9-13-60, Cl. 189-14.
- Schiffbauer, Max. Joint and plier construction. 2,940,346, 6-14-60, Cl. 81-416.
- Schifferli, Leo M., Jr., to Union Carbide Corp. Method of separating alumina particles from aqueous acid alumina slurry. 2,957,821, 10-25-60, Cl. 210-54.
- Schiffman, Murray, to Directomat, Inc. Printing device. 2,943,563, 7-5-60, Cl. 101-69.
- Schiffmann, Alois. Method for the production of contact-safe and corrosion-proof twin metal connectors for electric power conductors. 2,954,600, 10-4-60, Cl. 29-155.55.
- Schiffmann, Fred W. Headboard structure for bedsteads. 2,933,737, 4-26-60, Cl. 5-308.
- Schiks, Albert, to Optische Werke C.A. Steinhell Sohn G.m.b.H. Photographic camera. 2,943,552, 7-5-60, Cl. 95-64.
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- Schild, Karl, to O. Stieber. Overload releasing clutch. 2,948,373, 8-9-60, Cl. 192-56.
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- Krause, Walter, Fischer, Wirtz, and Schilken. 2,941,021.
- Schill, Bernard J.: See—
- King, Richard J., and Schill. 2,923,364.
- Schiller, Francis, and R. Lessig, to Burroughs Corp. Web unwinding apparatus. 2,957,638, 10-25-60, Cl. 242-68.7.
- Schiller, Fred J. Self clutching container closure. 2,921,716, 1-19-60, Cl. 222-92.
- Schiller, Georg: See—
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- Schiller, Sigge. Means for promoting plant growth by reflecting light and deflecting water. 2,940,219, 6-14-60, Cl. 47-32.
- Schilling, Clarence J., to Air Products Inc. Liquid level gauge. 2,928,278, 3-15-60, Cl. 73-302.
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- Schilling, Clarence J., to Air Products Inc. Liquid transfer. 2,939,404, 6-7-60, Cl. 103-232.
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- Schilling, Clarence J., to Air Products Inc. Method and apparatus for operating regenerators. 2,947,151, 8-2-60, Cl. 62-13.
- Schilling, Karl F.: See—
- Hollingsworth, Clinton A., Schilling, and Wester. 2,927,692.
- Schilling, Otto, and K. Rank, to Daimler-Benz Aktiengesellschaft. Cylinder head gasket arrangement. 2,939,753, 6-7-60, Cl. 309-3.
- Schilling, Robert, R. E. Owen, and G. W. Jackson, to General Motors Corp. Ride height control system. 2,923,557, 2-2-60, Cl. 280-124.
- Schilling, Robert: See—
- Bowser, Phillip C., and Schilling. 2,922,637.



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- Schilling, Thomas L., to General Electric Co. Afterburner ignition system. 2,936,586, 5-17-60, Cl. 60-39.82.
- Schillinger, Jack. Vehicle engine control. 2,954,705, 10-4-60, Cl. 74-482.
- Schils, Alvin L., to Sprague Electric Co. Capacitor end seal process. 2,940,127, 6-14-60, Cl. 18-59.
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- Horton, Raynor E., and Schimmel. 2,961,760.
- Schimmel, Solomon S., 50% to E. C. Stee. Fire alarm system. 2,958,731, 11-1-60, Cl. 179-5.
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- Schimmelschmidt, Kurt, and H. Kappenberger, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Azodyestuffs soluble in water. 2,959,582, 11-8-60, Cl. 260-163.
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- Schindel, Arnold, to Bendix Aviation Corp. Overrunning bearing lubrication means. 2,938,612, 5-31-60, Cl. 192-41.
- Schindel, Arnold. Starter having reverse torque release. 2,942,480, 6-28-60, Cl. 74-7.
- Schindler, Bruno H. Mail slot device for a glass door. 2,940,138, 6-14-60, Cl. 20-39.
- Schindler, Frank S., and R. K. Titus, to Flexonics Corp. Method of making a reinforced flexible conduit assembly. 2,965,961, 12-27-60, Cl. 29-454.
- Schindler, Gustave: See—
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- Schindler, Ludwig. Wireless signal receiver. 2,951,936, 9-6-60, Cl. 250-20.
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- Lütcke, Helmut O., and Schinke. 2,921,428.
- Schippers, Heinz: See—
- Gollos, Wolfgang, Kotte, and Schippers. 2,936,525.
- Schiraldi, Robert J.: See—
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- Schirmer, Robert M.: See—
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- Schirmer, Robert M., to Phillips Petroleum Co. Jet engine operation. 2,955,420, 10-11-60, Cl. 60-39.06.
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- Schjeldahl, Gilmore T., and Von Stoesser. 2,936,815.
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- Schlage, Ernest L., to Schlage Lock Co. Fusible link device for hold open door closers. 2,954,106, 9-27-60, Cl. 189-45.
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- Schlage, Ernest L., and A. H. Green, to Schlage Lock Co. Magnetic display mount. 2,947,507, 8-2-60, Cl. 248-206.
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- Schlapfer, Paul, and H. C. Silberman, to Schweizerische Eidgenossenschaft. Process for the saccharification of cellulose and cellulosic materials. 2,969,500, 11-8-60, Cl. 127-37.
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- Neidhardt, Hans U. 2,921,195.
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- Schlatterer, Max A. Match book safety clip. 2,965,221, 12-20-60, Cl. 206-29.
- Schlayer, Earle G., H. Gegner, L. W. Ballwig, and J. R. Sheridan, to American Cyanamid Co. Manufacture of suture packages. 2,948,999, 8-16-60, Cl. 53-29.



- Schlecht, Frederick H., to H. H. Brown Shoe Co., Inc. Safety shoe with instep guard. Re. 24,897, 11-22-60, Cl. 36-72.
- Schlee, Matthew, to General Electric Co. Tube socket. 2,959,762, 11-8-60, Cl. 339-193.
- Schleede, Dietrich: *See*—
- Schulde, Felix, Sommer, and Schleede. 2,927,047.
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- Schlegel, Fred, to Eaton Mfg. Co. Blade fabricating machine. 2,931,255, 4-5-60, Cl. 80-25.
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- Schleicher, Lowell: *See*—
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- Pesa, Henry S., and Schleicher. 2,932,582.
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- Petersen, Karl, and Schlichtkrull. 2,920,014.
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- Robra, Helmut. 2,944,320.
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- Martin, Gunther J. 2,965,891.
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- Schuster, Nick A. 2,933,674.
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- Swain, William H. 2,922,115.
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- Schluter, Harry C.: See—  
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- Schmahl, Earl H.: See—  
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- Schmahl, Irvin W. and E. H. Toy or novelty hat. 2,958,156, 11-1-60, Cl. 46-51.
- Schmahl, Josef: See—  
Roelig, Hermann, and Schmahl. 2,948,147.
- Schmalenbach, Adolf, and E. Sattler, to Koppers Co., Inc. Process and apparatus for vaporizing benzene or light oil. 2,925,450, 2-16-60, Cl. 260-674.
- Schmall, Wilbur A., to General Electric Co. Combination electric toaster and oven appliance. 2,920,551, 1-12-60, Cl. 99-329.
- Schmall, Wilbur A., A. E. De Mott, and P. M. Kropp, Jr., to General Electric Co. Electric toaster. 2,920,550, 1-12-60, Cl. 99-329.
- Schmatz, Duane J., J. C. Shyne, and V. F. Zackay, to Ford Motor Co. High strength steel. 2,934,463, 4-26-60, Cl. 148-31.
- Schmauch, Lorenz J., to Standard Oil Co. Thermal conductivity cell. 2,926,520, 3-1-60, Cl. 73-27.
- Schmaus, Siegfried A. H., to American Machine and Metals, Inc. Float operated air volume regulator. 2,926,685, 3-1-60, Cl. 137-202.
- Schmeck, Robert E.: See—  
Hanson, Walter J., and Schmeck. 2,923,544.
- Schmeckenbecher, Arnold F., to General Aniline & Film Corp. Production of magnetic iron particles. 2,938,781, 5-31-60, Cl. 75-5.
- Schmeiser, Ethel R.: See—  
Michelsen, Frederick E., and Laikam. 2,925,870.
- Schmeiser, T. G., Co.: See—  
Michelsen, Frederick E., and Laikam. 2,925,870.
- Schmeisser, Heinz: See—  
Putsch, Karl, and Schmeisser. 2,939,215.
- Schmeling, William H., to General Motors Corp. Refrigerator. 2,942,438, 6-25-60, Cl. 62-377.
- Schmerbeck, Carlos S.: See—  
Steinbacher, Friedrich, and Schmerbeck. 2,956,414.
- Schmerheim, John F.: See—  
Smith, Austin W., and Schmerheim. 2,960,949.
- Schmerlaib, Gert: See—  
Davies, Thomas D., Hampson, McDonnell, and Schmerlaib. 2,955,905.
- Schmerling, Louis: See—  
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- Schmerling, Louis, to Universal Oil Products Co. Polymerization of unsaturated organic compounds. 2,924,561, 2-9-60, Cl. 204-162.
- Schmerling, Louis, to Universal Oil Products Co. Preparation of polycyclic halogenated compounds. 2,926,199, 2-23-60, Cl. 260-648.
- Schmerling, Louis, to Universal Oil Products Co. Preparation of resins. 2,930,781, 3-29-60, Cl. 260-853.
- Schmerling, Louis, to Universal Oil Products Co. Preparation of resins. 2,930,782, 3-29-60, Cl. 260-882.
- Schmerling, Louis, to Universal Oil Products Co. Production of hard olefin polymers. 2,938,018, 5-24-60, Cl. 260-937.
- Schmerling, Louis, to Universal Oil Products Co. Tricyclic compounds containing substituted halogen. 2,943,113, 6-23-60, Cl. 260-648.
- Schmerling, Louis, to Universal Oil Products Co. Polymerization of olefins with complex catalyst comprising platinum or palladium. 2,945,845, 7-19-60, Cl. 260-937.
- Schmerling, Louis, to Universal Oil Products Co. Preparation of aromatic amines. 2,948,755, 8-9-60, Cl. 260-581.
- Schmerling, Louis, to Universal Oil Products Co. Condensation of polyhalocycloalkadienes with nonconjugated cycloalkadienes. 2,955,141, 10-4-60, Cl. 260-648.
- Schmerling, Louis, to Universal Oil Products Co. Preparation of bicycloalkadienes. 2,966,527, 12-27-60, Cl. 260-666.
- Schmertz, Charles B. Kitchen fixtures. 2,922,683, 1-26-60, Cl. 311-19.
- Schmertz, William E. Chill mat for ingot molds and method of making same. 2,922,206, 1-26-60, Cl. 22-139.
- Schmertz, William E. Radiant heater. 2,951,476, 9-6-60, Cl. 126-92.
- Schmerzler, Lawrence J. Portable open system refrigerator. 2,929,230, 3-22-60, Cl. 62-478.
- Schmetterling, Arie, and W. Dimmling, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing aromatic hydrocarbons. 2,941,016, 6-14-60, Cl. 260-673.5.
- Schmid, Bruneton & Morin: See—  
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- Schmid, Heinrich, vormals A. Schmid & Sohn: See—  
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- Schmid, Hermann, to General Precision, Inc. Computer function generator. 2,950,399, 8-23-60, Cl. 307-88.5.
- Schmid, Hermann, to General Precision, Inc. Pulse width modulators. 2,951,212, 8-30-60, Cl. 332-9.
- Schmid, Hermann, to General Precision, Inc. Electronic computer circuits. 2,966,307, 12-27-60, Cl. 235-196.
- Schmid, Leonard J.: See—  
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- Schmid, Leonhard. Measuring devices for fluids. 2,943,770, 7-5-60, Cl. 222-440.
- Schmid, Leopold, to Firma Dr. Ing. h.c.F. Porsche KG. Steering column for motor vehicles. 2,922,316, 1-26-60, Cl. 74-493.
- Schmid, Leopold, to Dr. Ing. h.c.F. Porsche K.-G. Synchronizing mechanism for change-speed gears. 2,932,373, 4-12-60, Cl. 152-53.
- Schmid, Lukas: See—  
Leimer, Albert, and Schmid. 2,924,449.
- Schmid, Mathias, to G. Siempekkamp and Co. Hydraulically operated presses. 2,946,303, 7-26-60, Cl. 113-45.
- Schmid, Max, and W. Mueller, to Ciba Ltd. Azo-dyestuffs. 2,936,306, 5-10-60, Cl. 260-176.
- Schmid, Otto, to Wafos Maschinenfabrik Wagner, Ficker & Schmid. Machine for manufacturing wire mesh. 2,942,630, 6-28-60, Cl. 140-6.
- Schmid, Otto. Apparatus for separating solid and liquid particles from gases and vapours. 2,962,115, 11-29-60, Cl. 183-7.
- Schmid, Otto, and M. Hurbin, to J. R. Geigy A.-G. Monoazo dyestuffs. 2,950,276, 8-23-60, Cl. 260-196.
- Schmid & Wezel: See—  
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- Schmid, Wolfgang, to "Automata." Electric control of machine tools using control impulses of different frequencies. 2,938,132, 5-24-60, Cl. 310-94.
- Schmidgall, Hartzell H. Apparatus for handling concrete pipe and the like. 2,958,435, 11-1-60, Cl. 214-652.
- Schmidl, Bruno. Process of recovering cryolite from waste gases. 2,934,405, 4-26-60, Cl. 23-88.
- Schmidle, Claude J., to Rohm & Haas Co. Isobornyl methacrylate modified rubber, latex containing same and article thereof. 2,939,852, 6-7-60, Cl. 260-25.
- Schmidli, Adalbert, to Sulzer Freres, Societe Anonyme. Pipe supporting structure for steam generators. 2,923,279, 2-2-60, Cl. 122-510.
- Schmidlin, Julius: See—  
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- Wettstein, Albert, Anner, Heusler, Ueberwasser, Wieland, Schmidlin, and Billeter. 2,957,868.
- Schmidlin, Justin F. Device for removing a conical element from its holder, especially for a machine tool. 2,932,998, 4-19-60, Cl. 81-3.
- Schmid-Nisoll, Theodor, G. Duerig, and A. Paul, to Ciba Ltd. Method of absorbing the spray of organic liquids in spraying chambers. 2,928,498, 3-15-60, Cl. 183-115.
- Schmidt, Adolph W., to The Rauland Corp. Electron discharge device. 2,955,218, 10-4-60, Cl. 313-65.
- Schmidt, Albert T.: See—  
Strock, Donald V., Moore, Schmidt, and Wadleck. 2,919,741.
- Schmidt, Alfred, and R. Marin, to Chemische Werke Huls Aktiengesellschaft. Process for the thermal decomposition of combustible organic liquids. 2,954,416, 9-27-60, Cl. 260-879.
- Schmidt, Alfred C. Internal retaining ring. 2,935,345, 5-3-60, Cl. 287-52.5.
- Schmidt, Alfred O., and J. R. Roubik, to Kearney & Trecker Corp. Inserted tooth cutter. 2,932,080, 4-12-60, Cl. 29-105.
- Schmidt, Alvin H.: See—  
Eshbaugh, Jesse E., Keil, and Schmidt. 2,946,215.
- Schmidt, Arno G. Stereoscopic headband loupe. 2,935,910, 5-10-60, Cl. 88-39.
- Schmidt, Artur, to North American Philips Co., Inc. Device for heating individual workpieces inductively. 2,959,660, 11-8-60, Cl. 219-10.69.
- Schmidt, Benjamin F. Fishing line reel. 2,941,747, 6-21-60, Cl. 242-84.21.
- Schmidt, Benjamin F. Double acting mercury piston oil well pump. 2,945,450, 7-19-60, Cl. 103-165.
- Schmidt, Carl: See—  
Müller, Kurt, and Schmidt. 2,920,762.
- Schmidt, Carl O., Jr., to The Cincinnati Butchers' Supply Co. Hide gripper jaw for hide puller. 2,954,973, 10-4-60, Cl. 269-189.
- Schmidt, Carl T., to Pineapple Research Institute of Hawaii. Soil fumigant comprising 1,2-dibromo-3-chloropropane. 2,937,936, 5-24-60, Cl. 71-2.
- Schmidt, David J. and H. M. Knockdown display shelves. 2,938,633, 5-31-60, Cl. 211-148.
- Schmidt, Edgar H.: See—  
Johnson, Orville H., and Schmidt. 2,953,057.
- Schmidt, Edward. Apparatus for washing and cleaning automobiles and other surfaces and the like. 2,948,907, 8-16-60, Cl. 15-97.
- Schmidt, Edward G.: See—  
Svabek, John E., Jr., Stone, and Schmidt. 2,949,613.
- Schmidt, Edward M., to Borg-Warner Corp. Polyphase static inverter. 2,953,735, 9-20-60, Cl. 321-5.
- Schmidt, Elwood R., and L. Swern, to Sperry Rand Corp. Electron beam tube. 2,966,610, 12-27-60, Cl. 315-3.5.
- Schmidt, Francis C., to Essex Wire Corp. Turn signal mechanism. 2,961,503, 11-22-60, Cl. 200-61.34.
- Schmidt, Frederick A.: See—  
Carlson, Oscar N., Schmidt, and Spedding. 2,950,962.



- Schmidt, Fritz A. F. Mechanically controlled multistage combustion chambers for gas-impulse-type engines and improved discharge control therefor. 2,937,498, 5-24-60, Cl. 60—39.39.
- Schmidt, Gerhard, to Firma Wasag Chemie Aktiengesellschaft. Clockwork-operated detonators. 2,924,721, 2-9-60, Cl. 290—1.
- Schmidt, Harold J. H., and V. G. Biedenstien, to R.C. Can Co. Flexible closure and plunger for cartridge-container. 2,941,699, 6-21-60, Cl. 222—327.
- Schmidt, Heinz, to Tayloris Organisation Stiegler, Hausser & Co. Account sheet and office machine to be used therewith. 2,936,870, 5-17-60, Cl. 197—127.
- Schmidt, Henry, Jr., to Industrial Filter & Pump Mfg. Co. Filtration apparatus. 2,943,738, 7-5-60, Cl. 210—185.
- Schmidt, Herbert M.: See—  
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- Schmidt, Herman A.: See—  
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- Schmidt, Jacob H. Electric switches and mountings therefor. 2,924,681, 2-9-60, Cl. 200—67.
- Schmidt, Jacob M., T. S. Morrison, and G. L. Graf, to Grand Central Rocket Co. Liquid dispenser. 2,925,937, 2-23-60, Cl. 222—80.
- Schmidt, Jacob M., T. S. Morrison, and G. L. Graf, to Grand Central Rocket Co. Liquid dispenser. 2,925,942, 2-23-60, Cl. 222—386.5.
- Schmidt, James W.: See—  
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- Schmidt, John: See—  
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- Schmidt, Julius. Electric kiln. 2,963,529, 12-6-60, Cl. 13—22.
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- Schmidt, Karl H., to Petroleum Service and Research Corp. Analysis determinative of gas or oil producing strata. 2,938,117, 5-24-60, Cl. 250—43.5.
- Schmidt, Kenneth H., to Mosler Research Products, Inc. Security alarm system with remotely operative test circuit. 2,943,304, 6-28-60, Cl. 340—214.
- Schmidt, Kenneth H., to Mosler Research Products, Inc. Electronic barrier. 2,956,269, 10-11-60, Cl. 340—258.
- Schmidt, Knute M.: See—  
Powers, Benjamin L., and Schmidt. 2,962,793.
- Schmidt, Lawrence D.: See—  
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- Schmidt, Lawrence D., to Allied Chemical Corp. Decanter control. 2,946,443, 7-26-60, Cl. 210—83.
- Schmidt, Lawrence W.: See—  
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- Schmidt, Lewis W. Sugar beet harvester for tractors. 2,935,137, 5-3-60, Cl. 171—53.
- Schmidt, Lothar, and E. Hahn, to VEB Carl Zeiss Jena. Secondary electron multipliers. 2,945,144, 7-12-60, Cl. 313—95.
- Schmidt, Lothar M., and H. L. Schwartz, to Librascope, Inc. Endless tape memory system. 2,924,669, 2-9-60, Cl. 179—100.2.
- Schmidt, Louis F., to Abrams Instrument Corp. Motor and governor supporting assembly. 2,944,169, 7-5-60, Cl. 310—83.
- Schmidt, Louis V.: See—  
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- Schmidt, Max, to Firma B. Raimann G.m.b.H. Polishing machines for wood plates and the like. 2,948,908, 8-16-60, Cl. 15—102.
- Schmidt, Otto. Device for cutting textile labels and folding over the ends thereof. 2,964,312, 12-13-60, Cl. 270—61.
- Schmidt, Paul: See—  
Druey, Jean, and Schmidt. 2,921,071.
- Druey, Jean, and Schmidt. 2,925,418.
- Druey, Jean, and Schmidt. 2,965,643.
- Schmidt, Paul. Power plant with one cylinder and airborne piston. 2,925,072, 2-16-60, Cl. 123—46.
- Schmidt, Paul. Vehicle drive by rotary vane-type engines with big torque. 2,951,469, 9-6-60, Cl. 121—56.
- Schmidt, Richard, to Franz Morat, K.-G. Thread controlling device for electrically operated knitting and hosiery machines. 2,930,861, 3-29-60, Cl. 200—61.18.
- Schmidt, Theodor, and J. Wünnig, to Firma Indugas. Apparatus for measuring the carbon level of furnace gases. 2,935,866, 5-10-60, Cl. 73—27.
- Schmidt, Wilhelm G., to Courtaulds Ltd. Process for making acrylonitrile polymer solution. 2,923,694, 2-2-60, Cl. 260—29.6.
- Schmidt, Wilhelm J.: See—  
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- Schmidt, William C.: See—  
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- Schmidt, William P.: See—  
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- Schmidt-Barbo, Dieter, F. Hampe, M. Schorr, and G. Lämmler, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brünig. New piperazine-carboxylic acid esters and process of preparing them. 2,945,860, 7-19-60, Cl. 260—268.
- Schmidt-Brucken, Heinrich, to International Standard Electric Corp. Oxide cathode for amplifier tubes. 2,939,990, 6-7-60, Cl. 313—346.
- Schmidt-Burbach, Adam, and W. Kundrat. Process of preparing milk products. 2,936,237, 5-10-60, Cl. 99—59.
- Schmidt-Ruppin, Heinz: See—  
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- Schmied, William F.: See—  
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- Schmieding, Earl G., and J. E. Wall, to Celanese Corp. of America. Distillation column. 2,954,330, 9-27-60, Cl. 202—158.
- Schmieding, Warren H. F.: See—  
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- Vogel, Arthur E. 2,960,349.
- Schmier, Jacob: See—  
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- Schmier, Jacob, to Rodale Mfg. Co., Inc. Electrical connector. 2,944,243, 7-5-60, Cl. 339—193.
- Schmier, Jacob, and H. P. Lewis, to Rodale Mfg. Co., Inc. Multiple circuit push button rotary switch. 2,933,579, 4-19-60, Cl. 200—156.
- Schmitt, Alice: See—  
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- Schmitt, Carl A. Telephone dialing apparatus. 2,966,557, 12-27-60, Cl. 179—90.
- Schmitt, Edward J., to Radio Corp. of America. Information handling device. 2,925,539, 2-16-60, Cl. 340—174.
- Schmitt, Friedrich: See—  
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- Schmitt, Hans, to Aluminium-Industrie-Aktien-Gesellschaft. Method and apparatus for refining aluminum. 2,953,506, 9-20-60, Cl. 204—67.
- Schmitt, Hans, and K. Toma, to Elektrokemisk A/S. Method of making self-baking continuous electrodes. 2,937,980, 5-24-60, Cl. 204—67.
- Schmitt, Heinrich, to O. H. Dräger. Lung-controlled respiration apparatus. 2,938,528, 5-31-60, Cl. 137—64.
- Schmitt, Henri F.: See—  
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- Schmitt, Howard J.: See—  
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- Schmitt, John A., to Standard Oil Co. Asphalt compositions. 2,928,753, 3-15-60, Cl. 106—269.
- Schmitt, Josef, to Etablissements Clin-Byla (Societe anonyme). 3-alkazoyl 1-tertiary-amino-alkyl indol oximes and production thereof. 2,930,798, 3-29-60, Cl. 260—319.
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- Schmitt, Lieselotte: See—  
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- Schmitt, Nicholas. Hand saw construction. 2,947,085, 8-2-60, Cl. 33—75.
- Schmitt, Richard, deceased; L. Schmitt, sole heir. Keyboard tone bar percussion instrument. 2,965,451, 12-20-60, Cl. 84—403.
- Schmitt, Roland G. Apparatus for popping popcorn. 2,939,379, 6-7-60, Cl. 99—238.4.
- Schmitt, Roland W., and M. D. Fliske, to General Electric Co. Superconducting circuits. 2,935,694, 5-3-60, Cl. 330—62.
- Schmitter, Walter P., to The Falk Corp. Cooling tower fan drive. 2,946,233, 7-26-60, Cl. 74—421.
- Schmitter, Walter P., and R. Wilken, to The Falk Corp. Portable reduction gear unit. 2,926,542, 3-1-60, Cl. 74—421.
- Schmitz, Andreas, and W. Graulich, to Farbenfabriken Bayer Aktiengesellschaft. Dyeing of fabrics by means of pigments. 2,956,907, 10-18-60, Cl. 117—161.
- Schmitz, Friedrich. Diaphragm slide valve. 2,964,289, 12-13-60, Cl. 251—175.
- Schmitz, Harry W.: See—  
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- Schmitz, Heinrich: See—  
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- Schmitz, John V., to General Electric Co. Linear polyesters of mercaptodicarboxylic acids, polymers prepared therefrom, and method of making same. 2,924,585, 2-9-60, Cl. 260—45.4.
- Schmitz, John V., to General Electric Co. Mercaptans as catalysts for polymerization of ethoxylene resins. 2,933,473, 4-19-60, Cl. 260—47.
- Schmitz, John V., and E. J. Lawton, to General Electric Co. Polymerization with high energy electrons. 2,921,006, 1-12-60, Cl. 204—154.
- Schmitz, Joseph F., to Whirlpool Corp. Latch mechanism. 2,931,205, 4-5-60, Cl. 70—92.
- Schmitz, Michael F., Jr. Shunt for carbon brush. 2,935,632, 5-3-60, Cl. 310—249.
- Schmitz, Peter M., to O. Dorries, A.G. Apparatus for reeling a web of material. 2,935,272, 5-3-60, Cl. 242—65.
- Schmitz-Hillebrecht, Ernst, and H. Wolf, to Farbenfabriken Bayer Aktiengesellschaft. Process for producing shaped bodies. 2,933,401, 4-19-60, Cl. 106—15.
- Schmohl, Leland H., and W. E. Currie, to Parker-Hannifin Corp. Hose coupling and socket therefor. 2,965,395, 12-20-60, Cl. 285—40.
- Schmolka, Irving R., to Colgate-Palmolive Co. Process for preparing detergent bars. 2,945,816, 7-19-60, Cl. 252—161.



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- Schnabel, Ernst, to Resistoflex Corp.  
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- Schnabel, Fred C. Article holder. 2,964,173, 12-13-60, Cl. 206-57.
- Schnabel, Julius W., to Thompson Ramo Wooldridge, Inc.  
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- Schnabel, Wilhelm J., to Olin Mathieson Chemical Corp.  
Secondary and tertiary aminophenyl silanes. 2,960,517, 11-15-60, Cl. 260-448.2.
- Schnable, George L., to Philco Corp.  
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- Schnaitter, Edgar J., and B. D. Mull, to Erie Mining Co.  
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- Schnaitter, Edgar J., and L. R. MacLeod, to Erie Mining Co.  
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- Schnebly, Fred H.: *See*—  
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- Schneckenberger, Adolf.  
Detachable fastening device. 2,944,311, 7-12-60, Cl. 24-104.
- Schneckenburger, Emil, and C. Kung, to Aktiengesellschaft der von Moos-schen Eisenwerke.  
Method for the continuous casting of metal strip, and strip casting plant for carrying out the method. 2,947,075, 8-2-60, Cl. 29-417.
- Schnee, Wilbur R.: *See*—  
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- Schneeberger, Robert J., to Westinghouse Electric Corp.  
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- Schneerer, William F.: *See*—  
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- Schneider, Abe, and H. Paltchell, to Lightolor, Inc.  
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- Schneider, Abraham, and J. L. Jezl, to Sun Oil Co.  
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- Schneider, Abraham, and J. L. Jezl, to Sun Oil Co.  
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- Schneider, Adolf, R. Draeger, H.-O. Fuchner, and W. Baenker, to Byk-Gulden Lomberg, Chemische Fabrik G.m.b.H.  
Method and apparatus for heat sealing and severing by means of a stencil and hot gas stream. 2,957,513, 10-25-60, Cl. 154-42.
- Schneider, Alfred: *See*—  
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- Schneider, Arthur C.  
Driven stone gatherer. 2,925,869, 2-23-60, Cl. 171-63.
- Schneider, Caspar C.  
Aqueous composition of melamine-formaldehyde resin, polystyrene and colloidal silica, and cellulosic body impregnated therewith. 2,953,534, 9-20-60, Cl. 260-17.3.
- Schneider, Charles E.: *See*—  
Neumann, Karl L., and Schneider. 2,948,808.
- Schneider, Edgar C., to United Aircraft Corp.  
Bearing mounting and lubrication. 2,944,857, 7-12-60, Cl. 308-187.
- Schneider, Edwin G., to United States of America, War.  
Conical scan direction finder. 2,953,783, 9-20-60, Cl. 343-118.
- Schneider, Emmor V., to The Alliance Mfg. Co., Division of Consolidated Electronics Corp.  
Adjustable idler mechanism for phonograph drives units. 2,941,809, 6-21-60, Cl. 274-9.
- Schneider, Emmor V., to Consolidated Electronics Industries Corp.  
Plural speed phonograph mechanism. 2,945,388, 7-19-60, Cl. 74-199.
- Schneider, Emmor V., to The Alliance Mfg. Co., Division of Consolidated Electronics Industries Corp.  
Remote control radio system. 2,946,054, 7-19-60, Cl. 343-225.
- Schneider, Emmor V., to The Alliance Mfg. Co., Division of Consolidated Electronics Industries Corp.  
Phonograph mechanism. 2,956,440, 10-18-60, Cl. 74-199.
- Schneider, Emmor V., and R. D. Houk, to Alliance Mfg. Co., Division of The Consolidated Electronics Industries Corp.  
Torque switch. 2,954,224, 9-27-60, Cl. 263-59.
- Schneider, Ernest W., to Washburn and Granger Inc.  
Incinerators. 2,937,603, 5-24-60, Cl. 110-18.
- Schneider, Eugen: *See*—  
Baumann, Manfred, and Schneider. 2,957,506.
- Schneider, Felix: *See*—  
Trumper, Konrad, and Schneider. 2,933,070.
- Schneider, Frank A.  
Leash retaining means. 2,919,676, 1-5-60, Cl. 119-109.
- Schneider, Fred B.: *See*—  
Avery, Ralph W., and Schneider. 2,945,457.
- Schneider, Fred M.  
Transplanting pot. 2,960,799, 11-22-60, Cl. 47-37.
- Schneider, Friedrich A.: *See*—  
Beusker, Gerardus H., and Schneider. 2,925,456.
- Schneider, Fritz, to Blaupunkt-Werke.  
Transformer coil. 2,926,319, 2-23-60, Cl. 336-206.
- Schneider, George W., Jr., to Milton Roy Co.  
Colorimetric analyzer. 2,950,396, 8-23-60, Cl. 250-219.
- Schneider, Gerhard O. K., to General Dynamics Corp.  
Queue store circuit. 2,923,777, 2-2-60, Cl. 179-27.
- Schneider, Gerhard O. K., to General Dynamics Corp.  
Priority demand circuits. 2,935,627, 5-3-60, Cl. 307-88.5.
- Schneider, Gilbert D., P. J. Gepfert, E. L. Mackey, and J. C. Siegrist, to Schneider Machine Co.  
Slicing machine. 2,919,731, 1-5-60, Cl. 144-162.
- Schneider, Gordon B.: *See*—  
Berggren, Lloyd E., Schneider, and Sorensen. 2,943,448.
- Schneider, Günther, and A. Boettcher, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler.  
Tungsten/rhenium thermocouples. 2,948,766, 8-9-60, Cl. 136-5.
- Schneider, Hans, to Sulzer Frères, Société Anonyme.  
Casting mold and method of casting carbon-containing alloys. 2,948,034, 8-9-60, Cl. 22-216.5.
- Schneider, Harold N.: *See*—  
Barkan, Philip, and Schneider. 2,927,182.
- Schneider, Harold N., to General Electric Co.  
Fluid blast circuit interrupter. 2,927,181, 3-1-60, Cl. 200-150.
- Schneider, Harold N., to General Electric Co.  
Contact structure for an electric circuit interrupter. 2,949,520, 8-16-60, Cl. 200-144.
- Schneider, Harold N., and W. J. Pearce, to General Electric Co.  
Arc plasma generator. 2,964,679, 12-13-60, Cl. 315-111.
- Schneider, Henry J.: *See*—  
Murdoch, Guy C., and Schneider. 2,949,474.
- Schneider, Herbert A., to Bell Telephone Laboratories, Inc.  
Frequency divider circuit. 2,935,685, 5-3-60, Cl. 328-39.
- Schneider, Herbert A., to Bell Telephone Laboratories, Inc.  
Pulse selector circuits. 2,941,091, 6-14-60, Cl. 307-88.5.
- Schneider, Herbert A., to Western Electric Co., Inc.  
Hand tool for clamping cable seams. 2,960,953, 11-22-60, Cl. 113-102.
- Schneider, Herbert A., to Bell Telephone Laboratories, Inc.  
High speed binary counter. 2,962,212, 11-29-60, Cl. 235-92.
- Schneider, Herman F., C. M. Howard, and C. F. Furst, to United States of America, Air Force.  
Mechanical overpressure relief valve. 2,933,096, 4-19-60, Cl. 137-70.
- Schneider, Ira: *See*—  
Wenig, Max. 2,958,149.
- Schneider, Johann: *See*—  
Pleuger, Friedrich W., and Schneider. 2,944,490.
- Schneider, John.  
Outdoor lighting fixture for fluorescent lamps. 2,923,429, 2-2-60, Cl. 220-34.
- Schneider, John D., to The Firm of John Dickinson Schneider.  
Identification means. 2,954,620, 10-4-60, Cl. 40-21.
- Schneider, John Dickinson, Inc., The Firm of: *See*—  
Schneider, John D. 2,954,620.
- Schneider, John H., to Mine Safety Appliances Co.  
Combined separator and baffle. 2,928,496, 3-15-60, Cl. 183-51.
- Schneider, Jos., & Co.: *See*—  
Schackert, Heinz. 2,966,106.
- Schneider, Jos., & Co., Optische Werke: *See*—  
Bäab, Albert. 2,949,836.
- Bäab, Albert. 2,949,837.
- Schutz, Karl H. 2,965,012.
- Schütz, Karl H. 2,966,105.
- Tesch, Karl. 2,944,477.
- Schneider, Karl: *See*—  
Elöd, Egon, and Schneider. 2,962,450.
- Schneider, Karl, to Harnischfeger Corp.  
Hoist cable equalizer assembly. 2,947,430, 8-2-60, Cl. 214-135.
- Schneider, Lawrence E.  
Tow for motor boats. 2,943,591, 7-5-60, Cl. 114-235.
- Schneider Machine Co.: *See*—  
Schneider, Gilbert D., Gepfert, Mackey, and Siegrist. 2,919,731.
- Schneider, Mark P., and F. W. Klayer.  
Spool arrangement. 2,947,493, 8-2-60, Cl. 242-96.
- Schneider, Paul, G. Scriba, and W. Graulich, to Farbenfabriken Bayer Aktiengesellschaft.  
Composition comprising a mixture of an elastomeric copolymer of butadiene and a thermoplastic copolymer of styrene and acrylonitrile and process for producing same. 2,925,399, 2-16-60, Cl. 260-45.5.
- Schneider, Paul L.: *See*—  
Bolles, Julius H., Rice, and Schneider. 2,965,765.



- Schneider, Paul L., and A. W. Alexander, to General Motors Corp. Starting systems. 2,939,964, 6-7-60, Cl. 290-38.
- Schneider, Raymond C.: *See—*
- Dundore, Marvin W., and Schneider. 2,961,830.
- Schneider, Richard. Fluid pressure responsive pipe coupling having identical halves. 2,950,130, 8-23-60, Cl. 285-67.
- Schneider, Walter E., and S. Kufel, to Congoleum-Nairn, Inc. Stacking machine. 2,921,508, 1-19-60, Cl. 93-93.
- Schneider, William P.: *See—*
- Lincoln, Frank H., Nathan, and Schneider. 2,960,502.
- Lincoln, Frank H., and Schneider. 2,960,501.
- Lincoln, Frank H., Schneider, and Spero. 2,928,852.
- Lincoln, Frank H., Jr., Schneider, Spero, and Thompson. 2,963,497.
- Schneider, William S., 10% to C. P. Ward, 9% to A. P. Corella, 3% to J. S. Ward; 2% each to W. E. Ward and C. A. Miketta, 1% each to J. S. Ward, Jr., C. Ore, G. J. Waldiesen, M. Sessions, S. P. MacLaren, O. D. Carlson, W. R. Miller, R. H. Small, J. McCarty, and C. E. Jones. Dispensing container. 2,942,760, 6-28-60, Cl. 222-107.
- Schneider, William S., small interests to various assignees. Self closing dispensing container. 2,952,394, 9-13-60, Cl. 229-17.
- Schneiderman, Abraham: *See—*
- Horowitz, Harry, and Schneiderman. 2,921,573.
- Horowitz, Harry, and Schneiderman. 2,962,017.
- Schneidersmann, Ernst O.: *See—*
- Sarla, Ralph M., and Schneidersmann. 2,957,816.
- Schneiter, Henry J.: *See—*
- Stewart, Basil O., and Schneiter. 2,933,147.
- Schnell, Carl,  $\frac{1}{2}$  to The Griffith Laboratories, Inc. Comminuting machine. Re. 24,764, 1-12-60, Cl. 146-192.
- Schnell, Carl,  $\frac{1}{2}$  to The Griffith Laboratories, Inc. Comminuting machine. 2,934,120, 4-26-60, Cl. 146-192.
- Schnell, Carl,  $\frac{1}{2}$  to The Griffith Laboratories, Inc. Comminuting machine. 2,934,121, 4-26-60, Cl. 146-192.
- Schnell, Carl, to The Griffith Laboratories, Inc. Comminuting machine. 2,952,288, 9-13-60, Cl. 146-192.
- Schnell, Ernst E.: *See—*
- Hyland, William A., and Schnell. 2,953,999.
- Schnell, Ernst E., to Deere & Co. Automatic slide control for grain drills. 2,930,336, 3-29-60, Cl. 111-67.
- Schnell, Ernst E., to Deere & Co. Implement support. 2,930,629, 3-29-60, Cl. 280-150.5.
- Schnell, Fred J.: *See—*
- Hodges, Hato R., and Schnell. 2,961,657.
- Schnell, Heinrich, and F. Masuch. Radio receiving set and housing therefor. 2,938,113, 5-24-60, Cl. 250-14.
- Schnell, Hermann: *See—*
- Nentwig, Joachim, and Schnell. 2,948,806.
- Windemuth, Erwin, Schnell, and Bayer. 2,948,691.
- Schnell, Hermann, and G. Fritz, to Farbenfabriken Bayer Aktiengesellschaft. Process for producing polycarbonates. 2,946,766, 7-26-60, Cl. 260-47.
- Schnell, Robert J.: *See—*
- Katzman, Fred L., and Schnell. 2,928,985.
- Schnell, Steve, to Wagner Electric Corp. Actuating cylinder. 2,924,073, 2-9-60, Cl. 60-54.6.
- Schnell, Steve, to Wagner Electric Corp. Annular piston assembly for a disc brake. 2,964,136, 12-13-60, Cl. 188-71.
- Schnelle, Klaus. Filing office frames. 2,953,254, 9-20-60, Cl. 211-46.
- Schneller, Joseph W., to National Gypsum Co. Wall furring bracket. 2,924,090, 2-9-60, Cl. 72-118.
- Schneller, Joseph W., to National Gypsum Co. Lathing clips. 2,945,329, 7-19-60, Cl. 50-479.
- Schneller, Joseph W., to National Gypsum Co. Lathing corner clips. 2,959,896, 11-15-60, Cl. 50-183.
- Schneller, Pierre: *See—*
- Drisch, Nicolas, and Schneller. 2,954,270.
- Schnellpressenfabrik Aktiengesellschaft Heidelberg: *See—*
- Büttner, Artur. 2,922,646.
- Büttner, Artur. 2,922,647.
- Büttner, Artur. 2,924,172.
- Büttner, Artur. 2,938,275.
- Büttner, Artur. 2,963,292.
- Büttner, Artur M. 2,963,966.
- Schnepel, Herbert H.: *See—*
- Peterson, Victor W., Schnepel, and Bancel. 2,949,771.
- Schnering, Charles J., to Sylvania Electric Products Inc. Top lead locator. 2,923,098, 2-2-60, Cl. 49-2.
- Schnittker, George. Dust filter having spaced filter elements and frame for holding same. 2,952,342, 9-13-60, Cl. 189-36.
- Schnitzel, Randolph H., and G. H. Keith, to Westinghouse Electric Corp. Manufacture of molybdenum and alloys thereof. 2,921,875, 1-19-60, Cl. 148-11.5.
- Schnitzer, Anton M.: *See—*
- Goodhue, Lyle D., Cantrel, and Schnitzer. 2,943,976.
- Schnitzer, Emanuel. Band pass shock absorber. 2,928,670, 3-15-60, Cl. 267-64.
- Schnitzer, Emanuel. Low pass shock strut. 2,929,471, 3-22-60, Cl. 188-96.
- Schnitzer, Emanuel. Floating piston band pass shock absorber. 2,933,310, 4-19-60, Cl. 267-64.
- Schnitzer, Emanuel. Band pass shock strut. 2,934,175, 4-26-60, Cl. 188-96.
- Schnitzer, Emanuel. Double acting low band pass shock absorber. 2,937,724, 5-24-60, Cl. 188-88.
- Schnitzer, Emanuel. Band pass shock absorbers with snubbers. 2,947,386, 8-2-60, Cl. 188-88.
- Schnitzler, Franz X. Multi-part sled. 2,927,799, 3-8-60, Cl. 280-18.
- Schnitzler, Meyer J.: *See—*
- Granahan, Leon E., Schnitzler, and Tuckerman. 2,937,976.
- Schnoller, Desiderio. Rapid process for tanning hides. 2,955,904, 10-11-60, Cl. 8-94.21.
- Schnyder, Hans, to Gesellschaft der Ludw. von Roll'schen Eisenwerke AG. Method of and mechanism for the actuation of a quick-action shut-off device for pressure-pipe lines. 2,948,290, 8-9-60, Cl. 137-10.
- Schober, Franz, to Bayerisches Leichtmetallwerk GRAF Blucher Von Wahlstatt K.G. Method of pressing bevel gear wheels and the like from steel. 2,964,838, 12-20-60, Cl. 29-159.2.
- Schober, Marvin V., to North American Aviation, Inc. Stagnation air temperature measuring device. 2,928,279, 3-15-60, Cl. 73-349.
- Schoch, Alfred, to Volk-Nu-Matic Corp. Twin-rotary brush for cleaning pipes. 2,962,739, 12-6-60, Cl. 15-23.
- Schoch, Ernst, A.-G.: *See—*
- Wyss, Eugen. 2,945,514.
- Schock, Walter E.: *See—*
- Price, Earl R., Schock, and Prather. 2,960,100.
- Schöde, Paul. Measuring device for approximate determination of rolling stock wheel pressures. 2,933,303, 4-19-60, Cl. 265-49.
- Schöde, Paul. Bar-shaped car retarder of the direct-control type. 2,943,709, 7-5-60, Cl. 188-62.
- Schodeberg, Carl T. Power driven impact tool. 2,940,565, 6-14-60, Cl. 192-30.5.
- Schodorf, Otto L., Sr., to Schodorf Truck Body & Equipment Co. Plate glass rack standard with adjustable clamping bracket. 2,919,811, 1-5-60, Cl. 211-41.
- Schodorf Truck Body & Equipment Co.: *See—*
- Schodorf, Otto L., Sr. 2,919,811.
- Schoebel, Konrad W., and W. T. Selsted, to Ampex Corp. Magnetic tape apparatus. 2,948,488, 8-9-60, Cl. 242-75.43.
- Schoeffel, Eugene W.: *See—*
- Barton, Daniel M., Schoeffel, and Zimmermann. 2,944,396.
- Huesler, Hans, Schoeffel, and Zimmermann. 2,932,613.
- Schoeld, Edmund A., J. D. Nabors, and J. S. Reiter, to Potash Co. of America. Method for flotation concentration in coarse size range. 2,931,502, 4-5-60, Cl. 209-164.
- Schoeld, Edmund A., and J. M. Fritschy, to Potash Co. of America. Silicone reagent flotation. 2,934,208, 4-26-60, Cl. 209-166.
- Schoeld, Edmund A., J. M. Fritschy, and J. D. Nabors, to Potash Co. of America. Flotation reagent. 2,937,751, 5-24-60, Cl. 209-166.
- Schoeld, Edmund A., and J. M. Fritschy, to Potash Co. of America. Treatment of potash ores. 2,952,358, 9-13-60, Cl. 209-166.
- Schoeller & Co., Elektrotechnische Fabrik: *See—*
- Rott, Horst-Gunther, Gruber, Beha, and Ankert. 2,936,930.
- Schoelz, Willy A. E. Automatic resistance welding system for welding stainless steel honeycomb structure. 2,927,991, 3-8-60, Cl. 219-87.
- Schoemer, Patrick J.: *See—*
- Cook, Donald J., and Schoemer. 2,947,381.
- Schoen, Louis J.: *See—*
- Klein, Ralph, Nadeau, Schoen, and Bliss. 2,946,664.
- Schoen, Moritz. Ladies' hangbags. 2,949,951, 8-23-60, Cl. 150-23.
- Schoenberger, Philip J. Match package holder. 2,925,906, 2-23-60, Cl. 206-38.
- Schoenberger, Robert L., Jr., to R. R. Donnelley & Sons Co. Machine for forming hinge joints in cased books. 2,939,161, 6-7-60, Cl. 11-1.
- Schoenberger, W. J., Co., The: *See—*
- Stuckenholz, Casper S. 2,936,151.
- Schoeneberg, Werner A., and P. A. Studer, to Celanese Corp. of America. Coloring of textiles. 2,961,288, 11-22-60, Cl. 8-24.
- Schoeneman, Leonard. Disposable hair net. 2,959,177, 11-8-60, Cl. 132-49.
- Schoenenberger, Richard J., to Universal Oil Products Co. Polyvinyl compounds as lubricants in pilling operations. 2,930,762, 3-29-60, Cl. 252-430.
- Schoener, Allen G., to Mine Safety Appliances Co. Sun visor for protective hat. 2,934,767, 5-3-60, Cl. 2-10.
- Schoener, Allen G., to Mine Safety Appliances Co. Protective helmet with removable suspension. 2,941,209, 6-21-60, Cl. 2-3.
- Schoenewaldt, Erwin F.: *See—*
- Chemerd, John M., and Schoenewaldt. 2,923,708.
- Schoenfeldt, Frederick C., to Kiekhaefer Corp. Outboard motor measuring device. 2,920,393, 1-12-60, Cl. 33-138.
- Schoenfelder, Herbert, and H. Ginsberg, to Vereinigte Aluminium-Werke, Aktiengesellschaft. Method for reducing the silica content of alumina-containing materials of the clay type. 2,939,764, 6-7-60, Cl. 23-143.
- Schoenfelder, Herbert, and H. Ginsberg, to Vereinigte Aluminium-Werke, Aktiengesellschaft. Method for reducing the silica content of alumina containing materials of the bauxite type. 2,939,765, 6-7-60, Cl. 23-143.
- Schoenfeldt, William M. Pickling unit for internal combustion engines. 2,943,618, 7-5-60, Cl. 123-198.



- Schoenfeld, Donald B.: *See*—  
Schoenfeld, Milton H. and D. B. 2,960,711.  
Schoenfeld, Milton H. and D. B. Mop. 2,960,711, 11-22-60, Cl. 15-133.  
Schoenmakers, Petrus M. R. Wipers for lasting machines for the manufacture of shoes. 2,955,302, 10-11-60, Cl. 12-12.  
Schoenmakers, Pieter J.: *See*—  
Verwey, Cornelis, and Schoenmakers. 2,921,818.  
Schoenmakers, Pieter J., to Shell Oil Co. Method and apparatus for contacting gaseous fluids with solids. 2,935,466, 5-3-60, Cl. 208-176.  
Schoennauer, Arthur H.: *See*—  
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Schoenrock, Kenneth H., to Hamilton Watch Co. Stem actuated seconds setting stop-start mechanism. 2,942,410, 6-28-60, Cl. 58-79.  
Schoenster, Peter J., to Alfred Hofmann & Co. Tensioning means for flat knitting machines. 2,924,957, 2-16-60, Cl. 66-86.  
Schoenster, Peter J., and M. E. Ebert, to Alfred Hofmann & Co. Stop motion for knitting machines. 2,941,388, 6-21-60, Cl. 66-163.  
Schoepe, Adolf, and O. K. Doyle. Hose mounting clip. 2,966,320, 12-27-60, Cl. 248-75.  
Schoepe, Harry, to The Warner & Swasey Co. Contour follower apparatus. 2,922,327, 1-26-60, Cl. 82-14.  
Schoepe, Harry, to The Warner & Swasey Co. Feed mechanism having a manual override. 2,934,974, 5-3-60, Cl. 74-625.  
Schoepe, Harry, to The Warner-Swasey Co. Machine tool having hydraulic feed mechanism. 2,965,273, 12-20-60, Cl. 226-150.  
Schoepe, Harry, and R. C. Ebersold, to The Warner & Swasey Co. Machine tool. 2,945,394, 7-19-60, Cl. 74-472.  
Schoepf, John G.: *See*—  
Asten, Dietrich V., and Schoepf. 2,947,328.  
Schoephoerster, Leroy J.: *See*—  
Anderson, Aldine J., and Schoephoerster. 2,948,005.  
Schoepfel, John F., S. L. Varner, and F. W. Herr, to Lear, Inc. Variable current device. 2,932,809, 4-12-60, Cl. 338-222.  
Schoeps, Karl, and W. Küsters, to Schalltechnik Dr.-Ing. K. Schoeps. Electroacoustic transducer. 2,958,739, 11-1-60, Cl. 179-114.  
Schofield Mfg. Co.: *See*—  
Werner, John. 2,953,287.  
Schofield, William W., W. H. Owen, and J. Bidner. Ingot mold. 2,957,213, 10-25-60, Cl. 22-139.  
Schohan, George, to United States of America, Navy. Transient-controlled magnetic amplifier. 2,946,946, 7-26-60, Cl. 323-89.  
Scholaert, Albert C. Automatic device for adjusting the tension of the fabric in finishing machines. 2,923,046, 2-2-60, Cl. 26-29.  
Scholdstrom, Karl O. R., to Svenska Aktiebolaget Casacaculator. Optical distance measuring device. 2,966,090, 12-27-60, Cl. 88-1.  
Scholes, Addison B., to Interlectric Corp. Filament coating composition. 2,963,450, 12-6-60, Cl. 252-521.  
Schofield, Richard P. Card supporting device. 2,966,156, 12-27-60, Cl. 129-16.  
Scholin, Axel R. Metering apparatus with automatic cut-off. 2,952,209, 9-13-60, Cl. 103-6.  
Scholl, Bernhard: *See*—  
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Scholl Mfg. Co., Inc. The: *See*—  
Crawford, Claud F. 2,964,772.  
Helmert, Gert. 2,938,284.  
Scholl, Mario, W. Obermaier, and F. Scharfenberger, to Obermaier & Cie. Material carrier for wet treatment of textiles. 2,944,318, 7-12-60, Cl. 28-58.  
Scholl, William M. Foot corrective cushion. 2,941,527, 6-21-60, Cl. 128-80.  
Scholl, William M. Cushioning surgical pad. 2,953,130, 9-20-60, Cl. 128-153.  
Scholl, William M. Foot supporting device. 2,961,781, 11-29-60, Cl. 36-71.  
Scholl, William M. Arch supporting insole. 2,965,984, 12-27-60, Cl. 36-71.  
Scholl, William T., Sr. Leg rest structure. 2,963,079, 12-6-60, Cl. 155-169.  
Schollenberger, Charles S.: *See*—  
Benson, Charles J. Potter, Rose, and Schollenberger. 2,940,793.  
Brown, Harold P., Jansen, and Schollenberger. 2,937,164.  
Dinbergs, Kornelius, and Schollenberger. 2,958,704.  
Scholten, Jacob W., to North American Philips Co., Inc. Circuit arrangement responsive to dialling signals and the like. 2,920,144, 1-5-60, Cl. 179-84.  
Scholten, Richard A., and C. A. Maynard, to Indiana General Corp. Magnetic pad assembly. 2,958,019, 10-25-60, Cl. 317-159.  
Scholten's, W. A., Chemische Fabrieken, N.V.: *See*—  
Lolkema, Jan, and Moes. 2,952,634.  
Scholtes, Donald R.: *See*—  
Large, William E., and Scholtes. 2,937,338.  
Scholz, Charles F.: *See*—  
Wigert, John W., and Scholz. 2,930,011.  
Scholz, Erwin, to R. Wolf. Endoscope for the observation of ventricles of the body or the like. 2,927,574, 3-8-60, Cl. 128-6.  
Scholz, Michael P., to Paragon Products Corp. Temperature regulated valve assembly. 2,950,866, 8-30-60, Cl. 236-87.  
Scholz, Michael P., to Paragon Products Corp. Dash-pot device. 2,966,351, 12-27-60, Cl. 267-1.  
Schon, Charles E.: *See*—  
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Schön, Pavel: *See*—  
Zajac, Josef, Schön, and Cernoch. 2,924,464.  
Schönenberger, Paul, to Pneumafil Corp. Pneumatic textile card cleaners. 2,964,804, 12-20-60, Cl. 19-107.  
Schonfeld, Fred W., and J. T. Waber, to United States of America, Atomic Energy Commission. Plutonium-zirconium alloys. 2,950,967, 8-30-60, Cl. 75-122.7.  
Schönherr, Fritz, to Patent-Treuhand-Gesellschaft für Elektrische Glühlampen m.b.H. Fluorescent glow discharge lamp. 2,945,977, 7-19-60, Cl. 313-217.  
Schonrock, Edwin A., to Fruehauf Trailer Co. Auxiliary cam lifting assembly for cable dump trailers. 2,930,653, 3-29-60, Cl. 298-20.  
Schonrock, Edwin A. Garbage disposal apparatus having bulk material compactor. 2,934,198, 4-26-60, Cl. 198-128.  
Schönthaler, Rubi: *See*—  
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Schooley, Maurice A.: *See*—  
Davenport, Mark E., Jr., Bunding, and Schooley. 2,926,120.  
Schoonover, Paul L., to Monolith Portland Cement Co. Rotary kiln construction. 2,923,538, 2-2-60, Cl. 263-33.  
Schoos, Maurice A., to Renney Mfg. Co. Drapery support. 2,963,085, 12-6-60, Cl. 160-348.  
Schoppe & Faeser, G.m.b.H.: *See*—  
Dinger, Alfons W. 2,956,345.  
Knappe, Otto. 2,949,037.  
Krussmann, Adolf. 2,928,060.  
Schoppe, Fritz, to Metallbau Semler G.m.b.H. Fluid mixing chamber. 2,935,840, 5-10-60, Cl. 60-35.6.  
Schoppee, Lawrence W.: *See*—  
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Schor, Milton, to A. H. Wirz, Inc. Strippable label. 2,940,196, 6-14-60, Cl. 40-2.  
Schorel, Hendrik J., to Koninklijke Nederlandsche Hoogovens en Staalfabrieken N.V. Trolley for cranes such as tong cranes. 2,957,432, 10-25-60, Cl. 105-163.  
Schorr, Carl F., L. W. Keil, J. A. McGrail, and P. M. Rogers, to Holley Carburetor Co. Compressor bleed control. 2,965,285, 12-20-60, Cl. 230-114.  
Schorr, Manfred: *See*—  
Reinertshofer, Josef, Schorr, and Junk. 2,927,121.  
Schmidt-Barbo, Dieter, Hampe, and Schorr. 2,945,860.  
Schossberger, Frederick V., D. K. Werle, and M. Michalchik, to UARCO Inc. Resin particle coated with metal. 2,939,804, 6-7-60, Cl. 117-71.  
Schossow, George W. Method and apparatus for producing therapeutic vapors. 2,920,178, 1-5-60, Cl. 219-38.  
Schotland, Richard M., to Electro Dispersion Corp. Electrostatic coating apparatus. 2,955,565, 10-11-60, Cl. 118-7.  
Schott, Arthur K., to G. F. Wales. Apparatus for notching sheet material having reversible multiple cutting edge ledger blades. 2,964,984, 12-20-60, Cl. 83-694.  
Schott, Charles S. Engine starting device. 2,924,209, 2-9-60, Cl. 123-179.  
Schott, Lewis M.: *See*—  
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Schott, Stuart, and V. L. Hansley, to National Distillers and Chemical Corp. Process for reduction of chemical compounds. 2,956,862, 10-18-60, Cl. 23-209.  
Schott, Stuart, V. L. Hansley, and H. Greenberg, to National Distillers and Chemical Corp. Purification of zirconium halides. 2,962,352, 11-29-60, Cl. 23-87.  
Schott, William C., to The Cincinnati Galvanizing Co. Leg construction for a trash burner. 2,949,209, 8-16-60, Cl. 220-69.  
Schotthoefer, Joseph G. Helical groove cutting machine. 2,965,009, 12-20-60, Cl. 90-28.1.  
Schou, Carl E., to Rockwell-Standard Corp. Variable speed drive. 2,932,216, 4-12-60, Cl. 74-689.  
Schou, Carl E., to Rockwell-Standard Corp. Vehicle drive trains. 2,933,952, 4-26-60, Cl. 74-689.  
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Schowalter, Kenneth A.: *See*—  
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De Walt, Curtis W., Jr., and Schowalter. 2,956,065.  
Schrack, Eduard. Automatic shunting switch for an induction-type starting current limiting device for alternating current motors. 2,942,168, 6-21-60, Cl. 318-229.  
Schrader, Charles I.: *See*—  
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- Schrader, Gerhard: *See*—  
 Dörken, August, and Schrader. 2,927,123.  
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 Dörken, August, and Schrader. 2,960,525.  
 Lorenz, Walter, and Schrader. 2,952,700.  
 Lorenz, Walter, Schrader, and Dörken. 2,938,919.  
 Muhlmann, Rudolf, Lorenz, and Schrader. 2,963,505.  
 Schegg, Ernst, and Schrader. 2,961,458.  
 Tuppach, Hans-Joachim, and Schrader. 2,962,517.
- Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Dithiophosphoric acid esters and their preparation. 2,923,730, 2-2-60, Cl. 260—461.
- Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Derivatives of phosphoric acid and process for the production thereof. 2,927,122, 3-1-60, Cl. 260—461.
- Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphoric acid esters and their production. 2,923,863, 3-15-60, Cl. 260—461.
- Schrader, Gerhard. Thiophosphoric acid esters and their production. 2,929,834, 3-22-60, Cl. 260—461.
- Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphoric acid esters and their production. 2,931,824, 4-5-60, Cl. 260—461.
- Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Phosphonic acid esters. 2,962,520, 11-29-60, Cl. 260—461.
- Schrader, Gerhard, and W. Lorenz, to Farbenfabriken Bayer Aktiengesellschaft. Thionophosphoric acid esters and process for their manufacture. 2,929,832, 3-22-60, Cl. 260—461.
- Schrader, Herbert E., to Link-Belt Co. Conveyor. 2,930,477, 3-29-60, Cl. 198—168.
- Schrader, Loren E., and L. C. Campbell, to Ironrite, Inc. Ironing machine. 2,956,356, 10-18-60, Cl. 38—59.
- Schrader, Paul G.: *See*—  
 Partansky, Alexander M., and Schrader. 2,934,522.
- Schraegle, Fritz. Pattern-selecting device for looms. 2,920,657, 1-12-60, Cl. 139—30.
- Schraegle, Fritz. Automatic handweaving loom device. 2,930,410, 3-29-60, Cl. 139—30.
- Schraegle, Fritz. Automatic handweaving loom device. 2,944,569, 7-12-60, Cl. 139—33.
- Schrage, Albert: *See*—  
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- Schram, Cornelius J., to Lever Brothers Co. Process for preparing solid fat compositions. 2,931,730, 4-5-60, Cl. 99—118.
- Schram, Eugene P.: *See*—  
 Elliott, William E., Reinhard, and Schram. 2,953,439.
- Schramm, Arnaldo J. M. Amplifier circuit for electrical signals. 2,942,202, 6-21-60, Cl. 330—117.
- Schramm, Carl, to The Smyth Mfg. Co. Case making machine. 2,925,612, 2-23-60, Cl. 11—2.
- Schramm, Charles H., to Lever Brothers Co. Preparation of  $\beta$ -aminopropionamides. 2,921,085, 1-12-60, Cl. 260—458.
- Schramm, Charles H., to Lever Brothers Co. Detergent composition containing N-tris (methylol) methyl amides. 2,927,081, 3-1-60, Cl. 252—137.
- Schramm, Charles K., to Esso Research and Engineering Co. Polypropylene-butyl rubber blends. 2,939,860, 6-7-60, Cl. 260—45.5.
- Schramm, Harry B., deceased, by J. Schramm, executrix, to Otis Engineering Corp. Means for installing subsurface tools. 2,942,671, 6-28-60, Cl. 166—218.
- Schramm, Harry B., to Otis Engineering Corp. Methods and apparatuses for treating wells. 2,960,165, 11-15-60, Cl. 166—4.
- Schramm, Henry W., and W. H. Tollefsrud, to Midland-Ross Corp. Work transfer apparatus. 2,940,619, 6-14-60, Cl. 214—18.
- Schramm, Henry W., and C. Cipriani, to Midland-Ross Corp. Burner apparatus. 2,952,307, 9-13-60, Cl. 158—7.
- Schramm, Josephine: *See*—  
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- Schrank, George I.: *See*—  
 Bowman, Robert W., Riull, Arduino, and Schrank. 2,926,731.
- Schranz, Hubert L. Apparatus for classifying minerals and other substances by flotation. 2,922,521, 1-26-60, Cl. 209—163.
- Schrauder, Andrew. Masonry guide. 2,952,915, 9-20-60, Cl. 33—85.
- Schraufstatter, Ernst, E. Gottsacker, and H. Wolz, to Farbenfabriken Bayer Aktiengesellschaft. Disinfectant compositions. 2,945,782, 7-19-60, Cl. 167—30.
- Schray, Walter H., to United Steel & Wire Co. Collapsible child's seat for a nesting shopping cart. 2,964,326, 12-13-60, Cl. 280—33.99.
- Schreiber, Albert: *See*—  
 Hülfiker, Hans, and Schreiber. 2,953,724.
- Schreiber, August. Process for improving the combined mechanical and biological clarification of town sewage. 2,963,430, 12-6-60, Cl. 210—4.
- Schreiber, Charles A., and R. C. Reynor, to Dorr-Oliver Inc. Classifier rake blade and blade assembly. 2,960,231, 11-15-60, Cl. 209—48.1.
- Schreiber, George I. Film transport assembly for cameras. 2,931,283, 4-5-60, Cl. 95—31.
- Schreiber, William F., to Sylvania Electric Products Inc. Crystal gating circuit. 2,923,819, 2-2-60, Cl. 250—27.
- Schreiber, William F., to Technicolor Corp. Electronic counter. 2,924,816, 2-9-60, Cl. 340—347.
- Schreiber, William F., to Technicolor Corp. Bandwidth reduction system. 2,941,040, 6-14-60, Cl. 179—15.55.
- Schreiber, William F., to Technicolor Corp. High-speed staircase wave shape generator. 2,958,328, 11-1-60, Cl. 328—186.
- Schreiber, William F., and G. T. Inouye, to Technicolor Corp. Bandwidth reduction system. 2,963,551, 12-6-60, Cl. 179—15.55.
- Schreiner, Kenneth E.: *See*—  
 Amdahl, Lowell D., Havens, Jeanel, Schreiner, Cedarholm, and Eichenberger. 2,951,232.  
 Havens, Byron L., Schreiner, Amdahl, Cedarholm, Jeanel, Meadows, and Mitchell. 2,957,626.
- Schreiner, Kenneth E., L. B. Amdahl, and B. L. Havens, to International Business Machines Corp. Check digit monitoring and correcting circuits. 2,954,164, 9-27-60, Cl. 235—153.
- Schreiner, Warren C.: *See*—  
 Palazzo, Dominic F., and Schreiner. 2,940,270.  
 Palazzo, Dominic F., and Schreiner. 2,956,410.
- Schremp, Frederick W., and W. J. Vickery, to Sperry Rand Corp. Margin control for typewriters. 2,930,466, 3-29-60, Cl. 197—63.
- Schrenk, Hans A., to N.V. Onderzoekingsinstitute Research. Apparatus for promoting non-channeling flow of liquid through treatment and/or reaction zones. 2,919,934, 8-23-60, Cl. 138—38.
- Schrenk, Hans A., P. Van Dijk, and J. W. I. Heijnis, to American Enka Corp. Apparatus for curling thermoplastic threads. 2,949,723, 8-23-60, Cl. 57—34.
- Schreurs, Willy, to Ateliers de Constructions Electriques de Charleroi. Dibasic alkaline earth metal phosphate and luminescent powders containing such phosphate. 2,946,656, 7-26-60, Cl. 23—109.
- Schrewelius, Nils G., to Aktiebolaget Kanthal. Electrically conductive element for use at elevated temperatures. 2,944,239, 7-5-60, Cl. 338—322.
- Schrewelius, Nils G., to AB Kanthal. Thermo-electric alloys. 2,955,145, 10-4-60, Cl. 136—5.
- Schrewelius, Nils G., to Aktiebolaget Kanthal. Electric resistance elements. 2,966,430, 12-27-60, Cl. 117—212.
- Schreyer, Charles G. Device for holding an automobile against movement. 2,966,244, 12-27-60, Cl. 192—3.
- Schreyer, Kenneth D., to Columbus McKinnon Chain Corp. Garment storage rails. 2,960,940, 11-22-60, Cl. 104—110.
- Schreyer, Kenneth D., and A. E. Eldridge, to Columbus McKinnon Chain Corp. Conveyor trolley trackway. 2,945,452, 7-19-60, Cl. 104—108.
- Schreyer, Ralph C., to E. I. du Pont de Nemours and Co. Polymerization catalysts. 2,962,451, 11-29-60, Cl. 252—429.
- Schrieber, Charles F., F. D. Patrick, and J. E. Tipton, to The Dow Chemical Co. High energy fuel. 2,960,394, 11-15-60, Cl. 52—5.
- Schrier, Harold D. Coating composition. 2,950,210, 8-23-60, Cl. 106—230.
- Schriesheim, Alan, to Esso Research and Engineering Co. Liquid catalyst paraffin alkylation process. 2,943,126, 6-28-60, Cl. 260—683.53.
- Schriesheim, Alan, to Esso Research and Engineering Co. Isomerization of paraffin hydrocarbons. 2,956,096, 10-11-60, Cl. 260—683.75.
- Schriesheim, Alan, G. R. Gilbert, and J. E. McCormick, to Esso Research and Engineering Co. Molybdenum promoted alkylation of paraffins. 2,966,535, 12-27-60, Cl. 260—683.53.
- Schriner, John E., C. R. Masters, and B. T. Czacherski, to The Eagle-Picher Co. Flocking mechanism and method. 2,948,633, 8-9-60, Cl. 117—20.
- Schrivver, William R. Overhead carriage stop device mounted upon a beam along which the carriage travels. 2,952,222, 9-13-60, Cl. 104—93.
- Schrock, Norman B.: *See*—  
 Dunwoodie, Duane E., and Schrock. 2,942,207.
- Schrock, Norman B., to Hewlett-Packard Co. Direct-coupled wide-band amplifier including vacuum tubes and transistors. 2,963,655, 12-6-60, Cl. 330—3.
- Schroder, Otto, to Barmer Maschinenfabrik A.G. Ring-twist machine mechanism capable of forming a transfer tail. 2,949,724, 8-23-60, Cl. 57—34.
- Schroder, Theodor: *See*—  
 Sachsenroder, Gustav, Sr., and Schroder. 2,949,630.
- Schroder-Stranz, Friedrich. Method and apparatus for producing insulating walls. 2,941,900, 6-21-60, Cl. 117—72.
- Schrodt, John P.: *See*—  
 Craig, David N., and Schrodt. 2,950,999.
- Schrodt, John P., and D. N. Craig, to United States of America, Commerce. Deferred activation battery. 2,936,327, 5-10-60, Cl. 136—90.
- Schroeder, Alfred C.: *See*—  
 Gibson, Walter G., and Schroeder. 2,920,130.  
 Gibson, Walter G., and Schroeder. 2,921,128.  
 Gibson, Walter G., and Schroeder. 2,929,870.  
 Gibson, Walter G., and Schroeder. 2,957,042.  
 Pritchard, Dalton H., and Schroeder. 2,921,120.  
 Pritchard, Dalton H., Schroeder, and Gibson. 2,925,462.
- Schroeder, Alfred C., to Radio Corp. of America. Color television. 2,946,846, 7-26-60, Cl. 178—5.4.
- Schroeder, Alfred C., and D. H. Pritchard, to Radio Corp. of America. Sound cancellation in television receivers. 2,944,106, 7-5-60, Cl. 178—5.4.



- Schroeder Brothers Corp.: See—  
Schroeder, John S., Mitchell, and Stark. 2,924,971.
- Schroeder, Carl A.: See—  
Calendine, Roy A., and Schroeder. 2,938,940.
- Schroeder, Carl W., to Shell Development Co. Epoxy ether esters. 2,925,426, 2-16-60, Cl. 260-348.
- Schroeder, Charles. Stretching tool. 2,961,215, 11-22-60, Cl. 254-79.
- Schroeder, Charles S., to The Yale and Towne Mfg. Co. Up-right pull-down. 2,955,676, 10-11-60, Cl. 187-9.
- Schroeder, Elmer F., to G. D. Searle & Co. 5-carboxymethylmercapto-6-aminouracils. 2,958,692, 11-1-60, Cl. 260-256.5.
- Schroeder, Ernst, and M. Reiser, to Chemische Werke Albert. Therapeutic compositions containing 1-hexyl 3,7-dimethyl-xanthine and nicotines. 2,953,493, 9-20-60, Cl. 167-55.
- Schroeder, George F., to Sperry Rand Corp., Ford Instrument Co. Division. Wire-supported gyro wheel. 2,919,585, 1-5-60, Cl. 74-5.7.
- Schroeder, George F., to Sperry Rand Corp., Ford Instrument Co. Division. Electrolytic mass shift compensator for gyros. 2,943,494, 7-5-60, Cl. 74-5.4.
- Schroeder, George F., to Sperry Rand Corp., Ford Instrument Co. Division. Variable escapement mechanism. 2,951,397, 9-6-60, Cl. 74-675.
- Schroeder, Hansjuergen A., to Olin Mathieson Chemical Corp. Polyfluoroalkyl borates. 2,951,871, 9-6-60, Cl. 260-606.5.
- Schroeder, Hansjuergen A., and C. J. Grundmann, to Olin Mathieson Chemical Corp. 2,4-bis-haloalkyl-6-alkoxy-1,3,5-triazines and their preparation. 2,951,079, 8-30-60, Cl. 260-248.
- Schroeder, Harald, and A. Amann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. N-(alpha-hydroxy-beta-trihaloalkenyl)-pyrrolidones and a process for the production of N-(alpha-hydroxy-beta-trihaloalkenyl)-pyrrolidones. 2,924,606, 2-9-60, Cl. 260-326.5.
- Schroeder, Harald, H. Pohlmann, H. Stummeyer, and H. Adolph, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of esters of phosphoric acid and thiono-phosphoric acid. 2,937,194, 5-17-60, Cl. 260-461.
- Schroeder, Harry J. and R. J., to Allis-Chalmers Mfg. Co. Multiple control mechanism. 2,951,393, 9-6-60, Cl. 74-473.
- Schroeder, Harry W.: See—  
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- Schroeder, John S., D. G. Mitchell, and D. A. Stark, to Schroeder Brothers Corp. Hydraulic circuit tester. 2,924,971, 2-16-60, Cl. 73-168.
- Schroeder, Juel P., to Union Carbide Corp. Method for polymerizing styrene and acrylonitrile in the presence of polybutadiene and styrene-acrylonitrile copolymer latices and product obtained thereby. 2,948,703, 8-9-60, Cl. 260-45.5.
- Schroeder, Manfred R., to Bell Telephone Laboratories, Inc. Generation of interpolation waves. 2,953,645, 9-20-60, Cl. 179-15.55.
- Schroeder, Peter H.: See—  
Cobb, George R., and Schroeder. 2,952,749.
- Schroeder, Robert C., to David D. Wood. Freight bracing structure. 2,963,992, 12-13-60, Cl. 105-369.
- Schroeder, Robert J.: See—  
Schroeder, Harry J. and R. J. 2,951,393.
- Schroeder, Robert J., to Allis-Chalmers Mfg. Co. Vacuum control for fuel injection engines. 2,949,732, 8-23-60, Cl. 60-14.
- Schroeder, Vernon W., and C. F. Martino, to Union Carbide Corp. Composition comprising styrene-acrylonitrile copolymer, plasticizer and wax and method of preparing same. 2,962,463, 11-29-60, Cl. 260-28.5.
- Schroeder, Walter, to The Cincinnati Milling Machine Co. Spindle control mechanism. 2,933,986, 4-28-60, Cl. 90-16.
- Schroter, Friedrich. Method of and means for feeding work pieces in the form of sheets. 2,939,701, 6-7-60, Cl. 271-45.
- Schröter, Kurt: See—  
Walterscheid-Müller, Bernhard, and Schröter. 2,930,212.
- Schröter, Kurt, and B. Walterscheid-Müller. Protective arrangement. 2,952,142, 9-13-60, Cl. 64-4.
- Schröter, Kurt, and B. Walterscheid-Müller. Overload clutch. 2,960,852, 11-22-60, Cl. 64-29.
- Schrotz, Kurt, to SKF Kugellagerfabriken G.m.b.H. Releasable locking device for drawing mechanism of spinning machines. 2,920,356, 1-12-60, Cl. 19-135.
- Schrotz, Kurt, to SKF Kugellagerfabriken G.m.b.H. Lock mechanism for top rolls carrying arm of a drafting assembly of a spinning machine. 2,958,103, 11-1-60, Cl. 19-135.
- Schub, Leonard: See—  
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- Schubert, Bernhard, to Hauni-Werke Korber & Co. K.G. Device for aligning filter rod portions in filter tip cigarette making machines. 2,944,654, 7-12-60, Cl. 198-32.
- Schubert, Dale L.: See—  
Brookhyser, Byron B., Erickson, and Schubert. 2,919,820.
- Erickson, Harold E. 2,945,521.
- Erickson, Harold E. 2,962,064.
- Erickson, Harold E., N. E. and C. V. Nelson, and Schubert. 2,930,474.
- Erickson, Harold E., Riley, and Schubert. 2,923,968.
- Erickson, Harold E., Riley, and Schubert. 2,923,974.
- Erickson, Harold E., Riley, and Schubert. 2,943,365.
- Erickson, Harold E., and Robinson. 2,951,519.
- Schubert, Dale L., and H. E. Erickson, said Erickson assor. to Industrial Development Co. Mat forming method and apparatus. 2,919,742, 1-5-60, Cl. 154-1.
- Schubert, Ernest J., to Westinghouse Electric Corp. Arithmetic unit for floating radix notation. 2,949,231, 8-16-60, Cl. 235-177.
- Schubert, Jack, to United States of America, Atomic Energy Commission. Separation of plutonium from fission products by a colloid removal process. 2,937,924, 5-24-60, Cl. 23-14.5.
- Schubert, Paul: See—  
Koren, Heribert, Hoelkeskamp, Schubert, and Linder. 2,962,765.
- Schubert, Paul R.: See—  
Hebert, John W., Schubert, and Coles. 2,962,987.
- Schubert, Rudolf: See—  
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- Schuean, Hans L., to Ciba Ltd. Cupriferous disazo-dyestuffs. 2,929,673, 3-22-60, Cl. 8-26.
- Schuch, Kurt, to VEB Carl Zeiss Jena. Measuring apparatus having optical and photoelectric means. 2,945,132, 7-12-60, Cl. 250-220.
- Schuchard, Earl A.: See—  
Woodward, Bernard, Jr., Willis, Small, and Schuchard. 2,965,028.
- Schuchard, Earl A. Apparatus and method for detecting and recording total magnetic field gradients. 2,961,604, 11-22-60, Cl. 324-43.
- Schuck, Oscar H., to Minneapolis-Honeywell Regulator Co. Angle of attack indicating device. 2,948,149, 8-9-60, Cl. 73-180.
- Schucker, James L., and C. I. Vellner, to General Motors Corp. Air flow deflector device. 2,940,376, 6-14-60, Cl. 98-40.
- Schueder, George M., R. O. Sturdy, F. J. Acton, and F. A. Glomb, to Evans Products Co. Freight loading apparatus. 2,929,339, 3-22-60, Cl. 105-368.
- Schueder, George M., R. O. Sturdy, F. J. Acton, and F. A. Glomb, to Evans Products Co. Railroad car. 2,963,991, 12-13-60, Cl. 105-368.
- Schueler, Arthur W., E. J. Funk, and L. W. Mecklenborg, to Precision Welder & Flexopress Corp. Magnetic force resistance welders and method of controlling the phase relation of the magnetic force applied to the electrodes with reference to the phase relation of the welding current. 2,948,804, 8-9-60, Cl. 219-86.
- Schueler, Frederick W., to Dictaphone Corp. Dictation transcribing machine. 2,961,243, 11-22-60, Cl. 274-21.
- Schueler, Hassan E. Ultrasonic cleaning apparatus basket assembly. 2,958,332, 11-1-60, Cl. 134-169.
- Schueler, Otto. Compressor having sinusoidal impellers. 2,939,628, 6-7-60, Cl. 230-141.
- Schuenzel, Ernest C.: See—  
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- Schuerch, Hans U., to United States of America, Army. Flut-ter simulator. 2,950,619, 8-30-60, Cl. 73-67.2.
- Schuerch, Hans U., and G. S. Thomson, to United States of America, Army. Attachment apparatus. 2,942,814, 6-28-60, Cl. 244-131.
- Schuerger, Thomas R., and F. Slamar, to United States Steel Corp. Mechanism and method for regulating feed of material. 2,965,265, 12-20-60, Cl. 222-1.
- Schuessler, Albert G., and C. B. Swain, to Swift & Co., and Mud Control Laboratories, Inc. Surfactant treatment of oil and gas wells. 2,927,639, 3-8-60, Cl. 166-42.
- Schuessler, Karl: See—  
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- Schuessler, Levyn R. Check. 2,926,933, 3-1-60, Cl. 282-27.
- Schuessler, Levyn R. Bookkeeping units. 2,931,667, 4-5-60, Cl. 283-66.
- Schuessler, Levyn R. Bookkeeping units. 2,955,849, 10-11-60, Cl. 283-66.
- Schuessler, Levyn R. Mailing unit. 2,964,232, 12-13-60, Cl. 229-73.
- Schuessler, Wilhelm, to Dravo Corp. Vibratory bulk material conveyor mechanism. 2,936,064, 5-10-60, Cl. 198-220.
- Schuetz, James W., to Blaw-Knox Co. Furnace threading method and apparatus. 2,958,518, 11-1-60, Cl. 263-3.
- Schüffler, Julius, and W. Van Ackeren. Method of firing ceramic tubes suspended in a shaft oven. 2,948,949, 8-16-60, Cl. 25-157.
- Schuftan, Paul M., and J. Neill, to The British Oxygen Co. Ltd. Separation of air. 2,964,914, 12-20-60, Cl. 62-14.
- Schug, Helmut, to Maschinenfabrik Augsburg-Nürnberg A.G. Radial flow compressor. 2,965,287, 12-20-60, Cl. 230-134.
- Schuh, Charles H., to The Government of The Union of Burma. Production of bamboo pulp and paper. 2,929,756, 3-22-60, Cl. 162-26.
- Schuh, Niles F., Jr., to Westinghouse Electric Corp. Time delay control device. 2,942,123, 6-21-60, Cl. 307-88.5.
- Schuhlein, Charles M., to Sperry Rand Corp. Sweep voltage generator circuit. 2,961,536, 11-22-60, Cl. 250-27.
- Schuhmaschinen-Gesellschaft Hanke & Co. m.b.H.: See—  
Gertz, Gerhard. 2,937,339.
- Schulde, Felix W., Sommer, and D. Schleede, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brünig. Process of applying a coating of an atactic polymer of polypropylene to a polyethylene or polypropylene surface. 2,927,047, 3-1-60, Cl. 117-138.2.



- Schuldt, Donald A.: *See*—  
Anderson, Arthur A., Schuldt, 2,945,336.
- Schulenberg, Franz, and K. Weiss, to Gea-Luftkubler-Gesellschaft m.b.H. Method and apparatus for condensing exhaust steam from steam power plants. 2,951,687, 9-6-60, Cl. 257-308.
- Schulenberg, Raymond J., to Motorola, Inc. Supply polarity control for radio receiver. 2,964,620, 12-13-60, Cl. 250-14.
- Schulenburg, Edward J. Induction disc motor. 2,922,057, 1-19-60, Cl. 310-172.
- Schuler, George. Fly swatter. 2,931,126, 4-5-60, Cl. 43-137.
- Schuler, Wilhelm A., and H. Klebe, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Substituted thiophenyl pyridyl amines. 2,934,533, 4-26-60, Cl. 260-243.
- Schuler, Wilhelm A., and A. Gross, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Basic unsaturated carboxylic acid amides and their preparation. 2,953,562, 9-20-60, Cl. 260-247.2.
- Schulkes, Johannes A., E. W. Gorter, and H. G. Beljers, to North American Phillips Co., Inc. Ferromagnetic material. 2,927,897, 3-8-60, Cl. 252-62.5.
- Schuller, Walter H.: *See*—  
Padbury, John J., Thomas, and Schuller. 2,963,396.  
Price, John A., and Schuller. 2,923,700.
- Schuller, Walter H., to American Cyanamid Co. Cyanoethylated polymers. 2,941,990, 6-21-60, Cl. 260-93.5.
- Schuller, Walter H., to American Cyanamid Co. Aqueous solution containing acrylonitrile polymer and a bisulfate. 2,946,761, 7-26-60, Cl. 260-29.6.
- Schuller, Walter H., and W. M. Thomas, to American Cyanamid Co. Composition comprising a linear copolymer of a quaternary ammonium compound and an ethylenically unsaturated copolymerizable compound. 2,923,701, 2-2-60, Cl. 260-85.5.
- Schuller, Walter H., and W. M. Thomas, to American Cyanamid Co. Composition comprising a reaction product of formaldehyde and a copolymer of acrylamide and an unsaturated betaine. 2,935,493, 5-3-60, Cl. 260-72.
- Schuller, Walter H., and D. C. Guth, to American Cyanamid Co. Method of preparing a polymeric betaine. 2,958,682, 11-1-60, Cl. 260-80.3.
- Schuller, Werner. Apparatus for the production of a thin sheet or mat from glass fibres. 2,931,421, 4-5-60, Cl. 154-27.
- Schulman, James H.: *See*—  
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- Schulman, James H., and R. D. Kirk, to United States of America, Navy. Radiophotoluminescent salts and dosimeters employing same. 2,937,999, 5-24-60, Cl. 252-301.2.
- Schulmerich Electronics, Inc.: *See*—  
Kunz, Jacob T. 2,938,420.
- Schulte, Elwood V.: *See*—  
Helm, Edward J., and Schulte. 2,946,655.  
Helm, Edward J., and Schulte. 2,961,065.
- Schulte, Elwood V., and H. T. Stirling, to Koppers Co., Inc. Coke oven gas naphthalene absorbing final cooler. 2,956,639, 10-18-60, Cl. 183-2.
- Schulte, Harold F., to Wheelabrator Corp. Blast treatment apparatus. 2,924,912, 2-16-60, Cl. 51-14.
- Schulte, John W., and J. F. Suttle, to United States of America, Atomic Energy Commission. Method and means for radiation dosimetry. 2,957,080, 10-18-60, Cl. 250-83.
- Schultz, Arthur E. and A. H. Lantern holder. 2,940,715, 6-14-60, Cl. 248-226.
- Schultz, Arthur H.: *See*—  
Schultz, Arthur E. and A. H. 2,940,715.
- Schultz, Blaine H., and H. C. Stone, to McGraw-Edison Co. Means for protecting shunt capacitor bank. 2,942,153, 6-21-60, Cl. 317-12.
- Schultz, Charles A., to Lok-Seal, Inc. Champagne bottle closure. 2,940,627, 6-14-60, Cl. 215-47.
- Schultz, Charles A., to Lok-Seal, Inc. Bottle closure. 2,940,628, 6-14-60, Cl. 215-48.
- Schultz, Clarence H., to Gould-National Batteries, Inc. Battery cell spacer. 2,939,901, 6-7-60, Cl. 136-173.
- Schultz, Clarence W., and G. F. Boesen, to The Seeburg Corp. Selectors for automatic phonographs. 2,923,553, 2-2-60, Cl. 274-10.
- Schultz, Curtis J., to Motorola, Inc. Receiving system. 2,966,585, 12-27-60, Cl. 250-20.
- Schultz, David, to Package Homes Mfg., Inc. Wall construction. 2,947,040, 8-2-60, Cl. 20-4.
- Schultz, Edward H. Hydraulic service jack. 2,926,888, 3-1-60, Cl. 254-2.
- Schultz, Edward H. Utility pocket level. 2,939,947, 6-7-60, Cl. 240-6.44.
- Schultz, Edward W., to United States Steel Corp. Strapping-actuated gripper for tensioner. 2,934,318, 4-26-60, Cl. 254-51.
- Schultz, Elmer A.: *See*—  
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Colyer, Edwin C., and Schultz. 2,919,779.  
Colyer, Edwin C., and Schultz. 2,951,571.
- Schultz, Eugene L. Heart action multi-line pump constructions. 2,922,379, 1-26-60, Cl. 103-148.
- Schultz, Forrest O. E., to Midland-Ross Corp. Power brake system. 2,922,678, 1-26-60, Cl. 303-29.
- Schultz, Forrest O. E., to Midland-Ross Corp. Fluid suspension system for vehicles. 2,948,549, 8-9-60, Cl. 280-124.
- Schultz, Forrest O. E., to Midland-Ross Corp. Slack adjuster. 2,948,558, 8-9-60, Cl. 287-53.
- Schultz, Frank A., to Western Electric Co., Inc. Die for molding blocks onto a plurality of laterally disposed wires. 2,924,850, 2-16-60, Cl. 18-36.
- Schultz, Fred J., to McGraw-Edison Co. Lightning arresters. 2,928,016, 3-8-60, Cl. 313-174.
- Schultz, Fred J., to McGraw-Edison Co. Spark gap constructions. 2,928,017, 3-8-60, Cl. 313-231.
- Schultz, Fred J., to McGraw-Edison Co. Load interrupting device. 2,951,924, 9-6-60, Cl. 200-120.
- Schultz, Frederick E., to General Electric Co. Propellant injection head for jet propulsion system. 2,929,208, 3-22-60, Cl. 60-39.74.
- Schultz, George. Steam box for shoe manufacturing. 2,929,082, 3-22-60, Cl. 12-1.
- Schultz, Harold B., to Bendix Aviation Corp. Reaction limit control valve. 2,919,681, 1-5-60, Cl. 121-46.5.
- Schultz, Harold B., to Bendix Aviation Corp. Hydraulic brake booster. 2,925,805, 2-23-60, Cl. 121-41.
- Schultz, Harry E., to General Electric Co. Starting circuit for arc lamp. 2,951,971, 9-6-60, Cl. 315-174.
- Schultz, Henry J., to B. Walker. Venetian blind. 2,939,528, 6-7-60, Cl. 160-168.
- Schultz, Henry J., to B. Walker. Open center four way valve. 2,940,476, 6-14-60, Cl. 137-624.
- Schultz, Herman S., to General Aniline & Film Corp. Process of stabilizing 2-p-dioxanone. 2,962,505, 11-29-60, Cl. 260-340.6.
- Schultz, John B., to Radio Corp. of America. Automatic gain control with variable resistance device in antenna circuit. 2,923,816, 2-2-60, Cl. 250-20.
- Schultz, John B., to Radio Corp. of America. Push-pull amplifier circuits. 2,959,640, 11-8-60, Cl. 179-1.
- Schultz, John C., to Houdaille Industries Inc. Rudder flutter damper. 2,922,496, 1-26-60, Cl. 188-93.
- Schultz, Joseph F., to The Patent and Licensing Corp. Fibrated mastic coatings. 2,927,038, 3-1-60, Cl. 117-30.
- Schultz, Junius W.: *See*—  
Dowdell, James D., Schultz, and Faber. 2,939,364.
- Schultz, Kurt-Gunnar. Liftmobile truck. 2,921,704, 1-19-60, Cl. 214-674.
- Schultz, Leonard R. Silage distributor. 2,940,573, 6-14-60, Cl. 193-3.
- Schultz, Matthew J., to Steelman Products Corp. Bead-protecting tire mounting plate. 2,926,726, 3-1-60, Cl. 157-1.
- Schultz, Melvin L.: *See*—  
Hahn, Edwin E., and Schultz. 2,964,619.
- Schultz, Melvin L., to Radio Corp. of America. Semiconductive radiation-sensitive device. 2,953,529, 9-20-60, Cl. 252-62.3.
- Schultz, Melvin L., to Radio Corp. of America. Photovoltaic apparatus. 2,953,621, 9-20-60, Cl. 136-89.
- Schultz, Melvin P., P. L. Luxem, and G. E. Mussey, to U.S. Industries, Inc. Refrigerated milk storage tank. 2,945,356, 7-19-60, Cl. 62-157.
- Schultz, Mortimer A., and G. W. Nagel, to Westinghouse Electric Corp. Regulating system. 2,963,590, 12-6-60, Cl. 307-41.
- Schultz, Paul I. Pneumatic bumper jack. 2,937,002, 5-17-60, Cl. 254-93.
- Schultz, Raymond J.: *See*—  
Marquis, Donald P., and Schultz. 2,922,680.  
Marquis, Donald P., and Schultz. 2,945,364.
- Schultz, Richard F.: *See*—  
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- Schultz, Robert D.: *See*—  
Moe, George, Schultz, Shepherd, and Cromwell. 2,944,951.
- Schultz, Robert M.: *See*—  
Feldmann, Alfred G., and Schultz. 2,965,143.
- Schultz, Robert T., to Spectrol Electronics Corp. Transistor inverter. 2,931,991, 4-5-60, Cl. 331-113.
- Schultz, Robert W.: *See*—  
Rees, Willis M., and Schultz. 2,962,385.
- Schultz, Roy M., to D. A. Freeman. Collar molding machine. 2,942,763, 6-23-60, Cl. 223-52.1.
- Schultz, Roy M., to D. A. Freeman. Collar molding means. 2,948,441, 8-9-60, Cl. 223-52.1.
- Schultz, Theodore. Can strip remover. 2,950,023, 8-23-60, Cl. 220-52.
- Schultz, Thomas H., to United States of America, Agriculture. Solid flavoring composition and method of producing the same. 2,919,989, 1-5-60, Cl. 99-140.
- Schultz, Thomas H., and W. F. Talburt, to United States of America, Agriculture. Solid flavoring compositions containing sucrose esters and process of making the same. 2,929,722, 3-22-60, Cl. 99-140.
- Schultz, Thomas H., and W. F. Talburt, to United States of America, Agriculture. Compositions containing flavoring agent and lecithin in a sugar base and process of making the same. 2,929,723, 3-22-60, Cl. 99-140.
- Schultz, Warner W., to General Electric Co. Mass spectrometer. 2,944,146, 7-5-60, Cl. 250-41.9.
- Schultz, William H.: *See*—  
Link, Harold S., and Schultz. 2,964,419.
- Schultze, Harold E., and L. L. Evert, to General Motors Corp. Grease device. 2,957,456, 10-25-60, Cl. 121-123.
- Schultze, Kurt H., to Herbert Lindner G.m.b.H. Truing device for profile grinding wheels. 2,922,413, 1-26-60, Cl. 125-11.



- Schultze, Kurt H., and O. Jaeckel, to Herbert Lindner G.m.b.H. Automatic feeding device for thread grinding machines or the like. 2,936,552, 5-17-60, Cl. 51-165.
- Schultze, Kurt H., and O. Jaeckel, to Herbert Lindner G.m.b.H. Feed device for thread grinding machines. 2,946,161, 7-26-60, Cl. 51-165.
- Schulz, Alfred E. A., to Johann Weiss Maschinenfabrik und Apparatebau G.m.b.H. Labeling machine for workpieces in upright position. 2,936,921, 5-17-60, Cl. 216-55.
- Schulz, David G., to General Mills, Inc. Slant range rate modification apparatus for radar testers. 2,958,864, 11-1-60, Cl. 343-17.1.
- Schulz, Edward A.: *See*—  
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- Schulz, George J.: *See*—  
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- Schulz, Helmut W.: *See*—  
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- Rose, Julian K., and Schulz. 2,946,769.
- Schulz, Norman F., to Regents of the University of Minnesota. Magnetic roasting process and apparatus. 2,945,755, 7-19-60, Cl. 75-1.
- Schulz, Richard, to Allmänna Svenska Elektriska Aktiebolaget. High tension air blast circuit breaker. 2,949,521, 8-16-60, Cl. 200-148.
- Schulz, Richard, to Voigt & Haefner Aktiengesellschaft. Fluid pressure operated circuit breaker pole units. 2,964,605, 12-13-60, Cl. 200-148.
- Schulz, Theodore R., to Symington Wayne Corp. Slack adjuster. 2,922,500, 1-26-60, Cl. 188-200.
- Schulz Tool and Mfg. Co.: *See*—  
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- Mosher, James K. 2,931,506.
- Mosher, James K. 2,946,605.
- Schulz, Walter E. Protective device for stud driving tools. 2,952,020, 9-13-60, Cl. 1-44.5.
- Schulz, Walter E. Driving tool. 2,963,707, 12-13-60, Cl. 1-106.
- Schulz, Walter E., and G. I. Seitz; said Seitz assor. to said Schulz. Method of driving studs into bodies by high pressure gases. 2,944,261, 7-12-60, Cl. 1-60.
- Schulz, William E., to E. I. du Pont de Nemours and Co. Ignition compositions. 2,953,447, 9-20-60, Cl. 52-2.
- Schulze, Harry E., to Boeing Airplane Co. Simplified aircraft boom control mechanism. 2,960,295, 11-15-60, Cl. 244-135.
- Schulze, Heinz: *See*—  
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- Schulze, Heinz, to General Aniline & Film Corp. Production of 3-N-monosubstituted amino-1-aryl-5-pyrazolones. 2,927,928, 3-8-60, Cl. 260-310.
- Schulze, Heinz, to General Aniline & Film Corp. Pyrazolopyridines. 2,953,571, 9-20-60, Cl. 260-294.8.
- Schulze, Joachim E., to VEB Buchungsmaschinenwerk Karl-Marx-Stadt. Digital multiplier apparatus. 2,923,473, 2-2-60, Cl. 235-161.
- Schulze, Leroy E. Fiber cleaning process. 2,957,209, 10-25-60, Cl. 19-9.
- Schulze, Reinhard, to Askania-Werke A.G. Recording magnetometer. 2,928,044, 3-8-60, Cl. 324-48.
- Schulze, Robert E., and E. J. Heartstedt, to Culligan, Inc. Liquid level valve assembly. 2,920,644, 1-12-60, Cl. 137-391.
- Schulze, Walter A., to Phillips Petroleum Co. Hydrazine compositions of low freezing point and uses thereof. 2,934,417, 4-26-60, Cl. 52-5.
- Schumacher, Berthold W., and A. E. Gruen, to Ontario Research Foundation. Means and method for the measurement of local low gas densities. 2,952,776, 9-13-60, Cl. 250-71.
- Schumacher, Edwin F., and L. B. Stokes, to Devoe & Raynolds Co., Inc. Latex paint with an esterified polyether modifier. 2,965,590, 12-20-60, Cl. 260-23.
- Schumacher, Frank A., to General Electric Co. Defrostable evaporator structure. 2,940,279, 6-14-60, Cl. 62-277.
- Schumacher, Heinz: *See*—  
Schachter, Willy, Schumacher, and Leopold. 2,957,070.
- Schumacher, Hermann, and H. Wagenfuhrer, to Gebr. Boehringer G.m.b.H. Speed indicator for speed change transmission, particularly of tool machines. 2,929,350, 3-22-60, Cl. 116-115.5.
- Schumacher, Joseph S.: *See*—  
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- Schumacher, Martin, to Atlas-Werke Aktiengesellschaft. Echo sounding system. 2,925,580, 2-16-60, Cl. 340-3.
- Schumacher, Rolf A., and D. E. Miller. Games. 2,954,229, 9-27-60, Cl. 273-95.
- Schumacher, Walter L. Football blocking and tackling practice machine. 2,934,343, 4-26-60, Cl. 273-55.
- Schumag Schumacher Metallwerke G.m.b.H.: *See*—  
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- Schuman, Ralph H., and C. K. Taft, to The Warner & Swasey Co. Machine tool with contour following apparatus. 2,959,191, 11-8-60, Cl. 137-623.
- Schuman, Richard G.: *See*—  
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- Schumann, Edward L., to The Upjohn Co. Substituted 1-( $\alpha$ -methylphenethyl)-2,2-dimethylhydrazine. 2,933,531, 4-19-60, Cl. 260-569.
- Schumann, Edward L., to The Upjohn Co. Substituted 1-phenyl-2-hydrazinopropanes. 2,933,532, 4-19-60, Cl. 260-569.
- Schumann, Marvin A., and A. C. Du Vall. Wire storage and pay out device. 2,949,252, 8-16-60, Cl. 242-85.
- Schumann, Reinhold S. Device for the treatment of skin diseases such as skin overgrowths, eruptions and the like or other skin disfigurements. 2,921,585, 1-19-60, Cl. 128-355.
- Schunbacker, Willerd A.: *See*—  
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- Nunnelee, Harold B., and Schunbacker. 2,931,886.
- Schunemann, Carl F., and G. E. Jacques, to Thompson Ramo Wooldridge Inc. Coaxial line switch. 2,966,637, 12-27-60, Cl. 333-7.
- Schunke, Edwin C., to General Motors Corp. Thermocouple. 2,930,827, 3-29-60, Cl. 136-4.
- Schüppel, Friedrich F.: *See*—  
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- Schur, Milton O., to Olin Mathieson Chemical Corp. Wrapping device. 2,952,105, 9-13-60, Cl. 53-32.
- Schur, Milton O., to Olin Mathieson Chemical Corp. Method and apparatus for making filter rods. 2,953,878, 9-27-60, Cl. 53-28.
- Schur, Milton O., and J. C. Rickards, to Olin Mathieson Chemical Corp. Cellulosic sheet and filter, and process therefor. 2,954,036, 9-27-60, Cl. 131-208.
- Schurecht, Harry G., to Champion Spark Plug Co. Composite glass seal. 2,933,552, 4-19-60, Cl. 174-152.
- Schurecht, Harry G., to Champion Spark Plug Co. Ceramic spark plug insulator. 2,944,910, 7-12-60, Cl. 106-46.
- Schürich, Herbert, and O. Bunge. Actuator of a hand knitting apparatus. 2,953,005, 9-20-60, Cl. 66-78.
- Schuricht, Henry A., and L. H. Smith, to Leading Engineering and Mfg. Co. Flexible chute. 2,947,401, 8-2-60, Cl. 193-25.
- Schurman, Glenn A.: *See*—  
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- Schurman, Glenn A., and R. E. Kidder, to California Research Corp. Anchoring system for floating drill structure. 2,939,291, 6-7-60, Cl. 61-46.5.
- Schürmann, Max-Otto, to Farbenfabriken Bayer Aktiengesellschaft. Aftertreatment of tows consisting of continuous artificial filaments. 2,953,424, 9-20-60, Cl. 8-151.2.
- Schurr, Charles A.: *See*—  
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- Schurr, Karl, to Minneapolis-Honeywell Regulator Co. Automatic steering mechanism for aircraft. 2,952,424, 9-13-60, Cl. 244-77.
- Schurr, Kenneth C. Skewer. 2,922,358, 1-26-60, Cl. 99-419.
- Schurr, Paul E.: *See*—  
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- Schurz, George F.: *See*—  
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- Schussler, Alfred: *See*—  
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- Schuster, Curt: *See*—  
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- Schuster, Donald H.: *See*—  
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- Schuster, Frank C., to Allis-Chalmers Mfg. Co. Seat actuated clutch disengaging mechanism. 2,931,454, 4-5-60, Cl. 180-82.
- Schuster, Frank C., to Allis-Chalmers Mfg. Co. Shock absorbing device. 2,951,558, 9-6-60, Cl. 187-9.
- Schuster, James H., and D. H., to R. Follansbee (Electric Heating & Cooling Co.). Window adapter. 2,925,026, 2-16-60, Cl. 98-94.
- Schuster, Ludwig K., H. A. Whitenight, and W. A. Jung, Jr., 1/2 to Reilly-Whiteman-Walton Co., and 1/2 to Kelsey-Hayes Co. Metal treatment. 2,935,432, 5-3-60, Cl. 148-6.15.
- Schuster, Michael M., to Hi-Shear Rivet Tool Co. Hydraulic power source provided with cooling means. 2,946,208, 7-26-60, Cl. 62-396.
- Schuster, Michael M., to Hi-Shear Rivet Tool Co. Pin with enlarged rib to provide prestressing. 2,955,505, 10-11-60, Cl. 85-5.
- Schuster, Nick A., to Schlumberger Well Surveying Corp. Well logging systems. 2,933,674, 4-19-60, Cl. 324-1.
- Schuster, Nick A., to Schlumberger Well Surveying Corp. Systems for electromagnetic investigation of media. 2,951,982, 9-6-60, Cl. 324-6.
- Schuster, Roman. Machine for the surface treatment of workpieces. 2,932,132, 4-12-60, Cl. 51-59.
- Schusterius, Carl. Electrical heating appliances. 2,933,586, 4-19-60, Cl. 219-25.
- Schustrin, Joseph A. Multiple launcher for toy tops. 2,966,004, 12-27-60, Cl. 46-69.
- Schutt, Hartwig, to Henkel & Cie. G.m.b.H. Recovery of alkalies and terephthalic acid from aqueous solutions containing alkali salts of terephthalic acid. 2,927,130, 3-1-60, Cl. 260-525.
- Schutt, Hermann C., to Stone & Webster Engineering Corp. Method and apparatus for the fluid catalytic treatment of fluid reactants. 2,954,281, 9-27-60, Cl. 23-288.
- Schutt, Josef. Process for the production of diffusion resistant coatings. 2,934,456, 4-26-60, Cl. 117-75.
- Schutt, Norman C.: *See*—  
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- Schutt, Norman C., F. W. Flynn, and J. L. Bjelland, to Powers Chemco, Inc. Photomechanical camera. 2,939,371, 6-7-60, Cl. 95-19.



- Schutte, Alfred H.: *See*—  
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- Schutte, August H., to The Lummus Co. Conversion of liquid hydrocarbons with the use of a moving bed of catalyst particles. 2,920,034, 1-5-60, Cl. 208—146.
- Schutte, August H., to The Lummus Co. Continuous contact coking of two feeds with the second feed entering upstream of the first feed. 2,923,678, 2-2-60, Cl. 208—55.
- Schutte, August H., to The Lummus Co. Process for the coking of liquid hydrocarbons. 2,928,786, 3-15-60, Cl. 208—166.
- Schutte, Charles E., to Bank of America National Trust and Savings Association. Headlight dimmer switch and turn signal control. 2,934,744, 4-26-60, Cl. 340—76.
- Schutte, Charles E., to Bank of America National Trust and Savings Association. Vehicle tailgate construction. 2,936,195, 5-10-60, Cl. 296—106.
- Schütz, Erwin, to Kammgarnspinnerel Kaiserslautern. Method and apparatus for processing textile fibers. 2,948,025, 8-9-60, Cl. 19—157.
- Schütz, Erwin, to Kammgarnspinnerel Kaiserslautern. Apparatus for dyeing silvers. 2,948,137, 8-9-60, Cl. 68—187.
- Schutz, Karl H., to Jos. Schneider & Co. Optische Werke. Optical system with diaphragm preselector. 2,965,012, 12-20-60, Cl. 95—64.
- Schütz, Karl H., to Jos. Schneider & Co., Optische Werke. Diaphragm-preselector mounting for optical systems. 2,966,105, 12-27-60, Cl. 95—64.
- Schutz, Henry G., and D. E. Bown, to Esso Research and Engineering Co. Liquid-solid separation in oxygen-free atmosphere. 2,944,047, 7-5-60, Cl. 260—83.2.
- Schutzman, Elias T.: *See*—  
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Cotelessa, Robert F., Saporta, and Schutzman. 2,957,147.
- Schwaar, Pierre G., to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Supersonic axial compressors. 2,953,747, 10-11-60, Cl. 230—123.
- Schwab, Carl E., to Hazeltine Research, Inc. Delay calibrating apparatus. 2,939,075, 5-31-60, Cl. 324—57.
- Schwab, Charles J. Pressure transmitting device. 2,941,367, 6-21-60, Cl. 60—54.6.
- Schwab, Fredric W., and G. B. McKay. Locking device. 2,947,557, 8-2-60, Cl. 287—58.
- Schwab, John C. E.: *See*—  
Given, Harold S., Schwab, and Wilson. 2,952,944.
- Schwab, Max, deceased; O. B. Schwab, sole heir. Sewing machine drive system. 2,920,221, 1-5-60, Cl. 310—96.
- Schwab, Olga B.: *See*—  
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- Schwabe, Eberhard, R. Kempkes, and H. Voller, to Deutsche Edelstahlwerke Aktiengesellschaft. Method of producing compressed parts for permanent magnets. 2,959,823, 11-15-60, Cl. 18—59.2.
- Schwabe, Kurt, to Tissomat A.G. Thread tensioning means. 2,955,620, 10-11-60, Cl. 139—247.
- Schwabe, Dr. Willmar, G.m.b.H.: *See*—  
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- Schwaiger, Frank H., R. C. Gadsby, and J. Schwaiger, to Anheuser-Busch, Inc. Method of draining off wort from a straining tank. 2,936,236, 5-10-60, Cl. 99—52.
- Schwaiger, Joseph: *See*—  
Schwaiger, Frank H., Gadsby, and Schwaiger. 2,936,236.
- Schwaiger, Leo. Locknut assembly comprising sleeve with tapered external thread being keyed to bolt and enveloped by a retention nut. 2,925,842, 2-23-60, Cl. 151—8.
- Schwalm, Glendon H.: *See*—  
Ullman, Robert, Fortna, Middleton, Schwalm, and Tritt. 2,961,027.
- Schwan, Judith A., and C. M. Spath, to Eastman Kodak Co. Color developers containing polyethylene glycols. 2,950,970, 8-30-60, Cl. 96—55.
- Schwandt, Walter R., to A. E. Staley Mfg. Co. Production of starch grits. 2,929,748, 3-22-60, Cl. 127—71.
- Schwaneke, Alfred E., to AM Co. Thermostatic control unit for coffee makers or the like. 2,956,136, 10-11-60, Cl. 200—137.
- Schwank, Gunther, deceased by Reinisch-Westfallsche "Revision" Treuhand Aktiengesellschaft (Treuhand Aktiengesellschaft), and W. Franken, executors, to American Infra Red Radiant Co., Inc. Electrical ignition and safety systems for burners. 2,952,303, 9-13-60, Cl. 158—28.
- Schwarm, Edward G.: *See*—  
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- Schwarm, Edward G., to General Products, Inc. Navigation training apparatus. 2,965,976, 12-27-60, Cl. 85—10.2.
- Schwarte, Georg: *See*—  
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- Schwarting, Nathan G.: *See*—  
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- Schwartz, Albert B.: *See*—  
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- Schwartz, Albert B., to Socony Mobil Oil Co., Inc. Silica-alumina-magnesia catalyst. 2,935,483, 5-3-60, Cl. 252—455.
- Schwartz, Albert B., to Socony Mobil Oil Co., Inc. Manufacture of platinum metal-containing catalyst. 2,964,480, 12-13-60, Cl. 252—439.
- Schwartz, Albert B., to Socony Mobil Oil Co., Inc. Production of attrition-resistant silica-alumina gels. 2,966,466, 12-27-60, Cl. 252—317.
- Schwartz, Anton J., and L. G. Hopkins, to Westinghouse Electric Corp. Appliance handle construction. 2,941,235, 6-21-60, Cl. 16—116.
- Schwartz & Benjamin, Inc.: *See*—  
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- Schwartz, Bernard P. M., and J. G. C. Agnew, to Thoka Machinery Supplies Ltd. Planetary gear reversing drive means controlled by snap action clutch means. 2,950,490, 8-30-60, Cl. 10—138.
- Schwartz, Charles W.: *See*—  
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- Schwartz, Daniel M., to The Eimco Corp. Shaft mucker and bucket therefor. 2,959,307, 11-8-60, Cl. 214—145.
- Schwartz, Daniel M., and D. E. Hendrickson, to The Eimco Corp. Material handling machine. 2,922,536, 1-26-60, Cl. 214—131.
- Schwartz, Daniel M., T. N. Hackett, and D. I. McCallum, to The Eimco Corp. Transmission. 2,953,941, 9-27-60, Cl. 74—665.
- Schwartz, Daniel M., and E. M. Martin, to The Eimco Corp. Transmission. 2,953,942, 9-27-60, Cl. 74—665.
- Schwartz, Donald: *See*—  
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- Schwartz, Donald, to Esso Research and Engineering Co. Light naphtha isomerization process. 2,956,095, 10-11-60, Cl. 260—683.68.
- Schwartz, Donald, to Esso Research and Engineering Co. Isomerization of normal paraffins. 2,963,528, 12-6-60, Cl. 260—683.75.
- Schwartz, Edward W.: *See*—  
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- Schwartz, Emanuel: *See*—  
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- Schwartz, Frank L., to Continental Aviation and Engineering Corp. Heat exchangers. 2,965,361, 12-20-60, Cl. 257—267.
- Schwartz, Frederick L.: *See*—  
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- Schwartz, George J., and A. M. Campbell, to Minneapolis-Honeywell Regulator Co. Liquid energy transfer apparatus. 2,955,471, 10-11-60, Cl. 74—5.5.
- Schwartz, Harold H., to Empire Brushes, Inc. Method for molding plastic articles. 2,923,035, 2-2-60, Cl. 18—59.
- Schwartz, Harold L.: *See*—  
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- Schwartz, Harvey J., to Horizons Inc. Reconditioning of electric apparatus. 2,939,209, 6-7-60, Cl. 29—401.
- Schwartz, Herbert, and J. B. Pinto, to Bell & Howell Co. Disc-type suspension spring. 2,947,529, 8-2-60, Cl. 267—1.
- Schwartz, Howard: *See*—  
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- Schwartz, Ira. Strand processing. 2,948,133, 8-9-60, Cl. 66—201.
- Schwartz, James W., to Radio Corp. of America. Color tube control system. 2,921,119, 1-12-60, Cl. 178—5.4.
- Schwartz, James W., to Radio Corp. of America. Electron gun. 2,935,642, 5-3-60, Cl. 315—15.
- Schwartz, James W., and R. D. Thompson, to Radio Corp. of America. Color stripe tube with two distinctive indexing elements. 2,934,600, 4-26-60, Cl. 178—5.4.
- Schwartz, James S., and G. E. Stark, to R. R. Donnelley & Sons Co. Apparatus for and a method of revising type in columnar form. 2,961,246, 11-22-60, Cl. 276—34.
- Schwartz, John J., to Brown & Bigelow. Multiple purpose electric lantern. 2,932,018, 4-5-60, Cl. 340—366.
- Schwartz, Louis J., to Cross Country Clothes, Inc. Pocket marking machine. 2,921,555, 1-19-60, Cl. 118—308.
- Schwartz, Marcus, to S. & S. Industries, Inc. Plastic boning tips. 2,938,215, 5-31-60, Cl. 2—257.
- Schwartz, Morris, and E. K. Kaprelian, to The Kalart Co., Inc. Sound projector. 2,925,753, 2-23-60, Cl. 88—28.
- Schwartz, Morris, and E. K. Kaprelian, to The Kalart Co., Inc. Combined photographic transparency and sound track carrier support frame. 2,961,922, 11-29-60, Cl. 83—28.
- Schwartz, Nathan R., to Naras Research Inc. Spring loaded swivel joint. 2,925,294, 2-16-60, Cl. 287—92.
- Schwartz, Nathan R., to Naras Research Inc. Lighting fixture. 2,925,489, 2-16-60, Cl. 240—73.
- Schwartz, Nathan R., to Naras Research Inc. Lens clip and bulb retainer. 2,943,187, 6-28-60, Cl. 240—151.
- Schwartz, Nathan R., to Naras Research Inc. Louver assembly. 2,947,855, 8-2-60, Cl. 240—46.39.
- Schwartz, Robert A. D., and S. W. Lindheim. Luminous ceiling construction. 2,956,150, 10-11-60, Cl. 240—9.
- Schwartz, Robert E., to Wagner Electric Corp. Height control valve. 2,942,623, 6-28-60, Cl. 137—627.5.
- Schwartz, Robert F.: *See*—  
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- Schwartz, Samuel H., to The Dole Valve Co. Heater control diverter. 2,961,833, 11-29-60, Cl. 60—60.
- Schwartz, Seymour: *See*—  
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- Schwartz, Sidney, and H. E. Guenther. Drapery hook. 2,941,592, 6-21-60, Cl. 160—348.



- Schwartz, Sol. Packing device for pile fabrics. 2,944,751, 7-12-60, Cl. 242-62.
- Schwartz, Sol. Machine for packing pile fabrics. 2,944,752, 7-12-60, Cl. 242-62.
- Schwartz, Walter, and R. H. Klepinger, to United States of America, Air Force. Stability compensator. 2,926,870, 3-1-60, Cl. 244-45.
- Schwartz, Werner, to Dravo Corp. Process of smelting zinc containing lead ores. 2,926,081, 2-23-60, Cl. 75-77.
- Schwartzberg, Fred R.: *See—*
- Jaffee, Robert I., Schwartzberg, and Williams. 2,940,845.
- Schwartzberg, Louis. Composite molded paper pulp egg tray. 2,934,233, 4-26-60, Cl. 217-26.5.
- Schwartzkopf, Fritz E., and H. Eger, to Noblee & Thorl G.m.b.H. Reaction column for the continuous treatment of liquids. 2,939,770, 6-7-60, Cl. 23-283.
- Schwartzkopf, L.: *See—*
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- Schwartzman, Bernard: *See—*
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- Schwartzman, Louis H.: *See—*
- Shackelford, James M., and Schwartzman. 2,963,516.
- Shackelford, James M., and Schwartzman. 2,963,524.
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- Schwarz, Adolf, to General Motors Corp. Shaftless valve structures. 2,929,396, 3-22-60, Cl. 137-315.
- Schwarz, Anton J.: *See—*
- York, Charles J., and Schwarz. 2,941,925.
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- Schwarz, Dr., Arzneimittelfabrik G.m.b.H.: *See—*
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- Schwarz Bio Research, Inc.: *See—*
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- Schwarz, David R., to Schwarz Bio Research, Inc. Hair dressing method. 2,960,442, 11-15-60, Cl. 167-87.
- Schwarz, David R., and R. C. Golyznik, to Schwarz Laboratories, Inc. Process for recovery of highly active, stable, substantially sterile, soluble, proteolytic, enzyme composition from commercial crude papain. 2,958,632, 11-1-60, Cl. 195-68.
- Schwarz, Donald J.: *See—*
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- Schwarz, Erwin. Tire bead breaking device with adjustable rim anchoring means. 2,956,620, 10-18-60, Cl. 157-1.17.
- Schwarz, Frank W. Lawn sweeper and material disintegrator. 2,956,388, 10-18-60, Cl. 56-501.
- Schwarz, George, to Powers Chemco, Inc. Photosensitive resists and photomechanical process. 2,942,974, 6-28-60, Cl. 96-33.
- Schwarz, George E. Over-wheel stabilizers for vehicles. 2,919,926, 1-5-60, Cl. 280-6.
- Schwarz, Hermann. Kommanditgesellschaft: *See—*
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- Schwarz, Karl H., to Puritan Compressed Gas Corp. Oxygen mask having detachable face seal cushion. 2,931,356, 4-5-60, Cl. 128-146.
- Schwarz Laboratories, Inc.: *See—*
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- Schwarz, Robert: *See—*
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- Schwarzbaur, Julius. Plano flanges. 2,927,493, 3-8-60, Cl. 84-251.
- Schwarze, Werner, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Dichloro-S-triazine derivatives and process for their production. 2,954,377, 9-27-60, Cl. 260-243.
- Schwarzer, Carl G.: *See—*
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- Schwarzer, Carl G., to Shell Oil Co. Polyphenol glycidyl ethers. 2,965,611, 12-20-60, Cl. 260-47.
- Schwarzer, Fred. Crank paddle for boats. 2,940,415, 6-14-60, Cl. 115-67.
- Schwarzer, Hans H. G. F. Method for registering signal voltages, particularly of physiological origin, by means of mechanically recording oscillographs. 2,946,645, 7-26-60, Cl. 346-33.
- Schwarzkopf Development Corp.: *See—*
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- Schwarzmann, Eduard T. Fluid-projecting weapon. 2,939,609, 6-7-60, Cl. 222-82.
- Schwarzmayr, Ludwig. Aircraft variable lift wing. 2,945,645, 7-19-60, Cl. 244-42.
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- Schwebel, Charles H., to Addressograph-Multigraph Corp. Printing machines. 2,951,442, 9-6-60, Cl. 101-149.5.
- Schwebs, Robert K., to Cornell Paperboard Products Co. Box and method and apparatus for the manufacture thereof. 2,923,211, 2-2-60, Cl. 93-36.
- Schwebs, Robert K., to Cornell Paperboard Products Co. Produce container and tray insert. 2,951,624, 9-6-60, Cl. 229-15.
- Schwebs, Robert K. Process of packaging fresh corn. 2,964,411, 12-13-60, Cl. 99-171.
- Schwede, Otto G. Engine fuel flow regulator for regulating engine fuel flow. 2,923,129, 2-2-60, Cl. 60-39.28.
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- Ruppert, Wilhelm, and Schwedler. 2,962,399.
- Schwegler, Roy F., to J. I. Case Co. Position locking mechanism for two-way plow. 2,949,970, 8-23-60, Cl. 172-450.
- Schwegman, Harry E., to Halliburton Oil Well Cementing Co. Fluid flow control device. 2,919,709, 1-5-60, Cl. 137-68.
- Schweickart, William M. Differential drive. 2,927,480, 3-8-60, Cl. 74-650.
- Schweig, Malvern A., to Security Fire Door Co. Elevator door control. 2,937,867, 5-24-60, Cl. 268-59.
- Schweig, Malvern A., to Security Fire Door Co. Elevator door control mechanism. 2,960,188, 11-15-60, Cl. 187-52.
- Schweighofer, Horst M.: *See—*
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- Schweinberg, Fred M., to Koppers Co., Inc. Combined car stop and bumper. 2,923,255, 2-2-60, Cl. 104-257.
- Schweisthal, Frederick G., to Stewart-Warner Corp. Pressure relief valve. 2,945,508, 7-19-60, Cl. 137-515.
- Schweitzer, Arthur W., to Standard Oil Co. Chain-type pipe wrench. 2,921,489, 1-19-60, Cl. 81-69.
- Schweitzer, Donald G., J. R. Weeks, O. F. Kammerer, and D. H. Gurinsky, to United States of America, Atomic Energy Commission. Method of forming a protective coating on ferrous metal surfaces. 2,926,111, 2-23-60, Cl. 148-6.11.
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- Schweitzer, Fritz L., Jr., to The Astatic Corp. Dual stylus phonograph pickup. 2,937,242, 5-17-60, Cl. 179-100.41.
- Schweitzer, Gerhard, to Julius Karl Goerler Transformatorfabrik. Oscillator having voltage-sensitive tuning capacitor biased by oscillator grid self-bias and external signal. 2,936,428, 5-10-60, Cl. 331-177.
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- Schweitzer, Paul H., and A. W. Hussmann, to Schweitzer and Hussmann. Air-cooled, port-scavenged engine. 2,966,146, 12-27-60, Cl. 123-41.56.
- Schweitzer, William K., Jr., to The Dow Chemical Co. Vinyl aromatic polymers stabilized with N-methylaminoalkanols. 2,938,882, 5-31-60, Cl. 260-45.9.
- Schweitzer, William K., Jr., to The Dow Chemical Co. Styrene-modified rubbery compositions and stabilized with 2-nitrophenols. 2,943,075, 6-28-60, Cl. 260-45.5.
- Schweitzer, William V., to The American Hardware Corp. Door lock. 2,959,952, 11-15-60, Cl. 70-146.
- Schweitzer, William V., to The American Hardware Corp. Door lock. 2,959,953, 11-15-60, Cl. 70-146.
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- Schweizer, Walter, E. Glunz, and E. Muller, to Kienzle Uhrenfabriken A/G. Balance wheel spring-end mounting. 2,931,164, 4-5-60, Cl. 58-115.
- Schweizerische Eidgenossenschaft: *See—*
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- Hefti, Walter. 2,964,008.
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- Schwendewein, Karl, to E.S.C.O. S.A. Process and apparatus for straightening and feeding wire. 2,922,460, 1-26-60, Cl. 153-86.
- Schwengeler, Peter: *See—*
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- Schwenk, Earl L., to United States of America, Commerce. Holding fixture for spin-forming blanks. 2,921,549, 1-19-60, Cl. 113-52.
- Schwenk, Henry C., to Henry Pratt Co. Valve operator and position indicator. 2,959,149, 11-8-60, Cl. 116-125.
- Schwenkler, Norbert H., to Patent License Corp. Emergency lighting fixture. 2,929,919, 3-22-60, Cl. 240-7.7.
- Schwenzeger, Edward E., to Bell Telephone Laboratories, Inc. Translator. 2,956,265, 10-11-60, Cl. 340-173.2.



- Schweppe, Jack: *See*—  
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- Schwerdtle, Arthur. Process for producing monobromacetic acid and derivatives thereof. 2,925,435, 2-16-60, Cl. 260—487.
- Schwertl, Edward, to Joe Lowe Corp. Tray for cooling and proofing bakery products. 2,955,701, 10-11-60, Cl. 198—203.
- Schwartz, Frederick A., to Haloid Xerox Inc. High-speed electrostatic alphanumeric printer. 2,919,967, 1-5-60, Cl. 346—74.
- Schweyer, Robert W. Outdoor clothes dryer. 2,921,696, 1-19-60, Cl. 211—178.
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- Schwieger, John T. Hydraulic dispenser. 2,935,994, 5-10-60, Cl. 137—268.
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- Schwill, Albert, & Co.: *See*—  
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- Schwind, Hermann O. H., to Borg-Warner Corp. Multiple fluid refrigerating system. 2,938,362, 5-31-60, Cl. 62—149.
- Schwindt, Johannes, to W. C. Heraeus G.m.b.H. Coating apparatus. 2,925,062, 2-16-60, Cl. 118—49.
- Schwinge, Heinz T., to United States of America. Air Force. Liquid braking apparatus. 2,960,192, 11-15-60, Cl. 188—94.
- Schwinn, Frederick S. Anti-creeper for railway rails. 2,944,739, 7-12-60, Cl. 238—217.
- Schwinn, Richard C.: *See*—  
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- Schwitzer Corp.: *See*—  
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- Schwoebel, Richard L., to General Mills, Inc. Balloon and gondola assembly. 2,950,881, 8-30-60, Cl. 244—31.
- Schwoegler, Edward J.: *See*—  
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- Schwoegler, Edward J., and R. E. Putscher, to Neville Chemical Co. Recovery of high purity indene by chromatographic fractionation and fractional distillation. 2,930,821, 8-29-60, Cl. 260—674.
- Schwoppe, Eugene A., to The Procter & Gamble Co. Detergent composition. 2,934,348, 9-27-60, Cl. 252—109.
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- Schwtutke, Gunter H., E. D. Haffner, and R. M. Adler, to Sylvania Electric Products Inc. Crystal orientation device. 2,947,214, 8-2-60, Cl. 88—14.
- Schwyzer, Robert, B. Iselin, and W. Rittel, to Ciba Pharmaceutical Products, Inc. Production of natural aminoacid aryl esters with phosphorus aryl esters. 2,938,915, 5-31-60, Cl. 260—389.
- Schytill, Franz, and H. Krollmann, to Metallgesellschaft, A.G. Process for collecting the liquid contained in a mist. 2,947,383, 8-2-60, Cl. 183—121.
- Sciaky, David, to Welding Research, Inc. Method and apparatus for truss core sandwich welding. 2,947,848, 8-2-60, Cl. 219—83.
- Sciaky, Mario M.: *See*—  
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- Scion, Robert R., and F. J. Bock, to Milprint, Inc. Art of packaging. 2,932,575, 4-12-60, Cl. 99—178.
- Scivally, Bernice M. Well scraping apparatus. Re. 24,766, 1-19-60, Cl. 166—173.
- Scoby, Frank: *See*—  
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- Scofield, Donald W., to Philco Corp. Gas-electric heating device. 2,921,176, 1-12-60, Cl. 219—37.
- Scofield, Donald W., to Philco Corp. Apparatus for removing smoke and odors from domestic cooking vapors. 2,940,835, 6-14-60, Cl. 23—288.
- Scofield, Donald W., to Philco Corp. Appliance units. 2,957,067, 10-18-60, Cl. 219—35.
- Scofield, Howard M., to Union Carbide Corp. High argon recovery using kettle top feed-top pinch principle. 2,934,907, 5-3-60, Cl. 62—21.
- Scofield, John D.: *See*—  
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- Scofield, Raymond C., to Phillips Petroleum Co. Preparation of reactor effluent for recovery of acetylene and the like therefrom. 2,945,075, 7-12-60, Cl. 260—679.
- Scofield, Raymond C., to Phillips Petroleum Co. Separation and purification of hydrocarbons. 2,963,517, 12-6-60, Cl. 260—666.
- Scofield, Robert O., to General Motors Corp. Combined air filtering and air disinfecting unit mounting. 2,935,156, 5-3-60, Cl. 183—44.
- Scope, Sol, to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,947,834, 8-2-60, Cl. 200—81.9.
- Scopp, Irwin W.: *See*—  
 Kibrick, Andre C., Scopp, and Colton. 2,944,928.
- Scorgie, Guy C., to The English Electric Co., Ltd. Ballistic missiles. 2,932,467, 4-12-60, Cl. 244—14.
- Scotland Mills, Inc.: *See*—  
 Riddle, Frank W., and Duffett. 2,958,343.  
 Riddle, Frank W., and Duffett. 2,961,734.
- Scott, Anna M.: *See*—  
 Scott, Walter S. 2,919,947.
- Scott, Arthur L., to Columbia Products Co. Golf stick and shaft. 2,934,345, 4-26-60, Cl. 273—80.
- Scott-Atwater Foundry, Division of S & A Co., Inc.: *See*—  
 Todish, Walter D., McFadden, and Johnson. 2,966,319.
- Scott Aviation Corp.: *See*—  
 Miller, Arthur E., and Koester. 2,931,355.  
 Benzel, Howard A. 2,952,853.  
 Corey, Joseph T. 2,952,852.  
 Cupp, Charles D. 2,940,471.
- Scott, Benjamin B., to United States of America, Air Force. Method of making electrical resistance cards. 2,957,227, 10-25-60, Cl. 29—155.62.
- Scott, Carleton B., to Collier Carbon and Chemical Corp. Fungicidal compositions comprising nitrogen base salts of dimethyl-tetrathio phosphoric acid. 2,930,730, 3-29-60, Cl. 167—22.
- Scott, Charles H., to Dorr-Oliver Inc. Balanced drive mechanism for large thickeners. 2,931,241, 4-5-60, Cl. 74—410.
- Scott, Cleveland R.: *See*—  
 Ayers, Arnold L., and Scott. 2,932,941.  
 Short, James N., and Scott. 2,929,199.
- Scott, Cleveland R., to Phillips Petroleum Co. Method of propelling rockets and rocket fuels. 2,943,439, 7-5-60, Cl. 60—35.4.
- Scott, Dale K., to Southern States Equipment Corp. Attachable dolly for silver coiler. 2,920,902, 1-12-60, Cl. 280—79.2.
- Scott, Dale K., to Southern States Equipment Corp. Silver coiler. 2,940,136, 6-14-60, Cl. 19—159.
- Scott, Dale K., and C. W. Walter, to Southern States Equipment Corp. Coupling means. 2,950,021, 8-23-60, Cl. 220—23.4.
- Scott, David J., to Wood Newspaper Machinery Corp. Tension lock-up device. 2,953,090, 9-20-60, Cl. 101—378.
- Scott, Donald B., to Allis-Chalmers Mfg. Co. Motor generator induction heating system. 2,945,112, 7-12-60, Cl. 219—10.77.
- Scott, Donald D. Wad seater for shell loader. 2,960,903, 11-22-60, Cl. 86—23.
- Scott, Donald W.: *See*—  
 Coblenz, William H., and Scott. 2,927,369.
- Scott, Donald W., to Pass & Seymour, Inc. Pull chain mechanism for box mounted lamp holder. 2,948,786, 8-9-60, Cl. 200—51.15.
- Scott, Edwin C. Louver windows. 2,952,051, 9-13-60, Cl. 20—62.
- Scott, Ernest L.: *See*—  
 Ceell, Edward C., and Scott. 2,952,512.
- Scott & Fetzer Co., The: *See*—  
 Hammink, Niles H. 2,948,354.  
 Kemper, John A. 2,932,055.  
 MacFarland, Charles H. 2,948,091.  
 MacFarland, Charles H. 2,954,652.
- Scott, Franklin R., and V. Josephson, to United States of America, Atomic Energy Commission. Apparatus for producing high velocity shock waves and gases. 2,923,852, 2-2-60, Cl. 315—59.
- Scott, Gerald, to Imperial Chemical Industries Ltd. Mixed anhydrides and their use as catalysts for the polymerisation of ethylenically unsaturated compounds. 2,951,834, 9-6-60, Cl. 260—94.9.
- Scott, Gerald, to Imperial Chemical Industries Ltd. Esters. 2,961,460, 11-22-60, Cl. 260—466.
- Scott, Gerald, and L. Seed, to Imperial Chemical Industries Ltd. Polymerisation of ethylenically unsaturated compounds. 2,946,776, 7-26-60, Cl. 260—88.7.
- Scott, Gerald, and L. Seed, to Imperial Chemical Industries Ltd. Mixed anhydrides of hyponitrous and carboxylic acids. 2,963,510, 12-6-60, Cl. 260—545.
- Scott, Guy F., to General Motors Corp. Tool holder. 2,922,219, 1-26-60, Cl. 29—96.
- Scott, Guy F., to General Motors Corp. Method and apparatus for printing cylindrical objects. 2,924,169, 2-9-60, Cl. 101—40.
- Scott, Hal K., 33½ to R. K. Bowman, and 33½ to J. H. Roof, Jr. Awning and storm shutter. 2,936,498, 5-17-60, Cl. 20—57.5.
- Scott, Harold E. B., to Vickers Ltd. Doctors for paper-making and other machines. 2,948,012, 8-9-60, Cl. 15—256.5.



- Scott, Hayes O., and S. A. Wharram, Jr., to The Engineered Products Co. Magnetic catch. 2,920,253, 1-5-60, Cl. 317-159.
- Scott, Howard M., to Radio Corp. of America. Multivibrator with reset timing circuit. 2,955,200, 10-4-60, Cl. 250-27.
- Scott, Irving: *See*—  
Jaglowksi, Joseph J., Jr., and Scott. 2,938,429.
- Scott, James G. Electric solenoid actuator. 2,950,088, 8-23-60, Cl. 255-4.4.
- Scott, James G., R. A. Freeman, and R. T. Houston, to American Percussion Tool Co. Well logging method and apparatus. 2,933,144, 4-19-60, Cl. 181-5.
- Scott, John E. Trolling device. 2,940,207, 6-14-60, Cl. 43-43.13.
- Scott, John F., M. T. Fleming, and R. E. Fink, to Proctor & Schwartz, Inc. Apparatus for drying gelatinous material. 2,937,454, 5-24-60, Cl. 34-66.
- Scott, John J.: *See*—  
Marshall, Douglas W., and Scott. 2,926,993.
- Scott, John N., Jr., to Phillips Petroleum Co. Method of producing solid void-free articles of thermoplastic resins. 2,962,768, 12-6-60, Cl. 18-59.
- Scott, John W., Jr., to California Research Corp. Catalytic conversion of hydrocarbon distillates. 2,944,005, 7-5-60, Cl. 208-109.
- Scott, John W., Jr., to California Research Corp. Hydrocracking of a hydrocarbon distillate employing a sulfide of nickel or cobalt, disposed on an active siliceous cracking catalyst support. 2,944,006, 7-5-60, Cl. 208-109.
- Scott, John W., Jr., to California Research Corp. Process for producing xylenes. 2,944,089, 7-5-60, Cl. 260-668.
- Scott, John W., Jr., and F. M. Hazard, Jr., to California Research Corp. Process of catalytic desulfurization and hydrocracking of hydrocarbons followed by catalytic cracking. 2,932,611, 4-12-60, Cl. 208-94.
- Scott, Johnny N.: *See*—  
Jones, Rufus V., and Scott. 2,930,726.
- Scott, Kenneth H. Meat cleaning machine. 2,932,042, 4-12-60, Cl. 15-3.17.
- Scott, Larkin B., to The Perkin-Elmer Corp. Ultralinear transducer. 2,956,221, 10-11-60, Cl. 323-43.5.
- Scott, Leroy W., Sr.,  $\frac{1}{4}$  to R. C. Bethell, and  $\frac{1}{4}$  to A. H. Pratt. Double end gate ramp and trailer. 2,924,347, 2-9-60, Cl. 214-506.
- Scott, Leslie E.: *See*—  
Vogt, Kenneth S., and Scott. 2,927,281.
- Scott, Leslie E., to General Motors Corp. Automatic gain control system for transistorized receivers. 2,961,534, 11-22-60, Cl. 250-20.
- Scott, Lewis A.: *See*—  
Carlton, Raymond R., Scott, and Mortensen. 2,964,902.
- Scott Machining, Inc.: *See*—  
Scott, Martin. 2,922,424.
- Scott, Marie T. J. M. Foot scraper attachment for automobiles. 2,933,750, 4-26-60, Cl. 15-237.
- Scott, Martin, to Scott Machining, Inc. Card selecting apparatus. 2,922,424, 1-26-60, Cl. 129-16.1.
- Scott, Milton J.: *See*—  
Rossin, Elmer H., and Scott. 2,952,880.  
Rossin, Elmer H., and Scott. 2,953,463.  
Rossin, Elmer H., and Scott. 2,953,464.
- Scott, O. M., & Sons Co.: *See*—  
Peoples, Virgil H. 2,925,201.
- Scott, Orin W., to Beech Aircraft Corp. Variable pitch propeller. 2,954,831, 10-4-60, Cl. 170-160.32.
- Scott Paper Co.: *See*—  
Bailey, Berry W. 2,947,656.  
Elmore, William C., and McCarthy. 2,934,273.
- Scott, Paul J. Well drilling apparatus. 2,960,311, 11-15-60, Cl. 255-19.
- Scott, Platho P., Jr.: *See*—  
Bearden, William G., Murphy, and Scott. 2,946,383.  
Lummus, James L., and Scott. 2,954,871.
- Scott, Platho P., Jr., and A. O. Fischer, to Pan American Petroleum Corp. Well-servicing compositions and methods. 2,943,679, 7-5-60, Cl. 166-21.
- Scott, Platho P., Jr., and A. O. Fischer, to Pan American Petroleum Corp. Hard plant seeds in well-servicing compositions and methods. 2,943,680, 7-5-60, Cl. 166-21.
- Scott, Ray W. Automatic winding mechanism. 2,965,333, 12-20-60, Cl. 242-158.5.
- Scott, Raymond L.: *See*—  
Miller, Meral O., Matheny, and Scott. 2,938,593.
- Scott, Robert E., to Gagnier Fibre Products Co. Fastener and assembly. 2,958,108, 11-1-60, Cl. 24-73.
- Scott, Robert S., to International Business Machines Corp. Process for removing shorts from P-N junctions. 2,963,411, 12-6-60, Cl. 204-143.
- Scott, Steve M.: *See*—  
Maley, Joseph P., and Scott. 2,930,533.
- Scott, Stuart, and V. L. Hansley, to National Distillers and Chemical Corp. Production of metals. 2,950,963, 8-30-60, Cl. 75-84.5.
- Scott, Thomas R., Jr., D. W. Robertson, and W. B. Wrigley, to Georgia Tech Research Institute. VHF rheostat and method of using same. 2,954,537, 9-27-60, Cl. 333-81.
- Scott, Viola E.: *See*—  
Kirk, William M. 2,956,543.
- Scott, W. G.: *See*—  
Utiger, Ralph. 2,926,814.
- Scott, Walter S., deceased; A. M. Scott, executrix. Decorative door knobs. 2,919,947, 1-5-60, Cl. 292-347.
- Scott, Walter T.: *See*—  
Garner, John L. E., Sr., and Scott. 2,932,144.
- Scott, Waitman P.: *See*—  
Hoffman, Walter H., and Scott. 2,946,722.
- Scott, William D., J. W. Gaffney, and A. M. Bickford. Animal cradle. 2,965,071, 12-20-60, Cl. 119-103.
- Scott, William J., to Ideal Industries, Inc. Pulling elbow. 2,955,851, 10-11-60, Cl. 285-127.
- Scott, William M., Jr., to I-T-E Circuit Breaker Co. Combined circuit breaker and short circuiter. 2,924,752, 2-9-60, Cl. 317-11.
- Scott, William S.: *See*—  
Packard, Lyle E., Scott, Mason, and Soderquist. 2,924,718.
- Scott & Williams, Inc.: *See*—  
Curtis, Horace L. 2,949,756.  
Curtis, Horace L. 2,960,853.  
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Lawson, Robert H. 2,932,182.  
McDonough, John J. 2,948,130.  
Page, Albert E., and Curtis. 2,963,887.  
Page, Frank R. 2,949,757.  
Shastany, Theodore E. 2,921,454.  
Sirmay, Julius, and Brinton. 2,943,469.
- Scott, Victor J., and J. C. Dapper, to Avco Mfg. Corp. Noise inverter circuit. 2,945,090, 7-12-60, Cl. 178-7.3.
- Scotty, Clarence B., to Texaco Inc. Electric logging system. 2,960,651, 11-15-60, Cl. 324-1.
- Scourtes, George, to George L. Nankervis Co. Frequency measuring equipment. 2,955,202, 10-4-60, Cl. 250-27.
- Scovel, Max M. Heat exchanger. 2,926,004, 2-23-60, Cl. 257-148.
- Scovil, Henry E. D., and H. Seidel, to Bell Telephone Laboratories, Inc. Power saturable wave guide components. 2,920,292, 1-5-60, Cl. 333-24.
- Scovil, Henry E. D., and H. Seidel, to Bell Telephone Laboratories, Inc. Passive signal intensifier. 2,950,442, 8-23-60, Cl. 330-5.
- Scovill Mfg. Co.: *See*—  
Brieche, Joseph. 2,932,531.  
Carpinella, Michael J. 2,939,194.  
Firing, Osborne. 2,962,921.  
Janes, Edmund D., and Jensen. 2,920,325.  
Monahan, James P. 2,963,047.  
Rinaldi, Nicholas. 2,964,280.  
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Sonntag, Karl F. 2,964,277.  
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Treciokas, Jacob P. 2,953,275.  
Treciokas, Jacob P. 2,961,660.  
Williams, Selden T. 2,966,191.
- Scoville, Donald C., to General Motors Corp. Fuel injection flow control valve. 2,943,847, 7-5-60, Cl. 261-23.
- Scoville, Ray R. Push-in terminal lugs. 2,947,965, 8-2-60, Cl. 339-95.
- Scoville, Thomas N. Tuberosity meter. 2,932,968, 4-19-60, Cl. 73-172.
- Scoville, William E. Apparatus for detecting phase shift. 2,942,186, 6-21-60, Cl. 324-87.
- Scowcroft, Walter: *See*—  
Bohannon, George W., and Scowcroft. 2,953,103.
- Scowen, Frank: *See*—  
Flowers, Thomas H., and Scowen. 2,938,954.
- Scozzafava, Milton V., to Clary Corp. Paper guiding device. 2,921,661, 1-19-60, Cl. 197-133.
- Scrapp, Ernest, & Sons Ltd.: *See*—  
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Gilchrist, Reginald S., Scrapp, and Mattingly. 2,958,921.  
Scrapp, Ernest P. R., and Dobson. 2,946,177.
- Scrapp, Ernest P.: *See*—  
Gilchrist, Reginald S., Scrapp, and Mattingly. 2,958,921.
- Scrapp, Ernest P. R., and A. Dobson, to Ernest Scrapp & Sons Ltd. False twisting machines. 2,946,177, 7-26-60, Cl. 57-77.3.
- Scrapp, Frederick, and P. Forward, to Sydney & E. Scrapp Ltd. Spindle drive arrangement. 2,921,430, 1-19-60, Cl. 57-88.
- Seranton, Charles J., to Allis-Chalmers Mfg. Co. Harvester thresher and straw exhaustor therefor. 2,932,145, 4-12-60, Cl. 56-122.
- Seranton, Charles J., and R. L. Worrell, to Allis-Chalmers Mfg. Co. Rotary separator for harvester threshers. 2,927,694, 3-8-60, Cl. 209-283.
- Scriabine, Igor, to Societe des Usines Chimiques Rhone-Poulenc. Preparation of orotic acid. 2,937,175, 5-17-60, Cl. 260-260.
- Scriabine, Igor, and J. P. M. Bonnart, to Societe des Usines Chimiques Rhone-Poulenc. Preparation of bis-2-(p-hydroxyphenyl)propane. 2,923,744, 2-2-60, Cl. 260-619.
- Scriba, Gottfried: *See*—  
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- Scribner, Albert W. Apparatus for die expressing plastic materials. 2,934,206, 4-26-60, Cl. 207-2.
- Scribner, Albert W., to Royal McBee Corp. High speed punch. 2,946,380, 7-26-60, Cl. 164-111.
- Scribner, Albert W. Metal extrusion. 2,962,164, 11-29-60, Cl. 207-10.
- Scribner, Albert W. Continuous extrusion. 2,964,177, 12-13-60, Cl. 207-2.



- Scribner, Albert W. Indirect metal extrusion. 2,965,228, 12-20-60, Cl. 207-3.
- Scribner, Arthur C., to Ward Leonard Electric Co. Mounting for tubular resistors. 2,931,997, 4-5-60, Cl. 338-315.
- Scripps, James G.: *See*—
- Bates, Uri C., and Bigelow. 2,957,474.
- Scripter, Frank C. Safety for firearm sear. 2,926,447, 3-1-60, Cl. 42-70.
- Scripto, Inc.: *See*—
- Boilerup, Johannes. 2,930,355.
- Liguori, Alfred T. 2,930,356.
- Lockwood, John C. 2,930,354.
- Smith, Blanchard D. 2,929,360.
- Scrivani, Pietro: *See*—
- Pellegrini, Giovanni, Scrivani, and Bugiani. 2,958,595.
- Scriven, William J., and S. J. Howard, to Trico Products Corp. Windshield cleaner. 2,941,230, 6-21-60, Cl. 15-250.21.
- Scrivner, Edith I. Additive well pump. 2,933,042, 4-19-60, Cl. 103-1.
- Scruby, Stanley R., and R. M. Howard, to International Milling Co. Bin. 2,934,223, 4-26-60, Cl. 214-17.
- Scruggs, Jack G., and W. A. H. Huffman, to The Chemstrand Corp. Metal salts of dithiocarbamic acids as catalysts in the production of polyesters. 2,956,985, 10-18-60, Cl. 260-75.
- Scruton, Herbert A.: *See*—
- Faber, Edgar M., Scruton, and Peakes. 2,920,986.
- Pfantsiel, Robert, Pralatoski, and Scruton. 2,936,322.
- Scudder, John A.: *See*—
- Madden, Thomas G., and Scudder. 2,951,523.
- Scudi, John V., D. B. Reinsner, and S. J. Childress, to Wallace & Tiernan Inc. Substituted pyridones. 2,947,754, 8-2-60, Cl. 260-295.5.
- Scudi, John V., D. B. Reinsner, S. J. Childress, and L. A. Walter, to Wallace & Tiernan Inc. Substituted 1-n-amino-phenyl-2-pyridones. 2,947,755, 8-2-60, Cl. 260-206.
- Scuito, Thomas J.: *See*—
- Rosenberg, Jack, Brewer, and Scuito. 2,964,241.
- Scuito, Thomas J., to General Dynamics Corp. Frequency-control system. 2,927,735, 3-8-60, Cl. 235-192.
- Scuito, Thomas J., to General Dynamics Corp. Accumulator. 2,933,249, 4-19-60, Cl. 235-152.
- Scuito, Thomas J., to General Dynamics Corp. High-speed flip-flop circuit arrangement. 2,941,073, 6-14-60, Cl. 250-27.
- Scully, John T. Grip-supporting bath brushes. 2,958,086, 11-1-60, Cl. 15-143.
- Scully-Jones and Co.: *See*—
- Better, Bernard R., and Wharton. 2,963,298.
- Scully, Lawrence J. Cutter control means for cutting recording grooves. 2,948,783, 8-9-60, Cl. 179-100.4.
- Scully, Thomas J., to General Electric Co. Electric circuit interrupter. 2,962,573, 11-29-60, Cl. 200-166.
- Scurlock, Arch C., to Atlantic Research Corp. Flame stabilizer. 2,942,419, 6-28-60, Cl. 60-39.72.
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- McKenney, Henry F., Lieske, Scutt, and Unold. 2,951,639.
- Sea, Arnold L. Hay baler attachment. 2,929,312, 3-22-60, Cl. 100-22.
- Seaborg, Glenn T., to United States of America, Atomic Energy Commission. Complex fluorides of plutonium and an alkali metal. 2,947,601, 8-2-60, Cl. 23-14.5.
- Seaborg, Glenn T., to United States of America, Atomic Energy Commission. Nuclear conversion apparatus. 2,952,601, 9-13-60, Cl. 204-193.2.
- Seaborg, Glenn T., and S. G. Thompson, to United States of America, Atomic Energy Commission. Concentration process for plutonium ions, in an oxidation state not greater than +4, in aqueous acid solution. 2,940,819, 6-14-60, Cl. 23-14.5.
- Seaborg, Glenn T., W. J. Blaedel, and M. T. Walling, Jr., to United States of America, Atomic Energy Commission. Method for separation of plutonium from uranium and fission products by solvent extraction. 2,950,166, 8-23-60, Cl. 23-14.5.
- Seaborg, Glenn T., and S. G. Thompson, to United States of America, Atomic Energy Commission. Concentration and decontamination of solutions containing plutonium values by bismuth phosphate carrier precipitation methods. 2,950,168, 8-23-60, Cl. 23-14.5.
- Seaborg, Glenn T., and A. C. Wahl, to United States of America, Atomic Energy Commission. Electrodeposition of neptunium. 2,951,018, 8-30-60, Cl. 204-1.5.
- Seaborg, Glenn T., and R. W. Stoughton, to United States of America, Atomic Energy Commission. Method of producing U<sup>235</sup>. 2,951,023, 8-30-60, Cl. 204-154.2.
- Seaborn, Douglas K., to Deering Milliken Research Corp. Bobbin. 2,936,965, 5-17-60, Cl. 242-118.6.
- Seaborn, Garland B., Jr.: *See*—
- Fowler, Andrew H., and Seaborn. 2,953,918.
- Seaborn, Joyce E.: *See*—
- Davis, Herbert M., and Seaborn. 2,932,790.
- Seaburg, Hugo W., to The O. M. Edwards, Co., Inc. Hanging arrangement for slidable vehicle doors. 2,963,753, 12-13-60, Cl. 20-22.
- Seager, John H. G. Watch with support strut. 2,954,196, 9-27-60, Cl. 248-117.
- Seago, Alton L., 50% to W. E. Carlton. Combined clamp and well scratcher. 2,936,031, 5-10-60, Cl. 166-173.
- Sealand, Oscar M. Wheel aligning device. 2,921,379, 1-19-60, Cl. 33-203.12.
- Seale, Homer T. Pressure line shut-off valve. 2,923,576, 2-2-60, Cl. 303-30.
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- Kirkpatrick, Willard H., and Seale. 2,941,943.
- Kirkpatrick, Willard H., and Seale. 2,946,747.
- Sealectro Corp.: *See*—
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- Sealey, William C., to Allis-Chalmers Mfg. Co. Cam operated holding in switch. 2,935,877, 5-10-60, Cl. 74-54.
- Sealey, William C., to Allis-Chalmers Mfg. Co. Series parallel connection for regulators using balance coils. 2,959,728, 11-8-60, Cl. 323-43.5.
- Sealion Metal Fabricators: *See*—
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- Pesch, Herman, and Wilcox. 2,934,232.
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- Wilcox, Isaac L. 2,926,812.
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- Klausmann, Milton H., Brucker, and Von Culin. 2,943-769.
- Seaman, Bernard. Automotive tire construction. 2,925,112, 2-16-60, Cl. 152-211.
- Seaman, Lewis T., to General Electric Co. Error compensated directional systems. 2,959,866, 11-15-60, Cl. 33-224.
- Seamark, Lewis M. C. Pipe coupling with cam tightening means. 2,935,342, 5-3-60, Cl. 285-90.
- Seamless Covers, Inc.: *See*—
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- Fulton, James F. 2,936,881.
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- Fjellstedt, Thorsten A., Jones, Kowalski, and Seaquist. 2,948,794.
- Searcy, John H., to Radiation, Inc. MDC-3A regulator. 2,936,413, 5-10-60, Cl. 321-18.
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- Searfoss, Lester U. Treating used submerged arc welding flux. 2,922,585, 1-26-60, Cl. 241-14.
- Searl, Stacy F. Portable bed vibrator. 2,953,128, 9-20-60, Cl. 128-33.
- Searle, Arthur M.: *See*—
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- Bible, Roy H., Jr., and Hoehn. 2,921,956.
- Brown, Edward A., and Cella. 2,925,416.
- Cella, John A. 2,931,808.
- Cella, John A. 2,952,676.
- Colton, Frank B. 2,923,709.
- Colton, Frank B. 2,937,192.
- Colton, Frank B. 2,946,809.
- Cusic, John W., and Sause. 2,926,164.
- Cusic, John W., and Sause. 2,957,870.
- Dodson, Raymond M. 2,933,497.
- Dodson, Raymond M. 2,937,168.
- Dodson, Raymond M. 2,952,681.
- Dodson, Raymond M. 2,964,543.
- Dodson, Raymond M., and Bergstrom. 2,951,857.
- Dodson, Raymond M., and Twelt. 2,924,611.
- Dornfeld, Clinton A. 2,924,615.
- Dornfeld, Clinton A. 2,946,791.
- Goldkamp, Arthur H. 2,947,763.
- Hoehn, Willard M. 2,945,868.
- Hoehn, Willard M. 2,957,011.
- Jiu, James. 2,949,477.
- Jiu, James. 2,950,291.
- Jiu, James, and Mueller. 2,966,487.
- Johns, William F. 2,928,847.
- Johns, William F. 2,944,067.
- Johns, William F. 2,944,068.
- Johns, William F. 2,949,475.
- Johns, William F. 2,957,896.
- Johns, William F., and Mueller. 2,946,785.
- Kalm, Max J. 2,931,812.
- Kalm, Max J. 2,931,813.
- Krimmel, Carl P. 2,965,641.
- Laos, Ivar, and Pappo. 2,933,511.
- Lowrie, Harman S. 2,947,744.



- Searle, G. D., & Co.: *See*—Continued  
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 Schroeder, Elmer F. 2,958,692.  
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- Searle, Robert F., to Arkell and Smiths. Multiwall bag construction. 2,952,399, 9-13-60, Cl. 229-66.  
 Searles, William G., and P. M. Wright, to Corson Bros., Inc. Hydraulic system. 2,954,800, 10-4-60, Cl. 137-620.  
 Sears, Edward C., W. E. Snow, and C. E. Thomas, to American Cast Iron Pipe Co. Electrically conductive pipe joint and gasket. 2,966,539, 12-27-60, Cl. 174-47.  
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 Sears, James G. Tuning fork frequency standard having a blocking coil in energizing circuit. 2,959,746, 11-8-60, Cl. 331-116.  
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- Seaside Oil Co.: *See*—  
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- Seaton, John W. Quadripole magnetic amplifier. 2,929,017, 3-15-60, Cl. 323-48.  
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 Seavey, Frederick R., to Olin Mathieson Chemical Corp. Ammunition. 2,936,709, 5-17-60, Cl. 102-44.  
 Seavey, Frederick R., and J. D. Clark, to Olin Mathieson Chemical Corp. Electric blasting initiators. 2,942,513, 6-28-60, Cl. 86-1.  
 Seavey, Frederick R., to Olin Mathieson Chemical Corp. Take-up mechanism. 2,943,810, 7-5-60, Cl. 242-83.  
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- Seaward, John A.: *See*—  
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- Seawright, Robert M., F. Rotary drilling machines. 2,930,587, 3-29-60, Cl. 255-47.
- Seay, Patrick H.: *See*—  
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- Seay, Perry A., to Reeves Instrument Corp. Tangent computer circuit. 2,948,474, 8-9-60, Cl. 235-197.
- Sebac Nouvelle S.A.: *See*—  
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- Sebald, Joseph H., to Technical Engineered Products, Inc. Multi-unit sample cooler. 2,954,965, 10-4-60, Cl. 257-235.
- Sebardt, Wilhelm, to International Ytong-Stabalite Co. Ltd. Valve of throttle type. 2,930,574, 3-29-60, Cl. 251-170.
- Sebastian, John J. S. Process for carbonizing coal in a laminar gas stream. 2,955,988, 10-11-60, Cl. 202-15.
- Sebek, Oldrick K.: *See*—  
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- Sebel, D., & Co. Ltd.: *See*—  
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- Secombe, Lionel H., Jr.: *See*—  
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- Sechrist, Albert.: *See*—  
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- Secofsky, Abraham. Portable photographic lamp. 2,965,747, 12-20-60, Cl. 240-13.
- Secor, Robert B., and E. S. Peer, to Filtrrol Corp. Method of producing catalysts and method for catalytic cracking. 2,935,463, 5-3-60, Cl. 208-120.
- Secoterm, S. A. de C. V.: *See*—  
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- Security First National Bank of Los Angeles, California, Westwood Village Branch: *See*—  
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- Security Products Mfg. Co. Ltd.: *See*—  
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- Security Storm Lock and Hardware Corp.: *See*—  
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- Sedberry, J. B., Inc.: *See*—  
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- Sedgfield, Hugh B., to The Sperry Gyroscope Co. Ltd. Gyroscopic apparatus. 2,944,425, 7-12-60, Cl. 74-5.
- Sedgfield, Hugh B., to The Sperry Gyroscope Co. Ltd. Gyroscopically stabilized platforms. 2,948,157, 8-9-60, Cl. 74-534.
- Sedgfield, Hugh B., to The Sperry Gyroscope Co. Ltd. Pick-off devices for gyroscopic apparatus. 2,953,027, 9-20-60, Cl. 74-56.
- Sedgfield, Hugh B., to The Sperry Gyroscope Co., Ltd. Integrating systems particularly for use in position-indicating navigation systems. 2,953,303, 9-20-60, Cl. 235-187.
- Sedgfield, Hugh B., and R. Whalley, to The Sperry Gyroscope Co. Ltd. Suspension systems for sensitive elements. 2,939,322, 6-7-60, Cl. 74-5.
- Sedgfield, Hugh B., and R. Lennox-Napier, to The Sperry Gyroscope Co. Ltd. Aircraft navigation apparatus. 2,949,261, 8-16-60, Cl. 244-77.
- Sedgfield, Hugh B., M. L. Jofeh, R. Hadekel, and W. R. Bohnel, to The Sperry Gyroscope Co. Ltd. Automatic control system for aircraft. 2,961,201, 11-22-60, Cl. 244-77.
- Sedlacsik, John, to Interplanetary Research & Development Corp. Electrostatic deposition spray means. 2,966,310, 12-27-60, Cl. 239-15.
- Sedlak, Jaroslav. Building block and the like. 2,951,318, 9-6-60, Cl. 50-72.
- See, Walter G.: *See*—  
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- Seeburg Corp., The: *See*—  
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- Seed, Daniel.: *See*—  
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- Seed, Leslie.: *See*—  
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- Seed, Leslie, to Imperial Chemical Industries Ltd. Ethylene polymerisation. 2,957,860, 10-25-60, Cl. 260-94.9.
- Seefelder, Matthias.: *See*—  
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- Seeger, Beverly. Disposal sanitary receptacle. 2,943,660, 7-5-60, Cl. 150-3.
- Seegert, Neal, to Baso Inc. Burner control apparatus. 2,945,369, 7-19-60, Cl. 67-21.
- Seegert, Neal, to Minnesota Mining and Mfg. Co. Temperature controlled thermocouple junction. 2,963,531, 12-6-60, Cl. 136-4.
- Seegler Corp., The: *See*—  
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- Seegman, Irvin P.: *See*—  
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- Seegrift, Theodore A. Coat hanger. 2,941,705, 6-21-60, Cl. 223-98.
- Seel, Howard J.: *See*—  
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- Seel, Howard J., to Harris-Intertype Corp. Method and means for handling sheets in piles. 2,958,527, 11-1-60, Cl. 271-62.
- Seelbach, Charles W.: *See*—  
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- Seelbach, Charles W., and W. J. G. McCulloch, to Esso Research and Engineering Co. Catalyst and preparation thereof. 2,925,392, 2-16-60, Cl. 252-429.
- Seelbach, Charles W., and L. T. Eby, to Esso Research and Engineering Co. Butene-1 polymerization. 2,964,510, 12-13-60, Cl. 260-93.7.
- Seelbach, Walter C.: *See*—  
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- Seelen, Petrus J. C. Collapsible tube with shut-off device. 2,946,487, 7-26-60, Cl. 222-107.
- Seeler, Charles E.: *See*—  
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- Seeler, Henry. Blower resuscitator. 2,926,659, 3-1-60, Cl. 128-29.



- Seeler, Henry W., to United States of America, Air Force. Breathing mask apparatus. 2,942,602, 6-28-60, Cl. 128-146.
- Seeler, Henry W., to United States of America, Air Force. Pressure compensated inhalation-exhalation valve for pressure breathing mask. 2,954,793, 10-4-60, Cl. 137-64.
- Seeley, Byron L.: *See*—  
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- Seeley, Lauren E., to The H. B. Smith Co., Inc. Combination heating and cooling unit. 2,927,780, 3-8-60, Cl. 257-133.
- Seeley, Leonard H.: *See*—  
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- Seeley, Leonard W., W. S. Roney, L. A. Stevens, and R. R. Vancil, to United States of America, Navy. Aerial target launching technique. 2,947,523, 8-2-60, Cl. 258-1.2.
- Seeley, Paul E.: *See*—  
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- Seeley, Robert D.: *See*—  
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- Seelig, Albert F., Jr., to American Steel Foundries. Railway car suspension. 2,961,974, 11-29-60, Cl. 105-171.
- Seelig, Herman S.: *See*—  
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- Seem, Warren A.: *See*—  
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- Seemuller, John R., to Societe Monsavon-L'Oreal. Coated borohydrides. 2,963,405, 12-6-60, Cl. 167-87.1.
- Seese, Geraldine E. Bandaging garment. 2,926,665, 3-1-60, Cl. 128-155.
- SeEVERS, Delmar O., to California Research Corp. Seismic signal analysis with cathode ray storage tube. 2,922,070, 1-19-60, Cl. 315-9.
- Sefcik, Robert.: *See*—  
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- Sefried, Harry H., II, to The High Standard Mfg. Corp. Trigger actuated cylinder stop for revolvers. 2,958,151, 11-1-60, Cl. 42-67.
- Sefried, Harry H., II, to The High Standard Mfg. Corp. Take-down device for firearms. 2,958,974, 11-8-60, Cl. 42-75.
- Sefried, Harry H., II. Self-contained action unit for firearms of the breakdown type. 2,961,792, 11-29-60, Cl. 42-41.
- Seft, Max M.: *See*—  
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- Segal, Arthur R., to North American Products Corp. Method of grinding reliefs on cutters. 2,958,240, 11-1-60, Cl. 76-112.
- Segal, George J. Self-locking caster. 2,942,290, 6-28-60, Cl. 16-35.
- Segal, Leon, L. Loeb, and C. M. Conrad, to United States of America, Agriculture. Process of treating native cellulose with a liquid alkyleneopolyamine and a textile resin. 2,955,014, 10-4-60, Cl. 8-115.6.
- Segal, Samuel. Staple remover. 2,940,727, 6-14-60, Cl. 254-28.
- Segall, Gordon H.: *See*—  
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- Segan, Samuel N. Hat. 2,960,697, 11-22-60, Cl. 2-7.
- Segard, Christian P., to Wisconsin Alumni Research Foundation. Treatment of ketosis with ACTH and aspirin. 2,927,884, 3-8-60, Cl. 167-53.
- Segel, Edward, to J. E. Siebel Sons' Co., Inc. Foaming beverages. 2,943,942, 7-5-60, Cl. 99-48.
- Segel, Edward, and E. J. Wye, to J. E. Siebel Sons' Co., Inc. Foaming beverages. 2,942,978, 6-28-60, Cl. 99-48.
- Segel, Edward, and E. J. Wye, to J. E. Siebel Sons' Co., Inc. Malt beverages. 2,942,979, 6-28-60, Cl. 99-48.
- Segel, Edward, and E. J. Wye, to J. E. Siebel Sons' Co., Inc. Foaming malt beverages. 2,942,980, 6-28-60, Cl. 99-48.
- Segelhorst, August V., to S. R. Bowen Co. Bumper safety joint. 2,919,900, 1-5-60, Cl. 255-28.
- Seger, Fritz.: *See*—  
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- Seger, Fritz O., to Westinghouse Air Brake Co. Fluid pressure brake apparatus embodying improved brake controlling valve. 2,940,799, 6-14-60, Cl. 303-35.
- Seger, Fritz O., to Westinghouse Air Brake Co. Brake cylinder piston overtravel indicator. 2,960,961, 11-22-60, Cl. 116-127.
- Segerstrom, Henry C., and W. J. Andrews, to International Paper Co. Carton sealing machine. 2,932,927, 4-19-60, Cl. 53-64.
- Segesman, Francis F., to Schlumberger Well Surveying Corp. Electrical well logging. 2,922,102, 1-19-60, Cl. 324-1.
- Segesman, Francis F., to Schlumberger Well Surveying Corp. Well logging systems. 2,925,551, 2-16-60, Cl. 324-1.
- Seglem, Clifford E., to United States of America, Navy. Igniter. 2,920,450, 1-12-60, Cl. 60-39.82.
- Seglin, Leonard, and H. S. Winnicki, to Food Machinery and Chemical Corp. Method for preparing dense sodium carbonate from crude trona. 2,962,348, 11-29-60, Cl. 23-31.
- Sego, Robert F. Pump for insulated jug. 2,951,620, 9-6-60, Cl. 222-385.
- Segrave, Patrick A.: *See*—  
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- Segro, Nicholas R., and J. H. Daniel, Jr., to American Cyanamid Co. Graft polymerization of certain esters of acrylic acid with cellulose substrate. 2,955,015, 10-4-60, Cl. 8-116.
- Segur, Asa B. Hacking apparatus and method. 2,934,222, 4-26-60, Cl. 214-8.
- Segur, Asa B. Apparatus for transferring ceramic units. 2,954,134, 9-27-60, Cl. 214-41.
- Segur, Asa B., and H. G. Esch, to Morris Clay Products Co. Method of hacking brick. 2,944,687, 7-12-60, Cl. 214-152.
- Segur, Asa B., and H. G. Esch, to Morris Clay Products Co. Hacking machine. 2,955,717, 10-11-60, Cl. 214-6.
- Segura, Joseph N.: *See*—  
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- Segura, Marnell A.: *See*—  
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- Sehn, Francis J., and M. M. Clemons; said Clemons assor. to said Sehn. Material handling device. 2,943,750, 7-5-60, Cl. 214-1.
- Sehn, William E., to General Motors Corp. Weather sealing member structure. 2,938,245, 5-31-60, Cl. 20-16.
- Sehn, William E., and J. H. Wernig, to General Motors Corp. Weather strip structure. 2,919,478, 1-5-60, Cl. 20-69.
- Sehon & Cie. Gesellschaft mit beschränkter Haftung.: *See*—  
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- Seibel, Alfred F. Vaporizing and mixing unit. Re. 24,771, 1-19-60, Cl. 239-427.
- Seibert, Charles F., to Owens-Illinois Glass Co. Conveyor apparatus. 2,921,664, 1-19-60, Cl. 198-32.
- Seibert, Harvey E. Sanitary disposable dust pan. 2,924,841, 2-16-60, Cl. 15-257.9.
- Seibert, Ralph S., Jr., to Radio Corp. of America. Article orienting and stacking device. 2,948,419, 8-9-60, Cl. 214-66.
- Seidel, Hans.: *See*—  
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- Seidel, Harold.: *See*—  
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- Seidel, Harold, to Bell Telephone Laboratories, Inc. Wave guide filter. 2,963,661, 12-6-60, Cl. 333-9.
- Seidel, Johannes, to Siemens-Reiniger-Werke Aktiengesellschaft. X-ray apparatus. 2,925,499, 2-16-60, Cl. 250-90.
- Seidel, Johannes, and L. Meier, to Siemens-Reiniger-Werke Aktiengesellschaft. High-tension barrier-layer rectification unit. 2,962,640, 11-29-60, Cl. 317-234.
- Seidel, Max, to Gesellschaft für Linde's Elismaschinen Aktiengesellschaft. Process for decomposing hydrogen-containing gas mixtures. 2,962,867, 12-6-60, Cl. 62-20.
- Seidel, Robert H., H. H. W. Rietzel, and A. R. Fiedler, to Georg Wiegand & Sohne. Automatic record changer for phonographs. 2,960,340, 11-15-60, Cl. 274-10.
- Seiden, Herman L., to Lectromatic Devices, Inc. Resetting measuring control. 2,938,086, 5-24-60, Cl. 200-38.
- Seiden, Richard M., to Worthington Corp. Mechanical coupling. 2,954,991, 10-4-60, Cl. 287-52.8.
- Seidl, Lois, to American Enka Corp. Cordforming. 2,958,177, 11-1-60, Cl. 57-58.3.
- Seidler, Leon S. Cigarette packages. 2,935,187, 5-3-60, Cl. 206-41.5.
- Seidler, Robert L. Vent valve. 2,919,707, 1-5-60, Cl. 137-39.
- Seidman, Jack B. Lighting fixture. 2,964,616, 12-13-60, Cl. 240-51.11.
- Seidman, Richard L. Electrically heated wall for a spray fog testing chamber. 2,957,972, 10-25-60, Cl. 219-19.
- Seidman, Sol H. Load transfer system. 2,936,873, 5-17-60, Cl. 198-76.
- Seidner, Orville R., to The Garrett Corp. Vehicle propulsion apparatus. 2,962,934, 12-6-60, Cl. 89-1.7.
- Seifert, Harry E.: *See*—  
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- Seifert, Werner.: *See*—  
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- Seiferth, Oscar E., and G. M. Austin, to Oscar Mayer & Co., Inc. Food package. 2,938,801, 5-31-60, Cl. 99-174.
- Seifried, Lyle W., and D. L. Erickson, to Addressograph-Multigraph Corp. Printing plates. 2,953,988, 9-27-60, Cl. 101-369.
- Seifried, Paul E., and S. J. Nocek, to Bendix Aviation Corp. Instrument electrical plug. 2,935,724, 5-3-60, Cl. 339-184.
- Seifried, Paul E., and W. U. Henrich, to The Bendix Corp. Electrical fault warning device for a remote electrically operated condition indicator. 2,950,460, 8-23-60, Cl. 340-27.
- Seifried, Paul E., and C. E. Hurlburt, to The Bendix Corp. Directional gyro having improved means for caging a directional signal transmitting synchro to a null signal position. 2,951,378, 9-6-60, Cl. 74-5.6.
- Seifter, Eli, to Monsanto Chemical Co. Improving palatability of fruit and vegetables by treating plants with synthetic sweetening agent. 2,921,409, 1-19-60, Cl. 47-58.
- Seifter, Eli, and N. Phillips, to Monsanto Chemical Co. Iron solubilizing process. 2,953,449, 9-20-60, Cl. 71-1.



- Seifter, Joseph, R. S. Hanslick, and M. E. Freed, to American Home Products Corp. Nicotinic acid ester of certain hydroxyalkyleneiminodiacetamides. 2,945,041, 7-12-60, Cl. 260-295.5.
- Seigle, Robert L. Supply holder. 2,961,185, 11-22-60, Cl. 242-130.
- Seigle, William. Fishing float. 2,924,905, 2-16-60, Cl. 43-17.
- Seigle, William. Fishing float. 2,933,844, 4-26-60, Cl. 43-17.
- Seigle, William R., to General Electric Co. Remote controlled color-coding apparatus. 2,924,195, 2-9-60, Cl. 118-9.
- Seller, Dayton A. Cap cover stretcher. 2,935,237, 5-3-60, Cl. 223-25.
- Seller, Ernst E. Liquid valves. 2,929,335, 3-22-60, Cl. 103-150.
- Seiler, Heinz: *See*—  
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- Selly, Alec H., to C.A.V. Ltd. Electrical engine-starting motors. 2,934,656, 4-26-60, Cl. 290-38.
- Seim, Maynard C., to National Steel Corp. Nailable flooring. 2,955,687, 10-11-60, Cl. 189-34.
- Seipt, Willard R., to Keasbey & Mattison Co. Composite building unit. 2,946,158, 7-26-60, Cl. 50-413.
- Seirig, Alfred K., A. Enders, and H. J. Strunck, to Wernicke & Co. K.G. Adjusting device for grinding discs. 2,948,997, 8-16-60, Cl. 51-165.
- Seismograph Service Corp.: *See*—  
Hawkins, James E. 2,943,320.  
Hawkins, James E. 2,946,393.  
Hawkins, James E. 2,965,837.  
Hawkins, James E. 2,966,627.  
Hunsicker, William R. 2,943,319.  
Johns, Earl. 2,965,031.  
Jones, Dale G. 2,930,037.  
Koepfel, Beverly W. 2,929,060.  
Palmer, Winslow. Re. 24,891.  
Wilcox, Stanley W. 2,928,177.  
Wilcox, Stanley W. 2,928,178.
- Selsmos G.m.b.H.: *See*—  
Beuermann, Wilhelm. 2,949,974.
- Seltz, Clarence A. Adjustable center line scribe. 2,958,133, 11-1-60, Cl. 33-42.
- Seltz, Clyde R.: *See*—  
MacGlashan, William F., Jr., Margraf, and Seltz. 2,926,694.
- Seltz & Co., and Parechoc S.A.: *See*—  
Matthey, Roger, and Schlatter. 2,958,998.
- Seltz, Georg I.: *See*—  
Schulz, Walter E., and Seltz. 2,944,261.
- Seltz, Georg, and K. Kritzer, to E. Merck Aktiengesellschaft, Darmstadt. Derivatives of dihydroergotamine. 2,947,751, 8-2-60, Cl. 260-285.5.
- Seltz, John A., Jr. 50% to J. C. Miner. Viscosimeter. 2,953,016, 9-20-60, Cl. 73-60.
- Seltz, Joseph K. Combination card and money case. 2,955,633, 10-11-60, Cl. 150-35.
- Seltz, Karl: *See*—  
Fasciati, Alfred, Gunst, Riat, and Seltz. 2,945,021.  
Fasciati, Alfred, Gunst, Riat, and Seltz. 2,945,022.
- Seltz, Karl, and H. Riat, to Ciba Ltd. Metalliferous azo-dyes. 2,963,472, 12-6-60, Cl. 260-146.
- Selwald, Robert J.: *See*—  
Burckhalter, Joseph H., and Selwald. 2,937,186.
- Selz, Edward A., to Hatfield Industries, Inc. Stacking rack for pallets. 2,926,792, 3-1-60, Cl. 211-148.
- Sejourner, Jacques, to Compagnie du Filage des Metaux et des Joints Curty. Hot extrusion of metals. 2,955,709, 10-11-60, Cl. 207-10.
- Sekaran, Kalyanaramaiyer, C., and J. E. Morris, to The British Rubber Producers' Research Assn. Process of preserving freshly harvested rubber latex. 2,932,678, 4-12-60, Cl. 260-820.
- Sekella, Youston, to The Bendix Corp. Rotary bobbin holder. 2,954,184, 9-27-60, Cl. 242-130.2.
- Sekella, Youston, to The Bendix Corp. Impact detonating fuze with arming delay. 2,963,974, 12-13-60, Cl. 102-84.
- Sekera, Ales, K. Palat, A. Borovansky, and J. Sova, to Spafa, spolene farmaceuticke zavody, narodni podnik. Method of manufacturing pharmacodynamically effective basic esters of alkoxy substituted mono- and diphenyl carbamic acids. 2,933,519, 4-19-60, Cl. 260-472.
- Seki, Hideo, to Iwasaki Tsushinki Kabushiki Kaisha. Multiplex telephone system. 2,941,038, 6-14-60, Cl. 179-15.
- Sekizawa, Yasuharu: *See*—  
Arishima, Masao, and Sekizawa. 2,949,406.  
Arishima, Masao, and Sekizawa. 2,949,407.
- Sekul, Antonio A., and H. G. Sellers, Jr., to Cities Service Research and Development Co. Cycloolefin production using cycloaliphatic diene catalyst activators. 2,964,575, 12-13-60, Cl. 260-666.
- Selas Corp. of America: *See*—  
Buckholdt, Robert E. 2,947,526.  
Henwood, James B., and Wood. 2,920,691.  
Hess, Frederic O. 2,933,425.  
Kammermeyer, Karl. 2,966,235.  
Turner, Charles A. 2,941,910.  
Turner, Charles A., Jr. 2,938,820.  
Von Ludwig, Davidlee. 2,920,362.  
Williams, John R., and Shute. 2,960,980.
- Selbe, Rexford L., and R. E. Jacobson, to United States Gypsum Co. Gypsum composition. 2,957,774, 10-25-60, Cl. 106-109.
- Selby, Elmer E., Jr., W. L. Plummer, and E. A. Lederer, to Westinghouse Electric Corp. Settling of luminescent screens. 2,921,863, 1-19-60, Cl. 117-33.5.
- Selby, Myron C., and L. F. Behrent, to United States of America, Commerce. Attenuator-thermoelectric high-frequency voltmeter. 2,933,684, 4-19-60, Cl. 324-95.
- Selden, Irving H. Hydraulic power transmissions. 2,939,560, 6-7-60, Cl. 192-58.
- Seldon, George E. Constant level mechanism for carburetors. 2,923,313, 2-2-60, Cl. 137-408.
- Seler, Yuskel, to Admiral Corp. Volume control circuit. 2,930,000, 3-22-60, Cl. 330-145.
- Seley, Earl T., to General Motors Corp. Bolster friction snubbing device. 2,927,540, 3-8-60, Cl. 105-197.
- Self-Changing Gears Ltd.: *See*—  
Miller, Albert A. 2,929,272.  
Miller, Albert A. 2,950,632.
- Self, Richard E. Oscillating actuator. 2,951,470, 9-6-60, Cl. 121-99.
- Self, Richard E., to C. L. Norsworthy, Jr. Oscillatory actuator. 2,966,144, 12-27-60, Cl. 121-99.
- Self, Walter C. Toy. 2,934,855, 5-3-60, Cl. 46-114.
- Self Winding Clock Co., Inc.: *See*—  
Gould, Merle E., and Di Cecio. 2,941,717.
- Selfix Products Co.: *See*—  
Loui, Philip J., and Motyka. 2,966,437.
- Selgin, Paul J. Device for identification of engraved documents. 2,964,641, 12-13-60, Cl. 250-219.
- Sellger, Rudolf R., to Bendix Aviation Corp. Aircraft controller arrangement. 2,923,501, 2-2-60, Cl. 244-77.
- Seliger, Rudolf R., A. C. Diani, and R. I. Meyers, to The Bendix Corp. Altitude control system for aircraft. 2,961,200, 11-22-60, Cl. 244-77.
- Seliger, Victor H.: *See*—  
McKenney, Henry F., and Seliger. 2,949,779.
- Selgman, Hans. Apparatus for bloodless phlebotomy. 2,959,171, 11-8-60, Cl. 128-325.
- Seligman, Hans, and S. H. Drake. Sphygmomanometer. 2,952,253, 9-13-60, Cl. 128-205.
- Selke, Arthur L., to Ford Motor Co. Radiator soldering. 2,959,844, 11-15-60, Cl. 29-157.3.
- Selker, Milton L., to Cleveite Corp. Method of producing small semiconductor silicon crystals. 2,935,386, 5-3-60, Cl. 23-301.
- Sell, John, Jr., R. W. Anderson, and L. H. Murray, to Revere Corp. of America. Method of making insulated wire. 2,945,265, 7-19-60, Cl. 18-59.
- Sellati, Jack. Lawn sprinkler system attachment. 2,944,561, 7-12-60, Cl. 137-268.
- Selldorff, John T.: *See*—  
Collins, Samuel C., Robinson, and Selldorff. 2,951,346.
- Selle, Raymond M., to California Institute Research Foundation. Method of identifying sour orange rootstock. 2,926,260, 2-23-60, Cl. 250-71.
- Selleck, Robert W.: *See*—  
Petersen, Gerald A. M., Goode, and Selleck. 2,958,478.
- Selleck, Robert W. Kite string traverse device. 2,944,775, 7-12-60, Cl. 244-155.
- Seller, Emma E. Surgical brassiere. 2,953,133, 9-20-60, Cl. 128-479.
- Sellers, Frederick B.: *See*—  
Rees, Harry V., Ludeman, and Sellers. 2,942,959.
- Sellers, Frederick B., to Texaco Development Corp. Hydrocarbon conversion process. 2,963,348, 12-8-60, Cl. 23-225.
- Sellers, Henry G., Jr.: *See*—  
Sekul, Antonio A., and Sellers. 2,964,575.
- Sellers, Jack D., and R. J. Matt. Announcing system. 2,920,147, 1-5-60, Cl. 179-100.2.
- Sellers, Joseph, & Son Ltd.: *See*—  
Tempest, Ernest and G. H. 2,939,183.
- Sellers Mfg. Co., Inc.: *See*—  
Mull, William C. 2,936,569.
- Sellers, William N., to American Cyanamid Co. Drying apparatus. 2,931,107, 4-5-60, Cl. 34-114.
- Sellet, Lucien, to Jacques Wolf & Co. Process for the production and use of novel tanning agents and products produced by such process. 2,944,046, 7-5-60, Cl. 260-67.6.
- Sellinger, Burton, to Colgate-Palmolive Co. Dispensing container. 2,953,304, 9-20-60, Cl. 239-322.
- Sellite, Ralph J. W.: *See*—  
Taylor, John E., and Sellite. 2,953,031.
- Sellman, Albert H., R. H. Park, R. W. Wallace, and C. A. Hobbs. Hydrostat mechanism. 2,953,281, 11-1-60, Cl. 102-18.
- Sellner, John W. Combined seat and exerciser. Re. 24,762, 1-5-60, Cl. 155-45.
- Sellner, John W. Motor operated body exerciser. 2,931,354, 4-5-60, Cl. 128-25.
- Sellner, John W. Exercise and massage device. 2,951,479, 9-6-60, Cl. 128-33.
- Sellon, Raymond N., Jr., to Arvin Industries, Inc. Supports for ironing tables. 2,944,354, 7-12-60, Cl. 38-12.
- Sells, Harry G., 1/2 to V. E. Davis. Magnetic switch. 2,924,683, 2-9-60, Cl. 200-87.
- Selman, Jan: *See*—  
Bruin, Pieter, Oosterhof, and Selman. 2,921,923.
- Selmer, Ernst S., to Burroughs Corp. Electronic adder. 2,947,479, 8-2-60, Cl. 235-169.



- Selnau, Elmer W., to The Wiremold Co. Grounding clamp and connector for abutting wire ducts. 2,937,227, 5-17-60, Cl. 174-84.
- Selock, Dean P., to Roto Wrap Machine Corp. Packaging machine. 2,923,111, 2-2-60, Cl. 53-29.
- Selonek, Lester. Toy combination crib and chair. 2,941,580, 6-21-60, Cl. 155-44.
- Selsted, Walter T.: *See*—  
Schoebel, Konrad W., and Selsted. 2,948,488.
- Selsted, Walter T., and H. W. Lindsay, to Ampex Corp. Multiple channel head assembly. 2,921,143, 1-12-60, Cl. 179-100.2.
- Selsted, Walter T., and J. A. Dinsmore. Braking means for magnetic tape apparatus. 2,923,380, 2-2-60, Cl. 188-166.
- Seltzer, Edward, to Thomas J. Lipton, Inc. Process for preparing quick-cooking barley. 2,944,904, 7-12-60, Cl. 99-80.
- Seltzer, Edward, and F. A. Saporito, to Thomas J. Lipton, Inc. Method of making a tea extract. 2,927,860, 3-8-60, Cl. 99-77.
- Seltzer, Robert E., to The American Baler Co. Hydraulically operated baling mechanism. 2,938,451, 5-31-60, Cl. 100-4.
- Selvaag, John A.: *See*—  
Frohman, Stanley H., Rowe, and Selvaag. 2,947,452.
- Selwitz, Charles M.: *See*—  
Franke, Norman W., Selwitz, and Whitaker. 2,945,050.  
Marr, Ronald L., and Selwitz. 2,960,519.
- Selyem, Edwin J.: *See*—  
Carroll, John P., Mazzarines, Selyem, and Williams. 2,955,845.
- Selzer, Clarence F.: *See*—  
Ebert, Max E., and Selzer. 2,949,176.
- Selzer, John, to International Harvester Co. Cog wheel construction. 2,961,856, 11-29-60, Cl. 64-27.
- Sem, Mathias O., to Elektrokemisk A/S. Apparatus and method for collecting gas from aluminum furnaces. 2,943,985, 7-5-60, Cl. 204-67.
- Sem, Mathias O., and F. C. Collin, to Elektrokemisk A/S. Collection of gas from furnace for electrolytic smelting production of aluminium. 2,947,673, 8-2-60, Cl. 204-67.
- Sem, Norbert V., and J. E. Lynott, to General Motors Corp. Differential gear reducer. 2,924,998, 2-16-60, Cl. 74-801.
- Sem, Robert J.: *See*—  
Finley, John R., and Sem. 2,925,002.
- Semanek, Joseph T., to American Telephone and Telegraph Co. Teletypewriter switching system. 2,955,151, 10-4-60, Cl. 178-2.
- Semar, Claud S.: *See*—  
Campbell, David D., and Semar. 2,947,025.  
Leslie, James D., Louton, and Semar. 2,939,513.  
Schamel, Clyde H., and Semar. 2,963,075.
- Semb, Joseph, and J. R. Vaughan, Jr., to American Cyanamid Co. Substituted piperazines and method of preparing the same. 2,943,090, 6-28-60, Cl. 260-268.
- Semchysen, Marion: *See*—  
Timmons, George A., and Semchysen. 2,960,403.
- Semchysen, Marion, to American Metal Climax, Inc. High temperature alloy. 2,947,624, 8-2-60, Cl. 75-176.
- Seme, Jean. Method of and device for heat-insulating piping for the long-distance conveyance of heating fluids. 2,923,650, 2-2-60, Cl. 154-44.
- Semel, David, to Gilfillan Bros. Inc. Demodulator-modulator. 2,962,661, 11-29-60, Cl. 328-31.
- Semicon Inc.: *See*—  
Weise, Erwin K. 2,948,799.
- Semmel, Max, to Allied Elastic Braid Corp. Elastic braid made of both dull and bright threads. 2,960,904, 11-22-60, Cl. 87-2.
- Semmens, Peter W. B., to Imperial Chemical Industries Ltd. Quaternary phosphonium polyphosphates. 2,931,835, 4-5-60, Cl. 260-606.5.
- Semmens, Peter W. B., and J. D. Summers-Smith, to Imperial Chemical Industries Ltd. Lubricant composition. 2,945,814, 7-19-60, Cl. 252-49.9.
- Semon, Howard W.: *See*—  
Vogt, Charles C., and Semon. 2,947,249.
- Semon, Howard W., to United States of America, Navy. Method of producing controlled fragmentation warheads. 2,933,799, 4-26-60, Cl. 29-1.21.
- Semon, Howard W. Arming device for a mine. 2,960,030, 11-15-60, Cl. 102-16.
- Semon, Lawrence J. Monitor control unit. 2,952,744, 9-13-60, Cl. 179-42.
- Semones, Donald E.: *See*—  
McCallum, John, Clifford, and Semones. 2,929,860.
- Simple, Robert E., and R. L. Pitzer, to Edcliff Instruments. Electric contact. 2-952,827, 9-13-60, Cl. 338-183.
- Simple, Robert J., to Fenwal Laboratories, Inc. Therapeutic fluid sampling means. 2,955,595, 10-11-60, Cl. 128-214.
- Senay, Joseph E. Fluorescent lamp attachment for a ladder. 2,942,830, 6-28-60, Cl. 248-201.
- Senco Products, Inc.: *See*—  
Jullifs, Albert G. 2,954,009.
- Senckel, Karlheinz. Method and device for mixing gasoline and air in cylinders of internal combustion engines. 2,950,706, 8-30-60, Cl. 123-32.
- Senco Products, Inc.: *See*—  
Jullifs, Albert G. 2,940,081.  
Jullifs, Albert G. 2,943,327.
- Sendoykas, Jack J. Fluid cylinder and piston assembly. 2,921,561, 1-19-60, Cl. 121-38.
- Sendzimir, Bertha M.: *See*—  
Sendzimir, Tadeusz. 2,932,997.
- Sendzimir, Tadeusz, 3/40 to T. and B. M. Sendzimir, trustees (under 3 agreements) and 3/40 to T. Sendzimir. Dual drive planetary reducing mills. 2,932,997, 4-19-60, Cl. 80-38.
- Seneca Falls Machine Co.: *See*—  
Eisengrein, Robert H. 2,939,368.  
Rainey, Bernard J., and Smith. 2,927,703.  
Rainey, Bernard J., and Smith. 2,961,104.
- Senft, Harvey E., to Alco Products, Inc. Erector-launching apparatus. 2,937,574, 5-24-60, Cl. 89-1.7.
- Seng Co., The: *See*—  
Fox, Martin. 2,939,156.  
Fox, Martin. 2,964,760.  
Fox, Martin, and Buher. 2,960,699.
- Seng, James H. Adjustable device for mounting for agricultural implements. 2,922,480, 1-26-60, Cl. 172-656.
- Senger, Frank A., to Ortho Pharmaceutical Corp. Dispensing container. 2,925,100, 2-16-60, Cl. 141-27.
- Senger, Werner I. Stroboscopic determination of angle of unbalance in rotary workpieces. 2,944,424, 7-12-60, Cl. 73-466.
- Senglet, Serge, to Societe Genevoise d'Instruments de Physique. Arrangement for defining accurately the longitudinal position of a quill. 2,941,446, 6-21-60, Cl. 88-24.
- Senior, William H., and M. E. Stangl, to Eitel-McCullough, Inc. Tube having planar electrodes. 2,941,109, 6-14-60, Cl. 313-250.
- Senior, William J., to Automotive Products Co. Ltd. Control valves for liquid pressure control systems. 2,930,403, 3-29-60, Cl. 137-623.
- Senior, William J., to Automotive Products Co. Ltd. Hatchway covers. 2,955,652, 10-11-60, Cl. 160-183.
- Senko, Fred: *See*—  
Johnson, Theodore B., and Senko. 2,941,909.
- Senkowski, Alexander, to Massey-Harris-Ferguson (Sales) Ltd. Tractor differential gear lock-out device. 2,965,181, 12-20-60, Cl. 172-3.
- Senn, Otto: *See*—  
Merian, Ernest, Nicolaus, and Senn. 2,936,319.
- Senn, Otto, H. Uehlinger, and W. Wehrli, to Sandoz Ltd. Monoazo dyestuffs and their metal complex compounds. 2,928,823, 3-15-60, Cl. 260-146.
- Senne, Edgar P., to Electrolux Corp. Combination carpet sweeper and vacuum cleaner. 2,960,714, 11-22-60, Cl. 15-349.
- Sennet, Edith L.: *See*—  
Levkoff, David. 2,936,943.  
Levkoff, David. 2,944,720.  
Levkoff, David. 2,949,220.
- Sennett, Morgan B., to De Laval Steam Turbine Co. Screw pumps or motors. 2,924,181, 2-9-60, Cl. 103-128.
- Sennett, Roy S., to North American Phillips Co. Inc. Method of sealing gas-tight enclosures. 2,951,321, 9-6-60, Cl. 53-22.
- Sennewald, Kurt, F. Pohl, W. Vogt, L. Strle, and H. Glaser, to Knapsack-Greisheim Aktiengesellschaft. Process for the manufacture of pure chloroprene. 2,938,060, 5-24-60, Cl. 260-655.
- Sennhauser, George J.: *See*—  
Browne, Kenneth A., Burke, and Sennhauser. 2,925,791.
- Sennholtz, Charles E. Two-piece tooth for excavating apparatus. 2,925,673, 2-23-60, Cl. 37-142.
- Sennholtz, Charles E. Impact hammer with removable wear member. 2,927,739, 3-8-60, Cl. 241-197.
- Senning, Ake, and P. A. Astradsson, to Svenska Aktiebolaget Gasaccumulator. Control arrangement in a pump having a pump chamber of periodically variable volume. 2,961,965, 11-29-60, Cl. 103-37.
- Senogas Corp.: *See*—  
Carroll, Manly E., Sr., M. E. Carroll, Jr., and Morgan. 2,929,463.
- Senoh, Saburo: *See*—  
Murakami, Masuo, and Senoh. 2,946,816.
- Senseney, George, to American Machine and Metals, Inc. Non-linear servosystem adapted for atmospheric altitude measurement. 2,927,257, 3-1-60, Cl. 318-31.
- Sensiper, Samuel, to Hughes Aircraft Co. Traveling-wave tube. 2,930,927, 3-29-60, Cl. 315-3.5.
- Senstad, Paul D.: *See*—  
Berkman, John W., Jones, and Senstad. 2,927,582.
- Sentz, Lemuel E., and J. J. Brosky, to American Cyanamid Co. Method of sealing spirally wound dynamite containers. 2,930,275, 3-29-60, Cl. 86-1.
- Sepavich, Victor F.: *See*—  
Paul, Frederick W., and Sepavich. 2,962,056.
- Sepavich, Victor F., to Crompton & Knowles Corp. Pattern chain links for looms. 2,933,108, 4-19-60, Cl. 139-333.
- Sepmeyer, Ludwig W. Means for measuring the root mean square value of a complex electric wave. 2,947,935, 8-2-60, Cl. 323-75.
- Sepp, Oscar W., Jr., to M. Steinthal & Co., Inc. Rotating parachute. 2,949,266, 8-16-60, Cl. 244-145.
- Sepp, Oscar W., Jr., to M. Steinthal & Co., Inc. Parachute opening inducer. 2,960,296, 11-15-60, Cl. 244-149.
- Sepper, Robert. Article of furniture. 2,961,281, 11-22-60, Cl. 312-228.
- Seppola, Asle. Adjustable link-jaw clamping wrench. 2,932,226, 4-12-60, Cl. 81-65.



- Seragnoli, Ariosto. Mechanism for distributing and feeding articles into a machine. 2,946,425, 7-26-60, Cl. 198-30.
- Seragnoli, Ariosto. Devices for packing articles. 2,954,655, 10-4-60, Cl. 53-234.
- Seraphin, Bernhard: *See*—
- Plust, Heinz G., and Seraphin. 2,940,878.
- Serdar, Paul E. Food package. 2,965,496, 12-20-60, Cl. 99-171.
- Sereno, Charles A., to Air Associates, Inc. Quick release buckle. 2,964,815, 12-20-60, Cl. 24-75.
- Sergan, Anthony J., to Sergan Hydraulics, Inc. Hydraulically actuated wrench. 2,961,904, 11-29-60, Cl. 81-60.
- Sergan Hydraulics, Inc.: *See*—
- Sergan, Anthony J. 2,961,904.
- Sergovic, John A., to The Burns & Russell Co. Pipe and method of making same. 2,962,052, 11-29-60, Cl. 138-68.
- Serkland, Fridtjof K.: *See*—
- Mathiesen, James C., Serkland, and Stark. 2,953,924.
- Serio, Anthony W. Receptacle and cover therefor. 2,944,691, 7-12-60, Cl. 215-63.
- Serna, Alex. Single adjustment variable ratio pantograph. 2,920,391, 1-12-60, Cl. 33-25.
- Serner, Herbert E. Entrainment separator. 2,946,401, 7-26-60, Cl. 183-110.
- Sernitz, Paul, and E. Hodapp, to Demag-Elektrometallurgie G.m.b.H. Connector for a tiltable electrode furnace. 2,944,099, 7-5-60, Cl. 13-10.
- Serniuk, George E., to Esso Research and Engineering Co. Chemical modification of rubbery copolymers. 2,952,657, 9-13-60, Cl. 260-15.
- Serniuk, George E., and C. E. Morrell, to Esso Research and Engineering Co. Hydrocarbon isomerization process and conversion catalyst. 2,934,579, 4-26-60, Cl. 260-683.75.
- Serniuk, George E., and F. P. Baldwin, to Esso Research and Engineering Co. Pneumatic tire. 2,952,291, 9-13-60, Cl. 152-330.
- Serniuk, George E., D. L. Cottle, and T. Lemiszka, to Esso Research and Engineering Co. Process for halogenating copolymers. 2,965,620, 12-20-60, Cl. 260-85.3.
- Serniuk, George E., D. L. Cottle, and T. Lemiszka, to Esso Research and Engineering Co. Process for halogenating rubbery copolymers. 2,965,621, 12-20-60, Cl. 260-85.3.
- Serniuk, Walter, to Sylvania Electric Products Inc. Adjustable slot antenna. 2,960,694, 11-15-60, Cl. 343-768.
- Seron, Surem M. Lanyard. 2,947,456, 8-2-60, Cl. 224-5.
- Serra, Piero. Spindle for spinning and twisting machines with hollow rod for liquid lubrication of rotating parts. 2,952,966, 9-20-60, Cl. 57-134.
- Serrao, Gregory R.: *See*—
- Bury, Nellie V., Serrao, and Koval. 2,946,493.
- Serrell, Peter V. H.: *See*—
- Vice, Charles L., and Serrell. 2,947,067.
- Serrell, Robert, to Radio Corp. of America. Magnetic recording. 2,921,989, 1-19-60, Cl. 179-2.
- Serrell, Robert, to Radio Corp. of America. Function generator. 2,925,220, 2-16-60, Cl. 235-197.
- Serriades, Constantine A., Jet-propelled propeller blade. 2,927,647, 3-9-60, Cl. 170-135.4.
- Serriades, Constantine A. Ram jet propeller. 2,942,672, 6-28-60, Cl. 170-135.4.
- Serruys, Max Y. A. M., and J. A. Hardy. Fuel feed to engines through a carburetor. 2,962,015, 11-29-60, Cl. 123-119.
- Servanty, Pierre, P. Le Rouzo, G. Bouchet, J. Legrand, and A. Bozec, to Societe Nationale d'Etudes et de Construction de Moteurs d'Aviation. Pulse-jet units or thermo-propulsive pulsatory discharge nozzles with reversed admission orifices. 2,919,542, 1-5-60, Cl. 60-35.6.
- Servel, Inc.: *See*—
- Coleman, Joseph J. 2,938,109.
- Dittman, Emil M., Coleman, and Steinhoff. 2,920,165.
- Warren, Robert A., Wilke, and Coleman. 2,934,584.
- Serventi, Serafine, and J. Schweppe, to Pittsburgh Plate Glass Co. Method and apparatus for feeding batch materials. 2,934,225, 4-26-60, Cl. 214-18.
- Service Diamond Tool: *See*—
- Small, Louis. 2,921,485.
- Service Distributors, Inc.: *See*—
- Taylor, Christopher G. 2,941,052.
- Service Pipe Line Co.: *See*—
- Hill, Arthur M., Howard, and Fugate. 2,958,884.
- Service Recorder Co., The: *See*—
- Cool, Kenneth A., Hoerner, and Taylor. 2,924,097.
- Servin, Robert S., to Robert Hosley Mills, Inc. Slipper. 2,934,839, 5-3-60, Cl. 36-9.
- Servisoft of California: *See*—
- MacDonald, Malcolm E. 2,964,072.
- Servo Corp. of America: *See*—
- Baasch, Thomas L. 2,966,646.
- Blackstone, Henry. 2,929,305.
- Blackstone, Henry. 2,945,414.
- Blackstone, Henry. 2,949,055.
- Blackstone, Henry. 2,958,253.
- Blackstone, Henry. 2,963,542.
- Derganc, William. 2,920,485.
- Gallagher, Cornelius A., and Pellno. 2,947,857.
- Hansel, Paul G. 2,928,046.
- Howell, Sabert N. 2,932,126.
- Howell, Sabert N., and Derganc. 2,927,464.
- Knight, Lloyd F. 2,943,141.
- Pellno, William M., and Remz. 2,963,575.
- Sixbey, Samuel R., and Woodward. 2,963,672.
- Willey, Frank G. 2,929,293.
- Serv-O-Lift Corp.: *See*—
- Shivek, Herbert L. 2,934,211.
- Vershbow, Daniel R. 2,932,403.
- Vershbow, Daniel R. 2,932,404.
- Servomechanisms Inc.: *See*—
- Kuhlman, Ora F. 2,960,457.
- Meyer, Franklin. 2,948,152.
- Moore, David W., and Kuhlman. 2,926,325.
- Rodriguez, Ignacio, and Butler. 2,929,477.
- Sespe Laboratories: *See*—
- Hoeppel, Raymond W. 2,965,566.
- Sessions Clock Co., The: *See*—
- Glowacki, John J., Munson, and Brightman. 2,922,932.
- Sessions, Donald W. Amphibious craft. 2,930,340, 3-29-60, Cl. 115-1.
- Sessions, Marc: *See*—
- Schneider, William S. 2,942,760.
- Sessions, Marc H., to United States Borax & Chemical Corp. Washroom cabinet. 2,965,427, 12-20-60, Cl. 312-242.
- Seteka, John C. Confectioners' decorating device. 2,945,458, 7-19-60, Cl. 107-52.
- Setley, Maurice C. Armature winding jig. 2,939,641, 6-7-60, Cl. 242-13.
- Setterberg, Fred. Mechanism for maintaining self-winding watches wound. 2,926,519, 3-1-60, Cl. 73-6.
- Settlage, Elizabeth: *See*—
- Settlage, Paul, and Javid. 2,960,439.
- Settlage, Paul, deceased, and M. Javid (E. Settlage, executrix of said P. Settlage), to Wisconsin Alumni Research Foundation. Urea-dextrose composition and method for reducing intracranial pressure. 2,960,439, 11-15-60, Cl. 167-65.
- Settlage, Paul H.: *See*—
- McKay, George R., and Settlage. 2,934,527.
- Settler, Irving. Display form. 2,919,501, 1-5-60, Cl. 35-56.
- Setzkorn, Gene M., W. A. Taylor, and J. W. Maybaum, to U.S. Industries, Inc. Fermentation tank. 2,963,191, 12-6-60, Cl. 220-1.
- Seven, Raymond P., and J. J. Miyashiro, to Ditto, Inc. Composite photosensitive plate, and method of making printing plate therefrom. 2,937,085, 5-17-60, Cl. 96-33.
- Sevenich, Ernest D. Shoe cleaner and dryer. 2,953,805, 9-27-60, Cl. 15-310.
- Severance, Martin W.: *See*—
- Hilgartner, George H., Jr., and Severance. 2,941,667.
- Severino, Joana: *See*—
- Navick, Stacey, and Severino. 2,953,790.
- Severinsen, Arne R., 1/2 to A. C. Johnson. Pneumatic control means for reciprocable pistons. 2,944,530, 7-12-60, Cl. 121-158.
- Severns, Roger A., to The Powers Regulator Co. Condition-responsive control system for pressure operated controls. 2,941,723, 6-21-60, Cl. 236-84.
- Severs, Arthur: *See*—
- Chamberlin, Charles P. 2,935,035.
- Severson, Asbjorn M.: *See*—
- Roka, Edward G., and Severson. 2,929,972.
- Severson, Kermit H. Containers. 2,958,433, 11-1-60, Cl. 220-20.
- Sevigny, Charles P. Manufacture of ribbon candy. 2,922,384, 1-26-60, Cl. 107-4.
- Sevin, Wallace P.: *See*—
- Stewart, Robert M., and Sevin. 2,950,998.
- Sevison, Luther E., to E. G. Staudt Mfg. Co., Inc. Web severing apparatus with reciprocating feeding and blank delivering means. 2,939,355, 6-7-60, Cl. 83-222.
- Sewell, Ernest R., to International Harvester Co. Motor vehicle steering column assembly. 2,961,891, 11-29-60, Cl. 74-492.
- Sewell, Ben W., to United States of America, Navy. Switch. 2,945,926, 7-19-60, Cl. 200-61.41.
- Sewell, Cassius E.: *See*—
- Drexel, Charles E., Young, and Sewell. 2,963,093.
- Sexton, Arthur R.: *See*—
- Horsley, Lee H., and Sexton. 2,945,056.
- Sexton, Llewellyn F., Jr., to Borg-Warner Corp. Material handling device. 2,954,885, 10-4-60, Cl. 214-77.
- Seubert, George A., Jr.: *See*—
- Levy, M. Frank, and Seubert. 2,945,045.
- Seubold, Frank H., Jr., to Union Oil Co. of California. Demethylation process for pseudocumene. 2,960,545, 11-15-60, Cl. 260-672.
- Sevachko, Alex J. Scaffold clamp. 2,928,443, 3-15-60, Cl. 144-297.
- Seval, André A. E. Very high capacity boxing machine. 2,921,425, 1-19-60, Cl. 53-247.
- Sevick, John G., to Burton-Dixie Corp. Roll-away beds. 2,948,905, 8-16-60, Cl. 5-111.
- Seyb, Edgar J., Jr.: *See*—
- Stareck, Jesse E., Seyb, Johnson, and Rowan. 2,952,590.
- Seybold, Frederick W. Automatic transmission. 2,950,631, 8-30-60, Cl. 74-677.
- Seyfarth, Robert, to General Motors Corp. Automatic choke improvement. 2,926,895, 3-1-60, Cl. 261-39.
- Seyfarth, Robert, to General Motors Corp. Spark plug lead terminal connection. 2,965,871, 12-20-60, Cl. 339-100.
- Seyferth, Dietmar, to Metal & Thermit Corp. Organosilyl-alkyl derivatives of phosphorus, arsenic, antimony and bismuth. 2,964,550, 12-13-60, Cl. 260-440.
- Seyforth, Rome C., to The Shelby Metal Products Co. Hard-ware package for corner braces and the like. 2,934,206, 4-26-60, Cl. 206-79.



- Seyfried, Ernst H., and H. A. Buschmann, to Exacta Buro-maschinen G.m.b.H. Accumulator selector. 2,926,841, 3-1-60, Cl. 235-60.48.
- Seymour, Cyril F.: *See—*  
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- Seymour Foods, Inc.: *See—*  
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- Seymour, Harvey W., to American Chain & Cable Co., Inc. Method and apparatus for coating ferrous metal with aluminum. 2,950,991, 8-30-60, Cl. 117-103.
- Seymour, Lynn L., and H. R. Poutsch, to Rockwood & Co. Silo unloaders. 2,963,327, 12-6-60, Cl. 302-56.
- Seymour, Malcolm, to The General Tire & Rubber Co. Method of dulling a polyethylene terephthalate film surface. 2,951,305, 9-6-60, Cl. 41-39.
- Seymour, Shirley S.: *See—*  
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- Seymour, William D. and S. S.; said W. D. Seymour assor. of  $\frac{1}{2}$  to said S. S. Seymour, and  $\frac{1}{2}$  to M. F. Pingold. Exercising game apparatus. 2,937,023, 5-17-60, Cl. 272-80.
- Sferrazza, Peter J.: *See—*  
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- Sferrazza, Peter J., to Sperry Rand Corp. Broad band microwave phase shifter. 2,956,247, 10-11-60, Cl. 333-31.
- Sgambati, Anthony P.: *See—*  
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- Shackelford, James M., and L. H. Schwartzman, to Koppers Co., Inc. Dihalocyclopropyl olefins. 2,963,516, 12-6-60, Cl. 260-648.
- Shackelford, James M., and L. H. Schwartzman, to Koppers Co., Inc. Method of making 1,3,5-hexatriene. 2,963,524, 12-6-60, Cl. 260-682.
- Shackelford, Jesse J., to Fairmont Box Co. Feed for box partition assembly device and the like. 2,934,340, 4-26-60, Cl. 271-44.
- Shackelford, John H. Articulator for the correction of malfunctioning muscles of mastication. 2,952,914, 9-20-60, Cl. 32-32.
- Shackelford, Milton H.: *See—*  
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- Shackell, Leon F. Germicide. 2,937,971, 5-24-60, Cl. 167-31.
- Shada, Joseph J., to Bellows Electric Sign Corp. Air line filter. 2,920,716, 1-12-60, Cl. 183-41.
- Shader, Charles E., and R. C. Sweet. Wire stripper. 2,955,494, 10-11-60, Cl. 81-9.5.
- Shadle, Floyd H. Sickle sharpener. 2,950,577, 8-30-60, Cl. 51-56.
- Shadle, Paul W., to Hycon Mfg. Co. Temperature compensated bolometer bias supply. 2,949,575, 8-16-60, Cl. 323-22.
- Shafer, Homer J., to Shafer Valve Co. Multiple seal for rotary fluid motor. 2,934,045, 4-26-60, Cl. 121-99.
- Shafer, Homer J. Vented resilient ring sealing construction. 2,963,262, 12-6-60, Cl. 251-172.
- Shafer, Homer J., and B. A. Metzger, to Shafer Valve Co. Single-acting piston pump and valve unit. 2,961,003, 11-22-60, Cl. 37-624.
- Shafer, James A., to National Malleable and Steel Castings Co. Car body center plate. 2,960,042, 11-15-60, Cl. 105-199.
- Shafer, James A., to National Malleable and Steel Castings Co. Car body center plate. 2,965,045, 12-20-60, Cl. 105-199.
- Shafer, Merrill W., to International Business Machines Corp. Permanent magnetic materials. 2,954,346, 9-27-60, Cl. 252-62.5.
- Shafer, Richard C.: *See—*  
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Kuba, Samuel, and Shafer. 2,963,922.
- Shafer, Russell E.: *See—*  
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- Shafer, William A.: *See—*  
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- Shafer, William M., to National-U.S. Radiator Corp. Powder metallurgy. 2,923,622, 2-2-60, Cl. 75-201.
- Shaffer, Billie E. Toy balloon valve. 2,960,994, 11-22-60, Cl. 137-43.
- Shaffer, Daniel H. Trigger pull length checking gauge for firearms. 2,956,343, 10-18-60, Cl. 33-174.
- Shaffer, Earl J. Drafting machine. 2,936,524, 5-17-60, Cl. 33-76.
- Shaffer, Floyd C.: *See—*  
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- Shaffer, Francis N., and R. W. Mooney, to Sylvania Electric Products Inc. Calcium silicate phosphor. 2,966,463, 12-27-60, Cl. 252-301.4.
- Shaffer, Ivan E.: *See—*  
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- Shaffer, Lloyd H., and A. N. Plines, to Union Carbide Corp. Process for separating mixtures of chlorosilanes. 2,945,873, 7-19-60, Cl. 260-448.2.
- Shaffer, M. Ralph: *See—*  
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- Shaffer, Marcia C.: *See—*  
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- Shaffer, Marlin R., and R. L. Weisbrich, to Hoffman Electronics Corp. Versatile solar powered radio receiver or the like. 2,951,163, 8-30-60, Cl. 250-212.
- Shaffer, Paul. Screw-adjusted lifting jack. 2,947,515, 8-2-60, Cl. 254-100.
- Shaffer, Paul A.: *See—*  
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- Shaffer, Ralph, Jr.: *See—*  
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- Shaffer Tool Works: *See—*  
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- Shaffer, Walter B.: *See—*  
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- Shaffer, Walter M., and W. L. Norris, to Towmotor Corp. Spark and flame-proof exhaust outlet. 2,927,422, 3-8-60, Cl. 60-29.
- Shaffer, William R., to Wald Industries, Inc. Road striping machine. 2,959,356, 11-8-60, Cl. 239-100.
- Shaffstall Equipment, Inc.: *See—*  
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- Shaffstall, Everett G., to Shaffstall Equipment, Inc. Spacer selector for automatically operated slug linecasting machines. 2,936,065, 5-10-60, Cl. 199-18.
- Shaffstall, Everett G., to Shaffstall Equipment, Inc. Mat detector for slug linecasting machines. 2,955,703, 10-11-60, Cl. 199-18.
- Shaft Machines Ltd.: *See—*  
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- Shager, Bernise J.: *See—*  
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- Shagman, John H.: *See—*  
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- Shabbender, Rabah A., to Minneapolis-Honeywell Regulator Co. Apparatus for modulating an ionized medium. 2,925,564, 2-16-60, Cl. 332-57.
- Shabbender, Rabah A., to Minneapolis-Honeywell Regulator Co. Belt driven systems. 2,951,118, 8-30-60, Cl. 173-7.6.
- Shahrokh, Bahman K.: *See—*  
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- Shakertown Corp.: *See—*  
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Barker, Frank S. 2,965,531.
- Shakesby, Leonard, to Canada Cycle and Motor Co. Ltd. Joint for spoke tightening tool. 2,934,136, 4-26-60, Cl. 157-1.5.
- Shakespeare Products Co.: *See—*  
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- Shaklee, Fremont C. Automatic coupler. 2,934,183, 4-26-60, Cl. 189-36.
- Shallenberg, Robert L., and W. A. Parrish, Jr., to International Harvester Co. Control mechanism for fuel injection pumps. 2,947,299, 8-2-60, Cl. 123-140.
- Shamblin, Henegar D., to Aeronautical Communications Equipment, Inc. High frequency choke coil. 2,957,124, 10-13-60, Cl. 323-82.
- Shames, Harold: *See—*  
Shames, Sidney J. and H. 2,936,958.
- Shames, Harold and S. J. Self-cleaning aerator. 2,928,607, 3-15-60, Cl. 239-107.
- Shames, Harold and S. J. Aerator and snap connector for use therewith. 2,954,936, 10-4-60, Cl. 239-431.
- Shames, Sidney J.: *See—*  
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Shames, Harold and S. J. 2,954,936.
- Shames, Sidney J. and H. Self-cleaning shower head. 2,936,958, 5-17-60, Cl. 239-109.
- Shampaine Co.: *See—*  
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- Shampang, David C.: *See—*  
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- Shamrock Drilling Co.: *See—*  
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- Shanafelt, Leo A.: *See—*  
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- Shanahan, Peter T. Lawn mower sharpener. 2,921,416, 1-19-60, Cl. 51-173.
- Shanahan, William J., to Skiatron Electronics & Television Corp. Scrambled television transmission. 2,924,645, 2-9-60, Cl. 178-5.1.
- Shanahan, William J., to Skiatron Electronics & Television Corp. Data display apparatus. 2,942,251, 6-21-60, Cl. 340-324.
- Shanahan, William J., to Skiatron Electronics & Television Corp. Scrambled television. 2,956,110, 10-11-60, Cl. 178-5.1.
- Shanahan, William J., R. F. Vetter, and E. I. Sacks, to Skiatron Electronics & Television Corp. Television. 2,965,702, 12-20-60, Cl. 178-5.1.
- Shand and Jurs Co.: *See—*  
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- Shand, Stanley G., and A. C. Gower. Fluid controlling valves. 2,962,039, 11-29-60, Cl. 137-219.
- Shandelman, Frank: *See—*  
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- Shane, Charles W. Heater for vehicles. 2,920,829, 1-12-60, Cl. 237-12.3.
- Shane, Robert T.: *See*—  
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- Shank, Howard C. Extensible cement hog trough. 2,943,601, 7-5-60, Cl. 119-78.
- Shank, Joseph L.: *See*—  
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- Shank, Leland R. Sliding shelf structure. 2,937,765, 5-24-60, Cl. 211-143.
- Shanklin, Dunbar L.: *See*—  
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- Shanklin, Edward M., to Pneumafil Corp. Mounting bracket. 2,934,300, 4-26-60, Cl. 248-289.
- Shanks, Howard E., and H. H. Hougardy, to Hughes Aircraft Co. Arbitrarily polarized beacon antenna. 2,942,262, 6-21-60, Cl. 343-756.
- Shanks, Howard E., to Hughes Aircraft Co. Electrically variable complex slot. 2,946,056, 7-19-60, Cl. 343-765.
- Shanks, Howard E., to Hughes Aircraft Co. Mechanically variable complex slot. 2,946,057, 7-19-60, Cl. 343-765.
- Shanley, Edward S., to Food Machinery and Chemical Corp. Electrical temperature responsive device. 2,945,196, 7-12-60, Cl. 338-28.
- Shanley, James J.: *See*—  
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- Shanley, Walter A. Universal grinding apparatus. 2,956,376, 10-18-60, Cl. 51-35.
- Shanly, John S.: *See*—  
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- Shannon, Fred L. Electrical cable and processing tool. 2,943,391, 7-5-60, Cl. 30-91.
- Shannon, Jack F.: *See*—  
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- Shannon, James F., and J. Fulton, to Metropolitan-Vickers Electrical Co. Ltd. Reversing gear for unidirectional gas turbine drives. 2,961,078, 11-22-60, Cl. 192-4.
- Shannon, Richard F.: *See*—  
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- Shanok, Abraham, V. and J. Trim. 2,928,201, 3-15-60, Cl. 41-10.
- Shanok, Jesse: *See*—  
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- Shapero, Ray A.: *See*—  
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- Shapero, Wallace H., and J. H. Walker, to Continental Can Co., Inc. Flexible container trimming and sealing machine. 2,955,643, 10-11-60, Cl. 154-42.
- Shapery, Arthur W. and L. Self-totaling coin accounting and banking aid. 2,942,723, 6-28-60, Cl. 206-84.
- Shapery, Lillian: *See*—  
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- Shapin, Allen L. Supporting and storage unit for electric train sets. 2,955,763, 10-11-60, Cl. 238-10.
- Shapin, Theodore, Jr. Automatic searching system. 2,923,921, 2-2-60, Cl. 340-174.
- Shapira, Harold B.: *See*—  
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- Shapiro, Elliot L.: *See*—  
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- Shapiro, Harry: *See*—  
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- Shapiro, Henry, to General Electric Co. Rotor stage construction. 2,922,620, 1-26-60, Cl. 253-77.
- Shapiro, Henry, T. B. Martin, and B. W. Foster, to General Electric Co. Roll-pin support for turbomachine blades. 2,928,652, 3-15-60, Cl. 253-77.
- Shapiro, Hymin: *See*—  
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- Shapiro, Irving D., to Stravler, Inc. Automatic circuit control for automotive vehicle. 2,931,918, 4-5-60, Cl. 307-10.
- Shapiro, Jack. Compact cathode ray tube. 2,945,143, 7-12-60, Cl. 313-82.
- Shapiro, Jonas M.: *See*—  
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- Shapiro, Kenneth E. and M. and S. Contraction joint and seal for concrete structures. 2,961,803, 11-29-60, Cl. 50-186.
- Shapiro, Louis, to Radio Corp. of America. Color correction system. 2,939,908, 6-7-60, Cl. 178-52.
- Shapiro, Louis, and J. S. Rydz, to Radio Corp. of America. Multichannel scanning system. 2,921,975, 1-19-60, Cl. 178-52.
- Shapiro, Martin. Ankle supporting athletic shoe. 2,945,309, 7-19-60, Cl. 36-8.5.
- Shapiro, Matthew. Fracture splint covering. 2,949,912, 8-23-60, Cl. 128-83.5.
- Shapiro, Mordecial, to National Safety Table Co. Drive mechanism for sewing machines. 2,920,730, 1-12-60, Cl. 192-18.
- Shapiro, Morris: *See*—  
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- Shapiro, Oscar, and R. E. Troell, to International Telephone and Telegraph Corp. Wide band automatic frequency control systems. 2,924,783, 2-9-60, Cl. 331-4.
- Shapiro, Seymour L.: *See*—  
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- Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin and Pharmaceutical Corp. Benzylamine derivative. 2,921,074, 1-12-60, Cl. 260-268.
- Shapiro, Seymour L., L. Freedman, and H. Soloway, to U.S. Vitamin & Pharmaceutical Corp. Carbamidomethyl quaternary salts of tropine. 2,921,075, 1-12-60, Cl. 260-292.
- Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin and Pharmaceutical Corp. N<sup>1</sup>-carbamidomethyl-N<sup>2</sup>-( $\beta$ -hydroxyethyl) urea. 2,921,091, 1-12-60, Cl. 260-553.
- Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin & Pharmaceutical Corp. Alkylene-bis-(N-methyl-2,6-dialkylanilines). 2,921,093, 1-12-60, Cl. 260-570.5.
- Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin & Pharmaceutical Corp.  $\omega$ -(N-methyl-2,6-dialkylanilino)alkyl halides. 2,921,094, 1-12-60, Cl. 260-577.
- Shapiro, Seymour L., L. Freedman, and V. A. Parrino, to U.S. Vitamin Corp. Oxymethylguanamines. 2,926,165, 2-23-60, Cl. 260-249.9.
- Shapiro, Seymour L., L. Freedman, and H. Soloway, to U.S. Vitamin & Pharmaceutical Corp. 2-N-methylpiperazine-1-phenylethyl benzoates. 2,928,834, 3-15-60, Cl. 260-268.
- Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin & Pharmaceutical Corp. 3-( $\alpha$ -substituted phenyl) oxazolidinediones and process therefor. 2,928,840, 3-15-60, Cl. 260-307.
- Shapiro, Seymour L., L. Freedman, and H. Soloway, to U.S. Vitamin & Pharmaceutical Corp. Dialkylaminoalkoxyphenylethanol esters. 2,928,845, 3-15-60, Cl. 260-326.3.
- Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin & Pharmaceutical Corp. Dialkylaminoalkyl hydantoamides. 2,928,872, 3-15-60, Cl. 260-553.
- Shapiro, Seymour L., and L. Freedman, to U. S. Vitamin and Pharmaceutical Corp. Certain monoamides of hydantonic acid. 2,928,873, 3-15-60, Cl. 260-553.
- Shapiro, Seymour L., and L. Freedman, to U. S. Vitamin and Pharmaceutical Corp. Bishydantonic acid amides from  $\alpha,\omega$  diamines. 2,928,874, 3-15-60, Cl. 260-553.
- Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin Corp. Alkylaminopyridoguanamines. 2,937,170, 5-17-60, Cl. 260-249.9.
- Shapiro, Seymour L., L. Freedman, and V. A. Parrino. Alkoxyethylguanamines. 2,937,172, 5-17-60, Cl. 260-249.9.
- Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin & Pharmaceutical Corp. Indolino and tetrahydroquinolino triazines. 2,937,173, 5-17-60, Cl. 260-249.9.
- Shapiro, Seymour L., L. Freedman, and H. Soloway. Process for phenylhydrazolino [1,2-a]piperidines. 2,937,179, 5-17-60, Cl. 260-293.
- Shapiro, Seymour L., L. Freedman, and H. Soloway, to U.S. Vitamin & Pharmaceutical Corp. Cinnamate esters. 2,954,373, 9-27-60, Cl. 260-239.
- Shapiro, Seymour L., L. Freedman, and H. Soloway, to U.S. Vitamin & Pharmaceutical Corp. Piperazinocyclohexyl esters. 2,954,380, 9-27-60, Cl. 260-268.
- Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin & Pharmaceutical Corp. Heteroaryloxazolidinediones. 2,954,381, 9-27-60, Cl. 260-387.
- Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin & Pharmaceutical Corp. Trifluoromethylphenyl carbamates. 2,954,395, 9-27-60, Cl. 260-471.
- Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin & Pharmaceutical Corp.  $\alpha$ -Indanoxylbutyric acid derivatives. 2,954,400, 9-27-60, Cl. 260-520.
- Shapiro, Seymour L., L. Freedman, and H. Soloway, to U.S. Vitamin & Pharmaceutical Corp. Ethoxy benzoate esters. 2,958,697, 11-1-60, Cl. 260-326.3.
- Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin & Pharmaceutical Corp. Oral anti-diabetic compositions and methods. 2,961,377, 11-22-60, Cl. 167-65.
- Shapiro, Sol, to Raytheon Co. Electrical frequency analyzer and commutator therefor. 2,964,704, 12-13-60, Cl. 324-77.
- Shapiro, Stanley: *See*—  
Shapiro, Kenneth E. and M. and S. 2,961,803.
- Shapiro, Sydney H., to Armour and Co. Process for the production of quaternary ammonium compounds. 2,950,318, 8-23-60, Cl. 260-567.6.
- Shapleigh, James H., to Hercules Powder Co. Process for treatment of fluid reactants. 2,937,923, 5-24-60, Cl. 23-1.
- Shapleigh, James H., to Hercules Powder Co. Hydrocarbon conversion process. 2,940,840, 6-14-60, Cl. 48-215.
- Shappell, Stanley C., to Sylvania Electric Products, Inc. Conveyor. 2,927,680, 3-8-60, Cl. 193-160.



- Shappell, Stanley C., to Sylvania Electric Products Inc. Welding apparatus. 2,936,361, 5-10-60, Cl. 219-78.
- Shappell, Stanley C., to Sylvania Electric Products Inc. Welding circuit. 2,960,596, 11-15-60, Cl. 219-113.
- Sharbaugh, Amandus H.: See—
- Auer, Peter L., and Sharbaugh. 2,945,443.
- Sharf, John M.: See—
- Clement, Finn, and Sharf. 2,949,621.
- Gschwend, Paul, 2nd, and Sharf. 2,953,273.
- Sharf, John M., to Armstrong Cork Co. Polyethylene coating for glassware and glass coated therewith. 2,965,596, 12-20-60, Cl. 260-29.6.
- Sharin, Samuel: See—
- Canfora, Arthur E., Kishi, Sharin, and Liquori. 2,938,078.
- Sharkey, Arthur J., to Duro Test Corp. Electrode for fluorescent lamps. 2,922,916, 1-26-60, Cl. 313-344.
- Sharma, Devendra N. Turbojet engine convertible to ram-jet engine. 2,933,836, 4-26-60, Cl. 60-35.6.
- Sharma, Roshan L., to Collins Radio Co. Thickness-shear-mode mechanical filter. 2,965,861, 12-20-60, Cl. 333-71.
- Sharman, John C., and B. C. Carter, to Garringtons Ltd. Constant velocity universal joints. 2,924,955, 2-16-60, Cl. 64-21.
- Sharon Steel Corp.: See—
- Coupland, John A. 2,936,156.
- Hepler, Donald L. Re. 24,836.
- Hepler, Donald L. 2,919,894.
- Sharp, Allen W.: See—
- Kauffman, Floyd L., Van Dolah, and Sharp. 2,923,631.
- Sharp, Bernard C.: See—
- Levy, Sidney E., and Sharp. 2,957,054.
- Sharp, Bruce C. Knockdown support for beach articles. 2,924,338, 2-9-60, Cl. 211-35.
- Sharp, Chester L. Indexing chuck. 2,930,626, 3-29-60, Cl. 279-5.
- Sharp, Chester L., to National Tank Co. Valve with unitarily removable head and seat. 2,963,038, 12-6-60, Cl. 137-454.6.
- Sharp, Dexter B., to Monsanto Chemical Co. Photoxidation processes utilizing novel catalysts. 2,950,237, 8-23-60, Cl. 204-158.
- Sharp, Dexter B., to Monsanto Chemical Co. Photosensitizers in photoxidation. 2,951,797, 9-6-60, Cl. 204-158.
- Sharp, Dexter B., to Monsanto Chemical Co. Photoxidation processes utilizing aromatic porphyrin catalysts. 2,951,798, 9-6-60, Cl. 204-162.
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- Sharp, Dexter B., to Monsanto Chemical Co. Photoxidation processes utilizing improved catalysts. 2,951,800, 9-6-60, Cl. 204-162.
- Sharp, Douglas M., to International Telephone and Telegraph Corp. Maximizing the power output level of klystron oscillators and the like. 2,924,785, 2-9-60, Cl. 331-84.
- Sharp, Ewing L. Container and funnel construction. 2,933,110, 4-19-60, Cl. 141-98.
- Sharp, Frank: See—
- Honey, Eric M. O., Hardy, and Sharp. 2,959,822.
- Sharp, Frank W.: See—
- Zillman, Jack H., Wagoner, Williams, and Sharp. 2,961,966.
- Sharp, Jack S. Bit holder. 2,931,516, 4-5-60, Cl. 211-69.
- Sharp, James M., M. T. Hanchett, J. P. Lincoln, and H. W. Simpson, to Southern Gas Association. Pulsation dampening apparatus. 2,936,041, 5-10-60, Cl. 181-47.
- Sharp, John B.: See—
- Arnold, Harold A., and Sharp. 2,947,087.
- Arnold, Harold A., and Sharp. 2,947,092.
- Sharp, John J., to International Computers and Tabulators Ltd. Information reading arrangement. 2,942,242, 6-21-60, Cl. 340-174.
- Sharp, John R.: See—
- Arnot, Alfred E. R. 2,931,530.
- Arnot, Alfred E. R. 2,944,689.
- Payne, Ivan S. 2,942,705.
- Payne, Ivan S., and Arnot. 2,955,245.
- Sharp, Paul F., and C. A. Kempf, to Dairy Foods Inc. Method for the preparation of a powdered milk product. 2,921,857, 1-19-60, Cl. 99-203.
- Sharp, Shelby P.: See—
- Hopson, William H., Sharp, and Steitz. 2,939,864.
- Sharp, Thomas A., and F. L. Jones, to Sperry Rand Corp. Non-printing indicia ink. 2,936,241, 5-10-60, Cl. 106-25.
- Sharp, Thomas C.: See—
- Wolfe, Wallace V., and Sharp. 2,927,154.
- Sharp, William L., to Nuffield Tools and Gauges Ltd. Combined taper-measuring machine and linear dimension gauge. 2,953,856, 9-27-60, Cl. 33-174.
- Sharpe, Archibald W., and F. Errington, to The Sperry Gyroscope Co. Ltd. Liquid pump. 2,925,782, 2-23-60, Cl. 103-52.
- Sharpe, Arthur H., to Underwood Corp. Combined type bar aligner and detent. 2,942,542, 6-28-60, Cl. 101-93.
- Sharpe, Frederick P., to Kelsey-Hayes Co. Mill for rolling disks. 2,942,504, 6-28-60, Cl. 80-17.
- Sharpe, Jack, to Electric & Musical Industries Ltd. Resonant cavity electron discharge device. 2,959,708, 11-8-60, Cl. 315-45.
- Sharpe, Louis E.: See—
- Carbonara, Victor E., Eckweller, and Sharpe. 2,941,082.
- Sharpe, Louis E., to Kollsman Instrument Corp. Continuously driven loop for angular measurement. 2,935,884, 5-10-60, Cl. 74-409.
- Sharpe, Louis H.: See—
- Garn, Paul D., and Sharpe. 2,964,453.
- Sharpe Mfg. Co.: See—
- Briggs, Earl C. 2,934,246.
- Sharpe, Philip B. Ski boot accessory. 2,950,118, 8-23-60, Cl. 280-11.14.
- Sharpe, Randall H.: See—
- Fedde, Harry W. 2,959,244.
- Sharpe, Robert E.: See—
- Freed, Jacob B., and Sharpe. 2,945,709.
- Freed, Jacob B., and Sharpe. 2,945,710.
- Lutz, Garson A., and Sharpe. 2,951,811.
- Sharpe, Verlos G.: See—
- Pearce, George C., and Sharpe. 2,925,204.
- Sharpe, Verlos G., to General Motors Corp. Ice block releaser and storage element. 2,923,139, 2-2-60, Cl. 62-344.
- Sharpe, Verlos G., to General Motors Corp. Ice block harvesting device. 2,931,194, 4-5-60, Cl. 62-344.
- Sharpe, Verlos G., to General Motors Corp. Refrigerator cabinet illuminating means. 2,953,909, 9-27-60, Cl. 62-264.
- Sharpe, Verlos G., and D. J. Schwarz, to General Motors Corp. Refrigerating apparatus with means preventing condensate on transparent panels. 2,927,441, 3-8-60, Cl. 62-248.
- Sharpe, Verlos G., and E. C. Armentrout, to General Motors Corp. Ice cracking device. 2,940,678, 6-14-60, Cl. 241-275.
- Sharples Corp., The: See—
- Fitzsimmons, Harold C. 2,924,378.
- Gooch, Fred P. 2,942,494.
- Payne, Robert E., and Lavanchy. 2,943,734.
- Payne, Robert E., Lavanchy, and Sharples. 2,943,735.
- Sharples, Geoffrey F., to The English Electric Co. Ltd. Aircraft undercarriages. 2,925,968, 2-23-60, Cl. 244-102.
- Sharples, Roy W., to Marconi's Wireless Telegraph Co. Ltd. Radio direction finders. 2,928,090, 3-8-60, Cl. 343-117.
- Sharples, Thomas D.: See—
- Payne, Robert E., Lavanchy, and Sharples. 2,943,735.
- Sharpless, William M., to Bell Telephone Laboratories, Inc. Millimeter wave crystal rectifier. 2,956,160, 10-11-60, Cl. 250-31.
- Sharps, David L., to E. I. du Pont de Nemours and Co. Yarn defect detector. 2,964,828, 12-20-60, Cl. 28-64.
- Sharpsteen, James A.: See—
- Olsen, Sydney A., Townsend, and Sharpsteen. 2,960,974.
- Sharpsteen, Jay R., Jr., to Cambridge Instrument Co., Inc. Electrochemical method for analyzing materials. 2,962,426, 11-29-60, Cl. 204-1.
- Sharpsteen, Jay R., Jr., H. A. Scheraga, and J. S. Butterworth, to Cambridge Instrument Co., Inc. Method for analyzing materials. 2,962,425, 11-29-60, Cl. 204-1.
- Sharr, Philip E., and L. B. Bohl, to Columbia-Southern Chemical Corp. Purification of titanium tetrachloride. 2,920,016, 1-5-60, Cl. 202-57.
- Sharrar, George W. Outdoor corner lamp brackets. 2,957,040, 10-18-60, Cl. 174-48.
- Shashoua, Victor E., to E. I. du Pont de Nemours and Co. Homopolymers of organic isocyanates. 2,965,614, 12-20-60, Cl. 260-77.5.
- Shastany, Theodore E., to Scott & Williams, Inc. Knitting machine. 2,921,454, 1-19-60, Cl. 66-108.
- Shatavsky, Rubin, to Sound, Inc. Tape transporting mechanism. 2,927,743, 3-8-60, Cl. 242-55.12.
- Shattuck, Ewart H., to Joseph Bancroft & Sons Co. Crimping apparatus. 2,960,730, 11-22-60, Cl. 19-66.
- Shatynski, John J.: See—
- Waters, Elmer E., Shatynski, and Koch. 2,944,976.
- Shaub, Kenneth D.: See—
- Hughes, William J., and Shaub. 2,943,167.
- Shaughnessy, Bernard F. Incinerator apparatus. 2,939,409, 6-7-60, Cl. 110-13.
- Shaughnessy, Bernard F., deceased; H. R. Shaughnessy, executrix. Grate driving means for incinerators. 2,964,035, 12-13-60, Cl. 126-169.
- Shaughnessy, Helen R.: See—
- Shaughnessy, Bernard F. 2,964,035.
- Shaver, Elijah C.: See—
- Livingston, Jay K., and Shaver. 2,938,323.
- Shaver, Glenn F. Post driver and puller. 2,940,267, 6-14-60, Cl. 61-73.
- Shaver, James B., d.b.a. Iron Lung Ventilator Co.: See—
- Hill, Francis U. 2,963,956.
- Shaver, Raymond H.: See—
- Osovski, Conrad A., and Shaver. 2,942,686.
- Shaver, Raymond M., and A. M. Miers, to Pullman-Standard Car Mfg. Co. Hatch arrangement. 2,931,323, 4-5-60, Cl. 103-54.
- Shaver, Richard C.: See—
- Cowles, Edwin, and Shaver. 2,950,570.
- Shaver, Robert J., to The Dow Chemical Co. Anthelmintic compositions containing nitrostilbenes and method of using. 2,920,013, 1-5-60, Cl. 167-53.
- Shaver, William W.: See—
- Blanding, Wendell S., and Shaver. 2,936,924.
- Shaw, Alan C.: See—
- Marshall, Harry B., and Shaw. 2,952,507.
- Shaw, Archie H. Material handling apparatus. 2,936,914, 5-17-60, Cl. 214-75.



- Shaw, Arthur R., and F. W. Sampson, to General Motors Corp. Method for measuring the strength of sintered ferrous articles. 2,945,759, 7-19-60, Cl. 75-201.
- Shaw, Bernard: *See*—
- Lampard, Edward H. A., and Shaw. 2,922,194.
- Shaw, Bernard S., and A. L. Kellermann, to The Cincinnati Milling Machine Co. Cross feed mechanism for machine tool. 2,921,415, 1-19-60, Cl. 51-165.
- Shaw, Charles: *See*—
- Rowton, Harold S., Shaw, and Robertson. 2,930,076.
- Shaw, Charles G. Non-toxic fungicidal preparations. 2,961,375, 11-22-60, Cl. 167-58.
- Shaw, Charles L., to Lectro Mfg., Inc. Abrasive roll. 2,954,650, 10-4-60, Cl. 51-190.
- Shaw, Clifford, to Shaw Process Development Corp. Prevention of scale formation on castings. 2,935,772, 5-10-60, Cl. 22-214.
- Shaw, Ernest C. Liquid filters. 2,946,449, 7-26-60, Cl. 210-484.
- Shaw, Ernest C. Liquid filters. 2,946,450, 7-26-60, Cl. 210-484.
- Shaw, Fred B., to Continental Can Co., Inc. Resin composition, process of making same, article impregnated therewith and process of impregnating. 2,921,867, 1-19-60, Cl. 117-103.
- Shaw, Fred B., J. S. Schlueter, and J. R. Guenther, to Continental Can Co., Inc. Chalkboards. 2,955,364, 10-11-60, Cl. 35-66.
- Shaw, Gerald J., to Outboard Marine Corp. Wheel adjustment and driving in a power mower or the like. 2,947,132, 8-2-60, Cl. 56-254.
- Shaw, Harold N. Stored heat steam generators. Re. 24,861, 8-23-60, Cl. 219-39.
- Shaw, Harold N. Stored heat steam generators. 2,920,179, 1-5-60, Cl. 219-39.
- Shaw, Harry F. Plate masonry clamp. 2,920,477, 1-12-60, Cl. 72-101.
- Shaw, Herbert J.: *See*—
- Winslow, Lester M., and Shaw. 2,929,035.
- Shaw, Jacques, to United Aircraft Corp. Fuel system responsive to angle of attack. 2,936,974, 5-17-60, Cl. 244-76.
- Shaw, John L., and R. R. Taylor, to The International Nickel Co., Inc. Electromagnetic prospecting. 2,955,250, 10-4-60, Cl. 324-4.
- Shaw, John L., and R. R. Taylor, to The International Nickel Co., Inc. Geophysical exploring. 2,955,251, 10-4-60, Cl. 324-4.
- Shaw, Kenneth D., to Cordo Chemical Corp. Method of repairing a rigid hollow article. 2,924,546, 2-9-60, Cl. 154-104.
- Shaw, Kenneth S., K. F. Richards, and P. A. Lytle, to Cummins Engine Co., Inc. Oil filter spool construction. 2,963,162, 12-6-60, Cl. 210-487.
- Shaw, Kernal G., to The Dow Chemical Co. Process for recovering iodides from aqueous solutions by ion exchange and conversion of the iodides to iodine. 2,945,746, 7-19-60, Cl. 23-216.
- Shaw, Laurence D.: *See*—
- Lester, William N., and Shaw. 2,956,138.
- Shaw, Mary A., deceased (D. B. Kinney, administrator), to G. Miller. Container and time indicator. 2,953,242, 9-20-60, Cl. 206-42.
- Shaw Process Development Corp.: *See*—
- Shaw, Clifford. 2,935,772.
- Shaw, Ralph M., Jr., to Pedrick Tool & Machine Co., Inc. Bending machines. 2,956,609, 10-18-60, Cl. 153-46.
- Shaw, Richard, Jr., and R. H. Deahl, to The Bendix Corp. Time-delay control circuit for directional gyro erection system. 2,949,786, 8-23-60, Cl. 74-541.
- Shaw, Richard A., to Stackblin Corp. Storage rack with sliding bin. 2,932,406, 4-12-60, Cl. 211-79.
- Shaw, Richard A., to Stackblin Corp. Rack loading and unloading shelf. 2,943,747, 7-5-60, Cl. 211-153.
- Shaw, Richard B., and W. G. Connor, to Allegheny Ludlum Steel Corp. Refractory brick. 2,932,577, 4-12-60, Cl. 106-59.
- Shaw, Richard E., and N. M. Ness, to Imperial Chemical Industries Ltd. Method of coating titanium. 2,935,431, 5-3-60, Cl. 148-614.
- Shaw, Robert F.: *See*—
- Auerbach, Albert A., and Shaw. 2,944,248.
- Shaw, Robert F., to United States of America, Army. Electric blanket. 2,948,802, 8-9-60, Cl. 219-46.
- Shaw, Ronald A., to Minister of Supply, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Aircraft having wings with ducted fans therein. 2,939,649, 6-7-60, Cl. 244-12.
- Shaw, Russel D.: *See*—
- Kruzan, Albert W., Shaw, and Valites. 2,933,933.
- Shaw & Slavsky, Inc.: *See*—
- Slavsky, Robert J. 2,923,078.
- Slavsky, Robert J. 2,951,301.
- Slavsky, Robert J. and J. R. 2,945,660.
- Shaw-Walker Co., The: *See*—
- Purlington, Paul G. 2,953,246.
- Shaw, Walter C., to United Aircraft Corp. Aircraft air conditioning system. 2,925,255, 2-16-60, Cl. 257-276.
- Shaw, Walter P., and R. W. Link, to International Business Machines Corp. Method and apparatus for threading perforated articles. 2,958,126, 11-1-60, Cl. 29-433.
- Shaw, Walter P., and R. L. Judge, to International Business Machines Corp. Apparatus for winding wire around terminals. 2,963,051, 12-6-60, Cl. 140-93.
- Shaw, William: *See*—
- Griffith, Alan A., and Shaw. 2,936,969.
- Shawhan, Elbert N., to Sun Oil Co. Fuel dispensing system. 2,936,096, 5-10-60, Cl. 222-14.
- Shawhan, Elbert N., to Sun Oil Co. Apparatus for impedance measurements. 2,943,258, 6-28-60, Cl. 324-57.
- Shawhan, Elbert N., to Sun Oil Co. Frequency selective circuits. 2,951,990, 9-6-60, Cl. 328-186.
- Shawhan, Elbert N., to Sun Oil Co. Apparatus for impedance measurements. 2,963,908, 12-13-60, Cl. 73-304.
- Shawinigan Chemicals Ltd.: *See*—
- Johnson, Herbert S. 2,947,759.
- Johnson, Herbert S., and Andersen. 2,921,840.
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- Murphy, Myron A., and Donnelly. 2,951,748.
- Shawinigan Resins Corp.: *See*—
- Cohen, Saul M., and Lavin. 2,963,464.
- MacDonald, Angus N. 2,965,617.
- Shawley, George C., and R. R. Tice, to Bank of America National Trust and Savings Assn. Single lever control. 2,933,947, 4-26-60, Cl. 74-477.
- Shay, Anthony J.: *See*—
- Feldman, Louis I., Rigler, and Shay. 2,962,423.
- Shea, Carter L., G. D. Harden, and M. L. Barrett, Jr., to Shell Oil Co. Apparatus for evacuating pipelines. 2,953,153, 9-20-60, Cl. 137-268.
- Shea, James J., R. H. Holmberg, and M. R. Goggio, to United States of America, Navy. Transistorized circuit to indicate the absence or presence of a positive or negative pulse. 2,942,189, 6-21-60, Cl. 324-133.
- Shea, Reeford P.: *See*—
- Beemer, Paul K., and Shea. 2,941,319.
- Bowen, John T., Olson, Beemer, and Shea. 2,961,783.
- Sheaffer, Jack B. Folding shelf bracket. 2,940,717, 6-14-60, Cl. 248-240.
- Sheaffer, W. A. Pen Co.: *See*—
- Brannon, Roland L. 2,957,452.
- Mansheim, Richard J. 2,919,677.
- Mansheim, Richard J. 2,935,967.
- Mansheim, Richard J. 2,942,576.
- Martin, Lynn P. 2,949,888.
- Martin, Lynn P., Thompson, Brannon, and Ross. 2,949,887.
- Sheahan, Robert E.: *See*—
- Kramcsak, Michael, Jr., and Sheahan. 2,963,732.
- Sheahan, Robert E., to Casco Products Corp. Thermostatic control plug. 2,936,359, 5-10-60, Cl. 219-44.
- Sheard, John L.: *See*—
- Burrus, Harry O., Sheard, and Vines. 2,920,098.
- Sheard, Marville F. Grain separator. 2,950,720, 8-30-60, Cl. 130-21.
- Sheard, William G., to St. Regis Paper Co. Bulk packaging container. 2,962,159, 11-29-60, Cl. 206-46.
- Shearer, Douglas G., to Loew's Inc. Method and apparatus for co-ordinated steps in photographing and exhibiting motion pictures. 2,920,526, 1-12-60, Cl. 88-166.
- Shearer, Hugh T., Jr.: *See*—
- Morway, Arnold J., Lipinski, and Shearer. 2,930,757.
- Shearer, James W.: *See*—
- Brinkerhoff, Joris M., Hadley, Ragosine, and Shearer. 2,926,271.
- Faulkner, William H., Jr., and Shearer. 2,922,888.
- Shearer, Kenneth C.: *See*—
- Renninger, Robert G., and Shearer. 2,920,692.
- Shearer, Newton H., Jr.: *See*—
- Carter, William D., and Shearer. 2,928,818.
- Coover, Harry W., Jr., and Shearer. 2,951,066.
- Wicker, Thomas H., Jr., and Shearer. 2,933,429.
- Shearer, Newton H., Jr., and H. W. Coover, Jr., to Eastman Kodak Co. Germanium catalyst and process of polymerizing an  $\alpha$ -monoolefinic hydrocarbon therewith. 2,925,409, 2-16-60, Cl. 260-93.7.
- Shearing, Herbert J.: *See*—
- Abbottson, William, Hurd, and Shearing. 2,950,263.
- Shearman, Roger C., and R. K. Braking means for vehicles. 2,951,559, 9-6-60, Cl. 188-29.
- Shearman, Roger K.: *See*—
- Shearman, Roger C. and R. K. 2,951,559.
- Shearman, Wilbur E.: *See*—
- Tama, Mario, and Shearman. 2,959,757.
- Shears, Stuart T., to United-Carr Fastener Corp. Pants fastener. 2,930,094, 3-29-60, Cl. 24-222.
- Shebanow, Michael S., to Bell Telephone Laboratories, Inc. Switching device. 2,929,895, 3-22-60, Cl. 200-87.
- Sheble, Frank E.: *See*—
- Sheble, Frank W. and F. E., and Gaupp. 2,933,358.
- Sheble, Frank W., and F. E., and W. R. Gaupp. Water bottle support for automobile. 2,933,358, 4-19-60, Cl. 311-21.
- Sheckler, Addison C., to Carrier Corp. Method and apparatus for mounting thermoelectric element. 2,938,357, 5-31-60, Cl. 62-3.
- Shecter, George O., and I. L. Hirsch,  $\frac{1}{2}$  to J. B. Rosenthal,  $\frac{1}{2}$  to S. P. Norton,  $\frac{1}{8}$  to G. MacRae,  $\frac{1}{8}$  to D. D. Melcher,  $\frac{1}{8}$  to M. Melcher, and  $\frac{1}{8}$  to K. Douglas. Footwear. 2,948,971, 8-16-60, Cl. 36-2.5.
- Shedd-Brown, Inc.: *See*—
- Shedd, Hugh P. 2,934,845.



- Shedd, Hugh P., to Shedd-Brown, Inc. Calendar construction. 2,934,845, 5-3-60, Cl. 40-19.
- Shedd, Robert K. Fluid actuated suspension control system. 2,922,634, 1-26-60, Cl. 267-11.
- Sheehan, John C., to Research Corp. Thiazolidine intermediates for penicillin. 2,934,540, 4-26-60, Cl. 260-306.7.
- Sheehan, John C., to Arthur D. Little, Inc. Amides and process of preparing same with a monocarbodiimide. 2,938,892, 5-31-60, Cl. 260-112.
- Sheehan, Noel J.: *See*—
- Prout, John W., Sheehan, and Reid. 2,943,182.
- Sheehan, William M., to General Steel Castings Corp. Lifting structure for shipping container. 2,920,917, 1-12-60, Cl. 294-81.
- Sheeley, Eugene N., to United States of America, Army. Safety and arming mechanism. 2,958,286, 10-1-60, Cl. 102-78.
- Sheer, Charles, to Sheer-Korman Associates, Inc. Arc electrode brush mechanism. 2,956,256, 10-11-60, Cl. 339-9.
- Sheer, Charles, and S. Korman, to Sheer-Korman Associates, Inc. Process for fabricating electrodes. 2,960,726, 11-22-60, Cl. 18-54.7.
- Sheer-Korman Associates, Inc.: *See*—
- Sheer, Charles. 2,956,256.
- Sheer, Charles, and Korman. 2,960,726.
- Sheeran, Norman J., to American-Marietta Co. Laminating adhesive and method of producing the same. Re. 24,881, 9-27-60, Cl. 106-124.
- Sheesley, Jay R.: *See*—
- Smith, James T. 2,946,630.
- Sheesley, John M., to Research Engineering Co. Actuating device. 2,945,475, 7-19-60, Cl. 121-38.
- Sheets, Oren E. Downspout hanger. 2,947,505, 8-2-60, Cl. 248-74.
- Sheets, Ray H.: *See*—
- Arnott, Cornelius W., Jackes, and Sheets. 2,965,165.
- Sheets, Ted C.: *See*—
- Stutske, William A., and Sheets. 2,948,988.
- Sheetz, David P., to The Dow Chemical Co. Preparation of sulfo esters of  $\alpha$ -methylene carboxylic acids. 2,923,734, 2-2-60, Cl. 260-486.
- Sheffer, Robert M., to The Martin Co. Device to eliminate vortices in fuel tanks. 2,920,648, 1-12-60, Cl. 137-582.
- Sheffield Corp., The: *See*—
- Aller, Willis F. 2,963,901.
- Aller, Willis F., and Boppel. 2,941,300.
- Aller, Willis F., and Jeglum. 2,962,165.
- Aller, Willis F., and Mahlmeister. 2,952,919.
- Baker, Ralph C. 2,926,523.
- Berkley, Earl E., Mayne, and Reddick. 2,919,573.
- Brown, George C., and Roney. 2,942,383.
- Eickman, Lowell C. 2,952,918.
- Emmons, Nelson, III. 2,953,014.
- Emmons, Nelson, III. 2,960,774.
- Esken, Robert L. 2,931,095.
- Jeglum, Norman L. 2,922,971.
- Kimble, Robert H., and Wiseman. 2,953,044.
- King, Fenton B., Jr. 2,937,451.
- Laemmel, Charles H. 2,933,955.
- Mahlmeister, Raymond A. 2,919,519.
- Mahlmeister, Raymond A., and Straw. 2,924,018.
- Straw, Jesse H. 2,950,654.
- Sheffield, John E.: *See*—
- Prance, Edgar E., and Sheffield. 2,932,127.
- Sheffield Plastics, Inc.: *See*—
- Orr, John B. 2,955,955.
- Sheffield, Wilbur L.: *See*—
- Lewis, John H., and Sheffield. 2,957,533.
- Shelby, Edward S.,  $\frac{1}{2}$  to Parsons, Brinckerhoff, Hall & MacDonald. Marine hose loader. 2,922,446, 1-26-60, Cl. 141-388.
- Shelks, Harold F. Apparatus for charging open hearth furnaces. 2,962,174, 11-29-60, Cl. 214-18.
- Shelks, Howard D., and G. B. Newhouse, to Bell & Howell Co. Apparatus for reproducing intelligence by compound modulation. 2,945,212, 7-12-60, Cl. 340-174.
- Shelter, Henry. Door sealing construction. 2,934,802, 5-3-60, Cl. 20-69.
- Shelanski, Herman A., deceased, by B. S. Rosen, executrix and by H. Fair, trustee, to General Aniline & Film Corp. Germicidal detergent compositions. 2,931,777, 4-5-60, Cl. 252-106.
- Shelby Metal Products Co., The: *See*—
- Seyforth, Rome C. 2,934,205.
- Shelby Spring Hinge Co., The: *See*—
- Pittenger, Francis H. 2,930,071.
- Shelby, Wallace A., Jr., to H. H. Robertson Co. Device for bending metal tongues. 2,937,549, 5-24-60, Cl. 81-15.
- Sheldahl, David B., to Sinclair Refining Co. Corrosion inhibiting composition. 2,958,603, 11-1-60, Cl. 106-14.
- Sheldon, Edward E. Endoscopic devices. 2,922,844, 1-26-60, Cl. 178-6.8.
- Sheldon, Edward J., Jr.: *See*—
- Cole, Benjamin R., and Sheldon. 2,939,004.
- Cole, Benjamin R., and Sheldon, Jr. 2,966,586.
- Sheldon, George, (Walsall) Ltd.: *See*—
- Adams, George M. 2,962,156.
- Sheldon, John L., to Corning Glass Works. Aperture mask coating to prevent cathode poisoning. 2,942,130, 6-21-60, Cl. 313-85.
- Sheldon, Joseph A. Dental instrument for ligating, placing, and removing pins, adjusting, etc. 2,932,894, 4-19-60, Cl. 32-66.
- Sheldon, Luther M., to General Electric Co. Interchangeable wiring device with pressure lock terminals. 2,946,977, 7-26-60, Cl. 339-95.
- Sheldon, Luther M., to General Electric Co. Wiring device with simplified wire terminals. 2,955,276, 10-4-60, Cl. 339-95.
- Sheldon, Robert S.: *See*—
- Kennedy, Starrett C., and Sheldon. 2,955,673.
- Sheldon, William M., to Metals Disintegrating Co., Inc. Vertical pulverizing machine. 2,922,589, 1-26-60, Cl. 241-53.
- Sheldrick, William F.: *See*—
- Bradley, John K., Brown, and Sheldrick. 2,954,286.
- Shelley, Ross C., to American Can Co. Can body making and side seam soldering machine with seam aligning device and brake. 2,923,264, 2-2-60, Cl. 113-63.
- Shelfmaker Products Corp.: *See*—
- Du Boff, Philip, and Miller. 2,946,458.
- Shell Development Co.: *See*—
- Arلمان, Evert J. 2,921,046.
- Bluestone, Henry. 2,925,445.
- Bruin, Pieter, Oosterhof, and Selman. 2,921,923.
- Buls, Vernon W., and Miller. 2,923,745.
- Dost, Nicolaas, and Berkenbosch. 2,923,657.
- Engel, Willem F., and Krijger. 2,926,135.
- Hackmann, Johannes T. 2,923,656.
- Jense, Willem F., van der Minne, and Hermante. 2,927,079.
- Lowman, Malden C. 2,921,102.
- Magovern, Robert L. 2,921,101.
- Marshall, John A. 2,921,014.
- Martin, Robert W. 2,926,153.
- May, Clayton A. 2,921,040.
- Menn, Jacob J., and Wallace. Re. 24,834.
- Mullineaux, Richard D., and Raley. 2,921,013.
- Schroeder, Carl W. 2,925,426.
- Shiras, Russell N. 2,921,015.
- Shokal, Edward C. 2,925,403.
- Toussaint, Yves. 2,924,577.
- Verwey, Cornelius, and Schoenmakers. 2,921,818.
- Vogel, Charles B. 2,923,915.
- Shell, Francis J., to Phillips Petroleum Co. Cement compositions and process of cementing wells. 2,961,044, 11-22-60, Cl. 166-21.
- Shell, Francis J., and R. D. Still, to Phillips Petroleum Co. Composition comprising cement methyl silicate salt and cellulose ether method of making and process of employing same. 2,924,277, 2-9-60, Cl. 166-33.
- Shell, Haskiel R., to United States of America, Interior. Impact-resistant ceramics from synthetic fluoramphiboles and processes of making same. 2,948,629, 8-9-60, Cl. 106-39.
- Shell, Haskiel R., and J. E. Comeforo, to United States of America, Interior. Impact resistant ceramic dielectric and method of making same. 2,934,443, 4-26-60, Cl. 106-39.
- Shell Oil Co.: *See*—
- Anderson, Elmer A., Foster, Gable, and Hood. 2,960,447.
- Anderson, William S. 2,943,987.
- Anderson, William S., and Porter. 2,965,625.
- Arbogast, James L., Fay, and Kaufman. 2,963,642.
- Armstrong, Warren E., and Wilson. 2,940,940.
- Bauer, Robert F., and Stratton. 2,923,531.
- Black, Cline. 2,961,383.
- Branin, Franklin H., Jr. 2,939,077.
- Breier, Irwin L., Cheney, and Knott. 2,937,212.
- Bruin, Pieter, and Klootwijk. 2,947,760.
- Bruin, Pieter, and Sinnema. 2,951,824.
- Bruin, Pieter, and Zonsveld. 2,955,101.
- Campanile, Vincent A. 2,959,700.
- Case, Bruce G., and Coster. 2,928,217.
- Claridge, Elmond L. 2,952,613.
- Cogan, Myles H. R. 2,948,995.
- Coit, Robert A., and Sorem. 2,952,335.
- Collins, Allen. 2,961,304.
- Coppinger, Galvin M. 2,940,988.
- Courter, Martin L., and Mecorney. 2,960,511.
- Crake, Wilfred S. 2,939,290.
- Crespin, George T. F., and Peperzak. 2,965,522.
- Cummings, Benjamin H. 2,953,155.
- Cunningham, Richard G., Havelly, and Price. 2,961,405.
- De Benedictis, Aldo. 2,939,879.
- De Hoff, Ronald L., and Parry. 2,938,004.
- De La Mare, Harold E. 2,957,929.
- Diamond, Hyman. 2,940,929.
- Dijkstra, Christiaan. 2,953,306.
- Doddy, Patrick J., and Geopfert. 2,940,265.
- Doscher, Todd M., and Yarbrough. 2,953,204.
- Dupzyk, Ronald J., and Woods. 2,940,928.
- Dybert, Justin C., and Coldren. 2,941,621.
- Edgar, John A., Bergstrom, and Jones. 2,958,660.
- Edgar, John A., Bergstrom, and Jones. 2,958,662.
- Eggertsen, Frank T., and Gibson. 2,952,630.
- Evans, Harry D. 2,939,834.
- Fetterly, Lloyd C. 2,957,551.
- Fischer, Rudolph F. 2,945,018.
- Fischer, Rudolph F. 2,952,670.
- Fischer, Rudolph F. 2,966,479.
- Fowkes, Frederick M., and Bollo. 2,933,382.
- Francis, Charles E. 2,961,404.
- Garner, Philip J. 2,940,839.
- Gerolt, Philipp. 2,941,922.



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 Goodell, Richard R. 2,953,023.  
 Gordon, Benjamin E. 2,953,146.  
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 Greene, Charles R. 2,941,006.  
 Groot, Jacob, and Pieters. 2,952,636.  
 Guinn, Vincent P. 2,952,775.  
 Guinn, Vincent P., and Brewer. 2,938,860.  
 Hackmann, Johannes T., and Haken. 2,960,395.  
 Haebler, John A. 2,965,174.  
 Hardebol, Jacobus, and Hendal. 2,955,432.  
 Harden, Gail D. 2,965,114.  
 Hartley, James, and Downer. 2,945,014.  
 Hausch, Douglas C. 2,952,616.  
 Hausch, Douglas C. 2,952,631.  
 Havel, Theodore W., Sprague, and Westcott. 2,961,408.  
 Hawkinson, Donald R., and Dushkes. 2,965,119.  
 Holland, Stephen D., and Borrows. 2,965,612.  
 Hood, George C., Smith, and Pierotti. 2,949,343.  
 Iglehart, Richard L., and Sowles. 2,931,469.  
 King, Ralph W., and Movsovic. 2,957,897.  
 Kloosterziel, Hendrik, and Pieters. 2,945,071.  
 Kooljman, Pieter L., Doorman, and Kortland. 2,933,451.  
 Koome, Jacob, and Stijntjes. 2,947,685.  
 Koome, Jacob, Stijntjes, and Meerbott. 2,939,836.  
 Kruijer, Geert G. 2,944,807.  
 La France, Donald S., Finch, and Hearne. 2,935,452.  
 Lorensen, Lyman E., Zachar, and Jones. 2,944,974.  
 Lorensen, Lyman E., Zachar, and Jones. 2,957,854.  
 Low, Hans, and Reynolds. 2,944,915.  
 Marshall, John A., Kunreuther, Reno, and Rehbein. 2,956,003.  
 Martin, Robert W., and Holm. 2,938,875.  
 Martin, Robert W., and Pannell. 2,965,607.  
 Martin, Robert W., and Schwarzer. 2,965,608.  
 McLaren, Gordon A. 2,965,559.  
 Mecorney, John W. 2,939,882.  
 Merten, Eugen. 2,953,214.  
 Meyers, Douglas C. 2,961,286.  
 Milmore, Oswald H. 2,965,431.  
 Moore, Walter R. 2,961,309.  
 Mueller, Albert C., and Bradley. 2,961,424.  
 Nagelkerke, Willem, and Meijer. 2,938,599.  
 Nans, Robert H. 2,963,641.  
 Nelsen, Fred M., and Eggertsen. 2,960,870.  
 Newey, Herbert A. 2,935,492.  
 Newey, Herbert A. 2,940,986.  
 Newey, Herbert A. 2,949,441.  
 Newey, Herbert A. 2,965,609.  
 Newey, Herbert A. 2,965,610.  
 Oertling, Sewall J. 2,952,632.  
 Osborne, William H., and Harden. 2,953,157.  
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 Pannell, Calvin E. 2,965,622.  
 Paul, Albert P. 2,965,452.  
 Payne, George B. 2,947,761.  
 Payne, George B., Smith, and Van Ess. 2,957,907.  
 Peterson, Walter H. 2,944,970.  
 Ramey, David E., Hughes, and Van Overbeek. 2,955,929.  
 Reamer, Thomas E., and Weigel. 2,958,661.  
 Reed, Davis W. 2,964,942.  
 Rethmeier, Karel L. 2,942,584.  
 Reynolds, Richard J. 2,935,485.  
 Reynolds, Richard J., and Norton. 2,965,605.  
 Ruedisul, Wilhelmus M. J. 2,944,004.  
 Ruedisul, Wilhelmus M. J., and 't Hart. 2,944,003.  
 Rumscheidt, Gottfried E., and Bruin. 2,939,859.  
 Schoenmakers, Pieter J. 2,935,466.  
 Schwarzer, Carl G. 2,965,611.  
 Shea, Carter L., Harden, and Barrett. 2,953,158.  
 Shokal, Edward C. 2,941,003.  
 Shokal, Edward C., and Devlin. 2,940,946.  
 Shokal, Edward C., and Devlin. 2,940,955.  
 Simpson, Warren C. 2,952,607.  
 Simpson, Warren C. 2,956,034.  
 Skinner, John R., and van Helden. 2,961,434.  
 Skinner, John R., and Wilcoxon. 2,938,040.  
 Sletcher, Charles A., Jr. 2,965,695.  
 Smith, Curtis W., and May. 2,957,837.  
 Smith, William C., McMurray, and Holmes. 2,960,477.  
 Spijker, Peter V., and Sweep. 2,939,832.  
 Stiles, Alan R. 2,957,904.  
 Strand, Carl P. 2,934,326.  
 Stratton, Hal. 2,929,610.  
 Sullivan, William J. 2,940,982.  
 Tappmeyer, Ronald A. 2,947,520.  
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 Te Nuy, Johannes A., and Smulders. 2,952,310.  
 Tess, Roy W. 2,965,615.  
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 Thorpe, Roy E., and Nixon. 2,943,986.  
 Trainor, Richard P. 2,952,612.  
 Van der Bussche, Hendrik K. J. 2,965,077.  
 Van Der Waarden, Mathijs, Tjepkema, Huyser, Hartstra, and Reman. 2,938,828.  
 Van Dijk, Van Der Plas, and de Keizer. 2,934,529.  
 Van Dijk, Willem J. D. 2,944,620.  
 Van Dommelen, Joannes A. W. J. 2,947,577.  
 Van Heel, Frederick H. 2,945,891.  
 Van Overbeek, Johannes. 2,940,895.  
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 Whetstone, Richard R. 2,965,533.  
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 Wilhelmsen, Paul C. 2,934,415.  
 Williams, Paul H., Payne, and Van Ess. 2,953,579.  
 Wilson, Raymond A. 2,944,963.  
 Winter, Ernest F., and Wooldridge. 2,960,103.  
 Wolfson, Willem J. 2,953,522.  
 Young, Charles W. 2,953,525.  
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 Shelley, James P., and G. H. Agnew, to Rohm & Haas Co. 1,9-dihydroxy-2,8-dimethyl-5-hydroxymethylnonane. 2,964,570, 12-13-60, Cl. 260-635.  
 Shelley, Jesse J. : See—  
 Chaplik, Rubin, and Shelley. 2,962,877.  
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 Shelley, Robert J. Elevator. 2,928,639, 3-15-60, Cl. 248-204.  
 Shellhaue, Ronald L., to General Motors Corp. Piston seal structure. 2,955,887, 10-11-60, Cl. 309-23.  
 Shelly, Robert S., to Pack Mfg. Co. Reinforced multi-tube structure. 2,954,054, 9-27-60, Cl. 138-74.  
 Shelman, Cecil B., to General Dynamics Corp. (Convair Division). Magnetic core circuit. 2,940,067, 6-7-60, Cl. 340-174.  
 Shelner, Robert J. Installation tool for check valve assembly. 2,931,679, 4-5-60, Cl. 294-86.  
 Shelton, Aaron C. : See—  
 Dewitt, John H., Jr., and Shelton. 2,953,710.  
 Shelton, Charles T., to United States of America, Army. Automatic beam control for television camera tubes. 2,930,929, 3-29-60, Cl. 315-10.  
 Shelton, Frederic J., T. S. Hodgins, and C. L. Allyn, to Reichold Chemicals, Inc. Process for production of chlorinated phenols with recovery of hydrochloric acid. 2,947,790, 8-2-60, Cl. 260-623.  
 Shelton, Glenmore L., Jr., to International Business Machines Corp. Method of and apparatus for recording. 2,955,277, 10-4-60, Cl. 340-149.  
 Shelton, John H. Fabric treating machine. 2,960,963, 11-22-60, Cl. 118-419.  
 Shelton, Leslie C. Hammer with deflecting shield. 2,920,667, 1-12-60, Cl. 145-29.  
 Shelton, Leslie C. Claw hammer. 2,920,869, 1-12-60, Cl. 254-26.  
 Shelton, Luther L., to Industrial Research Co. Motor boat structure. 2,945,466, 7-19-60, Cl. 114-62.  
 Shelton, Luther L., to Industrial Research Co. Fluid pump. 2,948,230, 8-9-60, Cl. 103-123.  
 Shelton, Stephen M., to Oregon Metallurgical Corp. Treatment of alloys containing iron group metals. 2,946,677, 7-26-60, Cl. 75-97.  
 Shelton, Thayer E. Heating apparatus. 2,963,225, 12-6-60, Cl. 237-2.  
 Shelton, Winston L., to General Electric Co. Clothes washer with means for automatically providing the correct water level. 2,934,928, 5-3-60, Cl. 68-207.  
 Shelton, Winston L., to General Electric Co. Mixing valve. 2,935,079, 5-3-60, Cl. 137-110.  
 Shemanske, Richard, to Borg-Warner Corp. Electric motor control circuit. 2,959,720, 11-8-60, Cl. 318-207.  
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 Tomkins, David E. 2,948,301.  
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 Sisco, William E., Moyer, and Shenian. 2,920,121.  
 Sisco, William E., Shenian, and Moyer. 2,955,144.  
 Shenk, Adolphus M., to Ideal Chemical Products, Inc. Flame-resistant, high-heat insulating composition. 2,938,937, 5-31-60, Cl. 260-736.  
 Shepard, Arthur P., to Metallizing Engineering Co. Inc. Spray-weld alloys. 2,936,229, 5-10-60, Cl. 75-5.  
 Shepard, Arthur P., to Meteco Inc. Wire guide for heat-fusible material spray guns. 2,960,274, 11-15-60, Cl. 239-83.  
 Shepard, Arthur P., to Metallizing Engineering Co. Inc. Method and apparatus for applying heat-fusible coatings on solid objects. 2,961,335, 11-22-60, Cl. 117-46.  
 Shepard, Billy R. : See—  
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 Shepard, David H., and H. W. Silsby III, to Intelligent Machines Research Corp. Apparatus for regulating output of photosensitive scanners. 2,943,208, 6-28-60, Cl. 250-219.  
 Shepard, Edwin R. : See—  
 Kline, Granville B., and Shepard. 2,952,688.  
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- Shepard, Francis H., Jr.: *See*—  
Rabinow, Jacob, Bailey, and Shepard. 2,935,900.
- Shepard, Francis H., Jr. Radio range finder. 2,923,933, 2-2-60, Cl. 343-13.
- Shepard, Francis H., Jr. Intermittent drive apparatus. 2,924,314, 2-9-60, Cl. 192-18.
- Shepard, Francis H., Jr. Square pulse generator. 2,929,942, 3-22-60, Cl. 307-106.
- Shepard, Francis H., Jr. Electronic switch. 2,947,910, 8-2-60, Cl. 315-163.
- Shepard, Francis H., Jr. Superregenerative radio range finder. 2,962,711, 11-29-60, Cl. 343-13.
- Shepard, Francis H., Jr. Audio automatic volume control. 2,964,713, 12-13-60, Cl. 330-135.
- Shepard, George A., to Republic Steel Corp. Aluminum evaporated coating on ferrous metal. 2,959,494, 11-8-60, Cl. 117-50.
- Shepard, Richard L., to American Cyanamid Co. Preparation of 2-acylamino-5-mercapto-1,3,4-thiadiazole. 2,937,182, 5-17-60, Cl. 260-306.8.
- Shepard, Robert L.: *See*—  
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- Shepard, Wayland L., to General Electric Co. Television camera system. 2,949,500, 8-16-60, Cl. 178-7.2.
- Shepard, Willis F.: *See*—  
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- Shepardson, Donald W.: *See*—  
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- Shepardson, Jed P., to Dow Corning Corp. Silicate diffusion pump fluids. 2,951,629, 9-6-60, Cl. 230-101.
- Shepherd, George R. L.: *See*—  
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- Shepherd, Herman R.: *See*—  
Prussin, Samuel B., Shepherd, and Present. 2,953,284.
- Shepherd, Joseph H. Pegged target. 2,922,650, 1-26-60, Cl. 273-104.
- Shepherd, Joseph L.: *See*—  
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- Shepherd Machinery Co.: *See*—  
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- Shepherd, Willard W. 2,964,863.
- Shepherd, Robert F.: *See*—  
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- Shepherd, Solomon W. Passenger amusement ride. 2,934,341, 4-26-60, Cl. 272-38.
- Shepherd, Thomas C. R. Valves for controlling flow of liquids. 2,920,633, 1-12-60, Cl. 134-115.
- Shepherd, Warren A., Jr., to The Stanley Works. Hammer butt plug. 2,960,133, 11-15-60, Cl. 145-61.
- Shepherd, Willard W., to Shepherd Machinery Co. Machine with movable trunnions. 2,964,863, 12-20-60, Cl. 37-144.
- Shepherd, William G., to Regents of the University of Minnesota. Vacuum tube. 2,932,759, 4-12-60, Cl. 313-337.
- Sheppard, Allan G., to Sterling Precision Corp. Apparatus for making fire extinguishing air foam. 2,936,835, 5-17-60, Cl. 169-14.
- Sheppard, Raymond, to General Electric Co. Heavy duty segmental bearing shoe. 2,955,003, 10-4-60, Cl. 308-160.
- Sheppard, Richard H. Plow bottom. 2,948,346, 8-9-60, Cl. 172-754.
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- Sheppard, William A., to E. I. du Pont de Nemours and Co. Process for preparing polyfluoroalkaneethiol. 2,961,470, 11-22-60, Cl. 260-609.
- Sheps, Martin I., to The Black & Decker Mfg. Co. Sanding apparatus. 2,929,177, 3-22-60, Cl. 51-273.
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- Sher, Fred D., to ACF Industries, Inc. Magnetic recorder. 2,921,991, 1-19-60, Cl. 179-100.2.
- Sheridan, David S. Indicator dial counter computer for gas, light and water meters. 2,950,861, 8-30-60, Cl. 235-61.
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- Sherbloom, Thomas F. Method and mold for forming ice objects. 2,939,299, 6-7-60, Cl. 62-355.
- Sherbondy, William A. Caulking gun and cartridge therefor. 2,920,797, 1-12-60, Cl. 222-327.
- Sherbondy, William A. Cookie press and cookie dough cartridge. 2,927,543, 3-8-60, Cl. 107-52.
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- Sherbrook, Victor A. Method of making a laminated ribbed insole. 2,940,097, 6-14-60, Cl. 12-146.
- Sherburne, Philip C., to Grinnell Corp. Spring hanger. 2,936,142, 5-10-60, Cl. 243-54.
- Sherburne, Philip C., to Grinnell Corp. Pipe riser support and clamp. 2,942,820, 6-28-60, Cl. 248-62.
- Sherburne, Philip C., to Grinnell Corp. Constant support hangers. 2,945,656, 7-19-60, Cl. 248-58.
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- Sherburne, Philip C., and A. Zollinger, to Grinnell Corp. Motor actuated pipe hanger and positioner. 2,965,343, 12-20-60, Cl. 248-58.
- Sherer, Donald L. Seeder and spreader. 2,941,811, 6-21-60, Cl. 275-8.
- Sheridan, David S. Nasal cannulae. 2,931,358, 4-5-60, Cl. 128-206.
- Sheridan, David S. Production of tapered medico-surgical tubes which have controlled wall thickness by extrusion. 2,940,126, 6-14-60, Cl. 18-55.
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- Sheridan Park Mfg. Co., Inc.: *See*—  
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- Sheridan, T. W. & C. B. Co.: *See*—  
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- Sheridan, Thomas R.: *See*—  
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- Sherman, Arthur, D. F. Ferris, and S. Lehrer, to United States of America, Air Force. Fluid flow control means. 2,919,543, 1-5-60, Cl. 60-35.6.
- Sherman, Charles A., to Weyerhaeuser Co. Method and means for marking articles and for processing marked articles. 2,952,204, 9-13-60, Cl. 101-35.
- Sherman, Donald W., to A. O. Smith Corp. Method and apparatus for cutting blanks and rotating alternate pieces into feeding alignment. 2,937,553, 5-24-60, Cl. 83-23.
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- Sherman Fairchild & Associates, Inc.: *See*—  
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- Sherman, Harry, Jr., to National Union Electric Corp. Cathode-ray tube for radar scopes and the like. 2,941,116, 6-14-60, Cl. 315-3.
- Sherman, Howell. Apparatus for operating a physiotherapeutic instrument or other device. 2,924,101, 2-9-60, Cl. 74-1.
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- Sherman, Kenneth C., to Sherman Enterprises, Inc. Bowling pin setting machine. 2,920,891, 1-12-60, Cl. 273-43.
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- Sherman, Orville B., to Owens-Illinois Glass Co. Method for making composite plastic containers. 2,936,489, 5-17-60, Cl. 18-55.
- Sherman, Orville B., to Owens-Illinois Glass Co. Apparatus for forming hollow plastic articles. 2,940,121, 6-14-60, Cl. 18-5.
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- Sherman, Ralph H., Jr., and M. F. Spears, to Dictaphone Corp. Shielded magnetic translating apparatus. 2,951,912, 9-6-60, Cl. 179-100.2.
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- Sherman, William C., G. A. Donovan, W. M. Reynolds, and H. G. Luther, to Chas. Pfizer & Co., Inc. Oleandomycin antibiotic in feed. 2,925,342, 2-16-60, Cl. 99-2.
- Sherman, William R., to Abbott Laboratories. Thiosemicarbazides. 2,945,047, 7-12-60, Cl. 260-347.2.
- Sherman, William R., to Abbott Laboratories. Phenyl derivatives of 5-nitrofurouguanamine. 2,953,564, 9-20-60, Cl. 260-249.9.
- Shermer, David A., to Olin Mathieson Chemical Corp. Cyclic process for manufacture of 2-chloropyridine-1-oxide. 2,951,844, 9-6-60, Cl. 260-290.
- Shermer, Vernon H. Collapsible tube dispenser. 2,964,218, 12-13-60, Cl. 222-101.
- Sherosky, Frank. Single guard razor with blade-adjusting means. 2,930,120, 3-29-60, Cl. 30-47.



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- Sherrill, Price B., Jr., to Cocker Machine & Foundry Co. Automatic control mechanism for a marking machine. 2,930,346, 3-29-60, Cl. 118-11.
- Sherrington, John E., to Farrow and Jackson Ltd. Conveyor mechanisms. 2,961,125, 11-22-60, Cl. 221-75.
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- Montgomery, Richard B. 2,961,295.
- Sherron, Percival H. Telephone booth lighting and ventilating means. 2,925,770, 2-23-60, Cl. 98-39.
- Sherron, Percival H. Telephone booth. 2,928,141, 3-15-60, Cl. 20-35.
- Sherron, Percival H. Illuminated telephone booth. 2,932,106, 4-12-60, Cl. 40-130.
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- Sheris, William M., and S. A. Schaffer, to Pittsburgh Plate Glass Co. Lens blank transfer apparatus. 2,964,162, 12-13-60, Cl. 198-31.
- Sheris, William M., and W. E. Zurney, to Pittsburgh Plate Glass Co. Molding apparatus. 2,966,006, 12-27-60, Cl. 49-35.
- Sheris, William M., J. E. Tatsak, and W. E. Zurney, to Pittsburgh Plate Glass Co. Glass pressing apparatus. 2,966,007, 12-27-60, Cl. 49-72.
- Sherwen, Joseph W., to The General Electric Co. Ltd. Vibratory conveyor apparatus. 2,941,658, 6-21-60, Cl. 198-220.
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- Shetterly, William B., and J. E. Cowling, to United States of America, Navy. Bonding silicone rubber to metal. 2,957,794, 10-25-60, Cl. 154-130.
- Shevchenko, Richard P., to United Aircraft Corp. Pressure relieved ring seal. 2,921,805, 1-19-60, Cl. 286-11.13.
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- Shiah, Chyn D. Hydrocarbon treating process. 2,941,940, 6-21-60, Cl. 208-241.
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- Shields, Albert F., to S & S Corrugated Paper Machinery Co., Inc. Blank stacking, straightening and delivery device. 2,963,177, 12-6-60, Cl. 214-6.
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- Shields, Joseph H., to J. H. Van Moss, Jr. Expanding anchor and plug with an exhaust passage. 2,963,935, 12-13-60, Cl. 85-24.
- Shields, Walter A. Apparatus for cleaning vials and inserting a plunger into one end of each cleaned vial. 2,948,004, 8-9-60, Cl. 15-4.
- Shields, William H., and H. T. Buckley, to Emery Industries, Inc. Process for lubricating and promoting the cohesion of textile fibers. 2,944,920, 7-12-60, Cl. 117-139.5.
- Shields, William R., to United States of America, Atomic Energy Commission. Mass spectrometer leak. 2,956,771, 10-18-60, Cl. 251-61.
- Shiels, Robert A., to The Excello Paper Products Co. Combination separator or divider and display sheet. 2,928,200, 3-15-60, Cl. 40-310.
- Shiels, Robert A., to The Mead Corp. Combination display shelf and divider or separator for a stack of columnar articles. 2,950,820, 8-30-60, Cl. 211-49.
- Shiffier, Albert E., to Best Feeds & Farm Supplies, Inc. Method for sterilizing granular food. 2,953,429, 9-20-60, Cl. 21-2.
- Shiffman, Jerome. Jewelry cases. 2,925,191, 2-16-60, Cl. 220-31.
- Shillington, Harry R., to Western Electric Co., Inc. Electrical test sets. 2,925,553, 2-16-60, Cl. 324-54.
- Shillington, Harry R., to Western Electric Co., Inc. Capacitance and breakdown test set for capacitors. 2,929,021, 3-15-60, Cl. 324-60.
- Shillitto, Arthur, D. M. Watts, and K. A. Billingham, to The English Electric Co. Ltd. Charge chutes for atomic reactors. 2,930,744, 3-29-60, Cl. 204-193.2.
- Shils, Lee H., to ACF Industries, Inc. Doorway corner construction. 2,948,026, 8-9-60, Cl. 20-11.
- Shimanakas, William J., to Outboard Marine Corp. Rotor for actuating a control cable. 2,947,194, 8-2-60, Cl. 74-501.
- Shimel, Arthur L. Locomotive portable storm window box. 2,930,087, 3-29-60, Cl. 20-40.
- Shimeld, Tom A. G., to Davy and United Engineering Co., Ltd. Turn-over gear for use with rolling mills and the like. 2,940,612, 6-14-60, Cl. 214-1.
- Shimizu, Hiroshi, A. Miyahara, S. Oikawa, and O. Nasu. Process for the purification of beet sugar juice by means of ion exchange resins. 2,926,110, 2-23-60, Cl. 127-46.
- Shimizu, Jin'Ichi. Steam traps. 2,955,611, 10-11-60, Cl. 137-185.
- Shimomura, Kenji. Rotary internal combustion engine. 2,958,312, 11-1-60, Cl. 123-13.
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- Shinefeld, David, to Multipane, Inc. Multiple pane window units. 2,933,780, 4-26-60, Cl. 20-56.5.
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- Shinn, William T., to Philco Corp. Fabrication of semiconductor and the like. 2,958,042, 10-25-60, Cl. 324-158.
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- Shipley, Eugene E., to General Electric Co. Torque applying and measuring device. 2,935,869, 5-10-60, Cl. 73-136.
- Shipley, Eugene E., to General Electric Co. Grease seal for high speed flexible coupling. 2,943,463, 7-5-60, Cl. 64-9.
- Shipley, Robert M., Jr. Method for determination of color of gems. 2,960,909, 11-22-60, Cl. 88-14.
- Shipman, Carl N., Jr., to Radio Corp. of America. Automatic sound sequence selecting system. 2,932,696, 4-12-60, Cl. 179-100.1.
- Shipp, John W., to Athens Plow Co. Offset harrow. 2,944,614, 7-12-60, Cl. 172-316.
- Shipwash, Mack L., 1/2 to James A. Summers. Means for controlling relative position of elements in a circular knitting machine. 2,962,882, 12-6-60, Cl. 66-55.
- Shiraef, Dmitry A., to General Aniline & Film Corp. Solid detergent composition and process for preparation thereof. 2,927,900, 3-8-60, Cl. 252-152.
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- Shirk, Newman S. Reversal film method. 2,944,897, 7-12-60, Cl. 96-64.
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- Shnitzler, Meyer J., and M. D. Benedict, Jr., to The Gillette Co. Safety razor with adjustable blade setting. 2,932,911, 9-20-60, Cl. 30-60.5.
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- Shockley, William. P-N junction having minimum transition layer capacitance. 2,953,488, 9-20-60, Cl. 148-33.
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- Shoemaker, Clyde A., to Food Machinery and Chemical Corp. Apparatus for adjusting vehicle headlamps. 2,940,174, 6-14-60, Cl. 33-180.
- Shoemaker, Edwin J.: See—  
Knabusch, Edward M., and Shoemaker. 2,963,077.
- Shoemaker, Franklin W.: See—  
Harmon, Carlyle, and Shoemaker. 2,945,283.
- Shoemaker, Harold L.: See—  
May, Harold F., and Shoemaker. 2,942,355.
- Shoemaker, Howard E.: See—  
Chiotti, Premo, and Shoemaker. 2,942,968.
- Shoemaker, James C., to Simplex Forms Systems, Inc. Tie-wires for concrete forms. 2,920,371, 1-12-60, Cl. 25-131.
- Shoemaker, Richard N., to Chas. Pfizer & Co., Inc. Synthesis of 2-keto-L-gulonic acid. 2,948,659, 8-9-60, Cl. 195-47.
- Shoemaker, Robert H., J. A. Faler, and T. J. Nolan, to Kolene Corp. Molten salt bath apparatus for electrolytic cleaning of metals. 2,936,278, 5-10-60, Cl. 204-206.
- Shoemaker, William E., to California Research Corp. Apparatus for controlling initiation of seismic disturbances. 2,926,739, 3-1-60, Cl. 181-5.
- Shoffner, Willie M., to The Fogarty Mfg. Co. Work support and gauging means for a cut-off machine. 2,927,404, 3-8-60, Cl. 51-98.
- Shoffner, Willie M. Base member for cribbing devices. 2,933,276, 4-19-60, Cl. 248-194.
- Shohan, Elliot. Irrigation coupler gasket. 2,923,308, 2-2-60, Cl. 137-107.
- Shokal, Edward C., to Shell Development Co. New polyepoxides from epoxy-substituted cycloaliphatic alcohols, their preparation and polymers. 2,925,403, 2-16-60, Cl. 260-47.
- Shokal, Edward C., to Shell Oil Co. New sulfur and phosphorus-containing hydroxy polyamines and their preparation. 2,941,003, 6-14-60, Cl. 260-563.
- Shokal, Edward C., and P. A. Devlin, to Shell Oil Co. Allyl alcohol-vinyl aromatic copolymers. 2,940,946, 6-14-60, Cl. 260-23.
- Shokal, Edward C., and P. A. Devlin, to Shell Oil Co. Olefin copolymer. 2,940,956, 6-14-60, Cl. 260-73.
- Sholes, Justin G., Jr.: See—  
Parry, Robert D. 2,953,320.
- Sholick, Jacob. Flooring jack. 2,933,288, 4-19-60, Cl. 254-12.
- Sholin, Edwin E., 1/3 to Herbert D. Sholin, and 1/3 to Henry T. Sommers. Crushing machine. 2,962,958, 12-6-60, Cl. 100-233.
- Sholin, Edwin E., 1/3 to Herbert D. Sholin, and 1/3 to Henry T. Sommers. Jackscrew actuated crushing machine. 2,962,959, 12-6-60, Cl. 100-233.
- Sholin, Herbert D.: See—  
Sholin, Edwin E. 2,962,958.  
Sholin, Edwin E. 2,962,959.
- Sholl, Edward H.: See—  
Reinecke, Marvin E., and Sholl. 2,934,693.
- Sholle, Roger W.: See—  
Shoup, Thomas E., Sholle, and Mowry. Re. 24,832.
- Sholovitz, Joseph H. Shoe. 2,919,503, 1-5-60, Cl. 36-9.
- Sholtes, George T., and C. T. Maney, to General Electric Co. Valveless two way pump. 2,946,286, 7-26-60, Cl. 103-2.
- Shonkwiler, Francis P.: See—  
Sommer, Alvin H., and Shonkwiler. 2,961,978.
- Shook, Ellsworth, 50% to S. M. Corbett. Level winding fishing reel. 2,927,745, 3-8-60, Cl. 242-84.42.
- Shook, Miles P., and F. Nemoede; said Shook assor. to said Nemoede. Swimming pool safety device. 2,958,083, 11-1-60, Cl. 4-172.
- Shook, Ross O. S. Knee brace. 2,959,168, 11-8-60, Cl. 128-80.
- Shook, William M.: See—  
Curtis, Myron S., and Shook. 2,954,012.
- Shook, William M., to The Warner & Swasey Co. Material handling and earth moving apparatus. 2,940,623, 6-14-60, Cl. 214-141.
- Shook, William M., to The Warner & Swasey Co. Material handling apparatus. 2,959,923, 11-15-60, Cl. 60-97.
- Shoosmith, Guy T., to Plenty and Son Ltd. Control of variable-capacity pumps. 2,940,429, 6-14-60, Cl. 121-41.
- Shoosmith, Guy T., to Plenty and Son Ltd. Pump control apparatus. 2,958,310, 11-1-60, Cl. 121-41.
- Shoosmith, Guy T., to Plenty and Son Ltd. Pumps. 2,959,131, 11-8-60, Cl. 103-44.
- Shooter, Donald J., to Borg-Warner Corp. Slide-away door structure. 2,925,081, 2-16-60, Cl. 126-190.
- Shop-O-Rama, Inc.: See—  
Miller, William N., Jr. 2,966,094.
- Shopping Bag Food Stores: See—  
Thompson, Norris J. 2,919,927.
- Shorb, Marion P., to Dictaphone Corp. Amplifier for recording and playback in a dictating machine and the like. 2,961,496, 11-22-60, Cl. 179-100.2.
- Shorb, Marion P., to Dictaphone Corp. Magnetic reproducing apparatus. 2,965,722, 12-20-60, Cl. 179-100.2.
- Shore, Charles, to Falco Products Co. Portable circular folding table. 2,934,386, 4-26-60, Cl. 311-90.



- Shore, Charles, to Falco Products Co. Collapsible clothesline dryer. 2,957,591, 10-25-60, Cl. 211-178.
- Shore, Charles, and E. Leshner, to Falco Products Co. Extension ladder. 2,944,625, 7-12-60, Cl. 182-106.
- Shore, Sidney X. Photographic speed monitor. 2,927,836, 3-8-60, Cl. 346-107.
- Shore-Calnevar, Inc.: *See*—
- Sloier, Harold E. 2,924,494.
- Shorr, Leonard M., to Dow Corning Corp. Polyisocyanate-hydroxy aliphatic hydrocarbon substituted siloxane coating composition. 2,924,587, 2-9-60, Cl. 260-46.5.
- Short, Brooks H.: *See*—
- Bolles, Julius H., Hartman, and Short. 2,964,774.
- Short, Brooks H., to General Motors Corp. Ignition system. 2,955,248, 10-4-60, Cl. 323-58.
- Short Bros.: *See*—
- Ransom, Richard S. 2,962,003.
- Short, Frederick R., and R. B. Koschmann, to General Motors Corp. Method of making a compressor seal. 2,962,809, 12-6-60, Cl. 29-445.
- Short, Grace L. Easy open and close jar lid. 2,950,833, 8-30-60, Cl. 215-63.
- Short, Harold O.: *See*—
- Riley, Robert H., Jr., and Short. 2,942,490.
- Short, Harold O., to The Black and Decker Mfg. Co. Combination portable electric drill and screwdriver. 2,950,626, 8-30-60, Cl. 74-333.
- Short, James N.: *See*—
- Goodhue, Lyle D., and Short. 2,944,934.
- Short, James N., to Phillips Petroleum Co.  $\beta$ -haloalkane-phosphonates. 2,928,861, 3-15-60, Cl. 260-461.
- Short, James N., and C. R. Scott, to Phillips Petroleum Co. Bipropellants. 2,929,199, 3-22-60, Cl. 60-35.4.
- Short, Lynn O. Mechanical action toy rabbit. 2,942,376, 6-28-60, Cl. 46-104.
- Short, Oliver A.: *See*—
- Baldrey, John A., and Short. 2,961,416.
- Short, Thomas J.: *See*—
- Oatman, Elmer L. 2,955,716.
- Short, William E. R.: *See*—
- Smith, Donald R. 2,958,523.
- Shorts, Calhoun: *See*—
- Hulsman, George R., and Shorts. 2,927,623.
- Shorts, Calhoun, to Filon Plastics Corp. Method and apparatus for making fiber-reinforced sheet material. Re. 24,804, 3-29-60, Cl. 154-1.75.
- Shotton, James A., to Phillips Petroleum Co. Flexible coating compositions for metal. 2,927,864, 3-8-60, Cl. 106-287.
- Shouler, John E.: *See*—
- Gordon, Edward D., and Shouler. 2,959,232.
- Shoumatoff, Nicholas, to West Virginia Pulp and Paper Co. Single stage continuous paper making process and apparatus. 2,929,448, 3-22-60, Cl. 162-313.
- Shoup, Frederic F.: *See*—
- Haggal, Theodore F., and Shoup. 2,927,268.
- Shoup, Ransom F., to The Shoup Voting Machine Corp. Voting machine. 2,953,296, 9-20-60, Cl. 235-55.
- Shoup, Thomas E., R. W. Sholle, and L. J. Mowry, to Gregory Industries Inc. Stud welding method and device. Re. 24,832, 5-31-60, Cl. 219-98.
- Shoup Voting Machine Corp.: *See*—
- Shoup, Ransom F. 2,953,296.
- Shovic, Folke C., 25% to J. P. Wuerthner. Servo system. 2,932,785, 4-12-60, Cl. 323-75.
- Shovic, Folke C., 25% to J. P. Wuerthner. Curve translator. 2,939,321, 6-7-60, Cl. 74-1.
- Show Process Development Corp.: *See*—
- Dunlop, Adam. 2,931,081.
- Show, William A., N. J. Wilkitts, and J. A. Miller, to Olin Mathieson Chemical Corp. Ignition assembly for perforated cylindrical charge. 2,955,535, 10-11-60, Cl. 102-90.
- Showers, Garth A. Paint pall clamp. 2,923,514, 2-2-60, Cl. 248-227.
- Showman, Robert L., to A. B. Chance Co. Electrical knob insulator. 2,935,553, 5-3-60, Cl. 174-157.
- Showver Co.: *See*—
- Rodler, Waldo E., Jr. 2,924,997.
- Shrader, Merrald B.: *See*—
- Nekut, Anthony G., and Shrader. 2,950,411.
- Shrader, Ross E.: *See*—
- Larach, Simon, and Shrader. 2,921,218.
- Shrader, Terry M., to United States of America, Air Force. Electron gun. 2,934,666, 4-26-60, Cl. 313-84.
- Shrimpton, Frederick R.: *See*—
- Rarey, Robert S., and Shrimpton. 2,941,521.
- Shriver, George H., to Deere & Co. Dual disk furrow opener. 2,920,587, 1-12-60, Cl. 111-80.
- Shriver, Henry V.: *See*—
- Harrison, Richard, Shriver, and Holland. 2,938,526.
- Shube, Eugene E., to Fairchild Engine and Airplane Corp. Pneumatically actuated mechanical jacks. 2,949,891, 8-23-60, Cl. 121-41.
- Shubin, John M., 50% to P. S. Shubin. Refuse vehicle and loading apparatus therefor. 2,961,105, 11-22-60, Cl. 214-83.3.
- Shubin, Peter S.: *See*—
- Shubin, John M. 2,961,105.
- Shuck, Arthur B., to United States of America, Atomic Energy Commission. Apparatus and method for injection casting. 2,952,056, 9-13-60, Cl. 22-210.
- Shuert, Cecil G. Reproducing engineering data. 2,940,850, 6-14-60, Cl. 96-27.
- Shuffman, Oscar: *See*—
- Wilson, Christopher L., and Shuffman. 2,961,418.
- Shuford Mills: *See*—
- Long, John R. 2,927,471.
- Weitzel, Edward W. 2,932,121.
- Shugart, George. Retainer for leaflets or the like. 2,960,090, 11-15-60, Cl. 129-40.
- Shull, Gilbert M.: *See*—
- Bloom, Barry M., Agnello, Shull, and Laubach. 2,929,813.
- Shull, Gilbert M., and D. A. Kita, to Chas. Pfizer & Co., Inc. Delta 1,2-14 $\alpha$ -hydroxy derivatives of cortisone and hydrocortisone. 2,932,606, 4-12-60, Cl. 167-65.
- Shulters, Robert B.: *See*—
- Bos, John R., and Shulters. 2,926,859.
- Bottje, John D., and Shulters. 2,939,431.
- Shulters, Robert B., to Gardner-Denver Co. Tube socket having attachment tabs. 2,960,676, 11-15-60, Cl. 339-131.
- Shulton, Inc.: *See*—
- Efford, John T., and Morton. 2,951,646.
- Shultz, Herbert S., to Wyandotte Chemicals Corp. Bulkhead fitting. 2,942,560, 6-28-60, Cl. 105-369.
- Shultz, Robert M., to Burroughs Corp. Transistor driven pulse circuit. 2,927,242, 3-1-60, Cl. 315-8.5.
- Shumaker, Hugh W. Wind deflectors. 2,933,344, 4-19-60, Cl. 296-91.
- Shumaker, Lawrence E., and C. I. Beck, to Eversman Mfg. Co. Cutter head. 2,952,324, 9-13-60, Cl. 172-550.
- Shumaker, Lawrence E., and C. I. Beck, to Eversman Mfg. Co. Plow frame. 2,955,369, 10-11-60, Cl. 37-98.
- Shumaker, Wendell D.: *See*—
- Bauer, Ernest K., and Shumaker. 2,938,256.
- Shuman, Abraham. Presser foot. 2,948,242, 8-9-60, Cl. 112-235.
- Shuman, Davis. Valve trumpet. 2,947,211, 8-2-60, Cl. 84-388.
- Shuman, Frank R., Jr.: *See*—
- Dobson, Ernest W., Fear, and Shuman. 2,952,609.
- Shumard, Roland S.: *See*—
- Beaver, David J., Stoffel, and Shumard. 2,926,141.
- Shumate, Delmar S. Automatic brakes for vehicle trailers. 2,954,104, 9-27-60, Cl. 188-112.
- Shunk, Clifford H., and K. A. Folkers, to Merck & Co., Inc. Benzimidazole derivatives and processes for preparing the same. 2,935,508, 5-3-60, Cl. 260-211.5.
- Shunk, Clifford H., and K. Folkers, to Merck & Co., Inc. Production of methyl 3-o-carbamyl- $\alpha$ -novolopyranoside. 2,938,025, 5-24-60, Cl. 260-210.
- Shunk, Clifford H., and K. Folkers, to Merck & Co., Inc. Mevalonic acid. 2,945,059, 7-12-60, Cl. 260-535.
- Shunk, Clifford H., and J. W. Richter, to Merck & Co., Inc. Process for the preparation of adenosyl homocysteine. 2,946,781, 7-26-60, Cl. 260-211.5.
- Shunkwiler, Eva N. Fan guard. 2,923,463, 2-2-60, Cl. 230-275.
- Shur, Ira, to Walde Kohinoor, Inc. Fastening means for panels, sheets and the like. 2,949,143, 8-16-60, Cl. 151-69.
- Shure Bros., Inc.: *See*—
- Bauer, Benjamin B., Gunter, and Seeler. 2,939,716.
- Gunter, Lee, Jr., and Anderson. 2,962,290.
- Shurkatch Fishing Tackle Co., Inc.: *See*—
- Doolittle, Frederick S. 2,947,562.
- Shur-Lok Corp.: *See*—
- Kreider, David B., and Delgadillo. 2,957,196.
- Shuster, Morris I. Humidor. 2,958,469, 11-1-60, Cl. 239-56.
- Shute, Charles F., W. R. Coakley, and C. F. Peck, to United States of America, Air Force. Arrangement for the concurrent viewing of radar and telescopic images. 2,937,559, 5-24-60, Cl. 88-1.
- Shute, George: *See*—
- Poynor, Russell R., and Shute. 2,927,649.
- Shute, James S.: *See*—
- Williams, John R., and Shute. 2,960,980.
- Shuttlewood, William H.: *See*—
- Bagshaw, Charles M., and Shuttlewood. 2,934,772.
- Shuttleworth, Mark E. Exercising device. 2,960,335, 11-15-60, Cl. 272-59.
- Shuttleworth, Stanley G., to Leather Industries Research Institute. Process for stiffening parts of footwear by insertion of hardener impregnated blank coated with synthetic resin. 2,919,453, 1-5-60, Cl. 12-146.
- Shuyler, Harlan R. Pesticide. 2,957,804, 10-25-60, Cl. 167-46.
- Shwayder, Ben, to Shwayder Bros., Inc. Method of forming multiple curved panels. 2,934,790, 5-3-60, Cl. 18-56.
- Shwayder Bros., Inc.: *See*—
- Axtell, Willard G. 2,950,792.
- Axtell, Willard G. 2,950,793.
- Shwayder, Ben. 2,934,790.
- Shyalla, Nick, to United States of America, Air Force. Pulse width discriminator circuit. 2,922,039, 1-19-60, Cl. 250-27.
- Shyluk, Walter P.: *See*—
- Maury, Lucien G., and Shyluk. 2,939,887.
- Shymanski, Adolph A., to Zephyr Mfg. Co. Dimpling tool. 2,944,581, 7-12-60, Cl. 153-21.



- Shyne, James J.: *See*—  
Fahnoe, Frederick, and Shyne. 2,938,839.
- Shyne, John C.: *See*—  
Schmatz, Duane J., Shyne, and Zackay. 2,934,463.
- Sias, Frederick R., to General Electric Co. Resistance temperature detector. 2,946,974, 7-26-60, Cl. 338-28.
- Sias, Roy C., to Continental Oil Co. Stabilization of sulfurized hydrocarbons. 2,959,581, 11-8-60, Cl. 260-139.
- Sibert, Frank J. Means for massaging, vibrating, exercising, relaxing and heat treating parts of the human body. 2,927,576, 3-8-60, Cl. 128-24.1.
- Sibert, Frank J. Pillow or cushion type vibrator. 2,943,620, 7-5-60, Cl. 128-24.1.
- Sibley, David D., to Northrop Corp. Diffraction-type light interrupter. 2,956,170, 10-11-60, Cl. 250-203.
- Sibley, Henry C., to General Railway Signal Co. Electronic shift register. 2,934,678, 4-26-60, Cl. 315-84.5.
- Sibley, Henry C., to General Railway Signal Co. Electronic code communication system. 2,955,278, 10-4-60, Cl. 340-163.
- Sibley, John R., and M. L. Hoover, to Chain Belt Co. Concrete paving distributor. 2,960,208, 11-15-60, Cl. 198-73.
- Sicard, Gene O. Hack saw having plural blade rotary carrier. 2,951,521, 9-6-60, Cl. 145-34.
- Sicard Inc.: *See*—  
Boissonnault, Ronaldo. 2,945,254.
- Siccama, Nicholas B., and W. L. Wirbelauer, deceased (by D. J. Chapman and H. E. Hasselmann, executors). Skin coloring compositions. 2,948,657, 8-9-60, Cl. 167-90.
- Sichak, William, to International Telephone and Telegraph Corp. Dual frequency dual polarization horn antenna. 2,943,324, 6-28-60, Cl. 343-756.
- Sichak, William, and R. T. Adams, to International Telephone and Telegraph Corp. Communication control system. 2,924,703, 2-9-60, Cl. 250-6.
- Sichak, William, and R. T. Adams, to International Telephone and Telegraph Corp. Radio diversity receiving system. 2,951,152, 8-30-60, Cl. 250-20.
- Sichel, Harold M. Telephone hanger. 2,949,510, 8-16-60, Cl. 179-146.
- Sichelschmidt, Gerhard, to Slanzwerk Peitz & Co. Adjustable reclining chairs. 2,927,630, 3-8-60, Cl. 155-106.
- Sicher, Jiri: *See*—  
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- Smrt, Jiri, Beranek, and Sicher. 2,958,691.
- Sichling, Georg, to Siemens-Schuckertwerke Aktiengesellschaft. Control circuits for series connected semiconductor. 2,957,993, 10-25-60, Cl. 307-88.5.
- Sichling, Georg, M. Tachernak, and W. Kafka, to Siemens-Schuckertwerke Aktiengesellschaft. Ignition system for internal combustion engines. 2,924,633, 2-9-60, Cl. 123-148.
- Siciliano, Samuel F., to George C. Moore Co. Elastic fabric. 2,960,855, 11-22-60, Cl. 66-192.
- Sickingner, Hans: *See*—  
Biel, Hans, and Pfäffe. 2,963,049.
- Sico, Americo: *See*—  
Gordon, Bernard M., Durocher, and Sico. 2,943,313.
- Sidaris, Nicholas J.: *See*—  
Currie, Courtland B., and Sidaris. 2,929,557.
- Sidaris, Nicholas J., to Minneapolis-Honeywell Regulator Co. Flame responsive controller. 2,962,680, 11-29-60, Cl. 338-9.
- Sidebotham, Gordon L.: *See*—  
Sidebotham, Melvin H., Sr., G. L. Sidebotham, and M. H. Sidebotham, Jr. 2,957,379.
- Sidebotham, John B. Bifurcated textile tubes and method of weaving the same. 2,924,250, 2-9-60, Cl. 139-387.
- Sidebotham, Melvin H., Jr.: *See*—  
Sidebotham, Melvin H., Sr., G. L. Sidebotham, and M. H. Sidebotham, Jr. 2,957,379.
- Sidebotham, Melvin H., Sr., G. L. Sidebotham, and M. H. Sidebotham, Jr., to J. Dixon Crucible Co. Strip cutting mechanism. 2,957,379, 10-25-60, Cl. 83-422.
- Sidenmark, Nils O. H., and G. A. Waldau, to Telefonaktiebolaget L M Ericsson. Arrangement for inter-connecting and stretching of metal bands. 2,931,083, 4-5-60, Cl. 24-23.
- Sider, Edward O.: *See*—  
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- Sideroff, Jerome. Convertible bed. 2,945,241, 7-19-60, Cl. 5-8.
- Sides, H. I.: *See*—  
Ramlose, George A. 2,943,707.
- Sides Mfg. Co.: *See*—  
Carpenter, James R. 2,929,092.
- Ramlose, George A. 2,943,707.
- Sidler Ltd.: *See*—  
Butterworth, Archibald J. 2,964,118.
- Sidley, Craig R., and A. Lesnewich, to Air Reduction Co., Inc. Electric arc welding. 2,932,723, 4-12-60, Cl. 219-74.
- Siebel, J. E., Sons' Co., Inc.: *See*—  
Segel, Edward. 2,943,942.
- Segel, Edward, and Wye. 2,942,978.
- Segel, Edward, and Wye. 2,942,979.
- Segel, Edward, and Wye. 2,942,980.
- Siebel, Mathias P. L., to Tube Products Ltd. Transmission of electric power at high frequency. 2,938,098, 5-24-60, Cl. 219-10.75.
- Siebels, Ernst, and A. Beyer, to Olympia Werke AG. Key button for keyboard office machines. 2,947,404, 8-2-60, Cl. 197-102.
- Siebensenthal, Kirby, and A. S. Jackson, to Owens-Illinois Glass Co. Means for centering hot glass parisons. 2,939,249, 6-7-60, Cl. 49-9.
- Sieber, Charles B., 1/2 to W. J. Miller, and 1/2 to E. R. Stitt. Vibrator. 2,956,438, 10-18-60, Cl. 74-87.
- Siebers, Robert W., to Cutler-Hammer, Inc. Shock and vibration resistant electromagnetic contactor. 2,946,872, 7-26-60, Cl. 200-87.
- Siebert, Arthur: *See*—  
Brenneisen, Erich, Huss, and Siebert. 2,951,069.
- Siebert, Arthur, and K. Renner, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Pigment dyestuffs. 2,948,715, 8-9-60, Cl. 260-204.
- Siebert, Preston G. Bearing-hanger structure. 2,943,893, 7-5-60, Cl. 308-72.
- Siebring, Owen C. Corn crib. 2,930,458, 3-29-60, Cl. 189-3.
- Siedband, Melvin P.: *See*—  
Houston, David R., Siedband, and Ryan. 2,959,781.
- Siedband, Melvin P., to United States of America, Navy. R.M.S. voltage regulator. 2,920,265, 1-5-60, Cl. 323-75.
- Siedband, Melvin P., J. M. Hirst, and R. Casey, to United States of America, Navy. Pulsing circuit for magnetron. 2,946,021, 7-19-60, Cl. 331-87.
- Siedow, George F., to The Firestone Tire & Rubber Co. Rubber valve. 2,933,119, 4-19-60, Cl. 152-429.
- Siedow, George F., to The Firestone Tire & Rubber Co. Rubber valve. 2,933,120, 4-19-60, Cl. 152-429.
- Siedow, George F., to The Firestone Tire & Rubber Co. Rubber valve. 2,933,121, 4-19-60, Cl. 152-429.
- Siefert, August C., and C. J. Stalego, to Owens-Corning Fiberglass Corp. Methods for producing fibrous glass. 2,921,342, 1-19-60, Cl. 18-47.3.
- Siefke, Albert. Turn signal warning device. 2,958,071, 10-25-60, Cl. 340-73.
- Siefken, Werner: *See*—  
Pestemer, Max, Siefken, and Bayer. 2,965,578.
- Sieg, Robert P.: *See*—  
Batchelder, Augustus H., and Sieg. 2,942,933.
- Sieg, Robert P., to California Research Corp. Catalysts for conversion of hydrocarbons. 2,943,067, 6-28-60, Cl. 252-465.
- Siegel, Floyd G., to Hewlett-Packard Co. Cathode-ray-tube beam finder circuit. 2,963,618, 12-6-60, Cl. 315-24.
- Siegel, Hans. Process and apparatus for the photographic liquid processing of coatings on flexible supports. 2,947,236, 8-2-60, Cl. 95-93.
- Siegel, Joel R., to Esso Research and Engineering Co. Hydrocarbon oils containing ashless dispersant inhibitors. 2,938,775, 5-31-60, Cl. 44-62.
- Siegel, Joel R., to Esso Research and Engineering Co. Stabilized hydrocarbon fuel oil composition. 2,958,590, 11-1-60, Cl. 44-62.
- Siegel, Martin: *See*—  
Markus, George, and Siegel. 2,962,071.
- Stember, Bernard, and Siegel. 2,923,338.
- Siegel, Morris B., to Bryn Mawr Smokers Novelty Co. Pipe cleaner or swab. 2,931,366, 4-5-60, Cl. 131-245.
- Siegel, Walter P., to Robert Reiner, Inc. Boring attachment for embroidery machine. 2,950,694, 8-30-60, Cl. 112-83.
- Siegmund, Richard. Rewinding cassette for tapes, filaments or wires. 2,941,740, 6-21-60, Cl. 242-55.13.
- Siegner Eisenbahnbedarf Aktiengesellschaft: *See*—  
Trümper, Konrad. 2,930,606.
- Sieger, George M., and E. C. Yen, to American Cyanamid Co. Stable anti-hemorrhagic powders. 2,949,400, 8-16-60, Cl. 167-81.
- Siegfried, Robert E., to Badger Mfg. Co. Flash-type distillation system. 2,934,477, 4-26-60, Cl. 202-174.
- Siegle, Norman E. Apparatus for applying sealing liquid to pavement joints or the like. 2,956,486, 10-18-60, Cl. 94-44.
- Siegler Corp., The: *See*—  
Freeman, Norris. 2,925,108.
- Siegling, Hellmut. Web dividing tapes or spinning tapes for textile machines. 2,933,775, 4-26-60, Cl. 19-151.
- Siegmund, Anna: *See*—  
Wurbs, Eberhard. 2,933,400.
- Siegmund, Bruno: *See*—  
Wurbs, Eberhard. 2,933,400.
- Siegmund, John M.: *See*—  
Neumark, Hans R., and Siegmund. 2,927,438.
- Siegrist, Jack C.: *See*—  
Schneider, Gilbert D., Gepfert, Mackey, and Siegrist. 2,919,731.
- Siek, Clarence. Ladder jack. 2,936,989, 5-17-60, Cl. 248-238.
- Sieling, Edward H. Faucet. 2,940,724, 6-14-60, Cl. 251-240.
- Siemantel, George D. Wood screw gauge. 2,928,181, 3-15-60, Cl. 33-178.
- Siemantel, George D. Rotatable storage and display assembly for parts. 2,936,901, 5-17-60, Cl. 211-77.



**Siemens Edison Swan Ltd.: See—**

Bawdekar, Vaman S. 2,961,667.  
 Brown, Ronald E. C. 2,953,779.  
 Clark, John B., and Hicks. 2,945,917.  
 Deakin, Stanley T. 2,924,676.  
 Deakin, Stanley T. 2,923,134.  
 Deakin, Stanley T. 2,936,483.  
 Farrow, Frederic W. R. 2,935,638.  
 Farrow, Frederic W. R. 2,960,619.  
 Flood, John E., and Simms. 2,928,899.  
 Haine, Michael E., Bloomer, and Francis. 2,957,619.  
 Kinsey, Ronald W. S. 2,925,474.  
 Lane, Clayton A., Strohm, and Ellis. 2,960,621.  
 Myford, Thomas W. 2,951,958.  
 Rodda, Sidney. 2,922,064.  
 Warman, Bloomfield J. 2,946,854.

**Siemens & Halske Aktiengesellschaft: See—**

Eichin, Werner, and Veith. 2,925,567.  
 Fischer, Josef, Aida, Lind, Ruhland, Krautwald, and Gawehn, Herbert. 2,921,236.  
 Gawehn, Herbert. 2,923,013.  
 Geese, Albert, and Hüttisch. 2,933,660.  
 Gossiau, Karlheinz. 2,941,152.  
 Helmrich. 2,941,130.  
 Heywang, Walter. 2,933,619.  
 Hofer, Rudolf. 2,960,669.  
 Jabczynski, Hans-Joachim. 2,933,562.  
 Jauch, Eugen. 2,933,561.  
 Jauch, Eugen, and Topfer. 2,923,775.  
 Karrer, Korbinian. 2,922,856.  
 Kuhn, Alfred. 2,937,822.  
 Meyer, Paul. 2,922,910.  
 Neumann, Helmut. 2,933,565.  
 Neumann, Helmut. 2,945,919.  
 Nitsch, Rudolf. 2,927,178.  
 Pfeiderer, Friedrich. 2,921,163.  
 Poschenrieder, Werner. 2,923,900.  
 Rudolph, Hans. 2,966,548.  
 Rummel, Theodor, Kniepkamp, and Emeis. 2,964,396.  
 Scheunert, Alfred. 2,938,080.  
 Schimmel, Erich. 2,925,556.  
 Töpfer, Herbert, Lurk, and Villmann. 2,943,153.  
 Töpfer, Herbert, and Scheunert. 2,923,774.  
 Veith, Werner A. 2,949,560.  
 Veith, Werner, and Meyer. 2,941,111.  
 Weissloch, Andreas. 2,961,759.  
 Werner, Georg. 2,938,067.  
 Wild, Walter, Eberl, and Demmel. 2,934,724.

**Siemens & Halske Aktiengesellschaft Berlin and Munich: See—**

Bester, Werner, and Kustenmacher. 2,966,547.  
 Buser, Rudolf. 2,962,704.  
 Dorendorf, Heinz. 2,945,286.  
 Ehrlich, Erich, and Dreyer. 2,952,741.  
 Friess, Hans. 2,952,737.  
 Herz, Rudolf. 2,952,850.  
 Jipp, August G. W. 2,956,126.  
 Licht, Friedrich E. 2,925,471.  
 Töpfer, Herbert. 2,952,743.  
 Werner, Georg. 2,962,688.

**Siemens & Halske Gesellschaft m.b.H.: See—**

Hohn, Hans, and Gerassimoff. 2,929,705.

**Siemens-Planlawerke Aktiengesellschaft für Kohlefabrikate: See—**

Kaufmann, Waldemar, Ragoss, Fitzer, and Gress. 2,957,716.

**Siemens-Reiniger-Werke Aktiengesellschaft: See—**

Bastir, Robert. 2,937,640.  
 Berger, Helmut, and Finkenzeller. 2,921,202.  
 Seidel, Johannes. 2,925,499.  
 Seidel, Johannes, and Meier. 2,962,640.  
 Silbermann, Karl. 2,942,126.

**Siemens-Schuckertwerke Aktiengesellschaft: See—**

Baer, Walter. 2,930,870.  
 Bilz, Wilhelm. 2,942,243.  
 Böhm, Johann. 2,929,012.  
 Demmel, Georg, and Wirth. 2,956,391.  
 Edler, Hans. 2,965,418.  
 Emeis, Reimer. 2,921,244.  
 Emeis, Reimer. 2,930,098.  
 Emeis, Reimer. 2,960,419.  
 Emeis, Reimer. 2,960,640.  
 Emeis, Reimer, and Herlet. 2,936,410.  
 Esche, Rolf. 2,937,329.  
 Filberich, Ludwig. 2,924,749.  
 Folberth, Otto G. 2,944,975.  
 Gebauher, Werner. 2,928,731.  
 Geyer, Gerhard, and Seidel. 2,962,564.  
 Gremmelmaier, Rolf, and Folberth. 2,928,761.  
 Gunther, Karl-Georg. 2,938,816.  
 Hartmann, Johann. 2,953,415.  
 Herlet, Adolf. 2,924,760.  
 Herlet, Adolf. 2,929,006.  
 Herlet, Adolf. 2,946,709.  
 Herlet, Adolf, and Hoffmann. 2,931,960.  
 Herlet, Adolf, Patalong, and Schink. 2,937,113.  
 Herold, Robert, Petschel, Wöll, and Haas. 2,935,673.  
 Kuhrt, Friedrich. 2,945,993.  
 Kuhrt, Friedrich. 2,946,955.  
 Kürt, Friedrich, and Braunsrenther. 2,956,209.  
 Lappie, Johannes. 2,924,734.  
 Maaz, Karl. 2,924,759.  
 Merkel, Hans. 2,927,853.  
 Müller, Ferdinand. 2,938,146.

**Siemens-Schuckertwerke Aktiengesellschaft: See—Continued**

Nechleba, Franz. 2,935,678.  
 Nerlich, Willi. 2,949,597.  
 Neugebauer, Hermann. 2,924,775.  
 Neumann, Johannes, Weiss, and Assmus. 2,942,177.  
 Paul, Wolfgang, Reinhard, and Fröhlich. 2,950,389.  
 Rohloff, Ebbe, and Szesl. 2,949,565.  
 Rolf, Erich. 2,962,650.  
 Schink, Norbert, and Herlet. 2,959,501.  
 Schnecke, Paul. 2,922,133.  
 Sicking, Georg. 2,957,993.  
 Sicking, Georg, Tschernak, and Kafka. 2,924,633.  
 Stauber, Georg, and Greger. 2,924,796.  
 Weigel, Fritz, and Schwarz. 2,964,499.  
 Welker, Heinrich, Folberth, Gremmelmaier, and Grimm. 2,933,384.  
 Welker, Heinrich, Weisshaar, and Pfister. 2,936,373.  
 Ziegler, Albert. 2,934,665.  
 Zuhke, Marcellus. 2,933,553.  
 Siemer, Harm, and A. Doppstadt, to Ravensberg G.m.b.H., Chemische Fabrik. Substituted 1-phenyl-2,3-dimethyl-4-morpholino methyl pyrazolone-(5) compounds and process of making same. 2,943,022, 6-28-60, Cl. 167—65.  
 Siempelkamp, G., and Co.: See—  
 Schmid, Mathias. 2,946,303.  
 Siemssen, Georg G., and R. Post, to Elastic A.G. vormalis M. Vogel A.G. Flexible strips of fixing elements. 2,964,750, 12-20-60, Cl. 1—56.  
 Sierant, George W.: See—  
 Tanaka, Akira, Lohr, and Sierant. 2,929,439.  
 Sierk, Raymond H., and R. W. Food carton. 2,959,339, 11-8-60, Cl. 229—39.  
 Sierk, Raymond W.: See—  
 Sierk, Raymond H. and R. W. 2,959,339.  
 Sierra Electronic Corp.: See—  
 Hedberg, Harold E. 2,936,417.  
 Sierra Engineering Co.: See—  
 Bloom, Aaron. 2,945,501.  
 Bloom, Aaron. 2,947,314.  
 Bloom, Aaron, and Wilcox. 2,953,129.  
 Cheng, Peter A. 2,922,420.  
 Jones, Robert E. 2,944,846.  
 Kindred, Bob A. 2,936,779.  
 Layne, Thomas J. 2,928,387.  
 Meader, T. John, and Bloom. 2,952,256.  
 Sierra Metals Corp.: See—  
 Thielemann, Rudolf H. 2,948,606.  
 Sies, Gordon C. Windowed conduit fitting. 2,956,819, 10-18-60, Cl. 285—93.  
 Sleswerda, Bauke S., and A. L. Van der Mooren, to Stam-carbon N.V. Apparatus for measuring properties of granular material. 2,958,777, 11-1-60, Cl. 250—53.  
 Sievers, Albert H. Hog trap gate. 2,930,353, 3-29-60, Cl. 119—155.  
 Sievers, William E. Heated well production string. 2,954-826, 10-4-60, Cl. 166—60.  
 Slevert, Theodore J., to Kroehler Mfg. Co. Lumber handling devices. 2,919,728, 1-5-60, Cl. 143—157.  
 Slevert, Walter R.: See—  
 Buettner, Raymond J., Slevert, Svoboda, and Robinson. 2,939,514.  
 Siewerth, Liselotte: See—  
 Pfister, Liselotte. 2,957,266.  
 Sifferd, Robert H. Process for treating cobalamin adsorbates. 2,931,799, 4-5-60, Cl. 260—211.5.  
 Sigan, Jack W.: See—  
 Wahlroos, Arvi W., Stenberg, and Sigan. 2,931,501.  
 Sigel, Carl A.: See—  
 Krause, Herbert, and Sigel. 2,926,942.  
 Krause, Herbert, and Sigel. 2,955,859.  
 Siggel, Erhard: See—  
 Watzl, Anton, and Siggel. 2,945,788.  
 Sigel, Erhard, to Vereinigte Glanzstoff-Fabriken, A.G. Process of production of high-molecular linear polyesters from aromatic dicarboxylic acid diesters. 2,951,827, 9-6-60, Cl. 260—75.  
 Sigel, Erhard, and K. Macura, to Vereinigte Glanzstoff-Fabriken A.G. Process of manufacturing fibers of polyethylene terephthalate. 2,934,400, 4-26-60, Cl. 18—54.  
 Siggelin, Gert K. A.: See—  
 Asker, Gunnar C. F., and Siggelin. 2,946,554.  
 Siggins, George. Feed hopper and dispensing device. 2,944,517, 7-12-60, Cl. 119—55.  
 Sights, Charles B. Compact low-impedance tubular valve. 2,955,798, 10-11-60, Cl. 251—212.  
 Sigler, Harold: See—  
 Levine, Samuel W., and Sigler. 2,919,635.  
 Sargent, Elbert R., and Sigler. 2,943,685.  
 Sigler, Harold, and C. E. Doran, to Fairchild Camera & Instrument Corp. Vacuum frame mat. 2,956,769, 10-18-60, Cl. 248—363.  
 Sigley, David P.: See—  
 Imboden, Herbert B., and Sigley. 2,923,150.  
 Sigma Instruments, Inc.: See—  
 Fisher, Richard T., and Pahud. 2,960,583.  
 Holcombe, Waldo H. 2,935,585.  
 Sigma Lutin, narodni podnik: See—  
 Faltejsek, Otto, Sýrček, and Šperlín. 2,954,047.  
 Sigman, John J., Jr.: See—  
 Praeg, Walter S., and Sigman. 2,942,389.



- Sigman, John J., Jr., to National Broach & Machine Co. Locating small pinions on arbors. 2,948,952, 8-16-60, Cl. 29—90.
- Sigman, John J., Jr., W. C. McNabb, and H. O. Verschaeve, to National Broach & Machine Co. Method and apparatus for deburring gears. 2,945,425, 7-19-60, Cl. 90—1.6.
- Sigmund, Miroslav. Pump and driving motor unit. 2,925,041, 2-16-60, Cl. 103—87.
- Sigmund, Rudolf J. L.: *See*—  
Alberti, Rudolf, Gotting, and Sigmund. 2,932,745.
- Signal Oil and Gas Co.: *See*—  
Kasperik, Archibald S., and Justus. 2,963,519.
- Signal-Stat Corp.: *See*—  
Hollins, Jesse R. 2,942,236.  
Hollins, Jesse R. 2,943,298.  
Hollins, Jesse R. 2,948,832.
- Signer, Ralph J.: *See*—  
Underwood, William F., and Signer. 2,961,323.
- Signode Steel Strapping Co.: *See*—  
Ericsson, Arvid I. 2,947,003.  
Young, Hobart P., and Hickerson. 2,952,561.
- Sigoda, Victor J., to Man-Sew Corp. Attachment for sewing machines. 2,925,796, 2-23-60, Cl. 112—134.
- Sigworth, Harrison W. Heat pump and heat engine. 2,931,189, 4-5-60, Cl. 62—6.
- Sih, George C., to Radio Corp. of America. Magnetic brush apparatus for development of electrostatic images. 2,919,674, 1-5-60, Cl. 118—637.
- Sihvonen, Kauno E.: *See*—  
Chambers, Herbert I., Fischer, Sihvonen, and Wilson. 2,931,690.  
Chambers, Herbert I., and Sihvonen. 2,963,336.  
King, William F., and Sihvonen. 2,947,175.
- Sihvonen, Kauno E., to Consolidated Electrodynamics Corp. High speed switching device. 2,927,179, 3-1-60, Cl. 200—90.
- Sihvonen, Yro T., and J. E. Wilson, to General Motors Corp. Vehicle accelerometer. 2,942,184, 6-21-60, Cl. 324—70.
- Sikes, Moyce H. Coin controlled game apparatus. 2,949,210, 8-16-60, Cl. 221—7.
- Sikora, Stephen J., to United States of America, Navy. Device for measuring lateral acceleration. 2,942,864, 6-28-60, Cl. 264—1.
- Sikorsky, Igor I., to United Aircraft Corp. Automatic pitch control and release. 2,941,605, 6-21-60, Cl. 170—160.16.
- Sikorsky, Igor I., to United Aircraft Corp. Helicopter power transmission system. 2,944,609, 7-12-60, Cl. 170—135.4.
- Silabert Corp.: *See*—  
Moore, Harry O. 2,947,002.  
Moore, Harry O. 2,959,852.
- Silagyi, George. Baby bottle holder. 2,944,779, 7-12-60, Cl. 248—103.
- Silber, Victor B.: *See*—  
Lehman, Samuel K., and Silber. 2,935,086.
- Silberberg, Melvin: *See*—  
D'Alelio, Gaetano F., and Silberberg. 2,948,710.
- Silberman, Henri C.: *See*—  
Schlapfer, Paul, and Silberman. 2,959,500.
- Silberman, Louis B., to United States of America, Army. Method for the preparation of HMX using boron trifluoride. 2,941,994, 6-21-60, Cl. 260—239.
- Silbermann, Herbert. Record-changing apparatus for phonographs. 2,925,280, 2-16-60, Cl. 274—10.
- Silbermann, Karl, to Siemens-Reiniger-Werke Aktiengesellschaft. Rotating anode X-ray tube. 2,942,126, 6-21-60, Cl. 313—56.
- Silberstein, Irvin W.: *See*—  
Bitner, Jack L., and Silberstein. 2,951,418.
- Silencer Mfg., Inc.: *See*—  
Chimento, Charles. 2,958,506.
- Silentbloc Ltd.: *See*—  
Hutton, Philip C. 2,937,040.  
Hutton, Philip C. 2,948,502.  
Hutton, Philip C. 2,965,349.  
Sherman, Rallston M. 2,952,226.
- Silent Glow Oil Burner Corp., The: *See*—  
Sherman, Rallston M. 2,925,054.
- Silex Corp., The: *See*—  
Luecke, Harry C. 2,957,688.
- Siljeholm, Gosta E. V., and A. K. A. G. Björkman, to Lumalamp Aktiebolag. Starting circuit for electric discharge lamps. 2,928,990, 3-15-60, Cl. 315—97.
- Silks, Walter: *See*—  
Thassy, Michael G., and Silks. 2,953,362.
- Sill, Harley A., to Metallurgical Resources, Inc. Process for treating complex ores. 2,951,741, 9-6-60, Cl. 23—53.
- Sill, Henry W.: *See*—  
Balcken, Hans A., Sill, Wagner, and D'Amore. 2,920,318.
- Sillasen, Peter N., and R. M., to John Mays. Rotary whirling ditcher. 2,965,985, 12-27-60, Cl. 37—92.
- Sillasen, Rosanna M.: *See*—  
Sillasen, Peter N., and R. M. 2,965,985.
- Sillecox, Edward L., and H. S. Witt, to United States Rubber Co. Battery separator and method of making same. 2,936,328, 5-10-60, Cl. 136—145.
- Sillers, Donald A., Jr.: *See*—  
Monroe, Jack E., and Silbers. 2,941,236.
- Sillers, Thomas G. A., to Allis-Chalmers Mfg. Co. Conductor support employing resin. 2,936,331, 5-10-60, Cl. 174—209.
- Silley, Henry A. J.: *See*—  
Unthank, Douglas G. 2,931,409.
- Silliker, John H., J. L. Shank, and R. E. Murphy, to Swift & Co. Poultry chilling. 2,950,977, 8-30-60, Cl. 99—194.
- Silliman, Sheldon D., to Westinghouse Electric Corp. Pulse generators. 2,949,582, 8-16-60, Cl. 331—113.
- Sillman, David, and H. T. Stanley, to Westinghouse Electric Corp. Television circuit. 2,966,545, 12-27-60, Cl. 178—7.5.
- Sillman, Isaac D. Apparatus for transmission of electricity. 2,964,586, 12-13-60, Cl. 174—99.
- Sillman, Louis, and H. Hacker, to M. Beckerman & Sons, Inc. Method of making stitchdown shoe. 2,964,766, 12-20-60, Cl. 12—142.
- Sils, Victor, to Westinghouse Electric Corp. Treatment of tantalum semiconductor electrodes. 2,957,112, 10-18-60, Cl. 317—234.
- Silsby, Christopher C., Jr.: *See*—  
Goens, Duane N., Le Duc, and Silsby. 2,965,445.
- Silsby, Howard W., III: *See*—  
Shepard, David H., and Silsby. 2,943,208.
- Silver, Alexander: *See*—  
Parker, Wilton E., and Silver. 2,932,452.  
Pickard, Robert M., and Silver. 2,929,224.
- Silver, Alexander, to The Garrett Corp. Pressure regulator. 2,965,128, 12-20-60, Cl. 137—492.
- Silver, Alexander, and R. W. Jensen, to The Garrett Corp. Shut-off valve rate of operating control. 2,938,537, 5-31-60, Cl. 137—489.
- Silver, Bernard R., to Rau Fastener Co. Buckle assembly. 2,965,943, 12-27-60, Cl. 24—170.
- Silver Corp.: *See*—  
Jurcheck, John. 2,952,322.
- Silver, Lawrence, to Sperry Rand Corporation. Rejection of harmonics in servomotor control systems. 2,951,974, 9-6-60, Cl. 318—28.
- Silver, Marvin N., to Tung-Sol Electric Inc. Optical device for measuring gas pressure. 2,925,007, 2-16-60, Cl. 88—14.
- Silver, Roland: *See*—  
Camm, John C., Lee, and Silver. 2,926,293.
- Silver, Roland, and T. L. Etter. Electrical components and circuits and methods of fabricating the same. 2,946,927, 7-26-60, Cl. 317—101.
- Silver, Samuel O., and J. Jeannotte. Adapter for braider carrier. 2,933,971, 4-26-60, Cl. 87—56.
- Silver Seal Products Co.: *See*—  
Havens, Elwood L. 2,935,979.
- Silver, Stan M. Metered dispensing carton. 2,925,943, 2-23-60, Cl. 222—425.
- Silver, Stan M., to V. M. Helfand. One-piece metered dispensing carton or the like. 2,956,712, 10-18-60, Cl. 222—455.
- Silver, Walter H., to Deere & Co. Wheel type disk harrow. 2,938,589, 5-31-60, Cl. 172—413.
- Silver, Walter H., and C. V. Beckstrom, to Deere & Co. Cover disk for plows. 2,935,141, 5-3-60, Cl. 172—164.
- Silver, Walter H., and W. V. Lohrman, to Deere & Co. Two-way plow with improved bracket for the standards. 2,938,587, 5-31-60, Cl. 172—224.
- Silver, Walter H., and W. V. Lohrman, to Deere & Co. Tractor-mounted two-way plow. 2,963,097, 12-6-60, Cl. 172—210.
- Silverberg, Bernard M.: *See*—  
Harrington, Roy E., and Silverberg. 2,927,652.  
Harrington, Roy E., and Silverberg. 2,936,818.  
Morrison, Charles S., and Silverberg. 2,932,341.  
Morrison, Charles S., and Silverberg. 2,954,071.
- Silverberg, Bernard M., and F. D. Jones, to Deere & Co. Coupling for power take-off shaft. 2,950,938, 8-30-60, Cl. 287—130.
- Silverberg, Thomas R., and S. D. Lewis, to United States of America, Air Force. Sine and cosine resolver. 2,947,473, 8-2-60, Cl. 235—61.
- Silverman, Bernard, to General Electric Co. Magnetic delay element. 2,923,834, 2-2-60, Cl. 307—88.
- Silverman, Emanuel. Combined carrying means and latch. 2,941,637, 6-21-60, Cl. 190—55.
- Silverman, I. Irving: *See*—  
Michalowski, Conrad M., and Silverman. 2,920,361.
- Silverman, Leslie, to Mine Safety Appliances Co. Gas filter. 2,939,545, 6-7-60, Cl. 183—110.
- Silverman, Leslie, to Welsh Mfg. Co. Cover for respirator. 2,964,038, 12-13-60, Cl. 128—146.
- Silverman, Milton B. Audible tooth brush. 2,947,013, 8-2-60, Cl. 15—105.
- Silverman, Ron J. Contact lens case. 2,940,589, 6-14-60, Cl. 206—5.
- Silverman, Seth: *See*—  
Mueller, Alvin E. 2,958,167.
- Silverman, William B., to Owens-Illinois Glass Co. Apparatus for producing color-controlling vitreous materials. 2,955,384, 10-11-60, Cl. 49—54.
- Silverman, William B., to Owens-Illinois Glass Co. Glass decolorizing method. 2,955,948, 10-11-60, Cl. 106—52.
- Silvernail, Lloyd H.: *See*—  
Lehman, Freeman R., Silvernail, and Stilbert. 2,945,775.
- Silverschatz, Stanford B., to International Telephone and Telegraph Corp. Electrical connectors. 2,938,068, 5-24-60, Cl. 174—84.
- Silversher, Herman I. Laminar ray resistant materials. 2,928,948, 3-15-60, Cl. 250—108.
- Silverstein, Abraham, to United States of America, Navy. Method and means for sealing plastic tubes. 2,929,182, 3-22-60, Cl. 53—39.



- Silverstein, Abraham W. Record display and advertising device. 2,927,796, 3-8-60, Cl. 274-10.
- Silverstein, Lilley. Bedpan ramp. 2,955,294, 10-11-60, Cl. 4-113.
- Silverstein, Paul,  $\frac{1}{2}$  to S. R. Feinstein. Package handles. 2,959,342, 11-8-60, Cl. 229-52.
- Silverstein, Robert M.: See—
- Nutting, Lee, Silverstein, and Himel. 2,951,848.
- Nutting, Lee, Silverstein, and Himel. 2,957,919.
- Silverstein, Seymour: See—
- Kalish, Israel H., and Silverstein. 2,964,431.
- Silver Strekar Mfg. Co.: See—
- Osterhaus, Leo A. 2,931,529.
- Silverthorne, Dennis W. Fixture support. 2,964,276, 12-13-60, Cl. 248-201.
- Silvertsen, Jens. Inductance strain gauges. 2,927,289, 3-1-60, Cl. 336-20.
- Silvestri, Giuliana: See—
- Muench, Werner, Notarbartolo, Silvestri, and Ruoti. 2,948,762.
- Silvey, Ernest H. Chain saw bar. 2,921,613, 1-19-60, Cl. 143-32.
- Silvey, Gene A., to International Business Machines Corp. Semiconductor circuit elements. 2,955,269, 10-4-60, Cl. 338-15.
- Silvey, Mayo S.: See—
- Margulis, Waldo, and Silvey. 2,937,595.
- Silvia, Edmund. Dispensing device for bookmatches and the like. 2,965,264, 12-20-60, Cl. 221-257.
- Silvray Lighting, Inc.: See—
- Gilbert, James M. 2,951,147.
- Sim, Alan A., to Talon, Inc. Slide fastener. 2,948,039, 8-9-60, Cl. 24-205.11.
- Sim, Alan C., to International Standard Electric Corp. Electronic semiconductor devices. 2,924,003, 2-9-60, Cl. 29-25.3.
- Sim, Kenneth W. Pallet box. 2,941,771, 6-21-60, Cl. 248-120.
- Simanek, Edward J.: See—
- Davis, Louis D., Jr., Simanek, and Tack. 2,958,396.
- Simaner, James: See—
- Fingerman, Albert, and Simaner. 2,954,999.
- Simblest, Allen L., to Harris, Inc. Combined flush and self-framing ventilating louver. 2,956,496, 10-18-60, Cl. 98-121.
- Simborg, Edward J., to International Rolling Mill Products Corp. Tube forming apparatus. 2,941,567, 6-21-60, Cl. 1553-54.
- Simbulan, Raymond F., to Clark Equipment Co. Industrial tow tractor. 2,962,105, 11-29-60, Cl. 180-13.
- Simco Inc.: See—
- Haury, Vernon E. 2,943,004.
- Simek, Jerry V., W. M. Thomas, and C. C. Veale, to Western Electric Co., Inc. Weld strength testing device. 2,959,051, 11-8-60, Cl. 73-101.
- Simek, John G.: See—
- Kuntzlema, Harry C., and Simek. 2,951,949.
- Simeone, Mario J., and E. Glaser, to American Chiclo Co. Breaking attachment for slab gum wrapping machines. 2,931,151, 4-5-60, Cl. 53-123.
- Simer, Jerome, and H. F. Lee, to said J. Simer. Pump construction. 2,930,326, 3-29-60, Cl. 103-149.
- Simeral, William G.: See—
- Bragaw, Chester G., Jr., and Simeral. 2,946,711.
- Simeti, Samuel, and J. Vitkevich. Cleaning mop. 2,941,227, 6-21-60, Cl. 15-147.
- Simjian, Luther G. Key device. 2,921,152, 1-12-60, Cl. 200-42.
- Simjian, Luther G., to Reflectone Electronics, Inc. Abrading device. 2,923,100, 2-2-60, Cl. 51-7.
- Simjian, Luther G. Vending machine combined with image recording means. 2,927,515, 3-8-60, Cl. 95-1.1.
- Simjian, Luther G., to Reflectone Electronics, Inc. Apparatus for treating articles. 2,929,098, 3-22-60, Cl. 17-25.
- Simjian, Luther G. Apparatus for collecting an article for deposit. 2,930,296, 3-29-60, Cl. 95-1.1.
- Simjian, Luther G. Depository machine combined with camera means. 2,936,684, 5-17-60, Cl. 95-1.1.
- Simjian, Luther G. Apparatus and method for determining the character of a document. 2,941,187, 6-14-60, Cl. 340-149.
- Simjian, Luther G. Receipt giving apparatus. 2,958,269, 11-1-60, Cl. 95-1.1.
- Simjian, Luther G. Depository machine. 2,960,377, 11-15-60, Cl. 346-22.
- Simkin, Joseph: See—
- Staubly, Julian L., Simkin, Aepli, and Rex. 2,921,911.
- Simmerman, Richard C., and M. T. Roudebush, to The National Cash Register Co. Switching devices. 2,922,141, 1-19-60, Cl. 340-147.
- Simmerman, Steve F. Rolling chair platform with braking means. 2,938,571, 5-31-60, Cl. 155-30.
- Simmers, James W. Comb holder. 2,959,292, 11-8-60, Cl. 211-13.
- Simmon, Alfred: See—
- Weisglass, Louis L., and Simmon. 2,921,499.
- Weisglass, Louis L., and Simmon. 2,949,809.
- Simmon, Alfred, and L. L. Weisglass, to Simmon Brothers, Inc. Electrical control device for use with photographic color enlargers and printers. 2,921,498, 1-19-60, Cl. 88-24.
- Simmon Brothers, Inc.: See—
- Simmon, Alfred, and Weisglass. 2,921,498.
- Weisglass, Louis L. 2,949,811.
- Weisglass, Louis L., and Simmon. 2,921,499.
- Weisglass, Louis L., and Simmon. 2,949,809.
- Simmonds Accessories, Inc.: See—
- Greator, Gordon V. 2,924,098.
- Hossack, Alexander. 2,934,053.
- Simmonds Accessories Ltd.: See—
- Bernstein, Harold A. 2,943,476.
- Simmonds, Albert L., to Strain relief grommet. 2,952,730, 9-13-60, Cl. 174-153.
- Simmonds, Arlie J.: See—
- Simmonds, Wayne W. and A. J. 2,931,628.
- Simmonds, Charles G. Moulded plastic article. 2,944,459, 7-12-60, Cl. 84-380.
- Simmonds, Milo R.: See—
- Replogle, Edward H., and Simmonds. 2,953,030.
- Simmonds, Milo R., to E. H. Replogle. Pressure operated controller. 2,960,882, 11-22-60, Cl. 74-100.
- Simmonds Precision Products, Inc.: See—
- Frome, Leonard. 2,950,426.
- Simmonds, Wayne W. and A. J., to J. H. Lucas, trustee. Weight control unit system for drilling rigs. 2,931,628, 4-5-60, Cl. 254-173.
- Simmons, Anthony T. F., to The English Electric Co. Ltd. Temperature control and pressurisation systems for aircraft cockpits. 2,941,373, 6-21-60, Cl. 62-7.
- Simmons, Archie L., and W. H. Womack; said Simmons assors. to said Womack. Dual range front sight. 2,946,126, 7-26-60, Cl. 33-58.
- Simmons, Arthur W., and J. W. G. Kershaw, to Westinghouse Brake & Signal Co., Ltd. Automatic couplers for railway and like vehicles. 2,934,217, 4-26-60, Cl. 213-76.
- Simmons, Calvin J., to Hild Lock & Mfg. Co. Weather seal for lock. 2,956,430, 10-18-60, Cl. 70-455.
- Simmons, Charles. Extensible football goal post. 2,929,630, 3-22-60, Cl. 273-55.
- Simmons, Charles H. High temperature liquid metal valve. 2,962,040, 11-29-60, Cl. 137-219.
- Simmons, Charles M. Torque indicating gauge. 2,945,374, 7-19-60, Cl. 73-1.
- Simmons Co.: See—
- Blecker, Raymond H., Petersen, and Unwin. 2,943,333.
- Hansen, Francis W. 2,948,577.
- Stumpf, Walter. 2,934,219.
- Simmons, Earl F.: See—
- Ricks, James B. 2,961,871.
- Simmons, Edward C.: See—
- Mann, Leonard J., and Simmons. 2,959,936.
- Pas, John, and Simmons. 2,940,277.
- Simmons, Edward C., to General Motors Corp. Refrigerating apparatus. 2,933,905, 4-26-60, Cl. 62-511.
- Simmons, Emma M. and H. R. Jewelry case. 2,950,003, 8-23-60, Cl. 206-75.
- Simmons, Ernest P. Chamber aligning device for split-chamber automatic shotguns. 2,920,537, 1-12-60, Cl. 89-156.
- Simmons, Frank P.: See—
- Bedrosian, Samuel D., and Simmons. 2,936,120.
- Simmons, Gretchen K. Artist's palette with cover and humidifier. 2,923,081, 2-2-60, Cl. 41-5.
- Simmons, Horace B. Hoists. 2,922,623, 1-26-60, Cl. 254-156.
- Simmons, Howard E., Jr., to E. I. du Pont de Nemours and Co. Fluoroketals and their preparation. 2,925,424, 2-16-60, Cl. 260-340.7.
- Simmons, Howard R.: See—
- Simmons, Emma M. and H. R. 2,950,003.
- Simmons, James M.: See—
- Katt, Harold M., and Simmons. 2,954,727.
- Simmons, James T. Combination sign and wind vane. 2,965,991, 12-27-60, Cl. 40-39.
- Simmons, Judson E. Asphalt spray bar. 2,924,391, 2-9-60, Cl. 239-125.
- Simmons, Walter A., and T. P. Mulgrave. Shock-resisting support for storing and shipping engines and the like equipment containing destructible components. 2,928,535, 3-15-60, Cl. 206-46.
- Simmons, Walter R., to Townsend Corp. Pulling device for blind rivets and the like. 2,941,687, 6-21-60, Cl. 218-42.
- Simmons, Wilbur G., to United Aircraft Corp. Turbine bearing support. 2,919,888, 1-5-60, Cl. 253-39.
- Simmons, Robert F. Packaging for assembled door and frame. 2,929,495, 3-22-60, Cl. 206-60.
- Simms, Alfred G.: See—
- Flood, John E., and Simms. 2,928,899.
- Simms, Charles H.: See—
- Breadner, Robert L., and Simms. 2,922,256.
- Simms, Forde M., and J. V. Warinsky, to Falstrom Co. Electrode holder. 2,943,183, 6-28-60, Cl. 219-144.
- Simms, Thomas S.: See—
- Tarleton, Frederic L., and Simms. 2,949,715.
- Simon, Albert W., to United States Steel Corp. Method for separating thiophene from benzene. 2,926,134, 2-23-60, Cl. 208-240.
- Simon-Carves Ltd.: See—
- Bostock, William. 2,925,882.
- Donoghue, John K. 2,956,434.
- Hicks, Raymond. 2,955,689.
- Simon, Edward M., Jr., to Atlas Powder Co. Spinning of viscose. 2,941,892, 6-21-60, Cl. 106-165.



- Simon, Eli, and F. W. Thomas, to Lockheed Aircraft Corp. Package with cellular plastic packaging means. Re. 24,767, 1-19-60, Cl. 206-46.
- Simon, Eli, and F. W. Thomas, to Lockheed Aircraft Corp. Composition comprising polyester-polyisocyanate reaction product and polysulfide polymer. 2,929,794, 3-22-60, Cl. 260-45.4.
- Simon, Frank, to Western Electric Co., Inc. Apparatus for calibrating radar units. 2,961,654, 11-22-60, Cl. 343-17.7.
- Simon, Frank R., and R. O. Palmer, to The Carlyle Johnson Machine Co. Magnetically controlled clutch of multiple disc type. 2,936,054, 5-10-60, Cl. 192-84.
- Simon, Franz E.: *See*—  
Peierls, Rudolf E., Simon, and Arms. 2,964,124.
- Simon, George, to Kay Mfg. Corp. Spring row unit and structure. 2,936,027, 5-10-60, Cl. 155-179.
- Simon, Henry, Ltd.: *See*—  
Allen, Robert W., and Taylor. 2,957,727.  
Ball, John S., and Pickup. 2,957,578.  
Hallworth, Robert. 2,936,885.
- Simon, Jean C., and G. Weill, to Compagnie Generale de Telegraphie Sans Fil. Ultra-high frequency wave radiating devices. 2,927,322, 3-1-60, Cl. 343-786.
- Simon, John G., to Minnesota Mining and Mfg. Co. Reinforced plastic screw threads. 2,943,967, 7-5-60, Cl. 154-83.
- Simon, John P., to International Harvester Co. Speed responsive fluid governor. 2,962,037, 11-29-60, Cl. 137-53.
- Simon, Joseph E. Replacement valve handle. 2,935,896, 5-10-60, Cl. 74-553.
- Simon, Lewis B. Wheel cover. 2,927,824, 3-8-60, Cl. 301-37.
- Simon, May B.: *See*—  
Blatz, Peter A. 2,956,427.
- Simon, Melvin J.: *See*—  
Krauss, Hans G., and Simon. 2,952,244.
- Simon, Myron S.: *See*—  
Blout, Elkan R., Green, and Simon. 2,949,359.
- Simon, Robert A., to North American Aviation, Inc. Composition for scale conditioning and lubrication of metals. 2,930,756, 3-29-60, Cl. 252-25.
- Simon, Sidney. Combined multi-unit mail box and magazine receptacle. 2,960,265, 11-15-60, Cl. 232-25.
- Simon, Sidney L., and N. H. Katz, to United States of America, Navy. Temperature reducing coating for metals subject to flame exposure. 2,926,123, 2-23-60, Cl. 204-37.
- Simon, Stephane, and J. Rosenoer, to International Standard Electric Corp. Electrical identification circuit. 2,954,439, 9-27-60, Cl. 179-18.
- Simon, Walter, H. J. Waldmann, and E. Plauth, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of alcohols and ketones by the oxidation of cycloaliphatic or araliphatic hydrocarbons. 2,938,924, 5-31-60, Cl. 260-586.
- Simonds, George D., to FWD Corp. Constant velocity universal joint. 2,923,141, 2-2-60, Cl. 64-21.
- Simonds Saw and Steel Co.: *See*—  
Emery, Charles H. 2,955,934.  
Ferguson, George D. 2,934,105.
- Simone, Carl F., to Bell Telephone Laboratories, Inc. Current supply apparatus. 2,936,404, 5-10-60, Cl. 315-130.
- Simonek, Jiri, L. Michaliska, J. Drasky, and J. Zoha. Method for the arrangement of thermodynamic relations. 2,934,407, 4-26-60, Cl. 23-213.
- Simonet, Guy, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude. Gas liquefaction process. 2,954,677, 10-4-60, Cl. 62-11.
- Simonetti, George A. Expandable link chain for bracelets with slotted guide plate. 2,919,539, 1-5-60, Cl. 59-79.
- Simonic, Joseph K. Mason's line holding device. 2,948,065, 8-9-60, Cl. 33-85.
- Simoniz Co.: *See*—  
Geen, Henry C. 2,937,098.  
Kendall, Edward R. 2,949,374.  
Kendall, Edward R., and Meister. 2,949,373.
- Simons, Allison K., A. O. Radke, and H. N. Tengler, to Bostrom Mfg. Co. Vehicle seat support. 2,932,342, 4-12-60, Cl. 155-14.
- Simons, Elizabeth W. Mirror support. 2,923,506, 2-2-60, Cl. 248-28.
- Simons, Elizabeth W. Adjustable mounting means for mirrors and similar bodies. 2,938,691, 5-31-60, Cl. 248-28.
- Simons, Gerald F.: *See*—  
Hardwick, George L., and Simons. 2,922,158.
- Simons, Gerald F., to Pacific Mercury Television Mfg. Corp. Electronic apparatus. 2,947,914, 8-2-60, Cl. 317-101.
- Simons, Harold. Hoisting apparatus. 2,966,338, 12-27-60, Cl. 254-150.
- Simons, Homer C., to Eaton Mfg. Co. Combination heater and air conditioner unit. 2,919,907, 1-5-60, Cl. 257-294.
- Simons, John C., Jr.: *See*—  
Johannessen, Paul R. 2,961,590.
- Simons, Langdon S., Jr.: *See*—  
Schladermundt, Peter, Dennerlein, and Simons. 2,946,435.  
Schladermundt, Peter, Dennerlein, and Simons. 2,965,223.
- Simons, Robert L., to U.S. Electrical Motors, Inc. Positive lock electromagnetic brake structure. 2,949,172, 8-16-60, Cl. 188-171.
- Simons, Sanford L., F. K. Floyd, and K. F. Carlsen, to Metron Instrument Co. Couplings. 2,957,322, 10-25-60, Cl. 64-8.
- Simonsen, Charles W. Motor winch. 2,947,517, 8-2-60, Cl. 254-186.
- Simonsen, Merle W. Fertilizer mixer and spreader with partitioned container. 2,946,597, 7-26-60, Cl. 275-8.
- Simonson, Howard E., and E. E. Reed, to Phillips Petroleum Co. Safety device for use in testing relief valves on pressurized fluid containers. 2,952,151, 9-13-60, Cl. 73-4.
- Simopoulos, Nicholas T. Periodic signal selector and blanking generator system. 2,959,737, 11-8-60, Cl. 328-110.
- Simpelaar, Clyde S., to Modine Mfg. Co. Prime surface heat exchanger with dimpled sheets. 2,959,400, 11-8-60, Cl. 257-245.
- Simplex Corp.: *See*—  
Compton, Henry P. 2,950,860.
- Simplex Equipment Corp.: *See*—  
Abrams, Daniel. 2,924,660.
- Simplex Forms Systems, Inc.: *See*—  
Shoemaker, James C. 2,920,371.
- Simplicity Mfg. Co.: *See*—  
Kamlukin, Igor. 2,927,571.  
Rhoades, Nolan, and Kamlukin. 2,924,928.
- Simplus Products Ltd.: *See*—  
Tipping, William F. 2,923,077.  
Tippling, William F. 2,955,370.
- Simpson, Alexander B.: *See*—  
West, De Witt H., Townshend, and Simpson. 2,948,525.
- Simpson, Alfred W., to Refajax Ltd. Printing. 2,943,566, 7-5-60, Cl. 101-195.
- Simpson, Alvan D., to The Forming Machine Co. of America, Inc. Machine for forming continuous strips of fibrous materials. 2,960,162, 11-15-60, Cl. 162-301.
- Simpson, Anthony W., to The Plessey Co. Ltd. Storage devices. 2,924,814, 2-9-60, Cl. 340-173.
- Simpson, Arthur M., to International Steel Co. Electrically-driven revolving door control circuit. 2,954,971, 10-4-60, Cl. 268-31.
- Simpson, Arthur P., to American Machine & Foundry Co. Self-leveling dispenser. 2,944,672, 7-12-60, Cl. 211-49.
- Simpson, Charles J. M. Boilers. 2,937,626, 5-24-60, Cl. 122-140.
- Simpson, Elizabeth A.: *See*—  
Reynolds, William E. 2,919,499.
- Simpson, John A., Sinila, and Soderquist. 2,919,500.
- Simpson, Harry A. Abrasive or like materials and articles. 2,952,951, 9-20-60, Cl. 51-193.
- Simpson, Harry A., Jr., to United States of America, Navy. Bookcase having vertically adjustable shelves. 2,945,599, 7-19-60, Cl. 211-147.
- Simpson, Henry A. Pruning saw guard and guide. 2,921,370, 1-19-60, Cl. 30-167.
- Simpson, Henry W.: *See*—  
Sharp, James M., Hanchett, Lincoln, and Simpson. 2,936,041.
- Simpson, Herbert, Corp.: *See*—  
Granath, Axel G. 2,943,726.  
McIlvaine, Robert L., and Granath. 2,943,801.
- Simpson, Howard W. Combination one-way and two-way brake. 2,953,946, 9-27-60, Cl. 74-762.
- Simpson, John A., A. Sinila, and C. E. Soderquist, Jr., to E. A. Simpson. Reading-training devices. 2,919,500, 1-5-60, Cl. 35-35.
- Simpson, John M., deceased (First National Bank and Trust Co., administrator), and H. E. Carnagua, to Borg-Warner Corp. Transmission and control therefor. 2,940,336, 6-1-60, Cl. 74-645.
- Simpson, Justin, to Continental Can Co., Inc. Crown cap lining machine. 2,954,585, 10-4-60, Cl. 18-20.
- Simpson, Lowe E., to The Orville Simpson Co. Gyrotary sifting machine. 2,946,440, 7-26-60, Cl. 209-326.
- Simpson, Milton, to General Motors Corp. Rotary valve. 2,938,544, 5-31-60, Cl. 137-625.47.
- Simpson Optical Mfg. Co.: *See*—  
Strickland, William P., Jr. 2,959,087.
- Simpson, Paul A., and W. P. Dooley, to American Viscose Corp. Spinneret assembly. 2,958,097, 11-1-60, Cl. 18-8.
- Simpson, Philip A., C. Barclay, and F. P. Phelps, to United States of America, Commerce. Quartz oscillator unit for operation at low temperatures. 2,931,924, 4-5-60, Cl. 310-9.5.
- Simpson, Raymond J., and B. S. Naven, to Dearborn Electronic Laboratories of Delaware, Inc. Capacitor end seal. 2,958,720, 11-1-60, Cl. 174-50.62.
- Simpson, Robert J. Chimney construction. 2,926,517, 3-1-60, Cl. 72-94.
- Simpson, Warren C., to Shell Oil Co. Process for producing fuel oils having improved radiation emission. 2,952,607, 9-13-60, Cl. 208-15.
- Simpson, Warren C., to Shell Oil Co. Bituminous compositions. 2,956,034, 10-11-60, Cl. 260-18.
- Simpson, Warren O.: *See*—  
Heidergott, Harry W., and Simpson. 2,948,304.
- Simpson, William, to Newey Brothers Ltd. Means for stitching hook tape to garments. 2,960,945, 11-22-60, Cl. 112-2.
- Simrill, Reece. Wrist ash tray. 2,953,137, 9-20-60, Cl. 131-235.
- Sims, Chester T., to The Battelle Development Corp. Thermocouple. 2,957,037, 10-18-60, Cl. 136-5.
- Sims, Darrell L.: *See*—  
Regan, Louis M., and Sims. 2,945,665.
- Sims, Darrell L., to Regan Forge and Engineering Co. Deflection drilling tool. 2,919,897, 1-5-60, Cl. 255-1.6.



- Sims, Jacqueline G., and C. L. Moyle, to The Dow Chemical Co. 2-nitro-3,4,6-trichlorophenyl benzenesulfonates. 2,949,482, 8-16-60, Cl. 260—456.
- Sims, John C., Jr., to Sperry Rand Corp. Single print magnetic printer. 2,932,278, 4-12-60, Cl. 118—637.
- Sims, John C., Jr., to Sperry Rand Corp. Pulse group synchronizer. 2,937,366, 5-17-60, Cl. 340—174.
- Sims, John C., Jr., to Sperry Rand Corp. Magnetic selecting device. 2,941,666, 6-21-60, Cl. 209—74.
- Sims, John C., Jr., to Sperry Rand Corp. Magnetic printer. 2,959,638, 11-8-60, Cl. 178—23.
- Sims, John C., Jr., to Sperry Rand Corp. Bistable device. 2,959,685, 11-8-60, Cl. 307—88.
- Sims, John C., Jr., and H. F. Welsh, to Sperry Rand Corp. Card reading systems. 2,928,596, 3-15-60, Cl. 235—61.11.
- Sims, John T. Bait vending machine. 2,920,735, 1-12-60, Cl. 194—79.
- Sims, Redding, to W. Godchaux, Jr. Ventilated awning. 2,930,088, 3-29-60, Cl. 20—57.5.
- Sims, Robert H.: See—
- Lander, Richard J., Sims, and Woofter. 2,955,178.
- Sims, Robert H., to General Motors Corp. Snap in retainer for wiring harness. 2,931,851, 4-5-60, Cl. 174—72.
- Sims, Robert H., and H. R. Lilley, to General Motors Corp. Printed circuit type fuse. 2,941,059, 6-14-60, Cl. 200—129.
- Sims, Willard M.: See—
- Honn, Francis J., and Sims. 2,965,619.
- Simsbauer, Herbert H. Variable pitch boat propeller. 2,949,966, 8-23-60, Cl. 170—160.51.
- Simson, Verne H., to Cutler-Hammer, Inc. Electric controller with safety circuit for continuous operation. 2,959,263, 11-8-60, Cl. 192—129.
- Sinclair, Bert H., and R. R. Gordon, to General Communication Co. Protective system for radio beacons. 2,923,935, 2-2-60, Cl. 343—101.
- Sinclair, Charles W., to Kelsey-Hayes Co. Internal expanding brake. 2,920,723, 1-12-60, Cl. 183—78.
- Sinclair, Charles W. and R. L. Atkin, to Kelsey-Hayes Co. Wheel rim. 2,929,430, 3-22-60, Cl. 152—409.
- Sinclair, Gordon R., to United States of America, Air Force. Deceleration parachute retraction system. 2,933,272, 4-19-60, Cl. 244—113.
- Sinclair, Harold. Hydraulic turbo couplings. 2,924,942, 2-16-60, Cl. 60—54.
- Sinclair, Harold. Power transmission systems. 2,939,328, 6-7-60, Cl. 74—339.
- Sinclair, Harold. Hydraulic turbo couplings. 2,957,312, 10-25-60, Cl. 60—54.
- Sinclair, James A. Casting hollow receptacles. 2,955,341, 10-11-60, Cl. 25—130.
- Sinclair Oil & Gas Co.: See—
- Emery, Leonard W. 2,941,595.
- Kaasa, Orin G. 2,941,596.
- Pelzer, Harry L. 2,939,688.
- Sinclair Refining Co.: See—
- Borgerson, Benjamin T. 2,934,493.
- Bruns, Frank J. 2,931,843.
- Campbell, Oliver F. 2,919,551.
- Case, Everett N., and Koncos. 2,948,675.
- Counts, Thomas O. 2,966,458.
- Decker, William H. 2,943,998.
- Decker, William H. 2,959,346.
- Dorinson, Amos. 2,938,870.
- Fox, Wilbur E., and Los. 2,939,800.
- Friedman, Bernard S. 2,920,115.
- Friedman, Bernard S. 2,947,682.
- Friedman, Bernard S. 2,958,643.
- Johnson, Marvin F. L., Keith, and Stewart. 2,922,766.
- Johnson, Marvin F. L., and Cole. 2,932,619.
- Keith, Carl D., Erickson, McGrew, and Braithwaite. 2,938,002.
- Kleinholz, Milton P. 2,937,992.
- Kleinholz, Milton P. 2,944,971.
- Kovach, Stephen M., and Sanford. 2,927,949.
- Lorenc, Walter F., Keith, and Hettinger. 2,951,035.
- Martin, Edward J. 2,954,337.
- Melik, John S., and Erickson. 2,932,673.
- Nelson, John W. 2,940,931.
- Nelson, John W. 2,947,696.
- Nelson, John W. 2,951,809.
- Piros, John J. 2,930,578.
- Rausch, Maurice K. 2,931,766.
- Rausch, Maurice K., and Francis. 2,943,990.
- Rausch, Maurice K., and Watson. 2,944,015.
- Sanford, Robert A., and Patinkin. 2,958,715.
- Sheldahl, David B. 2,958,603.
- Smith, Reading B. 2,965,560.
- Teter, John W., Hettinger, Hedeon, and Lorenc. 2,952,615.
- Thomas, Owen H., and Keith. 2,964,462.
- Thomas, Owen H., and Mool. 2,952,721.
- Verdol, Joseph A. 2,944,025.
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- Vierk, Ernest R., and Karr. 2,947,697.
- Vierk, Ernest R., and Mazzoni. 2,932,576.
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- Young, David W. 2,934,517.
- Young, David W. 2,945,870.
- Young, David W. 2,960,469.
- Young, David W., and May. 2,929,786.
- Young, Hobert D. 2,934,047.
- Young, Hobert D. 2,934,048.
- Sinclair Research Laboratories, Inc.: See—
- Borrino, Joseph. 2,962,890.
- Watkins, Franklin M. 2,941,537.
- Sinclair, Robert L., to The Gillette Co. Detachable display rack. 2,935,208, 5-3-60, Cl. 211—86.
- Sinclair, Robert L., to The Gillette Co. Display rack. 2,936,902, 5-17-60, Cl. 211—86.
- Sinclair, Robert L., to Paper Mate Mfg. Co. Display device for edgewise mounting of elongated articles. 2,965,238, 12-20-60, Cl. 211—69.
- Sindeband, Seymour J.: See—
- MacDonald, Waldron S., Brown, Park, and Sindeband. 2,959,123.
- Sindelar, Arno A., to Collins Radio Co. Ceramic disc tube socket. 2,965,873, 12-20-60, Cl. 339—176.
- Sindelar, Thomas A., to Republic Steel Corp. Apparatus for pressing consumable electrode billets. 2,925,619, 2-23-60, Cl. 18—16.
- Sinden, Alfred D., to Stephens-Adamson Mfg. Co. Material handling apparatus. 2,950,809, 8-30-60, Cl. 198—202.
- Sinderhauf, Henry A. Multiple parking elevator. 2,962,171, 11-29-60, Cl. 214—16.1.
- Sindlinger, Charles J.: See—
- Straub, William S., and Sindlinger. 2,960,448.
- Sindlinger, Charles J., and C. C. Clayton, Jr., to Columbia-Southern Chemical Corp. Process for preparing alkali metal zirconate from zircon. 2,962,346, 11-29-60, Cl. 23—16.
- Sindlinger, Charles J., and C. C. Clayton, Jr., to Columbia-Southern Chemical Corp. Method of recovering zirconium values from zircon. 2,962,347, 11-29-60, Cl. 23—16.
- Sindy, Clarence F., F. V. Kolda, and J. A. Billson, to General Electric Co. Mount threading apparatus. 2,960,762, 11-22-60, Cl. 29—203.
- Sindzinski, Willy, to International Standard Electric Corp. Device for opening letter envelopes, bags, or like articles. 2,932,142, 4-12-60, Cl. 53—386.
- Sines Sociedad Para Inversiones Extranjeras S.A.: See—
- De Mestral, George. 2,933,797.
- Sing, Daniel Y., and A. Banas, to Bell Aircraft Corp. Floating anchor nut assembly with flange construction to minimize heat transfer. 2,943,316, 8-9-60, Cl. 151—41.7.
- Singelman, Fred E., to Admiral Corp. Testing circuit. 2,956,116, 10-11-60, Cl. 178—6.8.
- Singelmann, Dietrich, to United States of America, Air Force. Rocket combustion chamber. 2,958,183, 11-1-60, Cl. 60—35.6.
- Singer, Edward N.: See—
- Caler, Herschel R., Russo, and Singer. 2,945,397.
- Caler, Herschel R., Russo, and Singer. 2,952,768.
- Singer, Ernst, to Singer Valve Co. Ltd. Pressure reducing valve. 2,935,083, 5-3-60, Cl. 137—505.25.
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- Singer-Fidelity, Inc.: See—
- Peel, Robert. 2,964,259.
- Reymes-Cole, Bernard T. R. 2,960,751.
- Singer, Franz, to Compur-Werk Friedrich Deckel OHG. Depth of field indicator for photographic cameras. 2,926,588, 3-1-60, Cl. 95—64.
- Singer, Franz, to Compur-Werk Friedrich Deckel OHG. Photographic shutter construction. 2,938,446, 5-31-60, Cl. 95—64.
- Singer, Henry L. Honeycomb foundation frames and mounting means therefor. 2,919,450, 1-5-60, Cl. 6—10.
- Singer, Herbert: See—
- Newman, William E., and Singer. 2,963,559.
- Singer, Leonard S.: See—
- Spry, William J., Jr., and Singer. 2,957,128.
- Singer Mfg. Co., The: See—
- Dunn, Earl F. 2,920,590.
- Dunn, Earl F., Silva, and Walling. 2,937,605.
- Enos, John P. 2,927,547.
- Enos, John P. 2,948,244.
- Eusepi, Martin W. 2,944,845.
- Graham, Richard P., and Ivanko. 2,938,477.
- Hacklander, Hans. 2,942,566.
- Hacklander, Hans. 2,946,301.
- Hacklander, Hans. 2,947,270.
- Hacklander, Hans. 2,948,243.
- Herbst, Edward J., and Dulk. 2,965,058.
- Herr, John A. 2,934,030.
- Hofgesang, William. 2,952,164.
- Ivanko, Michael F. 2,934,282.
- Johnson, Ralph E. 2,920,593.
- Johnson, Ralph E. 2,921,545.
- Johnson, Ralph E. 2,924,120.
- Johnson, Ralph E. 2,931,329.
- Johnson, Ralph E. 2,932,268.
- Johnson, Ralph E. 2,938,478.
- Johnson, Ralph E. 2,942,565.
- Johnson, Ralph E. 2,955,775.
- Johnson, Ralph E. 2,966,130.
- Johnson, Ralph E., and Bartosz. 2,962,992.
- Koenig, Edward L. 2,919,667.
- Kuhar, Ludwig J. 2,932,269.
- Kuhar, Ludwig J. 2,949,874.
- Larys, Bohumir A., Turner, and Abel. 2,942,564.
- Matusas, Anthony J. 2,928,640.
- Mayeran, William. 2,925,794.
- Mayeran, William. 2,952,229.
- Momberg, James W., and Gall. 2,937,396.
- Momberg, James W., Gall, and Krzeslewski. 2,930,446.
- Momberg, James W., and Taylor. 2,939,064.



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 Momberg, James W., Taylor, and Burnett. 2,960,644.  
 Perla, Martin R. 2,945,461.  
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 Pinkvoss, Berthold P. 2,931,330.  
 Rakacs, Joseph G. 2,964,000.  
 Stanton, Edward W. 2,946,639.  
 Stanton, Edward W., Mracek, and Stein. 2,965,347.  
 Tarle, Emile P. 2,966,377.  
 Walling, Francis L., and Sliva. 2,964,001.  
 Waterman, Max L. 2,944,497.  
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 Zylbert, Thaddeus J. 2,958,300.
- Singer, Milton. Safety device for the eyes. 2,920,327, 1-12-60, Cl. 2-14.
- Singer, Oscar C., and G. H. Reed; said Reed assor. to said Singer. Rotary distributor for sewage treating apparatus. 2,956,750, 10-18-60, Cl. 239-210.
- Singer Valve Co. Ltd.: *See*—  
 Singer, Ernst. 2,935,083.  
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- Singhaus, Howard E., to International Business Machines Corp. Selector for a multiple track record of a magnetic memory system. 2,954,547, 9-27-60, Cl. 340-174.1.
- Singher, Heron O., and E. A. Swart, to Ortho Pharmaceutical Corp. Thromboplastin. 2,921,000, 1-12-60, Cl. 167-74.
- Singher, Heron O., and J. M. Dressler, to Ortho Pharmaceutical Corp. Purification of prothrombin. 2,922,745, 1-26-60, Cl. 167-65.
- Singher, Heron O., and L. Zuckerman, to Ortho Pharmaceutical Corp. Urokinase—a plasminogen activator and methods of obtaining the same. 2,961,382, 11-22-60, Cl. 195-68.
- Singleback, George W., to Radio Corp. of America. Color killer system. 2,948,774, 8-9-60, Cl. 178-5.4.
- Singletary, Ernest C.: *See*—  
 Mueller, John D., and Singletary. 2,940,918.  
 Singletary, Curtis R.: *See*—  
 Sullivan, Francis F., Baker, and Singletary. 2,929,779.
- Singleton, Bert: *See*—  
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- Singleton, Fred G., and K. A. Schafer, to H. H. Robertson Co. Method of making transparent unsaturated polyester-styrene-glass fiber composition. 2,944,994, 7-12-60, Cl. 260-40.
- Singleton, Henry E., and H. F. Erdley, to Litton Industries, Inc. Precision gyroscope. 2,933,925, 4-26-60, Cl. 74-5.4.
- Singleton, Henry E., and S. F. Crumb, to North American Aviation, Inc. Gyro smoothing system. 2,941,406, 6-21-60, Cl. 74-5.37.
- Singleton, Henry E., and H. F. Erdley, to Litton Industries, Inc. Low drift gyro-stabilized platform. 2,949,785, 8-23-60, Cl. 74-5.34.
- Singleton, John C., to The Babcock & Wilcox Co. Soot blower access and sealing means. 2,958,311, 11-1-60, Cl. 122-392.
- Singleton, Ogle R., Jr., to Reynolds Metals Co. Method of soldering aluminum to copper or brass. 2,952,906, 9-20-60, Cl. 29-475.
- Singleton, Robert W., and W. B. Horback, to Celanese Corp. of America. Heat stable saponified cellulose ester filamentary material and process of making. 2,966,428, 12-27-60, Cl. 117-136.
- Singleton, Thomas C.: *See*—  
 McDonald, David W., and Singleton. 2,965,670.
- Singley, Mark E. Silo type self-feeding hopper and trough. 2,931,335, 4-5-60, Cl. 119-52.
- Singman, Ralph, to Hughes Aircraft Co. Electronic modulo error detecting system. 2,919,854, 1-5-60, Cl. 235-153.
- Singmaster & Breyer, Inc.: *See*—  
 Sweet, E. Roy, Wolbach, and Sugino. 2,960,391.
- Sinila, Alexander: *See*—  
 Simpson, John A., Sinila, and Soderquist. 2,919,500.
- Siniscalchi, Patrick. Golf stick indicia. 2,934,347, 4-26-60, Cl. 273-164.
- Sink, Robert L., to Consolidated Electrodynamics Corp. Integration system. 2,919,578, 1-5-60, Cl. 73-206.
- Sink, Robert L., to Bell & Howell Co. Rotation sensitive pickup. 2,942,457, 6-28-60, Cl. 73-71.4.
- Sinker, David H., and R. A. Check valve. 2,960,998, 11-22-60, Cl. 137-542.
- Sinker, Robert A.: *See*—  
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- Sinn, Gustav: *See*—  
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- Sinn, Gustav, and H. Bartl, to Farbenfabriken Bayer Aktiengesellschaft. Stable dispersions of rubbery substances and method of preparing same. 2,963,452, 12-6-60, Cl. 260-4.
- Sinn, Leroy G., to Eli Lilly and Co. Process for obtaining intrinsic factor. 2,937,120, 5-17-60, Cl. 167-74.
- Sinn, Robert S., to Radio Corp. of America. Document transcriber. 2,931,916, 4-5-60, Cl. 250-219.
- Sinnamon, Howard I., N. C. Aceto, and R. K. Eskew, to United States of America, Agriculture. Dried fat-containing milk products of easy dispersibility. 2,964,407, 12-13-60, Cl. 99-56.
- Sinnema, Felje H.: *See*—  
 Bruin, Pieter, and Sinnema. 2,951,824.
- Sinninger, Dwight V., to Hupp Corp. Universal coder. 2,942,250, 6-21-60, Cl. 340-313.
- Sinski, Henry A.: *See*—  
 Russo, Carl J., Trifunovic, and Sinski. 2,960,729.
- Sintercast Corp. of America: *See*—  
 Goetzel, Claus G., and Ellis. 2,942,970.  
 Koenig, Peter J. 2,944,893.  
 Tarkan, Stuart E., Lawendel, and Goetzel. 2,922,721.
- Sinton, William M.: *See*—  
 Fastie, William G., and Sinton. 2,922,331.
- Slon, Ello, to The Bendix Corp. Thermistor probe. 2,961,625, 11-22-60, Cl. 338-28.
- Sipala, Manuel D. Feed mechanism for fusible metal strip apparatus. 2,952,232, 9-13-60, Cl. 113-109.
- Sipos, Endre: *See*—  
 Witte, Norman H., and Sipos. 2,929,714.
- Sippel, Hans, to Triumph Werke Nurnberg A.G. Shifting arrangement for typewriters. 2,944,650, 7-12-60, Cl. 197-74.
- Siracki, Steve: *See*—  
 Wendt, George D., and Siracki. 2,957,670.
- Siraky, Frank. Selective display device. 2,954,624, 10-4-60, Cl. 40-79.
- Siravo, Vincent. Pressure operated rotary device. 2,942,580, 6-28-60, Cl. 121-38.
- Siravo, Vincent. Ball valve. 2,963,260, 12-6-60, Cl. 251-54.
- Sire, Edouard M. Simulated candle device and package. 2,945,583, 7-19-60, Cl. 206-1.5.
- Sirl, Louis J., to Penn Controls, Inc. Control mounting assembly. 2,930,876, 3-29-60, Cl. 200-163.
- Sirls, Irwin H., and J. S. Wachtel. Pocketbook or the like provided with indicia carrying pockets. 2,920,671, 1-12-60, Cl. 150-35.
- Sirmay, Julius, and D. B. Brinton, to Scott and Williams, Inc. Pattern mechanism. 2,943,469, 7-5-60, Cl. 66-156.
- Sirois, Albin. Shoe waxing and polishing machine. 2,964,768, 12-20-60, Cl. 15-31.
- Sisco, Alexander. Precision instrument. 2,957,249, 10-25-60, Cl. 33-171.
- Sisco, William E., M. I. Moyer, and P. Shenian. Process for recovery of naphthalene from sulfonic acid solutions. 2,920,121, 1-5-60, Cl. 260-674.
- Sisco, William E., P. Shenian, and M. I. Moyer, to American Cyanamid Co. Process for refining naphthalene. 2,955,144, 10-4-60, Cl. 260-674.
- Sisemore, Marshall G. Vacuum cleaner. 2,961,117, 11-29-60, Cl. 183-37.
- Sisk, Lulu E.: *See*—  
 Sisk, Martin A. 2,948,399.
- Sisk, Martin A., deceased; L. E. Sisk, executrix. Surface drains. 2,948,399, 8-9-60, Cl. 210-166.
- Sisk, Ralph. Trash shoe for rolling coulters. 2,942,675, 6-28-60, Cl. 172-514.
- Sisselman, Irving, and J. Gallin. Disposable strainer cups for coffee percolators. 2,948,212, 8-9-60, Cl. 99-310.
- Sisson, Kenneth O.: *See*—  
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- Sisson, Kenneth O., to General Motors Corp. Domestic appliance. 2,949,759, 8-23-60, Cl. 68-12.
- Sisson, Kenneth O., to General Motors Corp. Domestic appliance. 2,956,426, 10-18-60, Cl. 68-12.
- Sites, Benjamin L., and F. R. Paschke, to Miehle-Goss-Dexter, Inc. Apparatus for making corrected color separation records. 2,951,116, 8-30-60, Cl. 178-5.4.
- Sitler, Richard W., to Aurora Equipment Co. Build-up unit for cabinet structures. 2,933,360, 4-19-60, Cl. 312-195.
- Sitler, Richard W., to Aurora Equipment Co. Locker handle construction. 2,946,640, 7-26-60, Cl. 312-320.
- Sitler, Richard W., to Aurora Equipment Co. Latching mechanism for luggage locker. 2,953,011, 9-20-60, Cl. 70-80.
- Sittel, Karl, to Walsco Co. Method and apparatus for producing fibrous structures. 2,920,679, 1-12-60, Cl. 154-1.
- Sittel, Karl, to Walsco Co. Method and apparatus for producing fibrous structure. 2,925,629, 2-23-60, Cl. 19-144.
- Sitterly, Charles K.: *See*—  
 Gill, Harvey J., Jr., Sitterly, and Preu. 2,948,027.
- Sitton, Andrew J., to Sitton Industries, Inc. Continuous feed printing strip material caster. 2,947,044, 8-2-60, Cl. 22-57.2.
- Sitton Industries, Inc.: *See*—  
 Sitton, Andrew J. 2,947,044.
- Sitton, Philip N., to Sanitary Plastics, Inc. Method, apparatus and product for manufacturing separable stairs. 2,939,309, 6-7-60, Cl. 72-96.
- Sitz, Gilbert C., to Aircraft-Marine Products, Inc. Plugboard assembly. 2,927,295, 3-1-60, Cl. 339-18.
- Sivacek, Emil E., to King-Seely Corp. Speedometer. 2,953,026, 9-20-60, Cl. 73-519.
- Sivelle, Charles: *See*—  
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- Siver, Richard W.: *See*—  
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- Sixbey, Samuel R., and A. E. Woodward, to Servo Corp. of America. Multi-element bolometer connector. 2,963,672, 12-6-60, Cl. 338-17.
- Sizer, Phillip S., to Otis Engineering Corp. Flow control apparatus. 2,963,089, 12-6-60, Cl. 166-72.
- Sjöblom, Johan V., to Haldex Aktiebolag. Delayed taximeter operating mechanism. 2,934,265, 4-26-60, Cl. 235-92.
- Sjodin, Peter E. Hydromechanical automatic progressive power ratio transmission system. 2,928,245, 3-15-60, Cl. 60-54.6.
- Sjodin, Peter E. Hydraulic system. 2,928,246, 3-15-60, Cl. 60-97.
- Sjogren, Nils: *See*—  
 Cusoleca, Otwin, Sjogren, and Pichler. 2,952,533.



- Sjoholm, Claes B.: *See*—  
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Sjoholm, Claes B., and N. A. Nilsson (now by change of name N. A. Heintzel), to Aktiebolaget Separator. Apparatus for treating cheese curds. 2,942,343, 8-28-60, Cl. 31-46.  
Sjolander, Newell O.: *See*—  
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Sjoman, Per Y., to Elektriska Svetsningsaktiebolaget. Electric arc welding electrodes and methods of manufacturing the same. 2,944,142, 7-5-60, Cl. 219-146.  
Sjostedt, Helge I. Flame cutting machines. 2,940,748, 6-14-60, Cl. 266-23.  
Sjoststrand, Bengt T. L. Manufacture of halogenated organic compounds. 2,955,117, 10-4-60, Cl. 260-396.  
Sjoststrand, Hjalmar E. Machine for balancing rotatable bodies. 2,924,048, 2-9-60, Cl. 51-165.  
Sjostrom, Carl-Eric: *See*—  
Borthen, Eyvind B., and Sjostrom. 2,958,433.  
Sjostrom, Robert L. Fabric positioning mechanism. 2,959,412, 11-8-60, Cl. 271-84.  
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Sjothun, Irvin J., to The Firestone Tire & Rubber Co. Chafer for tubeless tires. 2,947,343, 8-2-60, Cl. 152-362.  
Skaist, Morris, to Tabrol Co., Inc. Controlled evaporable deodorant bottle. 2,961,167, 11-22-60, Cl. 239-45.  
Skalabrin, Vladimir S. Camera grip for miniature cameras. 2,949,838, 8-23-60, Cl. 95-86.  
Skalak, Arnold J.: *See*—  
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Skandinaviska Granit Aktiebolaget: *See*—  
Mattson, Sven A., Karlsson, and Nilsson. 2,963,018.  
Skaran, Arthur R., to Boeing Airplane Co. Shaving tool. 2,919,631, 1-5-60, Cl. 90-12.  
Skaredoff, Nikolai N., to Devenco Inc. Fuel vapor recovery unit. 2,926,506, 3-1-60, Cl. 62-259.  
Skaredoff, Nikolai N. Target and indicator means. 2,939,706, 6-7-60, Cl. 273-102.2.  
Skarin, Carl R.: *See*—  
Mahoney, Joseph L., Skarin, and Wittenberger. 2,938,473.  
Skarin, Carl R., to Baker Perkins, Inc. Sealing door for baking oven. 2,936,722, 5-17-60, Cl. 107-57.  
Skarsten, Olav A., and B. G. Carleton; said Carleton assor. to said Skarsten. Propeller. 2,954,083, 9-27-60, Cl. 170-159.  
Skärström, Åke R., to Arenco Aktiebolag. Machine for wrapping and applying a wrapper to tobacco fillers. 2,963,025, 12-6-60, Cl. 131-52.  
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Skawden, Odd J., and W. F. Larson, to Sutton Engineering Co. Straightening machine table. 2,936,811, 5-17-60, Cl. 153-85.  
Skeen, Hobson L.: *See*—  
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Ottstad, Jack B., Skeen, and Du Vall. 2,932,951.  
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Skeeters, Maxwell J., to Diamond Alkali Co. Stabilization of chlorinated hydrocarbons with carboxylic acid esters of acetylenic alcohols. 2,958,711, 11-1-60, Cl. 260-652.5.  
Skeggs, Leonard T., to Technicon Instruments Corp. Method and means for the determination of carbon dioxide in biological fluids. 2,946,665, 7-26-60, Cl. 23-230.  
Skel, Edward C., to Telecomputing Corp. Seal for plug-type valves. 2,943,838, 7-5-60, Cl. 251-317.  
Skellern, John, to D. Napier & Son Ltd. Half ball valves. 2,930,573, 3-29-60, Cl. 251-122.  
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Skellern, John, to D. Napier & Son Ltd. Fluid filtering apparatus. 2,940,517, 6-14-60, Cl. 158-36.4.  
Skellett, Albert M.: *See*—  
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Mayer, Donald W., and Skellett. 2,922,062.  
Skellett, Albert M., to Tung-Sol Electric Inc. Cold cathode vacuum lamp. 2,925,511, 2-16-60, Cl. 313-103.  
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Skellett, Albert M., and B. G. Firth, to Tung-Sol Electric Inc. Starting means for cold cathode vacuum tube devices. 2,942,146, 6-21-60, Cl. 315-12.  
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Skellon, Charles W., to Texas Instruments Inc. Time comparison system. 2,929,991, 3-22-60, Cl. 324-68.  
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Skerritt, Roy P., to Economatic Products Co. Furnace-installed humidifier. 2,965,098, 12-20-60, Cl. 126-113.  
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Shanahan, William J. 2,942,251.  
Shanahan, William J. 2,956,110.  
Shanahan, William J., Vetter, and Sacks. 2,965,702.  
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Skidmore, Harold J. Method of converting a free-spinning nut into a prevailing torque lock nut, and apparatus therefor. 2,966,082, 12-27-60, Cl. 81-10.  
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Skidmore, Richard H. 2,959,078.  
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Skien, William E.: *See*—  
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Bork, Hugo W. 2,955,629.  
Doolling, Henri C. 2,964,845.  
Skillin, Walter F., to Union Mfg. Co. Power-operated wrench. 2,952,177, 9-13-60, Cl. 81-54.  
Skinas, Kosmas. Automatic washing mop and floor dryer. 2,947,012, 8-2-60, Cl. 15-98.  
Skinker, Murray F., to General Electric Co. Apparatus for loading sheathed wire heating units. 2,920,430, 1-12-60, Cl. 53-126.  
Skinner, B. C.: *See*—  
Moser, Robert C. 2,933,074.  
Skinner, B. L.: *See*—  
Moser, Robert C. 2,933,074.  
Skinner, Bronson C., to B. W. Skinner. Valve Linkage adjusting mechanism. 2,947,296, 8-2-60, Cl. 123-90.  
Skinner, Bruce W.: *See*—  
Moser, Robert C. 2,933,074.  
Skinner, Brunhilde W.: *See*—  
Skinner, Bronson C. 2,947,296.  
Skinner, Charles G., Jr.: *See*—  
Shive, William, and Skinner. 2,966,488.  
Skinner, Chuck C., The: *See*—  
Goepfrich, George A., and Padula. 2,956,728.  
Skinner, Clawson N. Physiologic denture adapter apparatus. 2,937,443, 5-24-60, Cl. 32-19.  
Skinner, David W.: *See*—  
Guttridge, Eric J., and Skinner. 2,929,042.  
Skinner, George M.: *See*—  
Thomas, Kenneth L., Wickham, and Skinner. 2,950,377.  
Skinner, George M., to Union Carbide Corp. Metal arc working process and apparatus. 2,936,364, 5-10-60, Cl. 219-135.  
Skinner, Glenn S.: *See*—  
Bicking, John B., Skinner, and Lovett. 2,948,723.  
Skinner, Gordon B.: *See*—  
Ruehrwein, Robert A., and Skinner. 2,940,825.  
Skinner, Hazel B.: *See*—  
Bletcher, Ralph E., Ward, and Bucknell. 2,923,315.  
Skinner, Jacques B.: *See*—  
Moser, Robert C. 2,933,074.  
Skinner, James L. Starter for motors. 2,922,411, 1-26-60, Cl. 123-179.  
Skinner, James L., Sr. Rocking horse. 2,921,789, 1-19-60, Cl. 272-53.2.  
Skinner, Jimmie E.: *See*—  
Newton, George R., and Skinner. 2,957,990.  
Skinner, John R., and C. H. Wilcoxon, Jr., to Shell Oil Co. Epoxidation of unsaturated aldehydes. 2,938,040, 5-24-60, Cl. 260-348.5.  
Skinner, John R., and R. van Helden, to Shell Oil Co. Elimination of bagging during olefin polymerization. 2,961,434, 11-22-60, Cl. 260-93.7.



- Skinner, Kenneth R.: *See*—  
Onksen, George W., Miller, Griner, Martin, and Skinner. 2,937,250.
- Skinner, Lee B., W. H. Williams, and J. A. Westfield. Piano player. 2,953,957, 9-27-60, Cl. 84-105.
- Skinner, Leslie A., Liquid propellant, regenerative feed and recoilless gun. 2,965,000, 12-20-60, Cl. 89-17.
- Skinner, M. B., Co.: *See*—  
Merrill, Patterson D. 2,923,561.  
Merrill, Patterson D., and Waite. 2,950,637.
- Skinner, Peggy J.: *See*—  
Chapman, Christopher L. C., and Skinner. 2,945,078.
- Skinner, Robert K.: *See*—  
Kessler, James R., Miller, and Skinner. 2,949,159.
- Skinner, W. I., and Co.: *See*—  
Skinner, William I. 2,942,607.
- Skinner, William I., to W. I. Skinner and Co. Machines for cleaning tobacco scrap. 2,942,607, 6-28-60, Cl. 131-147.
- Skipworth, Walter J.: *See*—  
Darnell, Fred P., and Skipworth. 2,940,377.
- Sklar, David F., to The Torsion Balance Co. Hardness testers. 2,938,377, 5-31-60, Cl. 73-83.
- Sklare, Morris, & Co.: *See*—  
Brontman, Henry. 2,952,315.
- Sklaw, Jacob, and J. J. Smith, to Security Storm Lock and Hardware Corp. Striker device. 2,957,721, 10-25-60, Cl. 292-341.15.
- Skog, Henry A., and R. D. Fox, to Canning Equipment Co. Fruit orienting, transferring, splitting, and pitting machine. 2,946,361, 7-26-60, Cl. 146-28.
- Skogg, Per O., Means for cleaning wood-cutting dies. 2,936,802, 5-17-60, Cl. 144-2.
- Skogsgren, Erik L., Party-line telephone system. 2,945,095, 7-12-60, Cl. 179-17.
- Skoldberg, Per O.: *See*—  
Jorgensen, Anders O., Skoldberg, and Thysk. 2,961,752.
- Skoli, Sigmund P.: *See*—  
Hayden, Eugene L., Skoli, and Witt. 2,927,594.
- Skolnick, Isaac, Gage for fish nets. 2,951,415, 9-6-60, Cl. 87-53.
- Skolnikoff, Benjamin, Gravity controlled brush device with lock. 2,932,046, 4-12-60, Cl. 15-139.
- Skomsvold, Matthew B., Photographic retouching device. 2,930,307, 3-29-60, Cl. 95-103.
- Skogg, Donald K., and L. Kramer, to Thor Power Tool Co. Hydraulic system for operating simultaneously a plurality of power units. 2,953,903, 9-27-60, Cl. 60-97.
- Skogg, Karl I. L., to Telefonaktiebolaget L M Ericsson. Finding and identifying device. 2,929,882, 3-22-60, Cl. 179-18.
- Skow, Ross E., to Engineered Specialties Corp. Machine for making and applying clasps to envelopes. 2,929,068, 3-22-60, Cl. 1-95.
- Skow, Ross E., to Berkley Machine Co. Universal key insignia printer. 2,929,319, 3-22-60, Cl. 101-232.
- Skow, William R., Safety chain devices for tractor hitches. 2,937,885, 5-24-60, Cl. 280-457.
- Skrainka, Ralph N., Skate-blade guards. 2,954,572, 10-4-60, Cl. 15-118.
- Skreberg, Hans, Mechanical projector. 2,945,485, 7-19-60, Cl. 124-4.
- Skromme, Arnold B., to Deere & Co. Farm implement for chopping or unloading. 2,952,465, 9-13-60, Cl. 275-3.
- Skromme, Arnold B., and W. W. Kellums, to Deere & Co. Bulldozer mounting means. 2,927,388, 3-8-60, Cl. 37-144.
- Skubic, Joe, Internal combustion engine replaceable cylinder sleeve. 2,951,472, 9-6-60, Cl. 123-41.72.
- Skubic, LeRoy F., to The Paltier Corp. Pallet tiering and supporting means. 2,924,339, 2-9-60, Cl. 211-148.
- Skubic, Leroy F., to The Paltier Corp. Vertically adjustable pallet rack. 2,925,920, 2-23-60, Cl. 211-147.
- Skubic, Leroy F., to The Paltier Corp. Pallet tiering and supporting means. 2,936,984, 5-17-60, Cl. 248-120.
- Skubic, Leroy F., to The Paltier Corp. Pallet tiering hardware. 2,953,340, 9-20-60, Cl. 248-120.
- Skulavik, Joseph, Collapsible carrier for bottles and the like. 2,954,899, 10-4-60, Cl. 220-110.
- Skuldt, Boyd O., Folding trailers. 2,927,816, 3-8-60, Cl. 296-23.
- Skumawitz, Max, to Tornado Ramset G.m.b.H. & Co. Apparatus for shooting in bolts. 2,950,481, 8-30-60, Cl. 1-106.
- Skunda, Michael, to General Motors Corp. Cable connector. 2,943,139, 6-28-60, Cl. 174-77.
- Skutle, Sebben S., and R. L. Buhtz, Article handling method and apparatus. 2,958,436, 11-1-60, Cl. 214-731.
- Skwarek, Frank J.: *See*—  
Jaffe, David L., and Skwarek. 2,921,187.
- Skwarek, Frank J., to Polarad Electronics Corp. Extended frequency range signal generator control mechanism. 2,921,270, 1-12-60, Cl. 331-177.
- Slack, Charles B., to Baird-Atomic, Inc. Device for analogue to digital conversion, and components thereof. 2,931,024, 3-29-60, Cl. 340-347.
- Slack, Herbert S.: *See*—  
Horowitz, William, and Slack. 2,924,704.
- Slack, Ronald: *See*—  
Adams, Arthur, and Slack. 2,940,970.
- Slade, Albert E., to Arthur D. Little, Inc. Superconductive switching element. 2,946,030, 7-19-60, Cl. 336-155.
- Slade, Duncan E., to United States Rubber Co. Molded plastic heel cup with retaining wall feature. 2,946,139, 7-26-60, Cl. 36-7.3.
- Slade, Eugene E., to General Electric Co. Circuit breaker panelboard. 2,946,928, 7-26-60, Cl. 317-119.
- Slade, Hector V., to The Garrard Engineering and Mfg. Co. Ltd. Gramophone record changers. 2,938,730, 5-31-60, Cl. 274-10.
- Slade, Winton L., to Raybestos-Manhattan, Inc. Method for the treatment of extruded polytetrafluoroethylene. 2,938,234, 5-31-60, Cl. 18-55.
- Sladek, Robert B., to Western Electric Co., Inc. Telephone systems. 2,935,570, 5-3-60, Cl. 179-18.
- Slager, James E., to Miles Laboratories, Inc. Preparation of diacetone 2-ketogulonic acid. 2,960,510, 11-15-60, Cl. 260-340.7.
- Slager, James E., and N. D. Dawson, to Miles Laboratories, Inc. Preparation of diacetone 2-ketogulonic acid. 2,960,452, 11-15-60, Cl. 204-78.
- Slagh, Harold R., and K. C. Kauer, to The Dow Chemical Co. Substituted benzenesulfonanilides. 2,937,202, 5-17-60, Cl. 260-556.
- Slaight, Harold J.: *See*—  
McCain, Cecil C., Slaight, and Wright. 2,942,392.
- Slamar, Frank: *See*—  
Schuerger, Thomas R., and Slamar. 2,965,265.
- Slamar, Frank, to Westinghouse Electric Corp. Dynamometer control. 2,929,243, 3-22-60, Cl. 73-116.
- Slanzwerk Peitz & Co.: *See*—  
Sichelschmidt, Gerhard. 2,927,630.
- Slate, Arthur H., Sr.: *See*—  
Koplin, Harry, and Slate. 2,934,899.
- Slate, Claude C.: *See*—  
Galba, Edward F., Slate, Hampton, and Slate. 2,953,176.
- Slate, Frank P.: *See*—  
Galba, Edward P., Slate, Hampton, and Slate. 2,953,176.
- Slater, Frank W.,  $\frac{1}{2}$  to R. E. Penney,  $\frac{1}{2}$  to W. B. Blankenship, and  $\frac{1}{2}$  to R. E. Blankenship. Ring-like device for playing the game of marbles. 2,943,858, 7-5-60, Cl. 273-118.
- Slater, George A., Motor vehicle carrier. 2,941,706, 6-21-60, Cl. 224-42.08.
- Slater, Howard W., and J. J. Franklin, to Proctor & Schwartz, Inc. Structural assemblies. 2,928,512, 3-15-60, Cl. 189-36.
- Slater, John M.: *See*—  
Horsfall, Robert B., Jr., Slater, and Widenmann. 2,949,030.
- Slater, John M., to North American Aviation, Inc. Control system. 2,945,643, 7-19-60, Cl. 244-14.
- Slater, John M., to North American Aviation, Inc. Sectional stable platform. 2,958,522, 11-1-60, Cl. 264-1.
- Slater, John M., R. M. Benson, and V. A. Tauscher, to North American Aviation, Inc. Gyroscopically stabilized navigational reference device. 2,933,267, 4-19-60, Cl. 244-14.
- Slater, Joseph C., and E. W. Platt, to Armco Steel Corp. Method and apparatus for improving metallic coatings. 2,950,215, 8-23-60, Cl. 117-114.
- Slater, N., Co., Ltd.: *See*—  
Pickard, Jack. 2,948,138.  
Pickard, Jack. 2,957,333.
- Slater, Robert E., Electrical delay switch. 2,935,588, 5-3-60, Cl. 200-122.
- Slater, Saul I., Electrical outlet device. 2,950,457, 8-23-60, Cl. 339-41.
- Slater, William: *See*—  
Watson, William H., and Slater. 2,939,184.
- Slater, William L.: *See*—  
Eastman, du Bois, Marlon, and Slater. 2,928,460.  
Eastman, du Bois, and Slater. 2,928,459.
- Slater, William L., Jr., to Texaco Inc. Reducing powder bulk. 2,927,658, 3-8-60, Cl. 183-1.
- Slater, William O., and A. J. Monack, to Mycalex Electronics Corp. Method of making electrode structures. 2,950,574, 8-30-60, Cl. 49-81.
- Slavin, Harvey L., Electrolytic production of refractory multivalent metals. 2,960,451, 11-15-60, Cl. 204-64.
- Slatin, Harvey L., to Timax Corp. Electrolysis of rare-earth elements and yttrium. 2,961,387, 11-22-60, Cl. 204-64.
- Slatkin, Alfred D., to Ford Motor Co. Dual spray painting. 2,922,584, 1-26-60, Cl. 239-245.
- Slaughter, Dean W.: *See*—  
Mathison, Richard P., Slaughter, and Randolph. 2,945,191.
- Slaughter, Richard E., to The Stearns & Foster Co. Shipping pouch. 2,929,425, 3-22-60, Cl. 150-1.
- Slaughter, Walter H., Jr., Clothes brush. 2,946,075, 7-26-60, Cl. 15-184.
- Slavens, Wayne E., and E. W. Adolphson, to Deere & Co. Crop harvester mounting. 2,958,993, 11-8-60, Cl. 56-15.
- Slavsky, John R.: *See*—  
Slavsky, Robert J., and J. R. 2,945,660.
- Slavsky, Robert J., to Shaw & Slavsky, Inc. Markers. 2,923,078, 2-2-60, Cl. 40-10.
- Slavsky, Robert J., to Shaw & Slavsky, Inc. Identification and claim tag system. 2,951,301, 9-6-60, Cl. 40-17.
- Slavsky, Robert J., and J. R., to Shaw & Slavsky, Inc. Display stand. 2,945,660, 7-19-60, Cl. 248-161.
- Slay, Willard: *See*—  
Hecox, William, Rauch, and Slay. 2,961,096.
- Slayter, Games, to Owens-Corning Fiberglas Corp. Manufacture of glass fibers. 2,947,027, 8-2-60, Cl. 18-8.



- Slayter, Games, to Owens-Corning Fiberglas Corp. Apparatus for manufacture of fibrous glass. 2,947,028, 8-2-60, Cl. 18-8.
- Slayter, Games, to Owens-Corning Fiberglas Corp. Process for molding massive bodies of glass having high strength. 2,951,316, 9-6-60, Cl. 49-77.
- Slayter, Games, to Owens-Corning Fiberglas Corp. Method of making a metal element. 2,961,758, 11-29-60, Cl. 29-419.
- Slayter, Games, C. B. Warden, and R. C. Mercer, to Owens-Corning Fiberglas Corp. Apparatus for producing curly glass fibers in mat form. 2,927,621, 3-8-60, Cl. 151-1.
- Slayton, Ransom D., to Teletype Corp. Synchronous electronic multiplex telegraph ciphering system. 2,924,658, 2-9-60, Cl. 178-22.
- Slazengers Ltd.: See—  
Bukalders, Edwards, Chadwick, Ogden, Gibson, and Greaves. 2,952,063.
- Sleddon, Geoffrey J.: See—  
Anderson, Robert C., and Sleddon. 2,949,481.
- Sleddon, Geoffrey J., to Imperial Chemical Industries Ltd. Production of organo-silanes. 2,961,453, 11-22-60, Cl. 260-448.2.
- Sledz, John J., to The Cleveland Twist Drill Co. Internal recessing tool and holder therefor. 2,932,196, 4-12-60, Cl. 77-67.
- Sleeper, George E., Jr. Triggering means for color television tube. 2,942,145, 6-21-60, Cl. 315-12.
- Sleeper, Harvey P., Jr., to General Dynamics Corp. Thermal column for a reactor. 2,940,916, 6-14-60, Cl. 204-193.2.
- Sleeter, Edward B., to Marathon Electric Mfg. Corp. Plug connector with switch for auxiliary starting circuit. 2,957,955, 10-25-60, Cl. 200-51.09.
- Sletcher, Charles A., Jr., to Shell Oil Co. Method and apparatus for repetitive mixing of fluids. 2,965,695, 12-20-60, Cl. 260-683.75.
- Slemmons, Arthur J., to Chrysler Corp. Turbine wheel assembly. 2,922,619, 1-26-60, Cl. 253-77.
- Slemmons, Arthur J., to Chrysler Corp. Heat exchanger. 2,945,680, 7-19-60, Cl. 257-245.
- Slemmons, Arthur J., to Chrysler Corp. Transmission shift control device. 2,953,940, 9-27-60, Cl. 74-645.
- Slemmons, Charles O.: See—  
Darling, James P., and Slemmons. 2,951,524.
- Slemmons, Charles O., and S. C. Sabo, to The General Tire & Rubber Co. Circular air spring with variable contour piston. 2,926,011, 2-23-60, Cl. 267-65.
- Slemmons, Charles O., and H. D. Forrest, to The General Tire & Rubber Co. Reactor dump valve. 2,953,345, 9-20-60, Cl. 251-144.
- Slemmons, Charles O., and S. C. Sabo, to The General Tire & Rubber Co. Method of and apparatus for molding and vulcanizing a fabric reinforced rubber air spring bellows. 2,962,757, 12-6-60, Cl. 18-17.
- Slepian, David, to Bell Telephone Laboratories, Inc. Error correcting system. 2,926,215, 2-23-60, Cl. 178-23.
- Slepian, Joseph. Isotope separator. 2,926,252, 2-23-60, Cl. 250-41.9.
- Sletten, Carlyle J. Method and means for antenna coupling. 2,963,703, 12-6-60, Cl. 343-793.
- Slettenmark, Ivar, B. Holmgren, and L. Winell, to Allmänna Svenska Elektriska Aktiebolaget. Arrangement in power transmission networks with directly grounded neutral. 2,933,627, 4-19-60, Cl. 307-147.
- Sletzing, Meyer, to Merck & Co., Inc. Oxido steroids. 2,929,815, 3-22-60, Cl. 260-239.55.
- Sletzing, Meyer, and W. A. Gaines, to Merck & Co., Inc. Dimethylated steroids and processes for producing same. 2,940,968, 6-14-60, Cl. 260-239.55.
- Sletzing, Meyer, and S. Karady, to Merck & Co., Inc. 16-lower alkyl steroids. 2,951,075, 8-30-60, Cl. 260-239.57.
- Sletzing, Meyer, W. V. Ruyle, and W. A. Gaines, to Merck & Co., Inc. 16 $\beta$ -alkyl pregnenes, intermediates therefor and processes for preparing same. 2,964,541, 12-13-60, Cl. 260-397.45.
- Slevin, Julian B., Co., Inc.: See—  
Ackley, Edward. 2,937,486.
- Slezak, Frank B.: See—  
Rosen, Irving, and Slezak. 2,943,016.
- Slezak, František, A. Gajdušek, and J. Hozík, to Svít, národní podnik. Device for automatically smoothing in the rear strip in manufacturing rubber boots or other shoes. 2,933,745, 4-26-60, Cl. 12-53.3.
- Slezak, Jean: See—  
Slezak, Robert W., Bjerke, and Caldwell. 2,946,461.
- Slezak, Robert W., deceased (by J. Slezak, administratrix), E. B. Bjerke, and R. B. Caldwell, to United States of America, Navy. Missile loading apparatus. 2,946,461, 7-26-60, Cl. 212-135.
- Slick, Fred S., to said Slick, and A. C. Johnson, and C. A. Lander. Interference-eliminating distributor cap vent means. 2,945,430, 7-19-60, Cl. 98-1.
- Slimak, Albert J.: See—  
Hanley, John A. 2,944,359.
- Slimowicz, Chester E.: See—  
Herrick, Clifford E., Jr., and Slimowicz. 2,940,852.
- Slinger, Frank H., to Imperial Chemical Industries Ltd. New nitro dyestuffs. 2,938,905, 5-31-60, Cl. 260-279.
- Slingerland, Henry H., Jr. Drum mounting. 2,919,618, 1-5-60, Cl. 84-421.
- Sinn, Walter H., to Trubenised (Great Britain) Ltd. Sewing machines. 2,939,414, 6-7-60, Cl. 112-204.
- Slip-Not Belting Corp.: See—  
Shivell, Homer J., and Dow. 2,936,794.
- Slisz, John J., F. Chodil, and L. C. Wallace, deceased (F. J. Wallace, executrix), to CMP Stampings, Inc. Telescoping tube shields. 2,961,477, 11-22-60, Cl. 174-35.
- Sliva, Stanley M.: See—  
Dunn, Earl F., Sliva, and Walling. 2,937,605.
- Walling, Francis L., and Sliva. 2,964,001.
- Sloan, Arthur W., and D. J. Mann, to Atlantic Research Corp. Cellulose nitrate product. 2,931,800, 4-5-60, Cl. 260-223.
- Sloan, Arthur W., and D. J. Mann, to Atlantic Research Corp. Cellulose nitrate. 2,931,801, 4-5-60, Cl. 260-223.
- Sloan, Arthur W., and L. L. Well, to Atlantic Research Corp. Cellulose ester propellant compositions. 2,966,405, 12-27-60, Cl. 52-7.
- Sloan, Clarence T., Jr.: See—  
Replk, Albert J., and Sloan. 2,933,454.
- Sloan, Earl L., A. P. Olbrich, J. L. Mustard, D. H. Gillum, and H. L. Wendel to Phillips Petroleum Co. Movement compensation means for piping system. 2,929,397, 3-22-60, Cl. 137-356.
- Sloan, Francis J., to Package Machinery Co. Forming containers. 2,944,295, 7-12-60, Cl. 18-56.
- Sloan, Francis J., to Package Machinery Co. Display and collapsible cartons. 2,949,218, 8-16-60, Cl. 229-28.
- Sloan, Harold A. Spinning reel mechanism. 2,931,592, 4-5-60, Cl. 242-84.21.
- Sloan, John R., to Miniature Precision Bearings, Inc. Gauge for determining radial play in antifriction bearings. 2,942,350, 6-28-60, Cl. 33-174.
- Sloan, Noah H. Combination bottle cap and dispenser. 2,921,707, 1-19-60, Cl. 215-37.
- Sloan, Rollin J., and L. D. Owen, to General Electric Co. Electric discharge device. 2,931,935, 4-5-60, Cl. 313-331.
- Sloan, Theodore H., 25% to W. B. Jaspert. Machines for honing parts of anti-friction bearings and the like. 2,938,308, 5-31-60, Cl. 51-135.
- Sloan Valve Co.: See—  
Kocour, Emil J. 2,959,980.
- Sloane, Murray, and J. V. Correale, Jr., to United States of America, Navy. Water-check air-exhaust valve. 2,960,108, 11-15-60, Cl. 137-496.
- Sloboda, Gustav, and C. Weissenstein. Arrangements for vise jaws. 2,948,172, 8-9-60, Cl. 81-38.
- Slobodzinski, Edwin J., to International Business Machines Corp. Transistor bistable circuit. 2,930,907, 3-29-60, Cl. 307-88.5.
- Slobodzinski, Edwin J., and H. S. Yourke, to International Business Machines Corp. Low voltage level transistor gates. 2,923,838, 2-2-60, Cl. 307-88.5.
- Slocumb, George M., to Consolidated Electrodynamics Corp. Digital-to-analog converter. 2,963,698, 12-6-60, Cl. 340-347.
- Slocumbe, Robert J., and G. L. Wesp, to Monsanto Chemical Co. Interpolymers. 2,965,618, 12-20-60, Cl. 260-78.5.
- Slocum, Charles W., to Stubnitz Greene Corp. Motor overload protection system. 2,930,959, 3-29-60, Cl. 318-221.
- Sloier, Harold E., to Shore-Calnear, Inc. Towel dispenser and keyed supply roll. 2,924,494, 2-9-60, Cl. 312-39.
- Slomer, Joseph J., to Goodman Mfg. Co. Tension control apparatus for belt storage loop of an extensible belt conveyor. 2,951,580, 9-6-60, Cl. 198-208.
- Slomer, Joseph J., to Goodman Mfg. Co. Tension control apparatus for belt storage loop of an extensible belt conveyor. 2,954,114, 9-27-60, Cl. 198-208.
- Slomer, Joseph J., to Goodman Mfg. Co. Dual control device for regulating the output of one power device with respect to another. 2,955,483, 10-11-60, Cl. 74-480.
- Slomin, George W., to Rohr Aircraft Corp. Titanium coating and method of forming same. 2,934,480, 4-26-60, Cl. 204-37.
- Slomski, Stanley L.: See—  
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- Slonczewski, John C., to International Business Machines Corp. Magnetic core. 2,934,747, 4-26-60, Cl. 340-174.
- Slone, Howard I., and H. H. Wendela, to General Motors Corp. Control means for outside mirrors and the like. 2,938,697, 5-31-60, Cl. 248-288.
- Slonim, Samuel, to Comet Metal Products Co., Inc. Lawn and crop sprinkler. 2,949,241, 8-16-60, Cl. 239-383.
- Slonneger, John L., to General Electric Co. Diaphragm assembly. 2,920,486, 1-12-60, Cl. 73-378.3.
- Slopa, George W.: See—  
Slopa, Robert E., and G. W. 2,927,788.
- Slopa, Robert E., and G. W. 2,958,090.
- Slopa, Robert E., and G. W. Sliding door operator. 2,927,788, 3-8-60, Cl. 268-53.
- Slopa, Robert E., and G. W. Self-closing door hinge. 2,958,090, 11-1-60, Cl. 16-154.
- Slot, Willem: See—  
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- Slota, Peter J., Jr.: See—  
Burg, Anton B., and Slota. 2,941,001.
- Slota, William P., to Benson Manufacturing Co. Sectional containers and the like. 2,947,440, 8-2-60, Cl. 220-22.
- Slotta, Max A., and E. Lavicka, Sr. Golf tee setting devices. 2,950,110, 8-23-60, Cl. 273-33.



- Slotterbeck, Ober C.: *See*—  
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- Smith, Alonzo L. Air-conduction hearing aid clamps. 2,946,394, 7-26-60, Cl. 181-23.
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- Smith, Andrew N., D. E. Petersen, and R. R. Oliver, to General Electric Co. Adjustable gas turbine nozzle assembly. 2,919,890, 1-5-60, Cl. 253-78.
- Smith, A. O., Corp.: *See*—  
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- Smith, Apollo M. O., and J. G. Brazier, to United States of America. Navy. Bomb bay buffet control. 2,954,949, 10-4-60, Cl. 244-137.
- Smith, Archie R., and R. T. Adolphson, to Shampaine Co. Side rails for hospital beds. 2,929,078, 3-22-60, Cl. 5-331.
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- Smith, Arthur J., to Imperial Chemical Industries Ltd. Manufacture of titanium. 2,923,616, 2-2-60, Cl. 75-84.5.
- Smith, Arthur L. Photographic recording devices. 2,922,346, 1-26-60, Cl. 95-1.1.
- Smith, Arthur L., and W. R. Conn, to Rohm & Haas Co. Method of making bonded fibrous products. 2,961,364, 11-22-60, Cl. 154-128.
- Smith, Arthur M., to General Electric Co. Dynamometer trunnion bearing. 2,932,542, 4-12-60, Cl. 308-9.
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- McKinley, John K., Smith and Dickens. 2,953,518.
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- Smith, Brook I., F. T. Barr, and C. E. Jahnhg, to Esso Research and Engineering Co. Integrated coking and calcining process. 2,964,464, 12-13-60, Cl. 208-127.
- Smith, Bruce K., to Sperry Rand Corp. Indicating device for magnetic amplifiers. 2,951,238, 8-30-60, Cl. 340-174.
- Smith, C. M. Tobacco looper. 2,952,371, 9-13-60, Cl. 214-5.5.
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- Francis, Gerald A., Davis, and Smith. 2,944,333.
- Smith, Charles E., to Texas Industries, Inc. Apparatus for splitting blocks. 2,925,080, 2-16-60, Cl. 125-23.
- Smith, Charles E. Wave motor for propulsion of ships. 2,937,612, 5-24-60, Cl. 115-4.
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- Robinson, Herbert L., Smith, and Zimet. 2,936,429.
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- Smith, Charles J., C. E. Read, and I. N. Schatzka, to Monroe Auto Equipment Co. Hydraulic power steering device. 2,935,150, 5-3-60, Cl. 180-79.2.
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- Smith, Charles W., Jr., to The Babcock & Wilcox Co. Vapor generator. 2,942,587, 6-28-60, Cl. 122-478.
- Smith, Charles W., Jr., F. X. Mead, and E. H. Dunbar, Jr., to Chas. Pfizer & Co., Inc. Device for opening eggs. 2,944,575, 7-12-60, Cl. 146-2.
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- Smith, Clarence J., to W. F. and John Barnes Co. Apparatus for bending wire articles. 2,963,048, 12-6-60, Cl. 140-71.
- Smith, Clarence J., and P. Bogner; said Smith assor. to W. F. and John Barnes Co. Method and apparatus for making can bodies. 2,925,059, 2-16-60, Cl. 113-120.
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- Smith, Clarence M., to The Bryant Electric Co. Wiring device. 2,961,631, 11-22-60, Cl. 339-128.
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- Smith, Clayton E., to H. O. Moist. Poultry feeder. 2,954,112, 9-27-60, Cl. 198-54.
- Smith, Clifford D., Jr., to International Business Machines Corp. Device for assembling magnetic core array. 2,961-745, 11-29-60, Cl. 29-155.5.
- Smith, Clifford E., to Phillips Petroleum Co. Cuprous salt-hydroxyalkylamine solutions. 2,943,060, 6-28-60, Cl. 252-182.
- Smith, Clifford E., and J. V. Tuschhoff, to A. E. Staley Mfg. Co. Acylation of hydroxy compounds with vinyl esters. 2,928,828, 3-15-60, Cl. 260-234.
- Smith, Cloyd D., to General Sound Control, Inc. Sound absorbing structure. 2,959,243, 11-8-60, Cl. 181-59.
- Smith, Cloyd D., and R. L. Mathews, to General Sound Control, Inc. Means and techniques for silencing sound energy. 2,940,537, 6-14-60, Cl. 181-54.
- Smith-Corona Marchant Inc.: *See*—  
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- Smith, Curtis W., and C. A. May, to Shell Oil Co. Polyester resin compositions of long chain diethylenically unsaturated acids. 2,957,837, 10-25-60, Cl. 260-22.
- Smith, Daniel A., and C. J. Weir, Jr., to Union Oil Co. of California. Continuous proportional pipeline sampler. 2,927,465, 3-8-60, Cl. 73-422.
- Smith, Daniel J., to Thiokol Chemical Corp. Curing polysulfide polymer with chromates and hydrous salts. 2,940,958, 6-14-60, Cl. 260-79.1.
- Smith, Daniel L., to D. L. Smith, trustee. Toilet unit. 2,946,065, 7-26-60, Cl. 4-115.
- Smith, Daniel W., to Halverson Products Mfg. Co. Collecting mechanism for collating machine. 2,920,888, 1-12-60, Cl. 270-58.
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- Smith, Donald A. Automatic trailer brake. 2,921,652, 1-19-60, Cl. 188-112.
- Smith, Donald A., to Eastman Kodak Co. N-cyanoacetyl-N'-acrylyl and methacrylyl hydrazines, and polymers thereof. 2,940,956, 6-14-60, Cl. 260-78.
- Smith, Donald J., to Clinton Engines Corp. Chain saw. 2,924,254, 2-9-60, Cl. 143-135.
- Smith, Donald L., to International Business Machines Corp. Electrical circuit connector apparatus. 2,956,141, 10-11-60, Cl. 200-166.
- Smith, Donald L., to Air Reduction Co., Inc. Separation of air. 2,964,913, 12-20-60, Cl. 62-9.
- Smith, Donald R., deceased, by A. E. Smith, and W. E. R. Short, administrators, to I.T.D. Ltd. Weighing machines. 2,958,523, 1-1-60, Cl. 265-27.
- Smith, Donald R., and D. B. H. Coates, to Western Follower Corp. Cartridge magazine follower for automatic pistols. 2,944,357, 7-12-60, Cl. 42-50.
- Smith, Donald W.: *See*—  
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- Smith, Douglas A., and J. A. Shurt, to Samuel Taylor & Sons (Brierley Hill) Ltd. Manufacture of link parts for welded link chains. 2,939,272, 6-7-60, Cl. 59-35.
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- Smith, E. Quimby: *See*—  
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- Smith, E. Quimby, Jr., and L. E. Matthews, to United States of America, Navy. Steering mechanism for jet propelled craft. 2,919,544, 1-5-60, Cl. 60-35.54.
- Smith, Earl D., to General Motors Corp. Induction generator system. 2,922,895, 1-26-60, Cl. 290-40.
- Smith, Earl D. Chair structure. 2,955,647, 10-11-60, Cl. 155-191.
- Smith, Earl L.: *See*—  
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- Smith, Edgar D.: *See*—  
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- Smith, Edmund D. Simplified reflector oven. 2,921,577, 1-19-60, Cl. 126-274.
- Smith, Edward A., to Raymond International Inc. Plastic pile shells. 2,924,949, 2-16-60, Cl. 61-78.
- Smith, Edward A., to Raymond International Inc. Hydraulic jacking assembly for marine platforms. 2,944,403, 7-12-60, Cl. 61-46.5.
- Smith, Edward A., to Raymond International Inc. Combustible fuel operated pile driving hammers and the like. 2,948,122, 8-9-60, Cl. 61-76.
- Smith, Edward A., to Raymond International Inc. Pile driving hammers. 2,963,100, 12-6-60, Cl. 175-146.
- Smith, Edward M., to Gorman-Rupp Industries, Inc. Enclosed rotor construction for motor pump unit. 2,931,307, 4-5-60, Cl. 103-87.
- Smith, Edward W. Apparatus for vibrating sheet material. 2,939,223, 6-7-60, Cl. 34-58.
- Smith, Edwin J., to National Steel Corp. Electroplating roll. 2,921,893, 1-19-60, Cl. 204-206.
- Smith, Edwin J. and J. R., to National Steel Corp. Electrolytic treatment of black plate and product. 2,920,019, 1-5-60, Cl. 204-56.
- Smith, Edwin K., Jr.: *See*—  
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- Smith, Edwin R.: *See*—  
Rainey, Bernard J., and Smith. 2,961,104.
- Smith, Edwin R.: *See*—  
Rainey, Bernard J., and Smith. 2,927,703.
- Smith, Edwin W., to Atlas Press Co. Mechanical device. 2,934,973, 5-3-60, Cl. 74-600.
- Smith, Edwin W., to Turner Corp. Double tube oscillating lawn sprinkler. 2,943,796, 7-5-60, Cl. 239-242.
- Smith, Elmer H.: *See*—  
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- Smith, Elmore S., to Moffats Ltd. Electrical heater units. 2,938,989, 5-31-60, Cl. 219-37.
- Smith, Eric, to Monsanto Chemicals Ltd. Slip-casting process. 2,942,991, 6-28-60, Cl. 106-44.
- Smith, Eric S. Grinder. 2,963,232, 12-6-60, Cl. 241-259.
- Smith, Eric W. A., and F. A. Rowley, to General Motors Corp. Dielectric heating apparatus. 2,949,523, 8-16-60, Cl. 219-10.77.
- Smith, Ernest F., to United States of America, Army. Electric signal device. 2,936,450, 5-10-60, Cl. 340-388.
- Smith, Eston H., to Rex Metal-Craft, Inc. Demountable floating structure. 2,962,996, 12-6-60, Cl. 114-5.
- Smith, Ethel M.: *See*—  
Smith, Henry R. 2,928,221.
- Smith, Eugene. Combination trailer for boat and launching apparatus. 2,961,107, 11-22-60, Cl. 214-500.
- Smith, Eugene L. Automatically closed fire proof louvers. 2,954,728, 10-4-60, Cl. 98-110.
- Smith Fence Co., Inc.: *See*—  
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- Ingalls, John J., and Hewson. 2,940,790.
- Smith, Floyd E. Support for a vibratory parts feeder. 2,960,214, 11-15-60, Cl. 198-220.
- Smith, Floyd E. Orienting device for articles of manufacture. 2,961,080, 11-22-60, Cl. 193-43.
- Smith, Forrest E. Hammer for rotary impact pulverizers. 2,950,066, 8-23-60, Cl. 241-197.
- Smith, Forrest E., to The Frog Switch & Mfg. Co. Crusher construction. 2,950,871, 8-30-60, Cl. 241-217.
- Smith, Frances D.: *See*—  
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- Smith, Francis L., to Republic Aviation Corp. Stores ejection means. 2,951,664, 9-6-60, Cl. 244-135.
- Smith, Francis P., Jr. Convertible cane-crutch. 2,960,095, 11-15-60, Cl. 135-49.
- Smith, Frank A., and M. H. Zoldan. Golf practice mat. 2,941,808, 6-21-60, Cl. 273-187.
- Smith, Frank E. Reel assembly for kite-lines and the like. 2,923,490, 2-2-60, Cl. 242-96.
- Smith, Frank P., to International Telephone and Telegraph Corp. Geiger counter. 2,960,609, 11-15-60, Cl. 250-83.6.
- Smith, Frank R.: *See*—  
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- Smith, Franklin S., deceased, to M. R. Smith. Centrifugal impact milling machine. 2,928,616, 3-15-60, Cl. 241-275.
- Smith, Frederick A., and T. H. Welch, to Union Carbide Corp. Silicone-coated fibrous products and process thereof. 2,940,875, 6-14-60, Cl. 117-161.
- Smith, Frederick B., to United States of America, Navy. Bistable cathode coupled switching gate generator. 2,924,710, 2-9-60, Cl. 250-27.
- Smith, Frederick E., to Thompson Ramo Wooldridge Inc. Pressure regulator. 2,963,977, 12-13-60, Cl. 103-97.
- Smith, Frederick H. Collet Pads. Re. 24,903, 12-6-60, Cl. 279-58.
- Smith, Frederick L.: *See*—  
Davis, David A., Smith, and Snodgrass. 2,944,657.
- Smith, Frederick L., to Rely-A-Bell Burglar & Fire Alarm Co. Ltd. Apparatus for successively treating a series of articles. 2,927,521, 3-8-60, Cl. 95-93.
- Smith, Frederick W., to North American Phillips Co., Inc. Mode ellipticity correcting device. 2,948,865, 8-9-60, Cl. 333-21.
- Smith, Gene W.: *See*—  
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- Smith, George A., to Central Transformer Corp. Magnetic three-phase core. 2,936,433, 5-10-60, Cl. 336-215.
- Smith, George A., to Central Transformer Corp. Method of making three-phase transformer cores. 2,954,601, 10-4-60, Cl. 29-155.57.
- Smith, George A., to Central Transformer Corp. Method of making three-phase cores for transformers. 2,964,836, 12-20-60, Cl. 29-155.57.
- Smith, George H., to Electro Process, Inc. Electrolytic polishing of metals. 2,928,777, 3-15-60, Cl. 204-140.5.
- Smith, George H., to Union Carbide Corp. Two-stage burner apparatus. 2,934,410, 4-26-60, Cl. 23-277.
- Smith, George H., and R. Kaffenberger. Jet flame spraying method and apparatus. 2,920,001, 1-5-60, Cl. 117-21.
- Smith, George H., and W. J. Mitchell, to Union Carbide Corp. Charging blast holes with explosive. 2,930,276, 3-29-60, Cl. 86-20.
- Smith, George L. Readily assembled check valve. 2,943,639, 7-5-60, Cl. 137-515.7.
- Smith, George M.: *See*—  
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- Smith, George T. Magnetic trap for engine cooling system. 2,964,190, 12-13-60, Cl. 210-222.
- Smith, George W., to Farrel-Birmingham Co., Inc. Venting means for rubber mixers and the like. 2,923,967, 2-9-60, Cl. 18-2.
- Smith, Gerald B. and J. A. Fish lure. 2,959,883, 11-15-60, Cl. 43-42.5.
- Smith, Glen. Fuel dispensing nozzle, spout and screen assembly. 2,936,099, 5-10-60, Cl. 222-189.
- Smith, Gordon N.: *See*—  
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- Smith, Gordon R., 1/2 to E. R. Lowe. Device for multiple machining of work pieces. 2,953,069, 9-20-60, Cl. 90-11.44.
- Smith, Graydon, to Graydon Smith Products Corp. Position measuring device. 2,943,285, 6-28-60, Cl. 336-75.
- Smith, Graydon, to Cle vite Corp. Position measuring apparatus. 2,959,753, 11-8-60, Cl. 336-75.
- Smith, Graydon, to Cranston Print Works Co. Print machine axial register mechanism. 2,962,962, 12-6-60, Cl. 101-178.



- Smith, Graydon, and J. E. Bailey, to Graydon Smith Products Corp. Measuring system with temperature compensation. 2,922,146, 1-19-60, Cl. 340-199.
- Smith, Graydon, Products Corp.: See—  
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- Smith, H. B. Co., Inc., The: See—  
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- Smith, H. C., Oil Tool Co.: See—  
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- Smith, Harold, and R. J. Barber, to Dunlop Tire and Rubber Corp. Molding apparatus for pneumatic tires. 2,961,702, 11-29-60, Cl. 18-17.
- Smith, Harold S., to Combustion Engineering, Inc. Centrifugal pump seal. 2,929,646, 3-22-60, Cl. 286-9.
- Smith, Harold V., J. Dwyer, and J. A. Winker, to United States of America, Air Force. Balloon load launching device. 2,941,750, 6-21-60, Cl. 244-32.
- Smith, Harold W., and R. E. Barnes, to American Liquid Gas Corp. Carburetor. 2,965,462, 12-20-60, Cl. 48-180.
- Smith, Harris W.: See—  
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- Smith, Harry B., and W. Ewanus, to United States of America, Air Force. Automatic tracking system. 2,920,319, 1-5-60, Cl. 343-7.3.
- Smith, Harry C., Jr., to Wilbur B. Driver Co. Alloys. 2,960,402, 11-15-60, Cl. 75-170.
- Smith, Harry D., and R. C. Sauer, to Sperry Rand Corp. Speed control system for helicopters. 2,961,052, 11-22-60, Cl. 170-135.74.
- Smith, Harry J. Quick change troller. 2,953,112, 9-20-60, Cl. 115-18.
- Smith, Harry J., and C. F. Dietrich, to Optical Measuring Tools Ltd. Optical comparators and the like. 2,930,283, 3-29-60, Cl. 88-24.
- Smith, Henry R., to H. R. and E. M. Smith. Packaging machine. 2,928,221, 3-15-60, Cl. 53-182.
- Smith, Henry S., and G. W. Wesson, to General Motors Corp. Means for automatically maintaining steering gear over-center adjustment. 2,936,643, 5-17-60, Cl. 74-409.
- Smith, Henry T.: See—  
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- Smith, Herbert G., to American Air Filter Co., Inc. Damper operated switches for automatic heat control of gas fired unit ventilator. 2,935,261, 5-3-60, Cl. 236-1.
- Smith, Herman W.: See—  
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- Smith, Hiram P., and O. E. Johnson, to International Harvester Co. Self-coupling hitch with overload release. 2,947,369, 8-2-60, Cl. 172-269.
- Smith, Homer H. Safety platform. 2,963,108, 12-6-60, Cl. 182-3.
- Smith, Horace L., Jr., to Horace L. Smith, Jr., Inc. Automatic weighing apparatus. 2,943,836, 7-5-60, Cl. 249-9.
- Smith, Horace L., Jr., Inc.: See—  
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- Smith, Horace P. Ball joint bearing thrust assembly for rotary tool holding device. 2,935,364, 5-3-60, Cl. 308-189.
- Smith, Horace V., to Oil Metering and Processing Equipment Corp. Overlapping valve assembly. 2,966,172, 12-27-60, Cl. 137-627.5.
- Smith, Horace V., and G. A. Repal, to Oil Metering and Processing Equipment Corp. Liquid metering separator. 2,938,380, 5-31-60, Cl. 73-200.
- Smith, Horace V., and G. A. Repal, to Oil Metering and Processing Equipment Corp. Liquid metering apparatus. 2,938,381, 5-31-60, Cl. 73-221.
- Smith, Howard B. Stenographic machines. 2,919,780, 1-5-60, Cl. 197-9.
- Smith, Howard B. Stenographic machine. 2,922,507, 1-26-60, Cl. 197-9.
- Smith, Howard B. Stenographic machine. 2,939,564, 6-7-60, Cl. 197-9.
- Smith, Howard B. Stenographic machine keyboards. 2,948,380, 8-9-60, Cl. 197-98.
- Smith, Howard C., to Sun Oil Co. Scaffolding suspending device. 2,930,565, 3-29-60, Cl. 248-228.
- Smith, Howard, Paper Mills Ltd.: See—  
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- Smith, Howard W., to Boeing Airplane Co. Lift modifying protuberance and airfoil combinations. 2,950,879, 8-30-60, Cl. 244-41.
- Smith, Hugh D. Portable chute. 2,935,965, 5-10-60, Cl. 119-82.
- Smith, Hugh D. Portable chute. 2,935,966, 5-10-60, Cl. 119-99.
- Smith, Hugh R., Jr.: See—  
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- Smith, Hugh R., Jr., to Stauffer Chemical Co. High vacuum metallurgical apparatus and method. 2,935,395, 5-3-60, Cl. 75-10.
- Smith, Hugh R., Jr., to Stauffer Chemical Co. Method for heating materials by electron bombardment in a vacuum. 2,942,098, 6-21-60, Cl. 219-121.
- Smith, Ian A., and H. G. Muenchinger, to American Screw Co. Socketed screw head with uniformly offset grooves. Re. 24,878, 9-27-60, Cl. 85-45.
- Smith, Ian A., and H. G. Muenchinger, to American Screw Co. Screw driver with offset wings. Re. 24,888, 10-18-60, Cl. 145-50.
- Smith, Ira D.: See—  
Nye, Benjamin E., and Smith. 2,943,826.
- Smith, Ira D., to Cleveland Pneumatic Industries, Inc. Steering mechanism. 2,943,498, 7-5-60, Cl. 74-106.
- Smith, Ira E.: See—  
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- Smith, J. C. Lifting and towing cradles. 2,933,211, 4-19-60, Cl. 214-86.
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- Smith, James Campbell, Inc.: See—  
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- Smith, James E.: See—  
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- Smith, James E. Hydraulic drill bit. 2,963,102, 12-6-60, Cl. 255-61.
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- Smith, James L., to Continental Can Co., Inc. Egg gripping holder. 2,932,378, 4-12-60, Cl. 198-131.
- Smith, James L., and R. C. Warrington, Jr., to Eastman Kodak Co. Process of sulfation with new sulfating agent. 2,957,014, 10-18-60, Cl. 260-400.
- Smith, James T., to J. R. Sheesley. Journal box mounting. 2,946,630, 7-26-60, Cl. 308-79.
- Smith, James V., to Phillips Petroleum Co. Apparatus for carrying out high speed stirred reactions. 2,955,924, 10-11-60, Cl. 23-285.
- Smith, Jesse C.: See—  
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- Smith, John D.: See—  
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- Smith, John E. Pneumatic gun control. 2,919,628, 1-5-60, Cl. 89-1.
- Smith, John E., R. S. Fleming, A. G. De Claire, Jr., and G. B. Stroh, to Holley Carburetor Co. Hydraulic resistor. 2,953,167, 9-20-60, Cl. 138-40.
- Smith, John F., to Compo Shoe Machinery Corp. Sole press. 2,924,836, 2-16-60, Cl. 12-36.8.
- Smith, John F., to E. I. du Pont de Nemours and Co. Process for curing fluoroelastomers. 2,955,104, 10-4-60, Cl. 260-87.7.
- Smith, John G., to Burroughs Corp. Document handling apparatus. 2,944,813, 7-12-60, Cl. 271-71.
- Smith, John G., to Burroughs Corp. Sheet feeder. 2,953,371, 9-20-60, Cl. 271-26.
- Smith, John H.: See—  
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- Smith, John H., to General Motors Corp. Engine starting and protective shutdown system. 2,960,082, 11-15-60, Cl. 123-179.
- Smith, John H., to Willard Smith. Boat raiser. 2,963,176, 12-6-60, Cl. 214-1.
- Smith, John J.: See—  
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- Smith, John J. Aircraft anchor. 2,958,404, 11-1-60, Cl. 189-92.
- Smith, John J., and E. T. Middleswarth, to Pittsburgh Plate Glass Co. Glass compositions. 2,937,952, 5-24-60, Cl. 106-52.
- Smith, John K., and M. W. Wilson. Wrapping and packaging machine. 2,919,527, 1-5-60, Cl. 53-66.
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- Smith, John O., Jr., and J. F. Kunc, Jr., to Esso Research and Engineering Co. Fuels containing wear-reducing and rust preventing additives. 2,930,680, 3-29-60, Cl. 44-63.
- Smith, John O., Jr., and J. V. Clarke, Jr., to Esso Research and Engineering Co. Lubricating oil composition containing fluorinated dithiophosphates. 2,959,544, 11-8-60, Cl. 252-32.7.
- Smith, John P., Jr., to The Daven Co. Attenuator network and switch. 2,938,156, 5-24-60, Cl. 323-74.
- Smith, John R.: See—  
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- Smith, John W.: *See*—  
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- Smith, John W., to Collins Radio Co. Variable frequency synthesizer. 2,934,716, 4-26-60, Cl. 331-39.
- Smith, John W., to Aladdin Mfg. Co. Hand warmer. 2,942,601, 6-28-60, Cl. 126-208.
- Smith, John W., to The Mead Corp. Cast coated paper and method of making the same. 2,950,214, 8-23-60, Cl. 117-64.
- Smith, John W., to Collins Radio Co. Remote control system. 2,958,028, 10-25-60, Cl. 318-467.
- Smith, John W., and P. G. Wulfsberg, to Collins Radio Co. Remote control system. 2,926,346, 2-23-60, Cl. 340-347.
- Smith, John W., and A. B. Zeissler, to General Electric Co. Reinforcement for random wound end turns. 2,959,699, 11-8-60, Cl. 310-260.
- Smith, John W. F., to The English Electric Co. Ltd. Electrical protective relay systems. 2,924,753, 2-9-60, Cl. 317-36.
- Smith, Joseph D., and F. Hart. Power driven manually guided lawn mower. 2,931,157, 4-5-60, Cl. 56-25.4.
- Smith, Joseph E. Latch for container covers. 2,945,718, 7-19-60, Cl. 292-127.
- Smith, Joseph J.: *See*—  
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- Smith, Joseph W., and G. E. King, to Westinghouse Electric Corp. "Small press" control using static devices. 2,924,318, 2-9-60, Cl. 192-142.
- Smith, Joseph W., and G. E. King, to Westinghouse Electric Corp. Control apparatus for a pump device. 2,945,445, 7-19-60, Cl. 103-11.
- Smith, Justin H., and T. Vreeland, Jr. Holders for fish lures. 2,956,365, 10-18-60, Cl. 43-54.5.
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- Smith, Kenneth C.: *See*—  
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- Smith, Kenneth D., to Bell Telephone Laboratories, Inc. Toroidal lens device. 2,949,819, 8-23-60, Cl. 88-57.
- Smith, Kenneth F., and C. E. Trame, to Neon Products, Inc. Animated display. 2,956,359, 10-18-60, Cl. 40-132.
- Smith, Kenneth W. Combined rocket and ram-jet engine. 2,948,112, 8-9-60, Cl. 60-35.6.
- Smith, Kline & French Laboratories: *See*—  
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- Smith, L. B., Aircraft Corp.: *See*—  
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- Smith, Lafayette B., to The Electric Materials Co. Press and feed mechanism for making anode balls. 2,939,349, 6-7-60, Cl. 78-39.
- Smith, Laird. Boat trailer. 2,925,927, 2-23-60, Cl. 214-84.
- Smith, Larro A., and E. A. Sparrow. Multiple support bracket. 2,921,690, 1-19-60, Cl. 211-73.
- Smith, Lawrence D., to C. Hartwell, d.b.a. Hartwell Aviation Supply Co. Flush extension latch. 2,921,810, 1-19-60, Cl. 292-113.
- Smith, Lawrence D., and F. L. Sawyer, to C. Hartwell, d.b.a. Hartwell Aviation Supply Co. Pivotal bolt latch. 2,927,812, 3-8-60, Cl. 292-196.
- Smith, Lawrence H.: *See*—  
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- Smith, Lee B., and C. Woolf, to Allied Chemical Corp. Manufacture of halopropane. 2,942,036, 6-21-60, Cl. 260-653.
- Smith, Leland L.: *See*—  
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- Smith, Leland L., and M. Marx, to American Cyanamid Co. 16a,17a substituted methylene dioxy ethers of steroids of the pregnane series and method of preparing the same. 2,966,486, 12-27-60, Cl. 260-239.55.
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- Smith, Leonard G. Clean out and suction gate. 2,942,839, 6-28-60, Cl. 251-144.
- Smith, Leslie R.: *See*—  
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- Smith, Lester E.: *See*—  
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- Smith, Lewis R.: *See*—  
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- Smith, Lewis T. Float valve. 2,940,467, 6-14-60, Cl. 137-432.
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- Smith, Lloyd B. Actuating means for a reciprocable member. 2,942,489, 6-28-60, Cl. 74-336.5.
- Smith, Lloyd B. Sprinkler. 2,942,789, 6-28-60, Cl. 239-239.
- Smith, Lloyd L. Head levelling and holding device. 2,932,303, 4-12-60, Cl. 132-45.
- Smith, Lloyd P.: *See*—  
Luce, John S., and Smith. 2,961,558.
- Smith, Lon T.: *See*—  
Canterino, Peter J., and Smith. 2,927,100.
- Smith, Loren C., to Wyandotte Chemicals Corp. Tensile testing apparatus. 2,942,455, 6-28-60, Cl. 73-15.6.
- Smith, Loren C., and H. R. Tyler, to Wyandotte Chemicals Corp. Tensile testing apparatus. 2,959,957, 11-15-60, Cl. 73-95.
- Smith, Louise R.: *See*—  
Moeller, William C., and Smith. 2,955,982.
- Smith, Lowell L.: *See*—  
Krone, Ber W., and Smith. 2,939,518.
- Smith, Lucius N. Cattle feeder. 2,936,735, 5-17-60, Cl. 119-52.
- Smith, Ludwig A.: *See*—  
Moeller, William C., and Smith. 2,955,982.
- Smith, Ludwig A., Jr.: *See*—  
Moeller, William C., and Smith. 2,955,982.
- Smith, Lundy E.: *See*—  
Douglass, Ernest O., and Smith. 2,955,802.
- Smith, Lyndall K., to Instruments, Inc. Actuating linkage for a switch. 2,945,102, 7-12-60, Cl. 200-84.
- Smith Mfg. Co. Ltd.: *See*—  
Stephens, Frederick J., Smith, and Crane. 2,957,780.
- Smith, Margaret L.: *See*—  
Moeller, William C., and Smith. 2,955,982.
- Smith, Marshall F. Infant bathtub. 2,957,184, 10-25-60, Cl. 4-185.
- Smith, Martin R., to The M. W. Kellogg Co. Conversion process and apparatus therefor. 2,929,774, 3-22-60, Cl. 208-113.
- Smith, Martin R., and C. Bednars, to The M. W. Kellogg Co. Hydrocarbon conversion system. 2,929,773, 3-22-60, Cl. 208-101.
- Smith, Max M., to Crown Zellerbach Corp. All paperboard shipping containers for water heaters. 2,932,438, 4-12-60, Cl. 229-14.
- Smith-Meeker Engineering Co.: *See*—  
Lindley, Frederick A., Jr. 2,939,084.
- Smith, Melvin I., to Socony Mobil Oil Co., Inc. Removal of acidic substances from used lubricating oil employing fatty acid salts of barium, calcium and strontium. 2,942,046, 6-28-60, Cl. 208-180.
- Smith, Melvin W.: *See*—  
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- Smith, Merlin L. Cap and container. 2,935,219, 5-3-60, Cl. 215-52.
- Smith, Merrill M., and T. M. Knowland, to American Biltrite Rubber Co., Inc. Process of making resinous granules. 2,959,362, 11-8-60, Cl. 241-3.
- Smith, Merrill M., and T. M. Knowland, to American Biltrite Rubber Co., Inc. Rotary molding machines. 2,965,923, 12-27-60, Cl. 18-6.
- Smith, Merton L., to American Optical Co. Television receivers. 2,948,891, 8-9-60, Cl. 340-369.
- Smith, Michael J. Jigs, jig stock and process of making same. 2,963,781, 12-13-60, Cl. 29-183.
- Smith, Millard, F. Apparatus for heat transfer. 2,949,283, 8-16-60, Cl. 257-137.



- Smith, Minot F.: *See*—  
 Meserve, Forrest C., and Smith, 2,924,267.
- Smith, Monda R.: *See*—  
 Smith, Franklin S. 2,928,616.
- Smith, Morris C., and W. R. Barlow, to Sylvania Electric Products Inc. Article inserting apparatus. 2,964,891, 12-20-60, Cl. 53-142.
- Smith-Morris Corp.: *See*—  
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- Smith, Neal J., to California Research Corp. Cancellation of seismic surface noise. 2,927,300, 3-1-60, Cl. 340-15.
- Smith, Norman N. P., and J. H. Howe, to Marconi's Wireless Telegraph Co. Ltd. Automatic frequency controlling systems. 2,932,793, 4-12-60, Cl. 328-134.
- Smith, Norman R. Meat scraper. 2,953,178, 9-20-60, Cl. 146-88.
- Smith, Oliver D. Vehicle washing equipment. 2,941,221, 6-21-60, Cl. 15-21.
- Smith, Orville R.: *See*—  
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- Smith, Orville R., to Welx, Inc. Electrical resistivity determination of well bore fluids. 2,922,103, 1-19-60, Cl. 324-2.
- Smith, Paul E., Jr., to Conval Corp. Electrical valve positioner. 2,948,295, 8-9-60, Cl. 137-487.5.
- Smith, Paul E., Jr., and H. A. Dudley, to Conval Corp. Motor control for positioning device. 2,948,839, 8-9-60, Cl. 318-29.
- Smith, Paul F., to Parker-Hannifin Corp. Fluid seal for electrical connection joints. 2,953,857, 10-11-60, Cl. 288-23.
- Smith, Paul V., Jr.: *See*—  
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- Smith, Perrin F., to International Business Machines Corp. Data processing system with synchronous and asynchronous storage devices. 2,958,851, 11-1-60, Cl. 340-172.5.
- Smith, Perrin F., to International Business Machines Corp. Electrically variable sweep circuit. 2,959,739, 11-8-60, Cl. 328-185.
- Smith, Peter: *See*—  
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- Reed, Hugh W. B., and Smith. 2,959,579.
- Smith, Philip N., and A. D. Harmon, to Deering Milliken Research Corp. Apparatus for producing yarn. 2,953,893, 9-27-60, Cl. 57-36.
- Smith, Philip W. Fire detection and alarm systems. 2,956,537, 10-18-60, Cl. 116-103.
- Smith, R. E.: *See*—  
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- Smith, Ralph B., to American Air Filter Co., Inc. Damper operated gas valve for unit ventilator. 2,935,262, 5-3-60, Cl. 236-11.
- Smith, Ralph E., and L. H. Workman, to Gardner-Denver Co. Air hoist. 2,924,430, 2-9-60, Cl. 254-168.
- Smith, Ralph E., Jr.: *See*—  
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- Smith, Ramsey. Selective hydrofracturing apparatus. 2,943,684, 7-5-60, Cl. 166-187.
- Smith, Randall E. Geared pliers. 2,945,237, 7-19-60, Cl. 1-220.
- Smith, Randlow, to Texaco Inc. Alkylation process. 2,935,543, 5-3-60, Cl. 260-683.49.
- Smith, Randlow, to Texaco Inc. Alkylation process. 2,938,061, 5-24-60, Cl. 260-683.62.
- Smith, Randolph E.: *See*—  
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- Smith, Reading B., to Sinclair Refining Co. Process for the reforming of a naphtha in several stages. 2,965,560, 12-20-60, Cl. 208-65.
- Smith, Reggie: *See*—  
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- Smith, Remy J., to Bendix Aviation Corp. Transistor sweep circuit. 2,936,427, 5-10-60, Cl. 331-109.
- Smith, Rex L., and N. C. Eckert, to United States of America, Navy. Igniter assemblies. 2,934,014, 4-26-60, Cl. 102-70.
- Smith, Richard, to United States of America, Navy. Two position landing gear. 2,922,603, 1-26-60, Cl. 244-102.
- Smith, Richard, to United Aircraft Corp. Float landing gear. 2,955,785, 10-11-60, Cl. 244-101.
- Smith, Richard A., to Minnesota Mining and Mfg. Co. Perfluorooctolefin polymers to base materials. 2,955,973, 10-11-60, Cl. 154-128.
- Smith, Richard B. Knife rack. 2,955,789, 10-11-60, Cl. 248-37.3.
- Smith, Richard E., to Bendix Aviation Corp. Self-tightening dental overrunning clutch transmission. 2,937,731, 5-24-60, Cl. 192-104.
- Smith, Richard F.: *See*—  
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- Chapin, Earl C., and Smith. 2,957,853.
- Chapin, Earl C., and Smith. 2,962,460.
- Smith, Richard J., Jr., and A. J. Baldwin, to Farrel-Birmingham Co., Inc. Radiation shielding container. 2,935,616, 5-3-60, Cl. 250-108.
- Smith, Richard M.: *See*—  
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- Smith, Robert, to General Motors Corp. Conduit coupling having means for preventing damage to the coupling due to freezing water. 2,942,894, 6-28-60, Cl. 285-13.
- Smith, Robert A., to American Viscose Corp. Thick and thin yarn producing apparatus. 2,948,931, 8-16-60, Cl. 19-143.3.
- Smith, Robert B., to Eastman Kodak Co. Process for embossing film. 2,928,135, 3-15-60, Cl. 18-56.
- Smith, Robert C.: *See*—  
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- Smith, Robert C. Rotary coolant valve. 2,940,473, 6-14-60, Cl. 137-609.
- Smith, Robert D. Snowball maker and launcher. 2,948,275, 8-9-60, Cl. 124-27.
- Smith, Robert E., to North American Aviation, Inc. Machometer. 2,925,732, 2-23-60, Cl. 73-182.
- Smith, Robert E., W. D. Mullins, Jr., R. H. Cannon, Jr., and F. W. Morgenthaler, to North American Aviation, Inc. Load factor cut-out switch for aircraft. 2,949,260, 8-16-60, Cl. 244-77.
- Smith, Robert J.: *See*—  
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- Smith, Robert J., and W. F. Ott, to ACF Industries, Inc. Carburetor metering adjustment. 2,964,303, 12-13-60, Cl. 261-51.
- Smith, Robert K.: *See*—  
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- Smith, Robert L. Multiple-purpose holder for infant-feeding receptacles. 2,929,290, 3-22-60, Cl. 84-95.
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- Smith, Robert M., to General Electric Co. Blower-caddy dolly and vacuum cleaner. 2,920,337, 1-12-60, Cl. 15-323.
- Smith, Robert M., to Universal Oil Products Co. Method of catalyst manufacture. 2,927,087, 3-1-60, Cl. 252-442.
- Smith, Robert M., to General Electric Co. Vacuum cleaner nozzle construction. 2,950,497, 8-30-60, Cl. 15-355.
- Smith, Robert M., and V. Haensel, to Universal Oil Products Co. Manufacture of noble metal catalyst. 2,939,847, 6-7-60, Cl. 252-439.
- Smith, Robert M., Jr.: *See*—  
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- Huggins, Charles E., Munn, and Smith. 2,928,932.
- Smith, Robert W., and R. A. Vaughan, to Dresser Industries, Inc. Interlock and control system for the elevator of a mechanical parking garage. 2,948,421, 8-9-60, Cl. 214-16.1.
- Smith, Robert W., and R. A. Vaughan, to Dresser Industries, Inc. Receptacle dumping mechanism. 2,948,426, 8-9-60, Cl. 214-314.
- Smith, Rowland D., to Corning Glass Works. Glass-making material and method. 2,934,444, 4-26-60, Cl. 106-47.
- Smith, Roy B., to V. N. Holderman. Mufflers. 2,919,761, 1-5-60, Cl. 181-57.
- Smith, Royal F. Vending machine and cream dispenser therefor. 2,957,607, 10-25-60, Cl. 220-70.
- Smith, Russell C. Apparatus for administering parenteral fluids. 2,954,028, 9-27-60, Cl. 128-214.
- Smith, Samuel C. H., to R. H. Windsor, Ltd. Injection moulding machines. 2,965,929, 12-27-60, Cl. 18-30.
- Smith, Samuel H., to The Rado Corp. Overhead door operating mechanism. 2,922,638, 1-26-60, Cl. 268-59.
- Smith, Samuel V., to Pneu-Hy Co. Pneumatic hydraulic pumping apparatus. 2,947,144, 8-2-60, Cl. 60-52.
- Smith, Sidney R., Jr., to General Electric Co. Electric fuse mounting and connection. 2,937,253, 5-17-60, Cl. 200-113.
- Smith, Sidney T., to United States of America, Navy. Projection storage tube. 2,951,177, 8-30-60, Cl. 315-12.
- Smith, Stanley H., to Everlast, Inc. Battery box. 2,936,094, 5-10-60, Cl. 220-44.
- Smith, Stephen H., to Norton Co. Crankpin grinding apparatus. 2,950,586, 8-30-60, Cl. 51-237.
- Smith, Sydney S., to Union Tank Car Co. Storage arrangement for highly volatile liquids. 2,948,294, 8-9-60, Cl. 137-263.
- Smith, T. J., & Nephew Ltd.: *See*—  
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- Smith, Thomas C., to Houston Oil Field Material Co., Inc. Fishing tool. 2,947,362, 8-2-60, Cl. 166-103.
- Smith, Thomas D., to E. I. du Pont de Nemours and Co. Photographic emulsions. 2,955,037, 10-4-60, Cl. 96-107.
- Smith, Thomas D., to E. I. du Pont de Nemours and Co. Sensitized silver halide emulsions. 2,955,038, 10-4-60, Cl. 96-107.
- Smith, Thomas D., to E. I. du Pont de Nemours and Co. Photographic silver halide emulsions. 2,965,487, 12-20-60, Cl. 96-107.
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- Smith, Thomas M., Jr.: *See*—  
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- Smith, Thomas R., to The Maytag Co. Combination washer-drier. 2,921,384, 1-19-60, Cl. 34-75.
- Smith, Thomas R., to The Maytag Co. Fluid control system for washing machine. 2,923,144, 2-2-60, Cl. 68-12.
- Smith, Thomas R., to The Maytag Co. Combination washer-drier with unitary tub assembly. 2,925,663, 2-23-60, Cl. 34-75.
- Smith, Thomas R., to The Maytag Co. Clothes drier without casing. 2,925,665, 2-23-60, Cl. 34-82.
- Smith, Thomas R., to The Maytag Co. Tub assembly for washing machine. 2,930,215, 3-29-60, Cl. 68-23.



- Smith, Thomas R., to The Maytag Co. Wobble agitator restraining assembly. 2,948,128, 8-9-60, Cl. 64-10.
- Smith, Thomas R., to The Maytag Co. Combination washer-drier timer control mechanism. 2,954,688, 10-4-60, Cl. 68-12.
- Smith, Thomas R., to The Maytag Co. Clothes drier with rotating shroud. 2,958,139, 11-1-60, Cl. 34-133.
- Smith, Thomas R., to The Maytag Co. Clothes drier with heat exchanger. 2,958,140, 11-1-60, Cl. 34-133.
- Smith, Thomas R., to The Maytag Co. Self cleaning filter system. 2,961,862, 11-29-60, Cl. 68-18.
- Smith, Thomas R., and G. W. Jones, to The Maytag Co. Tub mounting assembly. 2,926,136, 2-23-60, Cl. 210-360.
- Smith, Thomas R., and C. W. Burkland, to The Maytag Co. Filter for washing machine. 2,944,415, 7-12-60, Cl. 68-18.
- Smith, Todd A., 52.2% to J. Ellerstein, 34.8% to A. E. Bachelet, and 8% to H. C. Herman. Control apparatus for stereo projectors. 2,927,504, 3-8-60, Cl. 88-26.
- Smith, Traver J.: *See—*  
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- Smith, Traver J., and R. K. Daugherty,  $\frac{1}{2}$  to G. I. Magnuson, and  $\frac{1}{2}$  to G. I. Magnuson and R., and L. J. Fox, trustees. Solenoid and rotatable shaft device. 2,950,424, 8-23-60, Cl. 317-197.
- Smith, Valley H., to Ultramatic Film Magazines, Inc. Magazine for cut film. 2,923,221, 2-2-60, Cl. 95-23.
- Smith, Verity C., to Barnstead Still and Sterilizer Co. Liquid handling apparatus. 2,949,119, 8-16-60, Cl. 134-60.
- Smith, Verity C., to Barnstead Still and Sterilizer Co. Ion exchange process for water purification. 2,962,438, 11-29-60, Cl. 210-37.
- Smith, Verne, to Shamrock Drilling Co. Method of constructing an offshore well drilling island. 2,940,266, 6-14-60, Cl. 61-46.5.
- Smith, Vincent K.: *See—*  
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- Smith, Walter. Reversing mechanism for toy cars. 2,943,418, 7-5-60, Cl. 46-244.
- Smith, Walter G., to Hussmann Refrigerator Co. Shelf construction. 2,940,601, 6-14-60, Cl. 211-93.
- Smith, Walter J.: *See—*  
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- Smith, Walter L., and E. M. Dozler; said Dozler assor. to said Smith. Collapsible container frame. 2,941,710, 6-21-60, Cl. 229-49.
- Smith, Walter N. Detachable socket-type steering connection assembly for outboard motors. 2,949,093, 8-16-60, Cl. 115-18.
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- Smith, Warner M. Clamping belt buckle. 2,926,408, 3-1-60, Cl. 24-191.
- Smith, Warren H., to General Motors Corp. Differential assembly. 2,949,792, 8-23-60, Cl. 74-711.
- Smith, Warren M., and R. F. Neblett, to Esso Research and Engineering Co. Gasoline composition. 2,955,928, 10-11-60, Cl. 44-56.
- Smith, Warren R., and R. R. Ferber, to Tele-cam Inc. Combination motion picture and television camera. 2,960,565, 11-15-60, Cl. 178-6.
- Smith, Wendell V.: *See—*  
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- Smith, Wesley A., to Tilt-A-Door Corp. Closure device. 2,922,474, 1-26-60, Cl. 160-183.
- Smith, Wesley A., to Tilt-A-Door Corp. Closure device. 2,930,435, 3-29-60, Cl. 160-207.
- Smith, Wesley A., and R. E. Ginther, to Tilt-A-Door Corp. Foldable canopy-type door. 2,945,536, 7-19-60, Cl. 160-189.
- Smith, Wilbur W.,  $\frac{1}{2}$  to Simon F. Carpino. Combination sled-ski. 2,963,299, 12-6-60, Cl. 280-25.
- Smith, Wilfred I.: *See—*  
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- Smith, Willard A., and E. M. Klemer, to AMP Inc. High voltage, high altitude bushing. 2,958,844, 11-1-60, Cl. 339-89.
- Smith, William A., and V. A. Zandon, to American Metal Climax, Inc. Concentration of potash ores. 2,950,007, 8-23-60, Cl. 209-166.
- Smith, William A., and J. J. Jacobs, to American Metal Climax, Inc. Production of chlorine and alkali metal nitrates from alkali metal chlorides. 2,963,345, 12-6-60, Cl. 23-102.
- Smith, William C.: *See—*  
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- Smith, William C., to E. I. du Pont de Nemours and Co. Process for preparing carbon tetrafluoride. 2,922,825, 1-26-60, Cl. 260-653.
- Smith, William C., to E. I. du Pont de Nemours and Co. Process for obtaining fluorinated organic compounds. 2,937,171, 5-17-60, Cl. 260-248.
- Smith, William C., to E. I. Du Pont de Nemours, and Co. Organo-fluorine compounds of phosphorus arsenic and antimony. 2,950,306, 8-23-60, Cl. 260-440.
- Smith, William C., to E. I. du Pont de Nemours and Co. Preparation of inorganic fluorides. 2,952,514, 9-13-60, Cl. 23-88.
- Smith, William C., to E. I. du Pont de Nemours and Co. Process for preparing fluorine-containing organic compounds. 2,957,001, 10-18-60, Cl. 260-293.
- Smith, William C., C. A. McMurray, and W. L. Holmes, to Shell Oil Co. Preparation of catalysts. 2,960,477, 11-15-60, Cl. 252-435.
- Smith, William E., to Owens-Illinois Glass Co. Process for making purified silicon from silicon-containing substances. 2,955,024, 10-4-60, Cl. 23-223.5.
- Smith, William E., and A. R. Anderson, to Anderson Chemical Co. Processes for preparing metal alkyls and alkoxides. 2,965,663, 12-20-60, Cl. 260-448.
- Smith, William H. Holder for artist's supplies. 2,935,206, 5-3-60, Cl. 211-65.
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- Smith, William O. W., Jr. Propulsion means for boats. 2,922,388, 1-26-60, Cl. 115-41.
- Smith, William R., and G. R. Monaco, to The A. C. Gilbert Co. Toy log loading station. 2,934,853, 5-3-60, Cl. 46-40.
- Smith, William R., and C. C. Sperry, to The Upjohn Co. Work measuring device particularly adapted to detecting very small and rapid movements. 2,940,312, 6-14-60, Cl. 73-379.
- Smith, William T.: *See—*  
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- Smithers, V. L., Mfg. Co., The: *See—*  
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- Smithers, Vernon L., to The V. L. Smithers Mfg. Co. Cut flower holder. 2,922,254, 1-26-60, Cl. 47-41.
- Smithies, Walter R.: *See—*  
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- Smith-Johannsen, Robert, to S-J Chemical Co. Composition and method of making microporous products. 2,940,871, 6-14-60, Cl. 117-63.
- Smith-Johannsen, Robert, to Chemelex, Inc. Electrically conductive laminated structure and method of making same. 2,952,761, 9-13-60, Cl. 219-19.
- Smith-Pert, George J. E., to Westland Aircraft Ltd. Expansion couplings. 2,932,180, 4-12-60, Cl. 64-23.
- Smiths America Corp.: *See—*  
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- Smith-Vaniz, William R., Jr., to C.G.S. Laboratories, Inc. Static elimination system. 2,923,814, 2-2-60, Cl. 250-20.
- Smith-Vaniz, William R., Jr., to C.G.S. Laboratories, Inc. Variable frequency oscillator system. 2,927,279, 3-1-60, Cl. 331-4.
- Smitley, Marion L.: *See—*  
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- Smitley, Marion L., and M. F. Stern, to Holley Carburetor Co. Molded rubber dashpot. 2,947,509, 8-2-60, Cl. 251-48.
- Smits, Friedolf M.: *See—*  
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- Smits, Wytze B. Ignition circuit for jet engines and the like. 2,925,533, 2-16-60, Cl. 315-210.
- Smits, Wytze B., to Smitsvank N.V. Device for igniting gaseous or liquid fuels. 2,948,824, 8-9-60, Cl. 313-130.
- Smits, Wytze B., to Smitsvank N.V. Low voltage ignition system for high temperature combustion chambers. 2,957,998, 10-25-60, Cl. 313-141.
- Smits, Wytze B. Low-voltage spark plug. 2,962,617, 11-29-60, Cl. 313-118.
- Smitsvank N.V.: *See—*  
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- Smolen, Benjamin E., to G. Lerner and B. E. Smolen. Combined pop and squirt toy gun. 2,938,512, 5-31-60, Cl. 124-2.
- Smoll, Allen E.: *See—*  
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- Smoll, Allen E., to United States of America, Air Force. Method of appraisal of ferrite materials. 2,965,841, 12-20-60, Cl. 324-58.5.
- Smoll, Allen E., to Stewart-Warner Corp. Radar beacon system with side lobe suppression. 2,966,675, 12-27-60, Cl. 343-6.5.
- Smoll, Richard M. Clutch or brake. 2,941,642, 6-21-60, Cl. 192-88.
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- Smoot-Holman Co.: *See—*  
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Thomas, Gale F. 2,933,279.
- Smrt, Jiri, J. Beranek, and J. Sicher. Method of preparing 4-amino-3-isoxazolidinones. 2,943,092, 6-28-60, Cl. 260-307.



- Smrt, Jiri, J. Beránek, and J. Sicher. Certain esters of N-substituted ethylene imine carboxylic acids and method. 2,958,691, 11-1-60, Cl. 260—239.
- Smucker, Robert E.: *See—*  
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- Smucker, Robert E., and J. M. Harrison, to Crown Machine and Tool Co. Method of and injection nozzle for preventing excessive heat transfer to a mold. 2,928,125, 3-15-60, Cl. 18—30.
- Smulders, Ludovicus J. P.: *See—*  
Te Nuyt, Johannes A., and Smulders. 2,952,310.
- Smure, Edwin J., and R. J. Carnevale, to International Business Machines Corp. Flash lamp system. 2,963,625, 12-6-60, Cl. 315—241.
- Smutny, Edgar J., and J. D. Roberts, to California Institute Research Foundation. Phenylcyclobutenedione and process of preparation. 2,957,918, 10-25-60, Cl. 260—590.
- Smyser, James A. Rotatably supported radially expandible tire mount. 2,937,676, 5-24-60, Cl. 144—288.
- Smyser, James A. Tire supporting and inflating apparatus. 2,960,130, 11-15-60, Cl. 144—288.
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Lehovec, Kurt, and Smyth. 2,954,417.
- Smyth, Donald M., and K. Lehovec, to Sprague Electric Co. Battery cell structure. 2,953,620, 9-20-60, Cl. 136—83.
- Smyth Mfg. Co., The: *See—*  
Schramm, Carl. 2,925,612.
- Smythe, Carl V., and D. W. Thomas, to Rohm & Haas Co. Conversion of flavonoid glycosides. 2,950,974, 8-30-60, Cl. 99—106.
- Smythe, Edwin H., to Bell Telephone Laboratories, Inc. Object location system. 2,956,274, 10-11-60, Cl. 343—77.
- Smythe, William J., E. M. Muller, and R. W. Weeden, to Union Carbide Corp. Method of curing plasticized polyvinylchloride using radio frequency electrical energy. 2,966,469, 12-27-60, Cl. 260—25.
- Snader, Earle S.: *See—*  
Drenning, John W., Williams, and Snader. 2,922,085.
- Snader, Earle S., to Koppers Co., Inc. Electrical terminal assembly. 2,962,541, 11-29-60, Cl. 174—18.
- Snap-on Tools Corp.: *See—*  
Knudsen, Raymond G., and Preslan. 2,930,136.
- Snap-Tite, Inc.: *See—*  
Clark, Malcolm S. 2,954,245.
- Snappy, Inc.: *See—*  
St. Marie, Hilaire F. 2,935,340.
- Snarr, James L., to Atomic Energy of Canada Ltd. Combined control of motor and clutch. 2,936,052, 5-10-60, Cl. 192—2.
- Snavelly, Benjamin L., to United States of America, Navy. Scanning trace converter. 2,961,547, 11-22-60, Cl. 250—219.
- Snedkerud, Ole, to International Standard Electric Corp. Electronic plotting station for automatic plotting of one or more movable objects. 2,958,725, 11-1-60, Cl. 178—6.8.
- Sneed, Arthur L.: *See—*  
Willson, Weaver E., and Sneed. 2,937,694.
- Sneesby, Eugene E., and G. L. Winders, to Electriduct Co. Electrical outlet. 2,963,676, 12-6-60, Cl. 339—23.
- Sneide, Louise M. Fish worm handler. 2,929,166, 3-22-60, Cl. 43—4.
- Snell, Ford F. to Borg-Warner Corp. Gear and shaft assembly. 2,958,753, 11-1-60, Cl. 219—152.
- Snell, Ford F. to Borg-Warner Corp. Gear and shaft assembly. 2,958,759, 11-1-60, Cl. 219—152.
- Snell, Jacob K., D. F. Rogers, and J. M. Rhoades, to General Electric Co. Perforated card reader. 2,957,623, 10-25-60, Cl. 235—61.11.
- Snell, James. Pneumatic tire. 2,942,641, 6-28-60, Cl. 152—341.
- Snell, James H., Jr., F. J. Charewicz, and J. R. Lucek, to General Electric Co. Overvoltage protective device. 2,959,704, 11-8-60, Cl. 313—309.
- Snell, Silver S.: *See—*  
McMillan, Clarence L., and Snell. 2,920,619.
- Snelling, Charles D. Controlled chilling at an accelerating rate. 2,951,351, 9-6-60, Cl. 62—158.
- Snelling, L. C. (London) Ltd.: *See—*  
Wilson, Arthur, and Snelling. 2,935,015.
- Snelling, Leonard C.: *See—*  
Wilson, Arthur, and Snelling. 2,935,015.
- Snelling, Walter O., to Trojan Powder Co. Self-igniting incendiary devices. 2,958,277, 11-1-60, Cl. 102—6.
- Snelson, Howard J.: *See—*  
Prior, William L., and Snelson. 2,944,291.
- Snla Viscosa Società Nazionale Industria Applicazioni Viscosa S.p.A.: *See—*  
Muench, Werner, Notarbartolo, Silvestri, and Ruoth. 2,948,762.
- Snider, Karl D.: *See—*  
Snider, Walter K., and K. D. 2,963,826.
- Snider, Kenneth M., to Water Purification, Inc. Liquid feed tank. 2,962,042, 11-29-60, Cl. 137—399.
- Snider, Thomas R.: *See—*  
Miller, Meral O., and Matheny. 2,936,845.
- Snider, Walter K., and K. D. Wiring construction for concrete floors or the like. 2,963,826, 12-13-60, Cl. 50—127.
- Sniegowski, Mitchell S., to Corn Products Co. Fabric softener containing urea inclusion compound of hydrogenated tallow quaternary ammonium salt. 2,940,816, 6-14-60, Cl. 8—76.
- Snijders, Antonie: *See—*  
Van Duuren, Hendrik C. A., and Snijders. 2,922,034.
- Snijders, Antonie, to De Staat der Nederlanden, Ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posten, Telegrafie en Telefonie. Electronic relay and the control of arrangements therewith. 2,934,603, 4-26-60, Cl. 178—26.
- Snijders, Antonie, to De Staat der Nederlanden, Ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posten, Telegrafie en Telefonie. Remotely controlled automatic distortion measuring set for telecommunication network. 2,963,548, 12-6-60, Cl. 178—69.
- Snitker, Jens C., to S.O.S. B-Skod I/S. Fire-retarding door. 2,927,353, 3-8-60, Cl. 20—35.
- Snitzer, Elias, and G. K. Tucker, to Minneapolis-Honeywell Regulator Co. Heat treating constituent measuring means. 2,934,941, 5-3-60, Cl. 73—23.
- Sno-Bol Co.: *See—*  
Render, Thomas O. 2,922,180.
- Snoddy, Calvin S., Jr.: *See—*  
Graber, Robert P., and Snoddy. 2,957,013.
- Snoddy, C. Stewart, Jr.: *See—*  
Taub, David, Wendler, and Snoddy. 2,942,010.
- Snoddy, Leland B.: *See—*  
Beams, Jesse W., and Snoddy. 2,947,471.
- Beams, Jesse W., and Snoddy. 2,948,572.
- Snodgrass, James H.: *See—*  
Davis, David A., Smith, and Snodgrass. 2,944,657.
- Snow, Ernest: *See—*  
Robson, Briton S., and Snow. 2,955,771.
- Snow, Floyd E., and J. O. York, to Coast Pro-Seal Mfg. Co. Applicator and mixer for viscous materials. 2,963,736, 12-13-60, Cl. 18—2.
- Snow, Henry J.: *See—*  
Kleist, Dale, and Snow. 2,949,631.
- Kleist, Dale, and Snow. 2,949,632.
- Kleist, Dale, and Snow. 2,962,754.
- Snow, Kenneth T.: *See—*  
Hankus, Chester P. Re. 24,774.
- Luthi, Robert. 2,948,165.
- Snow, Milton L. Telephone switch control devices. 2,961,498, 11-22-60, Cl. 179—148.
- Snow, Raymond M. Picker bar swaging tool. 2,936,660, 5-17-60, Cl. 78—14.
- Snow, Richard R., to United States Steel Corp. Automatic screwdown-control system for rod mill. 2,933,956, 4-26-60, Cl. 80—56.
- Snow, Robert D., to Phillips Petroleum Co. Process of manufacture of hollow spheres. 2,929,106, 3-22-60, Cl. 18—47.2.
- Snow, Robert E., to International Minerals & Chemical Corp. Process for beneficiating ores. 2,961,092, 11-22-60, Cl. 209—3.
- Snow, Thomas W., to United Shoe Machinery Corp. Detachable pressing plates. 2,933,743, 4-26-60, Cl. 12—12.4.
- Snow, Thomas W., to United Shoe Machinery Corp. Toe lasting machines. 2,958,878, 11-8-60, Cl. 12—12.4.
- Snow, Walter A., to Carrier Corp. Control mechanism for fluid machine. 2,961,146, 11-22-60, Cl. 230—5.
- Snow, William E.: *See—*  
Sears, Edward C., Snow, and Thomas. 2,966,539.
- Snowdon, Arthur E.: *See—*  
Polzella, Louis C., Snowdon, and Carpenter. 2,947,959.
- Snowdon, Arthur E., to The Superior Electric Co. Protective device. 2,937,319, 5-17-60, Cl. 317—15.
- Snowdon, Arthur E., and G. O. Fredrickson, to The Superior Electric Co. Electric motor. 2,931,929, 4-5-60, Cl. 310—156.
- Snoy, Fred: *See—*  
Tuck, Robert M., and Snoy. 2,936,865.
- Snoy, Joseph B.: *See—*  
Richards, Elmer A., and Snoy. 2,920,732.
- Snoy, Joseph B., to General Motors Corp. Hydrokinetic torque converter having reactor blade pitch regulator. 2,924,941, 2-16-60, Cl. 60—54.
- Snoy, Joseph B., to Borg-Warner Corp. Hydraulic retarder control. 2,946,416, 7-26-60, Cl. 192—4.
- Snyder, Alton G.: *See—*  
Lambert, Harry L., Page, and Snyder. 2,932,375.
- Snyder, Alton G., H. L. Lambert, and P. F. Page, to Royal McBee Corp. Record perforator. 2,964,108, 12-13-60, Cl. 164—112.
- Snyder, Burton K.: *See—*  
Nigrelli, Biagio J., Standley, Wittmann, and Snyder. 2,953,240.
- Snyder, Charles C.: *See—*  
Barden, Wayne A., and Snyder. 2,926,324.
- Snyder, Charles S. Illuminated spirit level. 2,937,264, 5-17-60, Cl. 240—644.
- Snyder, Christopher L., to Steatite Research Corp. Deflection yoke core for cathode ray tubes. 2,955,220, 10-4-60, Cl. 313—76.
- Snyder, Clifford H. Injector ejector liquid spray apparatus. 2,926,857, 3-1-60, Cl. 239—353.
- Snyder, Donald L., and R. A. Helwig, to Sylvania Electric Products, Inc. Lamp inspection apparatus. 2,965,229, 12-20-60, Cl. 209—81.
- Snyder, Edward C.: *See—*  
Bond, Robert W., and Snyder. 2,954,306.



- Snyder, Edward C., and E. R. Kooi, to Corn Products Co. Process for preparing low D.E. sirup. 2,965,520, 12-20-60, Cl. 127-38.
- Snyder, Eric G., and S. J. Gagan, to Miles Laboratories, Inc. Enzymes. 2,922,749, 1-26-60, Cl. 195-66.
- Snyder, Francis H., to F. H. Snyder and Associates, Inc. Process for forming resins from phenols and hydropyrolisis products of ligno-cellulose. 2,937,158, 5-17-60, Cl. 260-56.
- Snyder, Francis H., to Francis H. Snyder and Associates, Inc. Chemically-assisted mechanical wood pulp. 2,956,918, 10-18-60, Cl. 162-90.
- Snyder, Francis H., to Francis H. Snyder and Associates, Inc. Amino-hydro-pyrolisis of woody materials. 2,964,518, 12-13-60, Cl. 260-124.
- Snyder, Francis H., and Associates, Inc.: *See*—  
Snyder, Francis H. 2,937,158.  
Snyder, Francis H. 2,956,918.  
Snyder, Francis H. 2,964,518.
- Snyder, Frederick B.: *See*—  
Richter, Frederick H., and Snyder. 2,950,757.
- Snyder, Glenn M.: *See*—  
Mouer, Earl W., and Snyder. 2,922,933.
- Snyder, Glenn M., to Landis Tool Co. Automatic means for starting and stopping control wheels. 2,933,860, 4-26-60, Cl. 51-103.
- Snyder, Harold M., and R. F. Neidhart, to General Motors Corp. Lint filter for washing machine. 2,939,305, 6-7-60, Cl. 68-18.
- Snyder, Henry H. Catheter. 2,936,761, 5-17-60, Cl. 128-349.
- Snyder, Herbert H., to International Telephone and Telegraph Corp. Traveling wave electron discharge device. 2,938,138, 5-24-60, Cl. 315-35.
- Snyder, Herman B., and L. M. Rosenberg, to Boeing Airplane Co. Chemical milling. 2,940,838, 6-14-60, Cl. 41-42.
- Snyder, Howard E., to Boeing Airplane Co. Double skin airfoil structure. 2,945,655, 7-19-60, Cl. 244-123.
- Snyder, Jack A., to E. I. du Pont de Nemours and Co. O-hydrocarbon, S-(quaternary ammonium-substituted alkyl) esters of phosphorothioic acids and insecticidal compositions thereof. 2,922,739, 1-26-60, Cl. 167-22.
- Snyder, James, to United States of America, Army. Muzzle blast sound wave detection apparatus. 2,962,696, 11-29-60, Cl. 340-16.
- Snyder, James E., and R. J. Swartz, to The Goodyear Tire & Rubber Co. Preserving the color of ground red meat. 2,947,638, 8-2-60, Cl. 99-194.
- Snyder, James M.: *See*—  
Eller, Carl W., Jr., and Snyder. 2,940,987.
- Snyder, James M., to E. I. du Pont de Nemours and Co. Alcoholysis of polyvinyl acetate. 2,950,271, 8-23-60, Cl. 260-91.3.
- Snyder, John M., O. A. Rowth, and C. E. Lee, to The Beacon Milling Co., Inc. Process of feeding poultry and composition useful therein. 2,945,765, 7-19-60, Cl. 99-4.
- Snyder, John R.: *See*—  
Nedwick, John J., and Snyder. 2,930,815.
- Snyder, Kenneth E., to General Motors Corp. Torque transmitting device. 2,925,897, 2-23-60, Cl. 192-69.
- Snyder, Kenneth E., to General Motors Corp. Transmission. 2,946,241, 7-26-60, Cl. 74-754.
- Snyder, Kenneth E., to General Motors Corp. Pressure control device. 2,965,120, 12-20-60, Cl. 137-116.3.
- Snyder, Kenneth E., to General Motors Corp. Seal structure. 2,957,735, 10-25-60, Cl. 309-23.
- Snyder, Kenneth E., to General Motors Corp. Piston travel controlling mechanism. 2,965,207, 12-20-60, Cl. 192-111.
- Snyder, Lenard D., and J. H. Shagman, to Joy Mfg. Co. Chuck mechanism. 2,919,925, 1-5-60, Cl. 279-123.
- Snyder, Leonard L., to Backflow Engineering & Equipment Co. Backflow prevention and alarm device. 2,920,159, 1-5-60, Cl. 200-81.9.
- Snyder, Leonard W., to Container Corp. of America. Container with locking closure. 2,939,625, 6-7-60, Cl. 229-45.
- Snyder Mfg. Co.: *See*—  
Noll, Edward M., and Mandl. 2,934,764.
- Snyder, Robert E. Automatic precharge mechanism. 2,953,151, 9-20-60, Cl. 137-100.
- Snyder, Robert E., and C. B. Taylor, to Chiksan Co. Swivel coupling with adjustable packer means. 2,927,804, 3-8-60, Cl. 285-39.
- Snyder, Robert L.: *See*—  
Crawford, Louis O., Walsh, and Snyder. 2,958,479.
- Snyder, Russell B., to General Electric Co. Methods of making gas impervious sheet material. 2,961,342, 11-22-60, Cl. 117-76.
- Snyder, Samuel A., to Thermometer Corp. of America. Surface thermometer. 2,937,525, 5-24-60, Cl. 73-377.
- Snyder Tool & Engineering Co.: *See*—  
Hall, Victor C. 2,962,851.  
McCoskey, Walter. 2,937,575.
- Snyder, Vilas L. Vertically collapsible and telescoping trailer body. 2,944,852, 7-12-60, Cl. 296-23.
- Snyder, Walter W.: *See*—  
Hughes, Elbert L., and Snyder. 2,957,273.
- Soabar Co.: *See*—  
Tamaccio, David L. 2,950,555.
- Sobel, Bernard A., and R. R. Goldberg. Amplifying system. 2,920,251, 1-5-60, Cl. 317-149.
- Soberski, Floryan L., to Stewart-Warner Corp. Rotor balancing apparatus. 2,955,499, 10-11-60, Cl. 82-1.
- Sobey, Albert J., Jr.: *See*—  
Brundage, Phillip J., and Sobey. 2,957,424.
- Sobey, Albert J., Jr., to General Motors Corp. Variable jet nozzle control with auxiliary control of guide vanes and compressor bleed. 2,941,354, 6-21-60, Cl. 60-35.6.
- Soble, Harry Z., to Super Laundry Machinery Co. Ironer. 2,930,153, 3-29-60, Cl. 38-57.
- Sobota, John T., to Fort Howard Paper Co. Apparatus for testing the softness of paper products. 2,930,229, 3-29-60, Cl. 73-159.
- Soc. Metallotecnica: *See*—  
Cupella, Aldo. 2,929,874.  
Cupella, Aldo. 2,929,876.
- Soc. per Az. Fabbrica Motocicli e Velo-cipedi Eldorado Bianchi: *See*—  
De Stefani, Romolo. 2,950,701.
- Soc. Sali Potassici Trinacria: *See*—  
Carbotti, Sergio. 2,966,395.
- Soccart, Fernand, to Societe Anonyme Francaise pour la Separation, l'Emulsion et le Melange (Procedes S.E.M.). Piston-actuating system. 2,962,904, 12-6-60, Cl. 74-44.
- Sochor, John J. Process of and apparatus for separating gas and liquid fractions from petroleum gas oil stream. 2,941,619, 6-21-60, Cl. 183-27.
- Societa Applicazioni Gomma Antivibranti S.A.G.A. Societa per Azioni: *See*—  
Boschi, Antonio. 2,919,951.
- Societa Farmaceutici Italia: *See*—  
Alberti, Carlo G., Bernardi, Larini, and Vercellone. 2,945,883.  
Alberti, Carlo G., Vercellone, Di Marco, and Ghione. 2,945,034.  
Camerino, Bruno. 2,953,582.  
Pasin, Claudio, and Coda. 2,956,061.
- Societa Generale per l'Industria Mineraria e Chimica: *See*—  
Minisci, Francesco. 2,956,066.
- Societa in nome Collettivo Wax & Vitale: *See*—  
Wax, Enrico, and Vitale. 2,936,900.
- Societa Italiana Prodotti Schering: *See*—  
Galimberti, Paolo, Gerosa, and Melandri. 2,963,491.  
Klein, Willibald. 2,928,773.
- Societa a Responsabilite Limitée dite: Etablissements Gelbey: *See*—  
Bonnaire, Georges. 2,927,185.
- Societe a Responsabilite Limitée dite: Ratier Aviation-Marine: *See*—  
Dreptin, Paul M. 2,959,156.
- Societe a responsabilite limitée les Ateliers de Constructions Mecaniques C & A: *See*—  
Muller, Jean-Paul. 2,957,639.
- Societe a responsabilite limitée: Recherches Etudes Production: *See*—  
Lucien, Rene. 2,953,221.  
Lucien, Rene. 2,963,328.
- Societe a Responsabilite Limitée Recherches Etudes Production R.E.P.: *See*—  
Boulet, Georges. 2,919,719.  
Lucien, Rene. 2,926,760.  
Lucien, Rene, and Legros. 2,922,311.
- Societe Alsacienne de Constructions Mecaniques: *See*—  
Audemar, Pierre. 2,957,423.  
Douchet, Florimond A. J. 2,960,816.  
Meunier, Gaston, and Bruant. 2,965,876.  
Nifenecker, Jean. 2,923,119.
- Societe Alsacienne de Papiers Heliographiques: *See*—  
Landau, Raphael. 2,953,471.
- Societe Anonyme Andre Citroen: *See*—  
Brueder, Antoine. 2,929,660.  
Brueder, Antoine. 2,930,357.  
Brueder, Antoine. 2,931,426.  
Brueder, Antoine. 2,935,053.  
Brueder, Antoine. 2,937,393.  
Brueder, Antoine. 2,949,905.  
Brueder, Antoine. 2,955,691.  
Brueder, Antoine. 2,957,565.  
Brueder, Antoine. 2,961,831.  
Henry-Biabaud, Edmond. 2,952,250.
- Societe Anonyme Asservelec: *See*—  
De Gaillard, Robert. 2,951,231.
- Societe Anonyme des Anciens Etablissements Panhard & Levassar: *See*—  
Panhard, Jean. 2,929,334.  
Panhard, Paul. 2,924,954.  
Panhard, Paul. 2,951,567.
- Societe Anonyme des Ateliers d'Aviation: *See*—  
De Lagabbe, Edmond. 2,954,943.
- Societe Anonyme des Glaces et Produits Chimiques de Saint-Gobain, Chauny et Cirey: *See*—  
Picard, Gaston. 2,928,368.
- Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny et Cirey: *See*—  
Arbitt, Pierre. 2,921,106.  
Charcuset, Raymond, and Moyrand. 2,931,614.  
Cherrier, Claude M. 2,945,797.  
Godron, Yves. 2,920,972.  
Godron, Yves. 2,921,859.  
Heymes, Pierre R. 2,935,823.  
Leveque, Marcel, and Plot. 2,964,786.  
Peyches, Ivan. 2,945,330.  
Peyches, Yvan. 2,937,480.  
Touway, Robert, and Martin. 2,945,333.



- Societe Anonyme des Usines Chausson : *See—*  
 Chausson, Andre. 2,935,629.  
 Chausson, Andre. 2,944,409.  
 Chausson, Andre. 2,947,154.
- Societe Anonyme dite: Anciens Etablissements Desmarquoy : *See—*  
 Landouar, Guy. 2,963,388.
- Societe Anonyme dite: Ateliers Bariquand & Marre : *See—*  
 Bouffilh, Raymond, and Savigny. 2,939,370.
- Societe Anonyme dite: Compagnie de Construction Mecanique  
 Procèdes Sulzer : *See—*  
 Fehr, Henri. 2,939,023.  
 Fehr, Henri. 2,951,956.
- Societe Anonyme dite: Compagnie Electro-Mecanique : *See—*  
 Herbrecht, René. 2,920,382.
- Societe Anonyme dite: Etablissements Delos & Fils : *See—*  
 Delos, Jacques. 2,955,451.
- Societe Anonyme dite: Etablissements Ducellier : *See—*  
 Dreyfus, Marcel. 2,945,999.
- Societe Anonyme dite: Etablissements Lefranc : *See—*  
 Lecompte, Paul. 2,939,795.
- Societe Anonyme dite: Laminiers a Froid de Thionville : *See—*  
 Laneyrie, Georges J.-M. 2,958,639.
- Societe Anonyme dite: les Ateliers de Construction du Nord  
 de la France : *See—*  
 Pelabon, Andre. 2,953,226.
- Societe Anonyme dite: Les Successeurs de B. Trayvou : *See—*  
 Rouban, Basile. 2,927,764.
- Societe Anonyme dite: Pneumatiques & Caoutchouc Manu-  
 facture Kleber Colombes : *See—*  
 Paul, Francis V. F. 2,955,065.
- Societe Anonyme dite: Societe Monsavon-L'Oreal : *See—*  
 Charle, Roger, and Pigerol. 2,934,396.  
 Charle, Roger, Ritter, and Kalopissis. 2,944,942.  
 Kalopissis, Gregoire, and Ghilardi. 2,944,869.
- Societe Anonyme: Etablissements Allinquant : *See—*  
 Allinquant, Fernand S. 2,920,882.
- Societe Anonyme Etablissements Ed. Jaeger : *See—*  
 Fauvelot, Pierre E. R. 2,935,683.
- Societe Anonyme Francaise du Ferodo : *See—*  
 Amiard, Paul. 2,963,867.  
 Maurice, Jean, and Rist. 2,920,726.  
 Maurice, Jean, and Rist. 2,922,503.  
 Maurice, Jean, and Rist. 2,945,100.  
 Maurice, Jean, and Rist. 2,964,956.  
 Maurice, Jean, and Rist. 2,940,569.
- Societe Anonyme Francaise pour la Separation, l'Emulsion et  
 le Melange (Procèdes S.E.M.) : *See—*  
 Caillaud, Michel E. 2,953,029.  
 Caillaud, Michel E. 2,960,318.  
 Soccart, Fernand. 2,962,904.
- Societe Anonyme Geoffroy-Delore : *See—*  
 Haugwitz, Otto. 2,921,429.  
 Haugwitz, Otto. 2,927,416.  
 Haugwitz, Otto. 2,929,573.
- Societe Anonyme H. Ernault-Batignolles : *See—*  
 Le Brusque, Rene. 2,938,418.  
 Le Brusque, Rene. 2,966,084.
- Societe Anonyme Mipsa : *See—*  
 Moll, Robert. 2,923,105.
- Societe Anonyme pour les Applications de l'Electricite et des  
 gaz Rares-Etablissements Claude-Paz & Silva : *See—*  
 Lemaigre-Voreaux, Pierre. 2,943,226.
- Societe Belge de l'Azote et des Produits Chimiques du Marly : *See—*  
 Braconier, Frederic F. A., and Francotay. 2,936,829.  
 Braconier, Frederic F. A., and Hannaert. 2,937,714.
- Societe Belge de l'azote et des Produits Chimiques du Marly,  
 Societe Anonyme : *See—*  
 Braconier, Frederic F. A., and Riga. 2,966,392.
- Societe Belge des Laboratoires Labaz : *See—*  
 Prost, Maurice. 2,931,828.
- Societe Bertin & Cie : *See—*  
 Bertin, Jean H., and Salmon. 2,964,906.  
 Bertin, Jean H., and Schmitt. 2,944,386.  
 Paris, Francois G., Bertin, and Salmon. 2,944,391.
- Societe Bertin & Cie (Societe a Responsabilite Limitee) : *See—*  
 Bertin, Jean H. 2,922,277.
- Societe Civile d'Etude de Procèdes de Scellement : *See—*  
 Massacrier, Jean-Marie F. 2,930,041.  
 Raymond, Michel. 2,932,031.
- Societe Civile dite: Office Technique International "O.T.I." : *See—*  
 Villeple, Paul. 2,957,364.
- Societe Commerciale ECA : *See—*  
 Rozycki, Paulin L. J. M. 2,937,457.
- Societe d'Applications et de Recherches Industrielles : *See—*  
 Gouloues, Noel, Caillat, and Criquillon. 2,965,469.
- Societe d'Application Technique et d'Exploitation Cinema-  
 tographique (Satec) : *See—*  
 Landeau, Adolphe. 2,924,145.
- Societe de Brevets H.D. : *See—*  
 Huet, Fernand. 2,954,944.
- Societe de Constructions Mecaniques de Stains : *See—*  
 Tissot, Germain, and E. Teissier. 2,946,180.  
 Tissot, Germain, and E. Teissier. 2,946,181.
- Societe de Fabrication d'Instruments de mesure : *See—*  
 Puechberty, Lucien P. 2,943,570.
- Societe de la Viscose Suisse : *See—*  
 Egger, Georg M. 2,953,427.
- Societe de Materiel pour l'Industrie du Verre (Somiver) : *See—*  
 Bardet, Gerard, and Bertin. 2,934,868.
- Societe de Prospection Electrique Procèdes Schlumber-  
 ger : *See—*  
 Boucherot, Edmond. 2,937,333.
- Societe de Traitements Electrolytiques & Electrothermiques : *See—*  
 Reboux, Jean. 2,954,453.
- Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries  
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 Bollack, Raymond, and Rey. 2,929,126.  
 Cogniat, Marcel, De Fromont, and Jacquemier. 2,946,-  
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 Paris, René, Pariaud, Bonny, and Dufour. 2,936,282.  
 Reynaud, Francis, and Roth. 2,960,400.  
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 Thermet, Robert, and Parvi. 2,938,931.
- Societe d'Electronique et D'Automatisme : *See—*  
 Albin, Jacques. 2,956,266.  
 Gloess, Paul F. M., and Namian. 2,941,719.  
 Hanlet, Jacques M. N. 2,921,220.  
 Hanlet, Jacques M. N. 2,929,950.  
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 Hanlet, Jacques M. N. 2,936,353.  
 Hanlet, Jacques M. N. 2,964,638.  
 Namian, Paul P. 2,962,213.  
 Piel, Gerard J. R. 2,927,312.  
 Raymond, Francois H. 2,930,896.  
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- Societe des Accumulateurs Fixes et de Traction (Societe  
 Anonyme) : *See—*  
 Herold, Rodolphe A. 2,930,828.  
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 Jacquier, Pierre A. C. 2,930,829.  
 Jeannin, Robert A. A. 2,942,054.  
 Lapuyade, Robert H. 2,957,117.
- Societe des Agrafes Francaises & d'Articles Metalliques  
 (Societe Anonyme) : *See—*  
 Rigaud, Maurice. 2,943,878.
- Societe des Forges et Ateliers du Creusot : *See—*  
 Louarn, Jean. 2,951,380.  
 Nectoux, Henri. 2,947,354.  
 Ricard, Pierre J. 2,959,013.
- Societe des Laboratoires Labaz : *See—*  
 Deltour, Guy Henri, and Ghuyssen. 2,927,885.
- Societe des Produits Chimiques de Bezons : *See—*  
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- Societe des Usines Chimiques Rhone-Poulenc : *See—*  
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 Gailliot, Paul, Baget, and Beas. 2,941,924.  
 Gailliot, Paul, Baget, and Sarret. 2,927,115.  
 Gailliot, Paul, and Robert. 2,945,026.  
 Jacob, Robert M., and Joseph. 2,928,835.  
 Jacob, Robert M., Regnier, and Crisan. 2,944,061.  
 Jacob, Robert M., and Robert. 2,941,999.  
 Magimel-Pelonniere, Rene J. E., and Etcheverry. 2,923,095.  
 Metivier, Jean. 2,932,649.  
 Metivier, Jean. 2,943,974.  
 Metivier, Jean. 2,943,975.  
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 Meyer, Robert, and Pillon. 2,931,707.  
 Ninet, Leon, and Verrier. 2,943,023.  
 Ninet, Leon, and Verrier. 2,943,024.  
 Ninet, Leon, and Verrier. 2,943,025.  
 Normant, Henri. 2,927,134.  
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 Scriabine, Igor. 2,937,175.  
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- Societe d'Etude et d'Exploitation Chimie et Mecanique E.C.M.  
 M-Legumex (Societe a Responsabilite Limitee) : *See—*  
 Mantelet, Jean. 2,923,483.
- Societe d'Etudes et de Commerce International : *See—*  
 Thomas, André. 2,960,000.
- Societe d'Etudes et de Participations Eau, Gaz, Electricite,  
 Energie, S.A. : *See—*  
 Horgen, Helge. 2,960,818.  
 Huber, Oscar. 2,926,642.  
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 Huber, Robert. 2,954,761.
- Societe d'Etudes et de Recherches Techniques : *See—*  
 Quercia, Marcel. 2,948,134.
- Societe d'Exploitation des Brevets Alce : *See—*  
 Romagnan, Lucien M. 2,925,328.
- Societe d'Exploitation des Matèriels Hispano-Suiza : *See—*  
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- Societe d'Inventions Aeronautiques et Mecaniques S.I.A.M. : *See—*  
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- Societe dite: "Alkan & Sinay" : *See—*  
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- Societe dite: Ateliers Partiot Cementation : *See—*  
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- Societe dite: Etablissements Colmant & Cuvelier : *See—*  
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- Societe dite: Societe Anonyme des Roulements a Aiguilles : *See—*  
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- Societe Electromag: *See*—  
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- Societe Francaise d'Electronique et de Cybernetique: *See*—  
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- Societe Francaise du Xylon: *See*—  
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- Societe Francaise Sadir-Carpentier: *See*—  
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- Societe Industrielle de Liaisons Electriques: *See*—  
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- Societe Industrielle de Mecanique et Carrosserie Automobile—  
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- Societe Industrielle des Derives de l'Acetylene (S.I.D.A.): *See*—  
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- Societe Industrielle Generale de Mecanique Appliquee  
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Pomper, Victor. 2,935,850.  
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- Societe Le Carbone-Lorraine: *See*—  
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- Societe le Materiel de Cablerie: *See*—  
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- Societe les Piles Wonder: *See*—  
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- Societe Metallurgique Technique et Commerciale: *See*—  
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- Societe Monsavon-L'Oreal: *See*—  
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- Societe Monsavon-L'Oreal (Societe Anonyme): *See*—  
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- Societe Nationale de Constructions Aeronautiques du Sud-Ouest: *See*—  
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- Societe Nationale d'Etude et de Construction de Moteurs  
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de Jurquet de la Salle d'Anfreville, Louis M. G., Bertin, and Kadosch. 2,948,148.  
Ferrie, Franck G. M., and Negre. 2,949,012.  
Eggers, Gerhard, and Haberkorn. 2,949,268.  
Eggers, Gerhard, Ernst, and Richter. 2,959,378.  
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Ferrie, Franck G. M. 2,933,896.  
Ferrie, Franck G. M. 2,959,006.  
Haberkorn, Erich. 2,930,551.  
Jumelle, Louis F., and Andre. 2,960,281.  
Kadosch, Marcel, and Bertin. 2,934,896.  
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Schwaar, Pierre G. 2,955,747.
- Societe Nouvelle de l'Outilage R.B.V. et de La Radio Industrie: *See*—  
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- Societe Nouvelle des Etablissements Brandt: *See*—  
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- "Societe Nouvelle Pica": *See*—  
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- Societe pour l'Amelioration et le Developement des Procèdes Industriels (SADEPI): *See*—  
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- Societe STEB: *See*—  
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Benoit, Claude A. 2,949,553.
- Societe Taulet & Co.: *See*—  
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- Societe Technique de Recherches Industrielles et Mecaniques: *See*—  
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- Societe Technique et Commerciale d'Installations Industrielles "Lucaat": *See*—  
Charbonnel, Maxime J. A. 2,965,353.
- Societe Technique pour l'Utilisation de la Precontrainte (S.T.U.P.) (Procèdes Freyssinet): *See*—  
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- Societe Zodiac: *See*—  
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- Society "Ateliers de Construction de Motocycles et Automobiles": *See*—  
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- Society JOP: *See*—  
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- Society: Luxembourgoise de Brevets et de Participations: *See*—  
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- Socke, John E.: *See*—  
Nordquist, Ronald E. J., and Socke. 2,922,517.
- Socke, John E., to American Can Co. Method of feeding sheets. 2,935,315, 5-3-60, Cl. 271-1.
- Socke, John E., to American Can Co. Method and apparatus for coating tubular articles. 2,943,001, 6-28-60, Cl. 117-96.
- Sockell, William J., Sr. Lubricator for traction motor. 2,928,700, 3-15-60, Cl. 308-132.
- Sockell, William J., Sr. Journal box lubricator pad. 2,929,665, 3-22-60, Cl. 308-243.
- Socony Mobil Oil Co., Inc.: *See*—  
Ackerman, Herman A. 2,926,842.  
Address, Harry J., Jr. 2,945,749.  
Address, Harry J., Jr. 2,959,473.  
Address, Harry J., Jr. 2,961,308.  
Address, Harry J., Jr. 2,962,442.
- Armstrong, Eldon L., Butcosk, and Murray. 2,950,248.
- Armstrong, Eldon L., Marshall, Murray and Raich. 2,950,248.
- Barclay, Harry A., McLean, and Sandberg. 2,922,543.
- Barnes, Brunner C., and Parekh. 2,945,073.
- Bergstrom, Eric V. 2,923,677.
- Bergstrom, Eric V. 2,936,221.
- Bergstrom, Eric V. 2,941,956.
- Bergstrom, Eric V. 2,956,011.
- Bergstrom, Eric V., Catrall, and Haddad. 2,956,008.
- Bergstrom, Eric V., and Drew. 2,941,874.
- Bergstrom, Eric V., and Penick. 2,956,009.
- Bodkin, Ernest A., and Savoca. 2,951,036.
- Bonner, Tom W., and Caldwell. 2,948,811.
- Bonner, Tom W., and Caldwell. 2,963,582.
- Bowles, Vernon O. 2,937,134.
- Bowles, Vernon O. 2,953,521.
- Broding, Robert A., Ely, and Summers. 2,949,973.
- Buckner, Lowell R., Jr. 2,956,010.
- Caldwell, Richard L., Hoehn, and Bonner. 2,934,652.
- Caldwell, Richard L., and Turner. 2,948,810.
- Carl, Paul R., and De Chellis. 2,940,922.
- Carmody, Raymond F. 2,952,646.
- Clapetta, Frank G. 2,945,806.
- Clapetta, Frank G., Coonrad, and Garwood. 2,945,800.
- Clapetta, Frank G., Coonrad, and Garwood. 2,945,801.
- Clapetta, Frank G., Coonrad, and Garwood. 2,945,802.
- Clapetta, Frank G., Coonrad, and Garwood. 2,945,805.
- Cramer, Robert H., and Houser. 2,951,815.
- Cramer, Robert H., and Schwartz. 2,927,902.
- Cramer, Robert H., and Schwartz. 2,964,481.
- Crittendon, Bob C. 2,930,755.
- De Chellis, Italo V. 2,937,131.
- De Chellis, Italo V. 2,941,937.
- Duval, Claiborne A., Jr. 2,959,539.
- Giammaria, John J. 2,924,542.
- Giammaria, John J. 2,956,910.
- Ginter, Earle F. 2,944,000.
- Godbey, John K. 2,929,455.
- Godbey, John K. 2,936,614.
- Godbey, John K., and Hodges. 2,955,463.
- Hamilton, Lyle A., and Williams. 2,957,931.
- Hart, James A. 2,921,019.
- Hicks, Warren G., and Zemanek. 2,963,646.
- Holzinger, Rudolph J. 2,951,038.
- Holzinger, Rudolph J., and Whelan. 2,964,425.
- Jenkins, Rodman. 2,937,987.
- Johnson, George C., and Lukasiewicz. 2,921,017.
- Johnson, Raymond P. 2,932,969.
- Kent, Eric R., Payne, and Wise. 2,925,382.
- Kolarik, Ivan S. 2,944,023.
- Loper, George B., and Pittman. 2,950,459.
- McLaughlin, Robert L., Miller, and Schick. 2,963,855.
- McLaughlin, Robert L., Miller, and Schick. 2,943,393.
- Middleton, William R. 2,937,135.
- Mitchell, John G. 2,925,378.
- Moulthrop, Benjamin L. 2,941,955.
- Nace, Donald M., and Lucki. 2,964,577.
- Plank, Charles J. 2,935,465.
- Porter, John G., Jr. 2,952,608.
- Potas, Anthony E. 2,946,737.
- Rosinski, Edward J. 2,938,874.
- Schwartz, Albert B. 2,935,483.
- Schwartz, Albert B. 2,964,480.
- Schwartz, Albert B. 2,966,466.
- Smith, Melvin I. 2,943,046.
- Stuewer, Gerald D. 2,926,802.
- Summers, Gerald C. 2,956,635.
- Swerdlow, Will. 2,930,752.
- Ulzheimer, Clifford J., and Zimmer. 2,944,021.
- Ulzheimer, Clifford J., and Zimmer. 2,944,022.
- Welsz, Paul B. 2,943,040.
- Welsz, Paul B. 2,950,240.
- Wilkins, Paul M. 2,953,514.
- Wilson, Frederick S. 2,960,524.
- Wilson, Robert C., Jr. 2,947,708.
- Woodworth, John H. 2,923,916.
- Zemanek, Joseph, Jr., and Hicks. 2,956,634.
- Soddy, Theodore S.: *See*—  
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- Soddy, Thomas C., to Chicago Railway Equipment Co. Combination flush and sliding door. 2,931,079, 4-5-60, Cl. 20-23.
- Soddy, Thomas C., to Chicago Railway Equipment Co. Railway brake beam structure. 2,944,640, 7-12-60, Cl. 188-207.
- Sodeco Societe des Compteurs de Geneve: *See*—  
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- Soderberg, Emil O. Backset link for lock sets. 2,937,897, 5-24-60, Cl. 292-1.



- Soderberg, Frederick C. Landing gear control switch for airplanes. 2,928,629, 3-15-60, Cl. 244-102.
- Soderberg, John W., 1/4 to R. P. Strakas, and 1/4 to J. Malasky and J. F. Kearney. Automatic traffic control. 2,933,716, 4-19-60, Cl. 340-40.
- Soderbergh, Edgon M. Plural tape measuring device. 2,920,394, 1-12-60, Cl. 33-138.
- Soderhamn Machine Mfg. Co.: See—  
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- Soderman, George W., to Western Electric Co., Inc. Apparatus for abrasively treating objects. 2,955,387, 10-11-60, Cl. 51-8.
- Soderman, George W.: See—  
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- Soderquist, Charles E.: See—  
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- Soderquist, Frederick J.: See—  
Amos, James L., and Soderquist. 2,963,518.
- Amos, James L., Soderquist, and Boyce. 2,939,889.
- Soderquist, Leslie E., to The McNeil Machine & Engineering Co. Pneumatic tire shaping and vulcanizing press and mechanism for servicing same. 2,927,343, 3-8-60, Cl. 18-2.
- Soderquist, Leslie E., to The McNeil Machine & Engineering Co. Accessory for tire shaping and curing presses. 2,946,088, 7-26-60, Cl. 18-2.
- Soderquist, Leslie E., to The McNeil Machine & Engineering Co. Machine for tire manufacture (post inflation). 2,963,737, 12-13-60, Cl. 18-2.
- Soderstrom, Sigvard V.: See—  
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- Soehlemann, Just: See—  
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- Soelberg, Carl A., to Master Mfg. Co. Reclaimer for filter muck. 2,925,367, 2-16-60, Cl. 202-176.
- Soergel, David G.: See—  
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- Sofa-Matic, Inc.: See—  
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- Soffe, John. Fishing reels. 2,932,466, 4-12-60, Cl. 242-84.52.
- Soffer, Jack W., and E. H. Neupert, to Development Research, Inc. Dispensing valve having spring of elastic material. 2,965,270, 12-20-60, Cl. 222-394.
- Soffer, Jack W., D. M. Kitterman, and L. D. Hart, to Development Research, Inc. Valve body incorporating mounting cup mask and gasket. 2,963,271, 12-20-60, Cl. 222-542.
- Soñ, Gregory G. Combination carrying case, table and canopy. 2,936,204, 5-10-60, Cl. 311-2.
- Soñix A.G.: See—  
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- Sohlberg, Carl O.: See—  
Ericsson, Eric R., and Sohlberg. 2,949,980.
- Sohlberg, Carl O., to Telefonaktiebolaget L M Ericsson. Method for manufacturing impulse cams for dials. 2,921,482, 1-19-60, Cl. 74-567.
- Sohlberg, Carl O., and O. E. R. Nordström, to Telefonaktiebolaget L M Ericsson. Device for dials. 2,964,592, 12-13-60, Cl. 179-90.
- Sohn, Allen O. Apparatus for feeding, printing and cutting a strip into discrete printed portions. 2,946,281, 7-26-60, Cl. 101-227.
- Sohn, August W., to Zellstofffabrik Waldhof. Method of producing condendrin. 2,921,879, 1-19-60, Cl. 162-14.
- Sohn, Jesse S.: See—  
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- Solieu, Trasimond A., Jr., to General Electric Co. Electric discharge device. 2,964,664, 12-13-60, Cl. 313-43.
- Soil Mover Corp., The: See—  
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- Sokol, Gunter: See—  
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- Sokolowski, Henry A., to United States of America, Army. Cartridge actuated catapult with split inner tube. 2,923,319, 3-15-60, Cl. 89-1.
- Sokolowski, Henry A., to United States of America, Army. Impeller. 2,931,299, 4-5-60, Cl. 102-70.2.
- Solar Aircraft Co.: See—  
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- Reed, Wendell E. 2,936,579.
- Stetson, Alvin R. 2,927,043.
- Solar, Samuel L., to International Business Machines Corp. Recording device. 2,927,834, 3-8-60, Cl. 346-21.
- Solari, Raymond L. Telephone shoulder rest. 2,936,344, 5-10-60, Cl. 179-157.
- Solatron Electronic Group Ltd., The: See—  
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- Solbach, Erich. Portable compact washing appliance. 2,919,448, 1-5-60, Cl. 4-168.
- Soldano, Francis: See—  
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- Soldini, Robert B. Machine for salvaging waste concrete material. 2,942,731, 6-28-60, Cl. 209-293.
- Soldini, Robert B. Pre-batch trailer for concrete making ingredients. 2,945,684, 7-19-60, Cl. 259-165.
- Solecki, Edward A.: See—  
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- Solecki, John E.: See—  
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- Solem, Robert H.: See—  
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- Solheim, Karsten, to General Electric Co. Television chassis. 2,922,997, 1-26-60, Cl. 340-367.
- Sollmine, Nicholas. Multiple image door. 2,949,059, 8-16-60, Cl. 88-85.
- Solls, Alfred A. Power steering apparatus. 2,958,024, 10-25-60, Cl. 318-19.
- Solley, Douglas A., Jr., to General Electric Co. Evaporator structure. 2,934,918, 5-3-60, Cl. 62-523.
- Sollich, Robert. Metho and apparatus for processing chocolate and the like. 2,963,367, 12-6-60, Cl. 99-23.
- Sollin, Ingmar, to International Minerals & Chemical Corp. Resolution of DL-glutamic acid. 2,945,879, 7-19-60, Cl. 260-501.
- Solloway, Harry, and M. Goodman. Exerciser device. 2,938,572, 5-31-60, Cl. 155-45.
- Solo, Einar R. Concrete form clamp. 2,946,360, 7-26-60, Cl. 144-291.
- Solomon, Allen L., and G. J. Goldsmith, to Radio Corp. of America. Ferro electric devices. 2,944,200, 7-5-60, Cl. 317-262.
- Solomon, Frank: See—  
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- Solomon, Frank, to Yardney International Corp. Battery electrolyte circulation device. 2,932,681, 4-12-60, Cl. 136-160.
- Solomon, Irvine J.: See—  
Klein, Morton J., Solomon, and Harrison. 2,961,469.
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- Solomon, Max, to Lansky Die Cutting Corp. Knockdown structure. 2,921,347, 1-19-60, Cl. 20-2.
- Solomon, Nathan L. Variable curl platform curler. 2,938,523, 5-31-60, Cl. 132-42.
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- Solomon, Paul W., to Phillips Petroleum Co. Inhibition of mold corrosion for quaternized polymers. 2,955,093, 10-4-60, Cl. 260-23.7.
- Solomon, William: See—  
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- Solomons, Issaiah A.: See—  
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- Solotron Electric Group Ltd., The: See—  
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- Solow, Benjamin. Pencil marking point. 2,942,577, 6-28-60, Cl. 120-33.
- Solow, Benjamin, to International Resistance Co. Metal film resistor and method of making the same. 2,935,717, 5-3-60, Cl. 338-308.
- Solow, Benjamin, to International Resistance Co. Apparatus for measuring resistance. 2,944,237, 7-5-60, Cl. 338-77.
- Soloway, Harold: See—  
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- Shapiro, Seymour L., Freedman, and Soloway. 2,928,834.
- Shapiro, Seymour L., Freedman, and Soloway. 2,928,845.
- Shapiro, Seymour L., Freedman, and Soloway. 2,937,179.
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- Soloway, Leo: See—  
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- Soloway, Saul. Redox resins. 2,927,096, 3-1-60, Cl. 260-57.
- Soltermann, Walter, to Ciba Ltd. Stirring apparatus. 2,962,268, 11-29-60, Cl. 259-129.
- Soltes, Isaac B.: See—  
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- Soluble Nutrients, Inc.: See—  
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- Solvay & Cie: See—  
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- Daras, Nestor, and Ryckaert. 2,966,524.
- Gonze, Max, and Leblon. 2,941,865.
- Soma, Nobuo: See—  
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- Somach, Norman. Foldable stereoscope device for viewing transparencies and prints. 2,933,015, 4-19-60, Cl. 88-29.
- Somers, Allen E.: See—  
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- Somers, Norman D., and R. A. Barnett, to Canadian Industries Ltd. Vacuum testing apparatus. 2,932,187, 4-12-60, Cl. 73-40.
- Somerville, Alexander, to General Motors Corp. Measuring system. 2,939,013, 5-31-60, Cl. 250-83.3.
- Somerville Ltd.: See—  
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- Somerville, Willard T., and E. T. Theimer, to van Ameringen-Haebler, Inc. Process for producing para tertiary butyl cyclohexanyl esters and the intermediate alcohol therefor. 2,927,127, 3-1-60, Cl. 260-488.
- Somes, Frederick J., Jr., to General Electric Co. Apparatus for installing electrical systems. 2,931,097, 4-5-60, Cl. 29-282.
- Somes, Frederick J., Jr., to General Electric Co. Electrical distribution system. 2,953,342, 9-20-60, Cl. 248-317.



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- Somlyody, Arpad, to Burroughs Corp. Electron beam clearing and resetting circuits. 2,948,829, 8-9-60, Cl. 315-8.5.
- Sommar, Helen G., to The B. F. Goodrich Co. Method of treating synthetic fibers. 2,921,831, 1-19-60, Cl. 8-55.
- Sommer, Alvin H., and F. P. Shonkwiler, to Harbison-Walker Refractories Co. Refractory roof and method of prolonging its life. 2,961,978, 11-29-60, Cl. 110-99.
- Sommer, Gordon M., to U.S. Industries, Inc. Overload devices. 2,937,734, 5-24-60, Cl. 192-150.
- Sommer, Karl, to J. Pöhlig, Aktiengesellschaft. Rope trolley for cableways, cable cranes and the like. 2,953,101, 9-20-60, Cl. 104-179.
- Sommer, Leo H., to Dow Corning Corp. Organosiloxy silactones. 2,963,500, 12-6-60, Cl. 260-448.2.
- Sommer, Reinhold, to VEB Schlepperwerk Nordhausen. Multi-speed transmission system. 2,920,504, 1-12-60, Cl. 74-745.
- Sommer, Reinhold, to VEB Schlepperwerk Nordhausen. Reversible transmission system. 2,966,067, 12-27-60, Cl. 74-343.
- Sommer, Richard, to Voigtlander A.G. Photographic camera provided with a shutter and diaphragm. 2,926,571, 3-1-60, Cl. 95-10.
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- Sommer, Werner: See—  
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- Sommermeier, Friedrich, to Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate. Focusing hood structure for photographic cameras. 2,937,586, 5-24-60, Cl. 95-47.
- Sommers, Armiger H., to Abbott Laboratories. Process for therapeutic compounds. 2,953,566, 9-20-60, Cl. 260-256.4.
- Sommers, Donald J., to Sanders Associates, Inc. Phase shifter for high frequency transmission line. 2,961,620, 11-22-60, Cl. 333-31.
- Sommers, Donald J., to Sanders Associates, Inc. Microwave transmission line tuner. 2,961,622, 11-22-60, Cl. 333-82.
- Sommers, Donald J., and W. J. Wilson, to Sanders Associates, Inc. Transducer for high frequency transmission line. 2,938,175, 5-24-60, Cl. 333-6.
- Sommers, Edward S. Oscillating belt sanders. 2,926,465, 3-1-60, Cl. 51-142.
- Sommers, Henry S., Jr., to Radio Corp. of America. Solid-state charge carrier valve. 2,961,475, 11-22-60, Cl. 136-4.
- Sommers, Henry T.: See—  
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Sholin, Edwin E. 2,962,959.
- Sommerstein, Cwi. Dual saliva ejector. 2,950,533, 8-30-60, Cl. 32-33.
- Sommer, W. L., Co., Inc., The: See—  
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- Somogyi, Francis P. Utilization of fly ash. 2,933,796, 4-26-60, Cl. 25-156.
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- Sone, Kosuke: See—  
Kuroiwa, Kimio, and Sone. 2,946,526.
- Sone, Tamotsu. Diffusion pumps. 2,923,458, 2-2-60, Cl. 230-101.
- Sonenberg, Martin, to Research Corp. Thyrotrophin derivatives and methods for using same. 2,943,981, 7-5-60, Cl. 167-74.
- Sonesson, Georg, to Allmanna Svenska Elektriska Aktiebolaget. Laminated magnetic core. 2,929,038, 3-15-60, Cl. 336-215.
- Song, John, and G. T. Fitchett, to American Cyanamid Co. Production of N,N'-bis-(thiocarbamyl)-hydrazine and 2-amino-5-mercapto-1,3,4-thiadiazole. 2,966,495, 12-27-60, Cl. 260-306.8.
- Sonheim, Frank J.: See—  
Austgen, Paul E., and Sonheim. 2,956,706.
- Sonksen, Walter T. Display rack. 2,923,417, 2-2-60, Cl. 211-165.
- Sonmore, Stanley V., to Toro Mfg. Corp. Hammerknife assembly. 2,924,057, 2-9-60, Cl. 56-249.
- Sonmore, Stanley V., and A. J. Samways, to Toro Mfg. Corp. Front castored mower. 2,933,874, 4-26-60, Cl. 56-25.4.
- Sonnabend, Lawrence F., and C. R. Williams, to The Dow Chemical Co. Resinification of wood. 2,947,648, 8-2-60, Cl. 117-59.
- Sonnberger, Heinrich, to Carl Zeiss. Arrangement for detachable connection of a vacuum pump to a vacuum vessel. 2,921,200, 1-12-60, Cl. 250-49.5.
- Sonnberger, Heinrich, to Carl Zeiss. Rotary disc shutters for photographic cameras. 2,926,582, 3-1-60, Cl. 95-61.
- Sonneborn Chemical and Refining Corp.: See—  
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- Sonneborn, Henry, III: See—  
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Miley, Hunter, Sonneborn, Schindler, and Breth. 2,929,683.
- Sonneborn, L., Sons, Inc.: See—  
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- Sonnefeld, Georg. Method and system for the carnotization of steam cyclic processes. 2,964,910, 12-20-60, Cl. 60-67.
- Sonneman Products, Inc.: See—  
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- Sonnenfeld, Richard J.: See—  
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- Sonnenfeldt, Richard W.: See—  
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- Sonnenfeldt, Richard W., to Radio Corp. of America. Synchronizing signal separation. 2,923,766, 2-2-60, Cl. 178-5.4.
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- Sonnenfeldt, Richard W., to Radio Corp. of America. Color synchronizing signal separation. 2,956,111, 10-11-60, Cl. 178-5.4.
- Sonnenfeldt, Richard W., to Radio Corp. of America. Marker pulse circuit. 2,965,845, 12-20-60, Cl. 328-28.
- Sonnenfeldt, Richard W., G. L. Grundmann, and C. L. Cuccia, to Radio Corp. of America. Magnetic color demodulator system. 2,955,153, 10-4-60, Cl. 178-5.4.
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- Sonnier, Bruce C., and R. W. Vertrees, to Continental Oil Co. Tubing testing device. 2,955,458, 10-11-60, Cl. 73-40.5.
- Sonnino, Mario, to American Cyanamid Co. Tow-processing apparatus which includes a knot-detecting assembly. 2,950,520, 8-30-60, Cl. 28-64.
- Sonnino, Mario, to American Cyanamid Co. Method for producing a crimped tow. 2,960,752, 11-22-60, Cl. 28-76.
- Sonntag, Edmund G., B. Fenn, and K. F. Sonntag, to Scovill Mfg. Co. Buckle threading apparatus. 2,955,730, 10-11-60, Cl. 223-49.
- Sonntag, Franz, to Gelsenkirchener Bergwerks Akt.-Ges. Method of producing refined benzol. 2,944,091, 7-5-60, Cl. 260-674.
- Sonntag, Karl F.: See—  
Sonntag, Edmund G., Fenn, and Sonntag. 2,955,730.
- Sonntag, Karl F., to Scovill Mfg. Co. Curtain rod support. 2,964,277, 12-13-60, Cl. 248-205.
- Sonobe, Shiro, K. Ishikawa, and Y. Namiki. Motor clock provided with a spring automatically wound. 2,933,882, 4-26-60, Cl. 58-38.
- Sonotone Corp.: See—  
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Knauert, William F. 2,927,978.  
Pearson, Harry A. 2,927,976.  
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- Sonoco Products Co.: See—  
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- Sons, Max C.: See—  
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- Sontheimer, Carl G., to C.G.S. Laboratories, Inc. Remote manual tuning of oscillator via duplex conductor. 2,923,815, 2-2-60, Cl. 250-20.
- Sony Corp.: See—  
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- Sony Kabushikishaisha (Sony Corp.): See—  
Yasuda, Junichi, Kanoi, and Takahata. 2,950,385.
- Soper, Richard G.: See—  
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- Soprant, Joseph A. Illuminated display devices. 2,957,978, 10-25-60, Cl. 240-10.
- Sorel, Frederick, to Arvey Corp. Lamination of shrinkable films. 2,966,439, 12-27-60, Cl. 154-139.
- Sorem, Stanley S.: See—  
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- Soreng, Edgar M., D. K. McIlvaine, and W. E. Beller, to Controls Co. of America. Temperature-actuated power device. 2,938,384, 5-31-60, Cl. 73-358.
- Sorenson, Alfred W., to Visual Therapy Products Corp. Visual accommodative-rock therapy instrument. 2,955,593, 10-11-60, Cl. 128-76.5.



- Sorensen, Andrew J., to Femco, Inc. Detonator circuit for permissive explosion shot firer. 2,961,583, 11-22-60, Cl. 317-80.
- Sorensen, Charles M. Intermittent surgical suction apparatus. 2,939,460, 6-7-60, Cl. 128-276.
- Sorensen & Co., Inc.: *See*—
- Kohn, Samuel T. and Loucks. 2,932,786.
- Scherer, Bernard L. 2,925,548.
- Wouk, Victor. 2,939,067.
- Sorensen, George E. Dial indicator on beam calipers with protected contact point. 2,924,017, 2-9-60, Cl. 33-147.
- Sorensen, George E. Method and means for gaging extraplanar space intervals. 2,957,246, 10-25-60, Cl. 33-143.
- Sorensen, Hans C. Muzzle equalizer and blast minimizer for gun. 2,953,972, 9-27-60, Cl. 89-14.
- Sorensen, Harold M.: *See*—
- Krabbe, Ulrik E., and Sorensen. 2,932,787.
- Sorensen, Harold F.: *See*—
- Berggren, Lloyd E., Schneider, and Sorensen. 2,943,448.
- Sorensen, Harold P., to Minneapolis-Honeywell Regulator Co. Fuel flow controller for gas turbines and jet propulsion units. 2,953,899, 9-27-60, Cl. 60-35.6.
- Sorensen, Kresten T., to All American Engineering Co. Aircraft runway barriers. 2,919,871, 1-5-60, Cl. 244-110.
- Sorensen, Kresten T., to Baldwin-Lima-Hamilton Corp. Wheel pressing apparatus. 2,934,819, 5-3-60, Cl. 29-252.
- Sorensen, Knud B., and E. F. Ohlendorf, to Deere & Co. Peg tooth harrow. 2,930,438, 3-29-60, Cl. 172-621.
- Sorensen, Knud B., and B. E. Kent, to Deere & Co. Trailer brake actuating mechanism. 2,960,193, 11-15-60, Cl. 188-112.
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- Sorenson, Kal K., to The Garrett Corp. Reversible shear output shaft. 2,964,931, 12-20-60, Cl. 64-28.
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- Sorenson, Stanley E., to Access Systems, Inc. Ceiling lighting system. 2,926,237, 2-23-60, Cl. 240-9.
- Sorez, Eugene J.: *See*—
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- Sorg, Earl H., and E. F. Kutch, to Thokol Chemical Corp. Coating composition of a polysulfide polymer, maleic anhydride and silica and method of making and using same. 2,933,470, 4-19-60, Cl. 260-37.
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- Sorkin, Jack L., to Horizons Inc. Method of producing a relief image. 2,927,021, 3-1-60, Cl. 96-35.
- Sorkin, Morris. Variable speed drive. 2,958,229, 11-1-60, Cl. 74-199.
- Sorlie, George S. Two-way stitch holder. 2,930,213, 3-29-60, Cl. 66-1.
- Sorlini, Giovanni, to A. C. and E. Ballarini. Device for processing a liquid. 2,936,696, 5-17-60, Cl. 99-303.
- Sornberger, George E., to Moore Business Forms, Inc. Severance means for manifolding assemblies. 2,926,025, 2-23-60, Cl. 282-22.
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- MacNeill, John H., and Bellinger. 2,962,208.
- Sorrlick, Clay H., to Super Mold Corp. of California. Kinking attachment for tire spreaders. 2,954,962, 10-4-60, Cl. 254-50.3.
- Sorvoll, Ivan, Inc.: *See*—
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- Sostman, H. E., & Co.: *See*—
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- Sostrin, Alice. Flexible cover. 2,931,055, 4-5-60, Cl. 5-334.
- Sostrin, Alice. Self-fastening infant's diaper. 2,931,361, 4-5-60, Cl. 128-284.
- Soteropoulos, Gust, to Deere & Co. Field forage harvester. 2,946,169, 7-26-60, Cl. 56-16.
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- Souby, Armand M., to Esso Research and Engineering Co. Hydrodealkylation of hydrocarbons. 2,924,569, 2-9-60, Cl. 208-107.
- Soucie, Sylvester F., and A. J. Bauer. Cleaning and conveying unit for beet harvester. 2,949,160, 8-16-60, Cl. 171-101.
- Soucy, George H., to Brown & Sharpe Mfg. Co. Micrometer spindle clamp. 2,943,395, 7-5-60, Cl. 33-164.
- Souder, Louis C., and S. Melamed, to Rohm & Haas Co. Heat-convertible coating composition, enameled article, and method of finishing surface with said composition. 2,955,055, 10-4-60, Cl. 117-75.
- Soule, Edward C.: *See*—
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- Ter Horst, William P., and Soule. 2,932,160.
- Soule, Everett I. Sap collection apparatus and method. 2,944,369, 7-12-60, Cl. 47-52.
- Soule, John P., to American Radiator & Standard Sanitary Corp. Heating and cooling thermostatic control system. 2,953,356, 9-20-60, Cl. 257-287.
- Soules, Fred N. Mattresses for face down sleeping. 2,959,794, 11-15-60, Cl. 5-345.
- Soulet, Michel: *See*—
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- Soumerai, Henri, to Worthington Corp. Enclosed motor-compressor unit. 2,926,840, 3-1-60, Cl. 230-206.
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- Southam, Donald L., to Thompson Ramo Wooldridge Inc. Balanced regulator valve. 2,946,186, 7-26-60, Cl. 60-39.09.
- Southam, Donald L., and F. C. Bayer, to Thompson Ramo Wooldridge Inc. Seal assembly. 2,936,715, 5-17-60, Cl. 103-103.
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- Southern Equipment Co.: *See*—
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- Southern Lightweight Aggregate Corp.: *See*—
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- Walter, Charles W. 2,936,496.
- Walter, Charles W., and Layson. 2,933,776.
- South Wales Switchgear Ltd.: *See*—
- Buttre, Ronald N., and Ciborowski. 2,957,971.



- Southward, Ben G., to The Bendix Corp. Gamma compensated neutron detector. 2,950,393, 8-23-60, Cl. 250—83.1.
- Southwell, Edward H. Distributing head for container. 2,931,541, 4-5-60, Cl. 222—498.
- Southwest Products Co.: *See—*
- Tracy, Ward D., and Dasney. 2,921,803.
- Southwest Truck Body Co., Inc.: *See—*
- Kloess, Henry F., Jr. 2,964,808.
- Southwestern Engineering Co.: *See—*
- Freneau, Philip. 2,954,840.
- Southwick, Peter F., to Gulf Research & Development Co. Mud sampler and pressure indicator. 2,941,405, 6-21-60, Cl. 73—421.
- Souza, Arthur J. de A. Machine for maneuvering elevators. 2,941,625, 6-21-60, Cl. 187—42.
- Souza, David W., to Dymo Industries, Inc. Contrast color embossed plastics and method of production. 2,925,625, 2-23-60, Cl. 18—61.
- Souza, David W. Radiator testing device. 2,935,868, 5-10-60, Cl. 73—45.8.
- Sova, Jaroslav.: *See—*
- Sekera, Ales, Palat, Borovansky, and Sova. 2,933,519.
- Sowa, Frank J.: *See—*
- Cohen, Sylvan I., Frant, and Sowa. 2,938,814.
- Cohen, Aylvan I., Frant, and Sowa. 2,965,912.
- Sowa, Frank J. Method of producing esters of boric acid. 2,953,592, 9-20-60, Cl. 260—462.
- Sowak, Ross G., to Polymer Corp. Ltd. Process for polymerizing a conjugated diolefin in the presence of an unsaturated dimer of aliphatic ethylstyrene. 2,922,781, 1-26-60, Cl. 260—84.3.
- Sowell, Ernest A.: *See—*
- Scallet, Barrett L., and Sowell. 2,951,776.
- Sower, Albert J. Nail-driving machine. 2,928,095, 3-15-60, Cl. 1—44.4.
- Sower, Albert J. Machine for making carpet anchor strips. 2,950,480, 8-30-60, Cl. 1—1.
- Sower, Albert J., and S. J. Kent. Plural panel strip-cutting machine with traveling saw. 2,945,517, 7-19-60, Cl. 143—47.
- Sowers, Anthony E.: *See—*
- Sager, Gunter, and Sowers. 2,932,013.
- Sowerwine, Elbert O., Jr., to M. H. Gwynn. Three stage hydrosulfurization process employing nickel catalyst. 2,921,022, 1-12-60, Cl. 208—210.
- Sowinski, Francis A.: *See—*
- Yale, Harry L., and Sowinski. 2,931,810.
- Sowinski, Francis A., W. A. Lott, and J. Bernstein, to Olin Mathieson Chemical Corp. Triamine derivatives. 2,951,092, 8-30-60, Cl. 260—553.
- Sowle, Theo J. Adjustable face guard bar. 2,954,564, 10-4-60, Cl. 2—9.
- Sowles, Jack R.: *See—*
- Iglehart, Richard L., and Sowles. 2,931,469.
- Sowter, Anthony B.: *See—*
- Knott, Ralph D., Sowter, and Young. 2,939,204.
- Soyck, Werner, and J. Herglotz. Dielectric containing barium metatitanate. 2,955,946, 10-11-60, Cl. 106—39.
- Space Decks Ltd.: *See—*
- Bolton, John, and Hennessey. 2,939,554.
- Spacht, Ronald B., to The Goodyear Tire & Rubber Co. Synergistic antioxidants. 2,945,001, 7-12-60, Cl. 260—45.95.
- Spadaro, Peter R., and P. C. Holden, to United States of America, Air Force. Variable thrust gas turbine engine. 2,921,434, 1-19-60, Cl. 60—35.6.
- Spademan, Charles F., to Toledo Scale Corp. Auxiliary load mechanism for weighing scales. 2,944,808, 7-12-60, Cl. 265—5.
- Spademan, Charles F., and K. F. Wetzel, to Toledo Scale Corp. Load measuring device. 2,930,227, 3-29-60, Cl. 73—141.
- Spademan, Charles F.: *See—*
- Bell, Robert E., and Spademan. 2,945,166.
- Spaetgens, Theodore W. Vibration mounting. 2,929,592, 3-22-60, Cl. 248—21.
- Spaeth, Charles E., to United Aircraft Corp. Turbine disc burst inhibitor. 2,965,355, 12-20-60, Cl. 253—77.
- Spaeth, Irvin J., to Chicago Railway Equipment Co. Railway brake beam. 2,947,389, 8-2-60, Cl. 188—229.1.
- Spaeth, Irvin J., to Chicago Railway Equipment Co. Brake beam structure. 2,946,410, 7-26-60, Cl. 188—219.6.
- Spafa, spojene farmaceuticke zavody, narodni podnik: *See—*
- Sekera, Ales, Palat, Borovansky, and Sova. 2,933,519.
- Spafford, Hildreth A. Hose clamp. 2,958,549, 11-1-60, Cl. 285—243.
- Spafford, Ralph W.: *See—*
- Rubenstein, Carl R., and Spafford. 2,925,787.
- Spain, Virginia R. Cleansing pad. 2,924,049, 2-9-60, Cl. 51—186.
- Spak, Emil C.: *See—*
- Szpak, Emil C. 2,933,311.
- Spalding, A. G., & Bros., Inc.: *See—*
- Marciniak, Emil J. 2,936,248.
- Spalding, Charles W., W. H. West, and B. E. Nixon, to General Motors Corp. Power system. 2,956,405, 10-18-60, Cl. 60—51.
- Spalding, David P., and R. V. Mackey, Jr., to General Electric Co. Treated highway surfaces. 2,937,580, 5-24-60, Cl. 94—22.
- Spalding, Donald H., to The Dow Chemical Co. Method of controlling slime by treating with a 2-allyl-chlorophenol. 2,922,736, 1-26-60, Cl. 162—161.
- Spalding, Dudley B. Apparatus for the simulation of combustion. 2,930,226, 3-29-60, Cl. 73—116.
- Spalding, Dudley B. Pressure exchangers. 2,940,656, 6-14-60, Cl. 230—69.
- Spalding, Dudley B., to National Research Development Corp. Combustion apparatus having a flame stabilizing baffle. 2,941,361, 6-21-60, Cl. 60—39.72.
- Spalding, Dudley B., to National Research Development Corp. Baffle arrangement for combustion equipment. 2,947,143, 8-2-60, Cl. 60—39.72.
- Spalding, Dudley B. Pressure exchanger apparatus. 2,952,982, 9-20-60, Cl. 62—6.
- Spalding, Dudley B. Pressure exchangers. 2,952,986, 9-20-60, Cl. 62—38.
- Spalding, Dudley B. Pressure exchanger with regenerative heat exchanger. 2,962,272, 11-29-60, Cl. 263—19.
- Spalek, Adolph T. Marking device. 2,963,337, 12-6-60, Cl. 346—140.
- Spaller, Albert L., to General Electric Co. Base making machine. 2,957,276, 10-25-60, Cl. 49—5.
- Span, John J. Method and apparatus for descaling a rod. 2,928,164, 3-15-60, Cl. 29—81.
- Spang, Carl F., and W. E. Lazott, to Needham Mfg. Co. Inc. Guillotine knife assembly. 2,920,342, 1-12-60, Cl. 17—32.
- Spang, William F., to Needham Mfg. Co. Inc. Strip severing mechanism. 2,948,016, 8-9-60, Cl. 17—32.
- Spangenberg, Charles B.: *See—*
- Weisberg, Sydney R., and Spangenberg. 2,934,701.
- Spangenberg, Wesley.: *See—*
- Bailey, Emmett C., and Spangenberg. 2,959,066.
- Spangler, Bernard. Display-sign indicia. 2,923,080, 2-2-60, Cl. 40—130.
- Spangler, Carl D., Jr., and L. L. Laurence, to Black, Sivalls & Bryson, Inc. Method of processing gas. 2,951,347, 9-6-60, Cl. 62—20.
- Spangler, Carleton D. Apparatus for producing an insulated stream of hot fluid. 2,933,296, 4-19-60, Cl. 263—19.
- Spangler, Edwin L., Jr. Electric razor safety strap. 2,962,197, 11-29-60, Cl. 224—28.
- Spangler, James O. Television information device. 2,954,429, 9-27-60, Cl. 178—75.
- Spangler, William B., to United States of America, Army. Connector structure for sectional material. 2,942,535, 6-28-60, Cl. 94—13.
- Spann, Delroy O., to Delta Tank Mfg. Co., Inc. Mist extractor with safety by-pass. 2,925,878, 2-23-60, Cl. 183—2.7.
- Spannello, Charles.: *See—*
- Floyd, James J., and Spannello. 2,963,839.
- Spannhake, Ernst W.: *See—*
- Cashman, Walter D., and Spannhake. 2,961,893.
- Clark, Ralph B., and Spannhake. 2,950,634.
- Spannhake, Ernst W., to LeTourneau-Westinghouse Co. Power transmission device. 2,961,892, 11-29-60, Cl. 74—574.
- Spano, Anthony T. Razor hone with magnetic body. 2,948,167, 8-9-60, Cl. 76—82.
- Sparke, Maurice B.: *See—*
- Pethrick, Samuel R., Sparke, and Critchley. 2,937,996.
- Sparkes, Philip, to United Shoe Machinery Corp. Loop spreader for lacing machine. 2,963,721, 12-13-60, Cl. 12—58.5.
- Sparkle-Lite, Inc.: *See—*
- Tucker, Thomas A. 2,954,461.
- Sparkler Mfg. Co.: *See—*
- Passalacqua, Frank H. 2,936,093.
- Sparklets Ltd.: *See—*
- Bridges, George. 2,965,100.
- Sparklin, Charles H., to Whirlpool Corp. Cord reel. 2,949,251, 8-16-60, Cl. 242—86.5.
- Sparks, Verner W., and D. A. Jensen, to United States of America, Army. Stacking superstructure for pallets. 2,926,793, 3-1-60, Cl. 248—120.
- Sparks-Withington Co.: *See—*
- Best, Cleafe A., Jr., and Chow. 2,958,307.
- Sparring, Clarence D. Bathtub safety rails. 2,931,051, 4-5-60, Cl. 4—185.
- Sparring, Earl L. Rigid cardboard gift boxes. 2,932,439, 4-12-60, Cl. 229—31.
- Sparrendahl, Gunnar E. W., to Telefonaktiebolaget L M Ericsson. Electronic register. 2,948,781, 8-9-60, Cl. 179—18.
- Sparrow, Donald B., to Arthur D. Little, Inc. Pulping process. 2,958,622, 11-1-60, Cl. 162—71.
- Sparrow, Earl A.: *See—*
- Smith, Larro A., and Sparrow. 2,921,690.
- Sparrow, George B.: *See—*
- Beebe, Stanley J. 2,959,321.
- Spars, Byron, H. J. Zoeller, and B. J. Sutker, to Esso Research and Engineering Co. Refining of microcrystalline wax. 2,956,001, 10-11-60, Cl. 208—27.
- Spase, Charles B., to Lipe-Rollway Corp. Speed torque metering arrangement with thermal control, thermal unit therefor and method of making said unit. 2,924,083, 2-9-60, Cl. 64—30.
- Spath, Catherine M.: *See—*
- Schwan, Judith A., and Spath. 2,950,970.
- Spath, Catherine M., to Eastman Kodak Co. Mercapto heterocyclic addenda for reversal color development. 2,956,876, 10-18-60, Cl. 96—22.
- Spatz, Walter B. Marking pencil. 2,941,508, 6-21-60, Cl. 120—15.



- Spaude, Siegfried: *See*—  
Bernhauer, Konrad, Friedrich, Gross, and Spaude. 2,943,983.
- Spaulding, Earl H., to L. B. Evans, Son Co. Method of making turned slippers. 2,946,070, 7-26-60, Cl. 12-142.
- Spaulding, John O., to General Colloidal Carbon, Inc. Burner construction. 2,922,470, 1-26-60, Cl. 158-114.
- Spaulding, Lucian B.: *See*—  
Coleman, Lester L., Shane, and Spaulding. 2,954,321.
- Spaulding, Raymond L.: *See*—  
Wittnebert, Frederick R., Spaulding, and Lawton. 2,935,044.
- Spaulding, Robert A., to General Motors Corp. Electroless nickel plating bath control. 2,955,944, 10-11-60, Cl. 106-1.
- Spaulding, Roy H., to The Aro Equipment Corp. Liquid oxygen converter. 2,958,204, 11-1-60, Cl. 62-51.
- Spayth, George W. Devices for the straightening of bent parking meter posts. 2,936,809, 5-17-60, Cl. 153-39.
- Speak, John, to Prince-Smith & Stells Ltd. Package-doffing mechanism for textile winding apparatus. 2,925,961, 2-23-60, Cl. 242-54.4.
- Speakman Co., The: *See*—  
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Fraser, James. 2,948,800.  
Fraser, James. 2,948,477.  
Fraser, James, and McLean. 2,939,487.
- Speakman, Raymond H., to Imperial Chemical Industries Ltd. Treatment of yarns. 2,955,409, 10-11-60, Cl. 57-34.5.
- Speakman, Raymond H., and J. Robinson, to Imperial Chemical Industries Ltd. Apparatus for melt spinning. 2,932,062, 4-12-60, Cl. 18-8.
- Speaks, John: *See*—  
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- Spear, Gilmore M., to The Gleason Works. Rotary cutter for gears and the like. 2,947,062, 8-2-60, Cl. 29-105.
- Spear Products, Inc.: *See*—  
Wolfe, Robert A. 2,948,537.
- Spear, Ward G., to United States of America, Atomic Energy Commission. Scintillation exposure rate detector. 2,958,779, 11-1-60, Cl. 250-71.5.
- Spears, Morton F.: *See*—  
Sherman, Ralph H., Jr., and Spears. 2,951,912.
- Spears, Morton F. Device for manifesting thermal boundaries. 2,930,232, 3-29-60, Cl. 73-295.
- Spears, Richard W.: *See*—  
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- Spechler, Daniel S., to Keuffel & Esser Co. Cartographic material. 2,943,936, 7-5-60, Cl. 96-75.
- Specht, Charles A., to Minerals & Chemicals Corp. of America. Tobacco composition and smoking unit containing material for eliminating deleterious matter. 2,938,818, 5-31-60, Cl. 131-17.
- Specht, Otto E., and R. S. Boyd, to Godfrey L. Cabot, Inc. Rotary valve. 2,938,651, 5-31-60, Cl. 222-338.
- Special Machine Co.: *See*—  
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- Specialized Electrical Products Co.: *See*—  
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- Specialties Development Corp.: *See*—  
Barnes, Charles H. 2,946,389.  
Bowman, Robert W., Riuli, and Schrank. 2,926,731.  
Dennis, David H. 2,944,684.  
Flynn, Thomas J., and Sylvester. 2,945,942.  
Grant, Harry C., Jr. 2,935,135.  
Hannant, Theodore N., and Wismar. 2,937,846.  
Heigis, Henry E., and Kalisher. 2,949,274.  
Klein, Clifford J. 2,946,990.  
March, John O., and Seed. 2,926,836.  
Morgan, Carrel B. 2,943,706.  
Olson, Walter J. 2,938,529.  
Parsons, Floyd B. 2,926,937.  
Quall, Bernard W. 2,938,704.  
Sylvester, Walter G. 2,952,633.
- Specialties, Inc.: *See*—  
Bucalo, Louis. 2,938,409.  
Tuttle, Clifton M. 2,930,302.  
Tuttle, Clifton M. and N. R., and Brown. 2,922,352.  
Ward, John W. 2,960,920.
- Specialty Mfg. Co., The: *See*—  
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Anderson, Arthur A. 2,929,406.  
Anderson, Arthur A. 2,935,996.
- Specialty Products Corp.: *See*—  
Skelly, James J. 2,940,151.  
Skelly, James J. 2,941,273.
- Speckinger, Henry F. A. Universal timepiece. 2,919,536, 1-5-60, Cl. 58-43.
- Speckman, William F., to Renaire Corp. Meat cut washing and glazing machine. 2,940,458, 6-14-60, Cl. 134-63.
- Speco, Inc.: *See*—  
Hess, Charles W. 2,955,489.  
Hess, Charles W. 2,955,490.
- Spector, Clarence J.: *See*—  
Doucette, Edward I., and Spector. 2,964,648.
- Spector, Novera H. Tub enclosures. 2,929,074, 3-22-60, Cl. 4-149.
- Spectrol Electronics Corp.: *See*—  
Dean, Edward K. 2,922,958.  
Schultz, Robert T. 2,931,991.
- Spedding, Frank H.: *See*—  
Carlson, Oscar N., Schmidt, and Spedding. 2,950,962.
- Spedding, Frank H., and H. A. Wilhelm, to United States of America, Atomic Energy Commission. Nuclear fuel composition. 2,938,784, 5-31-60, Cl. 75-122.7.
- Spedding, Frank H., and J. E. Powell, to United States of America, Atomic Energy Commission. Method of separating rare earths by ion exchange. 2,956,858, 10-18-60, Cl. 23-22.
- Speed-Feed Machine Corp.: *See*—  
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- Speed-Park, Inc.: *See*—  
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Kroll, Cornelius and N. M. 2,945,602.  
Kroll, Cornelius and N. M. 2,945,604.
- Speedac, Inc.: *See*—  
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- Speedie, John D., and G. W. Hull, to The Distillers Co. Ltd. Cobalamin producing fermentation process. 2,951,017, 8-30-60, Cl. 195-96.
- Speedway Foods Co.: *See*—  
Gartner, John H., Bushfield, and Cooley. 2,953,080.
- Speelman, Daniel L. Oscillator. 2,949,298, 8-16-60, Cl. 272-1.
- Speelman, Irving A., to Propper Mfg. Co., Inc. Sphygmomanometers. 2,934,061, 4-26-60, Cl. 128-205.
- Speen, Gerald B.: *See*—  
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- Speer Carbon Co.: *See*—  
Arelt, Eugene G. 2,966,115.  
Hund, Ralph, and Wirsig. 2,941,828.  
Morelli, Gino W. 2,941,829.
- Speer, Charles E.: *See*—  
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- Speer, Cleaver C., and W. W. Frank, to Curtiss-Wright Corp. Method of making hollow blades for turbine engines. 2,944,327, 7-12-60, Cl. 29-156.8.
- Speer Filler Strip Co.: *See*—  
Speer, Paul. 2,950,057.
- Speer, Horst, to Ernst Heinkel Aktiengesellschaft. Three-way-delivery cock with automatic ventilation, especially for fuel. 2,964,056, 12-13-60, Cl. 137-589.
- Speer, Paul, to Speer Filler Strip Co. Rail crossing. 2,950,057, 8-23-60, Cl. 238-8.
- Speer, William S.: *See*—  
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- Spees, Arthur T. Tear tape. 2,952,395, 9-13-60, Cl. 229-51.
- Speeter, Merrill E.: *See*—  
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- Speicher, William, to General Electric Co. Locomotive. 2,942,558, 6-28-60, Cl. 105-172.
- Speidel Corp.: *See*—  
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Maeder, Paul F. 2,945,692.  
Maeder, Paul F. 2,945,697.  
Maeder, Paul F. 2,949,784.
- Speier, John L., to Dow Corning Corp. Organosiloxane alcohols. 2,924,588, 2-9-60, Cl. 260-46.5.
- Speier, John L., to Dow Corning Corp. Compositions and method for curing hydroxy hydrocarbyl substituted siloxane resins. 2,925,402, 2-16-60, Cl. 260-46.5.
- Speight, Francis R.: *See*—  
Lotarski, Stephen P., and Speight. 2,933,744.
- Speight, Wesley Y., to Westinghouse Air Brake Co. Railway signaling systems. 2,939,948, 6-7-60, Cl. 246-34.
- Speights, Gale. Sprinkling fence. 2,940,466, 6-14-60, Cl. 137-356.
- Speisman, Camille, to Allis-Chalmers Mfg. Co. Double acting cam follower. 2,925,091, 2-16-60, Cl. 137-312.
- Spelbrink, Frank B.: *See*—  
Galley, Hollis T., and Spelbrink. 2,936,559.
- Speller, Jack B., to United Aircraft Corp. Unity gain amplifier. 2,920,279, 1-5-60, Cl. 330-70.
- Spellman, Floyd E., Jr., to E. I. du Pont de Nemours and Co. Process of treating undrawn polyester yarns and filaments. 2,942,325, 6-28-60, Cl. 28-72.
- Spelman, Rollin H.: *See*—  
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- Spence, Alburton B.: *See*—  
Kulick, Frederick, McGrath, and Spence. 2,924,333.
- Spence, Elbert R.: *See*—  
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- Spence, Gerald M., to Monolith Portland Midwest Co. Rotary kilns. 2,921,779, 1-19-60, Cl. 263-32.
- Spence, Henry D.: *See*—  
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- Spence, John: *See*—  
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Carroll, Burt H., Jones, and Spence. 2,950,196.  
Jones, Jean E., Spence, and Van Allan. 2,937,089.
- Spence, John A., to California Research Corp. Separation of meta-xylene from isomeric xylene mixtures. 2,943,121, 6-28-60, Cl. 260-674.
- Spence, Paulsen: *See*—  
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- Spence, Paulsen. Refrigeration machine. 2,952,136, 9-13-60, Cl. 62-148.
- Spence, Robert A.: *See*—  
Reid, John B., and Spence. 2,948,001.
- Spence, Robert S., to Cosmocord Ltd. Electro-mechanical transducers. 2,938,966, 5-31-60, Cl. 179-100.41.



- Spence, Robert S., to Cosmocord Ltd. Locking device for phonograph pickup arm. 2,940,762, 6-14-60, Cl. 274-1.
- Spence, Thomas C., and S. A. Murdock, to The Dow Chemical Co. Treating synthetic fibers with acetylenic glycols. 2,935,426, 5-3-60, Cl. 117-138.8.
- Spencer, Arthur J., to The British Tabulating Machine Co. Ltd. Magnetic core storage devices. 2,951,239, 8-30-60, Cl. 340-174.
- Spencer, Arthur J., to International Computers and Tabulators Ltd. Data storage apparatus. 2,963,686, 12-6-60, Cl. 340-174.
- Spencer, Boyd L.: *See*—
- Spencer, Charles O. and B. L. 2,949,901.
- Spencer, Charles O. and B. L. Internal combustion engines. 2,949,901, 8-23-60, Cl. 123-41.82.
- Spencer Chemical Co.: *See*—
- Epperly, Jean R., Zeisig, Hopkins, and Neighbors. 2,920,994.
- Hoffmann, Otto L. 2,947,660.
- Hopkins, Thomas R., Neighbors, and Hoffmann. 2,957,800.
- Hopkins, Thomas R. and Strickler. 2,947,661.
- Pullen, Joe W., Neighbors, Clark, Hoffmann, and Meunier. 2,951,786.
- Spencer, Clarence. Hydraulic pump, driving motor and reservoir combination. 2,930,322, 3-29-60, Cl. 103-43.
- Spencer, Claude: *See*—
- Walton, Edward, and Spencer. 2,966,484.
- Spencer, David P., to Imperial Chemical Industries of Australia and New Zealand Ltd. Composition and method for coating polyester or polyamide fabrics, and fabrics coated thereby. 2,956,903, 10-18-60, Cl. 117-78.
- Spencer, Donnell. Harvesting machine for fruit and nuts. 2,928,225, 3-15-60, Cl. 56-328.
- Spencer, Edward G., R. D. Hatcher, and F. Reggia, to United States of America, Army. Microwave energy radiators. 2,961,658, 11-22-60, Cl. 343-768.
- Spencer, Eugene G. Liquefied petroleum fuel system for internal combustion engines. 2,933,076, 4-19-60, Cl. 123-120.
- Spencer, Everett H.: *See*—
- Stokes, Edward D., and Spencer. 2,943,042.
- Spencer, Frank R., to American Cyanamid Co. Mixture of an oil modified alkyl composition, a polyacrylamide and a resinous reaction product of an alkylene oxide adduct with a polyhydric alcohol. 2,965,588, 12-20-60, Cl. 260-22.
- Spencer, Frank W., to United Shoe Machinery Corp. Heel attaching machines. 2,943,329, 7-5-60, Cl. 1-141.
- Spencer, Glenn S., to Bendix Aviation Corp. Pendulous rotatable bobbin support for spinning frames and the like. 2,940,684, 6-14-60, Cl. 242-130.2.
- Spencer, Glenn S., to Bendix Aviation Corp. Two speed hub for velocipedes and the like. 2,944,443, 7-12-60, Cl. 74-750.
- Spencer, Gordon R.: *See*—
- Barnett, Guy F., and Spencer. 2,927,233.
- Barnett, Guy F., Spencer, Baghurst, and Pratt. 2,950,406.
- Spencer, Howard F. Cover operating mechanism for soaking pits. 2,920,769, 1-12-60, Cl. 212-4.
- Spencer, Howard F. Operating mechanism for soaking pit covers. 2,936,906, 5-17-60, Cl. 212-4.
- Spencer, James R.: *See*—
- Kilpatrick, Robert H., and Spencer. 2,935,312.
- Spencer, Kenneth M.: *See*—
- Hayden, Edward L., and Spencer. 2,954,067.
- Spencer, Michael S., to Imperial Chemical Industries Ltd. Selective hydrogenation of acetylenes to olefines. 2,966,534, 12-27-60, Cl. 260-683.
- Spencer, Raymond M. Seat adjusting mechanism. 2,965,156, 12-20-60, Cl. 155-91.
- Spencer, Richard W.: *See*—
- Eckert, John P., Jr., and Spencer. 2,921,193.
- Spencer, Richard W., to Sperry Rand Corp. Method of making magnetic toroids. 2,945,289, 7-19-60, Cl. 29-155.57.
- Spencer, Richard W., to Sperry Rand Corp. Transformer coupling circuits. 2,950,441, 8-23-60, Cl. 328-221.
- Spencer, Richard W., and T. H. Bonn, to Sperry Rand Corp. Supports for magnetic cores. 2,963,670, 12-6-60, Cl. 336-198.
- Spencer, Rolf E.: *See*—
- Dudman, Sidney C., Le May, Spencer, and Stephenson. 2,928,604.
- Spencer, Rolf E., to Electric & Musical Industries Ltd. Rate evaluating apparatus. 2,949,232, 8-16-60, Cl. 235-183.
- Spencer, Rolf E., to Electric & Musical Industries Ltd. Quadratic interpolating devices. 2,950,864, 8-30-60, Cl. 235-197.
- Spencer, Rolf E., and F. C. Wolfendale, to Electric & Musical Industries Ltd. Automatic control mechanism and interpolating devices therefor. 2,929,555, 3-22-60, Cl. 235-151.
- Spencer, Rolf E., and R. Voles, to Electric & Musical Industries Ltd. Control devices for automatic machine tools. 2,961,161, 11-22-60, Cl. 235-197.
- Spencer, Royce L., R. S. Cannell, and W. B. Shaffer. Occupant propelled vehicle with passenger support. 2,928,682, 3-15-60, Cl. 280-202.
- Spencer-Safford Loadcraft, Inc.: *See*—
- Benson, William C. 2,941,816.
- Benson, William C. 2,941,817.
- Spencer, Stephen L. Foldable camping trailer having upper and lower telescopically related housing sections. 2,920,919, 1-12-60, Cl. 296-23.
- Spencer Turbine Co., The: *See*—
- Walker, Kendall L. 2,932,444.
- Spengler, Donald F.: *See*—
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- Spengler, Gunter. Method and addition compounds for separating olefines from mixtures. 2,953,611, 9-20-60, Cl. 260-677.
- Spengler, Robert H., and T. F. Brolund, to W. A. Whitney Mfg. Co. Clip punch. 2,964,829, 12-20-60, Cl. 29-21.1.
- Speno, Martin J., and A. T. Bruno. Rake type unloading mechanism. 2,951,692, 9-6-60, Cl. 262-8.
- Sperber, Andrew O., to Sperry Rand Corp. Apparatus for radio beam guidance of a mobile craft. 2,945,225, 7-12-60, Cl. 343-107.
- Sperber, Harold H. Storage batteries and fluids therefor. 2,946,707, 7-26-60, Cl. 136-154.
- Sperber, Heinrich: *See*—
- Becke, Friedrich, Sperber, Stummeyer, and Adolphi. 2,929,760.
- Spergel, Philip: *See*—
- Chope, Wilbert E., Lowman, and Spergel. 2,960,268.
- Radley, Sidney A., and Spergel. 2,954,775.
- Radley, Sidney A., and Spergel. 2,965,300.
- Spergel, Philip, and S. A. Radley, to Industrial Nucleonics Corp. Control system. 2,955,206, 10-4-60, Cl. 250-83.3.
- Spergel, Philip, and D. A. Bossen, to Industrial Nucleonics Corp. Density control apparatus. 2,959,932, 11-15-60, Cl. 62-136.
- Šperlin, Miroslav: *See*—
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- Sperling, Theodore F., to Essick Mfg. Co. Blower housing. 2,966,297, 12-27-60, Cl. 230-128.
- Spero, George B.: *See*—
- Lincoln, Frank H., Schneider, and Spero. 2,928,852.
- Lincoln, Frank H., Jr., Schneider, Spero, and Thompson. 2,963,497.
- Magerlein, Barney J., Thompson, and Spero. 2,920,085.
- Spero, George B., to The Upjohn Co. 6-methyl-9a fluoro derivatives of hydrocortisone and cortisone and 21-esters thereof. 2,928,851, 3-15-60, Cl. 260-397.45.
- Spero, George B., to The Upjohn Co. 11-oxygenated-6-methyl-9a-fluoro-pregnadienes and esters thereof. 2,964,542, 12-13-60, Cl. 260-397.45.
- Spero, John J., ½ to L. L. Marraffino. Stripping device. 2,925,939, 2-23-60, Cl. 222-145.
- Spero, John J. Dispenser for dispensing a plurality of materials. 2,926,818, 3-1-60, Cl. 222-135.
- Spero, Raymond P.: *See*—
- Class, Charles R., Spero, and McIntosh. 2,937,076.
- Speros, Dimitrios M.: *See*—
- Davis, Paul B., O'Neill, Slomski, and Speros. 2,957,231.
- Sperouleas, Theodore H. J. Medicated tissue. 2,933,431, 4-19-60, Cl. 167-84.
- Sperri, Charles J., Jr., to Warner Electric Brake & Clutch Co. Magnetic friction clutch with stationary field. 2,937,729, 5-24-60, Cl. 192-84.
- Sperry, Albert F., to Panellit, Inc. Pressure transducer system. 2,935,740, 5-3-60, Cl. 340-182.
- Sperry, Chester C.: *See*—
- Smith, William R., and Sperry. 2,940,312.
- Sperry Gyroscope Co. Ltd., The: *See*—
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- Glenny, Arthur P., and Cotton. 2,960,874.
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- Hadekel, Ruben. 2,953,325.
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- Sedgfield, Hugh B. 2,948,157.
- Sedgfield, Hugh B. 2,953,027.
- Sedgfield, Hugh B. 2,953,303.
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- Sedgfield, Hugh B., and Lennox-Napier. 2,949,261.
- Sedgfield, Hugh B., and Whalley. 2,939,322.
- Sharpe, Archibald W., and Errington. 2,925,782.
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- Sperry, Leonard J.: *See*—
- Magnusson, Arthur F., Marks, and Sperry. 2,966,608.
- Sperry Products, Inc.: *See*—
- Cowan, Gerald de G., Laurenson, and Van Hemert. 2,925,552.
- Cowan, Gerald de G., Laurenson, and Van Hemert. 2,958,818.
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- Sperry Rand Corp.: *See*—
- Barber, Basil T. 2,943,303.
- Berky, Richard K. 2,957,715.
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- Blain, Albert. 2,946,976.
- Blain, Albert. 2,958,014.
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- Bolton, Robert H. 2,949,576.
- Bonn, Theodore H. 2,959,684.
- Bonn, Theodore H. 2,960,681.
- Bonn, Theodore H. 2,966,662.
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- Bonn, Theodore H., and Eckert. 2,966,597.
- Bonn, Theodore H., and Lawrence. 2,931,016.



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 Caldwell, Joseph J., Jr. 2,952,014.  
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 Chadwick, Joseph H., Jr., and Bentkowsky. 2,960,959.  
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 Crosman, Loring P. 2,939,758.  
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 Crowther, George A. 2,923,466.  
 Curry, Robert S., Jr. 2,948,494.  
 Dayton, Edward R. 2,946,053.  
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 Degener, Louis F. 2,948,940.  
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 Gates, Lauren W. 2,938,322.  
 Greenfield, Milton H. 2,946,048.  
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 Hess, John J., Jr. 2,941,163.  
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 Hudson, Kenneth. 2,946,020.  
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 Hutchinson, Irving N., Burns, and Friedheim. 2,961,203.  
 Israelson, Evert G. 2,930,468.  
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 Jackson, Donald E., and Williams. 2,932,025.  
 Jacobs, Bernard. 2,945,285.  
 Jessup, John M. 2,940,176.  
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 Jones, Grandville R., and Bentkowsky. 2,945,170.  
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 Miller, Harry, and Jude. 2,936,134.  
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 Palmer, Winslow. 2,930,892.  
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 Randise, Dominick. 2,943,267.  
 Rask, Eric H., Olson, and Reitsma. 2,956,545.  
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 Roggenstein, Edwin O. 2,930,471.  
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- Sperry, Russell L. Drilling fluids. 2,956,948, 10-18-60, Cl. 252-8.5.
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- Sperzel, Robert H., and G. A. Finger, to The Whitney Blake Co. and The Thomas & Betts Co. Cable connector. 2,952,830, 9-13-60, Cl. 339-88.
- Spetalnik, Max. Foundation garments. 2,963,022, 12-6-60, Cl. 128-439.
- Spex Industries, Inc.: *See—*  
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- Speziale, Angelo J., to Monsanto Chemical Co. Herbicidal use of alpha-chloroacetamides having heterocyclic substituents on the amide nitrogen. 2,929,702, 3-22-60, Cl. 71-2.5.
- Speziale, Angelo J., and E. G. Jaworski, to Monsanto Chemical Co. Fungicidal compositions comprising a 2-halo-4,6 bis (amino)-S-triazine. 2,959,519, 11-8-60, Cl. 167-33.
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- Spicer, George W., to I-T-E Circuit Breaker Co. Current transformer. 2,920,297, 1-5-60, Cl. 336-174.
- Spicer, Hugh C., and R. F. Hammond, to General Electric Co. Electric discharge device. 2,933,633, 4-19-60, Cl. 313-313.
- Spickelmire, Betty S.: *See—*  
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- Spickelmier Industries, Inc.: *See—*  
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- Spiegel, George W. Adjustable leg. 2,921,825, 1-19-60, Cl. 311-99.
- Spiegel, Inc.: *See—*  
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- Spiegel, Stanley S., and L. E. Thompson, to Radio Corp. of America. Frequency modulator. 2,932,803, 4-12-60, Cl. 332-24.
- Spiegler, Louis, to E. I. du Pont de Nemours and Co. Reduction process for preparing aromatic P-amino compounds. 2,947,781, 8-2-60, Cl. 260-518.
- Spiegler, Louis, to E. I. du Pont de Nemours and Co. Stabilization of organic isocyanates. 2,957,903, 10-25-60, Cl. 260-453.
- Spiekerman, Henry D.: *See—*  
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- Spielberg, Arnold M., and D. W. Evans, to Radio Corp. of America. Storage interrogation system. 2,951,234, 8-30-60, Cl. 340-172.5.
- Spielberger, Georg, and F. Mott, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of ethylene diamine. 2,922,818, 1-26-60, Cl. 260-583.
- Spielman, Abe. Spelling aid. 2,938,282, 5-31-60, Cl. 35-35.
- Spielman, James F.: *See—*  
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- Spielvogel, Walter, to A. Hasenberg. Cooking utensil for foaming liquids. 2,926,002, 2-23-60, Cl. 257-106.
- Spier, Henri L., and W. L. Wanmaker, to North American Philips Co., Inc. Production of tungsten from tungsten oxides. 2,966,406, 12-27-60, Cl. 75-5.
- Spiers, Rupert H.,  $\frac{1}{4}$  to W. H. Edwards. Coffee pot attachment for cream and sugar. 2,926,817, 3-1-60, Cl. 222-136.
- Spies, C. F., & Sohn: *See—*  
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- Spies, Gustav, and K. Stutz. Elevators. 2,958,796, 11-1-60, Cl. 310-95.
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- Spigelman, Irvin G., to Chicago Printed String Co. Article support. 2,942,771, 6-28-60, Cl. 229-52.
- Spijker, Peter V., and E. Sweet, to Shell Oil Co. Blended gasolines. 2,939,832, 6-7-60, Cl. 208-79.
- Spike, Clark G., to The Standard Oil Co. Glycol pyroborates. 2,961,459, 1-22-60, Cl. 260-462.
- Spiller, Charles A., Jr., R. H. Baldwin, and C. D. Kalfadelis, to Standard Oil Co. Continuous oxidation system for producing carboxylic acids. 2,962,361, 11-29-60, Cl. 23-260.
- Spillmann, Werner, and K. Oechslein, to Escher Wyss Aktiengesellschaft. Compressor group with intercooler. 2,925,954, 2-23-60, Cl. 230-209.
- Spincraft, Inc.: *See—*  
Farley, George F. 2,928,372.
- Spindel-Motoren- und Maschinenfabrik A.G.: *See—*  
Beerli, Karl. 2,942,919.
- Spindel, William: *See—*  
Taylor, Thomas I., and Spindel. 2,923,601.
- Spindler, Herbert P.: *See—*  
Rowe, George L., and Spindler. 2,926,926.  
Rowe, George L., and Spindler. 2,948,544.
- Spindler, Joseph C., to Zenith Radio Corp. Transformers. 2,947,957, 8-2-60, Cl. 336-61.
- Spindler, Norman J.: *See—*  
Peterson, Carl O., and Spindler. 2,943,903.
- Spindt, Roderick S., and D. R. Stevens, to Gulf Research and Development Co. Anti-varnish lubricating composition. 2,966,462, 12-27-60, Cl. 252-42.7.
- Spinelli, Frank P., and R. Castenschild, to Automatic Switch Co. Time delay relay circuit for engine-starting control. 2,938,127, 5-24-60, Cl. 290-36.
- Spingies, Erwin, and H. Rose, to Brunsviga Maschinenwerke Aktiengesellschaft. Apparatus for scanning perforated vouchers. 2,954,160, 9-27-60, Cl. 235-61.11.
- Spingies, Erwin, and H. Rose, to Brunsviga Maschinenwerke Aktiengesellschaft. Preadjustable control system for selecting, according to characteristics or numerical values, booking vouchers and the like as they are fed past the system. 2,960,225, 11-15-60, Cl. 209-111.
- Spingies, Erwin, and H. Rose, to Brunsviga Maschinenwerke Aktiengesellschaft. Apparatus for electrically transmitting decade counter tube results. 2,961,546, 11-22-60, Cl. 250-208.
- Spining, Arthur M., Jr., to E. I. du Pont de Nemours and Co. Process comprising washing rayon in cake form with an aqueous solution of a lower aliphatic aldehyde. 2,935,373, 5-3-60, Cl. 18-54.
- Spink, Donald R.: *See—*  
McCord, Andrew T., and Spink. 2,921,836.
- Spinks, Joseph M. Hand supinator. 2,929,375, 3-22-60, Cl. 128-25.
- Spinks, Joseph M. Physiological traction device. 2,954,026, 9-27-60, Cl. 128-75.
- Spinner, Isidore. Machine for rolling plastic strips. 2,919,468, 1-5-60, Cl. 18-19.
- Spinnfaser Aktiengesellschaft: *See—*  
Bandel, Werner. 2,966,391.  
Wendlandt, Hans G., and Henrich. 2,961,413.
- Spinner, Wilhelm, J. Bruhin, A. Scharli, E. Huber, and W. Linder, to Albiswerk Zurich A.G. Infrared image converter tubes. 2,946,910, 7-26-60, Cl. 313-65.
- Spinrad, Bernard I., to United States of America, Atomic Energy Commission. Thermal neutronic reactor. 2,921,007, 1-12-60, Cl. 204-193.2.
- Spire, Etienne, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude. Device for insufflating gas into a mass of molten metal. 2,947,527, 8-2-60, Cl. 266-34.
- Spihl, Willy H., to Abegg & Reinhold Co. Power slip assembly. 2,939,683, 6-7-60, Cl. 255-23.
- Spiro, Murray, and G. Neimeth. Sheet feeding mechanism. 2,946,589, 7-26-60, Cl. 271-26.
- Spiselman, Phillip P. Method of brewing coffee. 2,926,088, 2-23-60, Cl. 99-71.
- Spitalny, Arnold: *See—*  
Abt, Clifford F., Miner, and Spitalny. 2,949,824.
- Spitler, Clem H., to Master Vibrator Co. Electric vibrator. 2,924,730, 2-9-60, Cl. 310-81.
- Spitler, Robert E., to General Telephone Laboratories, Inc. Sound control for telephone ringer. 2,929,351, 3-22-60, Cl. 116-149.
- Spitler, Robert E., to Automatic Electric Laboratories, Inc. Detachable wire wiper cord holder. 2,955,167, 10-4-60, Cl. 179-27.
- Spitz, Herbert. Shirt and blouse hangers with arm drapes. 2,959,332, 11-8-60, Cl. 223-94.
- Spitzer, Charles F., to General Electric Co. Non-linear resonance devices. 2,960,613, 11-15-60, Cl. 307-88.



- Spitzer, Joseph G., L. S. Nasarevich, J. L. Lange, and H. S. Bondi, to Carter Products, Inc. Mayonnaise product and method of manufacture. 2,944,906, 7-12-60, Cl. 99—144.
- Spitzer, Lawrence K. Self-propelled multi-purpose percussion unit. 2,928,322, 3-15-60, Cl. 94—49.
- Spitzmesser, Gordon. Combustible gas powered pogo stick. 2,929,459, 3-22-60, Cl. 180—8.
- Spitzmiller, Ervin R.: *See—*
- Pribyl, Edward J., and Spitzmiller. 2,964,556.
- Spitzmueller, Kurt H.: *See—*
- Young, Harland H., and Spitzmueller. 2,963,371.
- Sprack, John D., to Geigy Chemical Corp. Substituted aziridines. 2,931,804, 4-5-60, Cl. 260—239.
- Sprack, John D., and H. Kroll, to Geigy Chemical Corp. Condensation products of N-substituted dialkylenetriamines and orthohydroxy aromatic carbonyls. 2,928,876, 3-15-60, Cl. 260—566.
- Sprack, John D., and H. Kroll, to Geigy Chemical Corp. Process for preventing corrosion of ferrous metals and composition therefor. 2,952,635, 9-13-60, Cl. 252—8.55.
- Spivey, Walter F. Door mat. 2,919,456, 1-5-60, Cl. 15—215.
- Spodig, Heinrich. Power tool and magnetic motion converter for use therewith. 2,943,216, 6-28-60, Cl. 310—103.
- Spofa, spojeňé farmaceutické závody, národní podnik: *See—*
- Fučík, Karel. 2,938,039.
- Spohn, Karl, to Firma Index-Werke K.G. Hahn & Tesky. Machine tool transmission. 2,919,593, 1-5-60, Cl. 74—337.5.
- Spokes, Raymond E., and J. B. Kinzer, to American Brake Shoe Co. Friction elements. 2,951,280, 9-6-60, Cl. 29—182.5.
- Sponge Products Corp.: *See—*
- Greenleaf, Nathaniel E., and Reeve. 2,959,799.
- Spösel, Charles. Paper clip. 2,957,218, 10-25-60, Cl. 24—68.
- Spooner, Bernard, deceased, by P. Spooner and S. L. Atkins, executors, to P. Spooner. Protective hood. 2,946,062, 7-26-60, Cl. 2—3.
- Spooner Dryer & Engineering Co. Ltd., The: *See—*
- Spooner, William W. 2,955,696.
- Spooner, Howard E., to Engelhard Industries, Inc. Method of forming a blade root. 2,960,599, 11-15-60, Cl. 219—151.
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- Spooner, Bernard. 2,946,062.
- Spooner, William W., to The Spooner Dryer & Engineering Co. Ltd. Article separating mechanism. 2,955,696, 10-11-60, Cl. 198—30.
- Sporck, Claus L., and B. Sassen, to The Lodge & Shipley Co. Metal working. 2,932,890, 4-19-60, Cl. 29—544.
- Spore, Harold E.: *See—*
- Gilmore, Edward R., and Spore. 2,949,125.
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- Lange, Harold T. 2,922,292.
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- Owens, Alan. 2,924,079.
- Sporn, George A.: *See—*
- Eaton, William M., and Sporn. 2,943,901.
- Spoter, Amous H., 1/2 to G. H. Nelson. Planter. 2,961,981, 11-29-60, Cl. 111—85.
- Spotnails, Inc.: *See—*
- Crooks, Charles E., and Beckman. 2,928,094.
- True, Charles H., Jr. 2,921,314.
- Veenendaal, George J. 2,928,142.
- Spotten, Douglas L., and G. E. Hinderer, to United States of America, Air Force. Skein winding fixture for miniature skein-wound stators. 2,955,622, 10-11-60, Cl. 140—92.1.
- Spound, Albert M.: *See—*
- Martin, Joseph, and Spound. 2,958,374.
- Spound, Albert M. Automatic projecting headrest for reclining chairs. 2,947,347, 8-2-60, Cl. 155—107.
- Spound, Albert M., and J. Martin. Manual and automatically projectible headrest. 2,952,303, 9-13-60, Cl. 155—107.
- Spracklen, John G., to Zenith Radio Corp. Television receiver. 2,954,430, 9-27-60, Cl. 178—7.5.
- Spracklen, Stanford B., S. T. Martin, L. J. Rogers, C. W. Capehart, R. B. Fertig, and C. G. Fellows, to Union Carbide Corp. Selective infra-red gas analyzer. 2,933,600, 4-19-60, Cl. 250—43.5.
- Spragle, Thomas D., to ACF Industries, Inc. Bowl vent check valve. 2,920,877, 1-12-60, Cl. 261—42.
- Sprague, Arthur J. Couch. 2,932,038, 4-12-60, Cl. 5—62.
- Sprague Electric Co.: *See—*
- Bernard, Walter J., Markarian, and Ross. 2,932,153.
- Boisjolie, Ralph D. 2,924,870.
- Burke, Earl J. 2,955,773.
- Chertok, Sidney L. 2,939,095.
- Cushman, Norton. 2,921,281.
- Dornfeld, John E. 2,952,805.
- Eckdahl, Donald E., Sprague, Dobbins, Wilson, and Sarkissian. 2,954,166.
- Geiser, David T. 2,950,361.
- Lamphier, Walter C. 2,941,024.
- Lamphier, Walter C. 2,957,114.
- Lamphier, Walter C., Robinson, and Christopher. 2,923,977.
- Lehovec, Kurt. 2,929,923.
- Lehovec, Kurt. 2,942,110.
- Lehovec, Kurt. 2,953,759.
- Lehovec, Kurt, and Smyth. 2,954,417.
- Markarian, Moushy. 2,940,025.
- Millard, Richard J. 2,936,514.
- Sprague Electric Co.: *See—Continued*
- Nazewski, Mathew. 2,947,113.
- Ness, Odvar A. 2,937,348.
- Netherwood, Paul H. 2,930,714.
- Netherwood, Paul H. 2,938,153.
- Obenhaus, Victor M. 2,948,838.
- Peck, David B. 2,951,774.
- Peck, David B., and Robinson. 2,921,246.
- Petersen, Raymond C. 2,965,817.
- Petersen, Raymond C., Ross, and Kinkelstein. 2,965,690.
- Prokopowicz, Thomas L., Norton, and Brown. 2,966,420.
- Puppola, Henry F. 2,928,776.
- Purpura, Ernest, and Ruscito. 2,935,727.
- Robinson, Preston. 2,923,867.
- Robinson, Preston. 2,931,961.
- Robinson, Preston. 2,935,411.
- Robinson, Preston. 2,944,026.
- Robinson, Preston. 2,956,909.
- Robinson, Preston, and Peck. 2,935,668.
- Ross, Sidney D. 2,934,681.
- Ross, Sidney D. 2,965,816.
- Ross, Sidney D., and Allison. 2,935,667.
- Ross, Sidney D., Bernard, and Markarian. 2,941,946.
- Ruscito, Anthony J., and Lamoureux. 2,955,235.
- Ruscito, Anthony J., and May. 2,948,770.
- Schils, Alvin L. 2,940,127.
- Schwarz, Meyer, and Ross. 2,934,682.
- Smyth, Donald M., and Lehovec. 2,953,620.
- Sproull, Reavis C., and Hard. 2,934,686.
- Taylor, Walter H. 2,945,164.
- White, James A. 2,920,293.
- Williams, Sidney B. 2,949,182.
- Zuleeg, Rainer. 2,926,418.
- Sprague, Frank. Device for removing impurities from gases. 2,924,293, 2-9-60, Cl. 183—7.
- Sprague, Frank. Device for separating impurities from gases. 2,949,169, 8-16-60, Cl. 183—32.
- Sprague, Howard D. Milk line tension apparatus. 2,935,042, 5-3-60, Cl. 119—14.45.
- Sprague, James M., and E. L. Engelhardt, to Merck & Co., Inc. Substituted thioxanthenes. 2,951,082, 8-30-60, Cl. 260—328.
- Sprague Meter Co., The: *See—*
- Stewart, Charles W. 2,937,658.
- Whitworth, Fairchild. 2,932,198.
- Sprague, Richard E.: *See—*
- Eckdahl, Donald E., Donan, Wolfe, Sprague, Sarkissian, Isborn, and Wilson. 2,924,381.
- Mendleson, Myron J., Doig, and Sprague. 2,947,976.
- Sprague, Richard L.: *See—*
- Dyer, John W., and Sprague. 2,959,238.
- Sprague, Robert H.: *See—*
- De Stevens, George, and Sprague. 2,937,181.
- De Stevens, George, and Sprague. 2,937,183.
- Sprague, Robert H., to Sperry Rand Corp. 2-alkyl-6,7-dihydro-5-H-thiopyrano (3,2d) thiazole, quaternaries and process. 2,926,168, 2-23-60, Cl. 260—302.
- Sprague, Robert H., to Horizons Inc. Derivatives of thio-pyranthiazoles. 2,940,979, 6-14-60, Cl. 260—302.
- Sprague, Robert H., and D. R. Friello, to Sperry Rand Corp. Heat sensitive copy sheet. 2,940,866, 6-14-60, Cl. 117—36.
- Sprague, Stanley R.: *See—*
- Havely, Theodore W., Sprague, and Westcott. 2,961,408.
- Sprague, Theodore S., to The Babcock & Wilcox Co. Internal steam annulus within pressure shell for hydrocarbon reactor. 2,959,158, 11-8-60, Cl. 122—494.
- Sprando, Anthony E., to Iron Fireman Mfg. Co. Polarized relay. 2,931,872, 4-5-60, Cl. 200—93.
- Spranger, Paul B., to Bendix Aviation Corp. Saw-tooth wave generator. 2,923,890, 2-2-60, Cl. 331—131.
- Spranger, Paul B., and P. J. Vanous, to Bendix Aviation Corp. Pulse echo tracking system. 2,940,073, 6-7-60, Cl. 343—7.3.
- Sprinkle, Howard P.: *See—*
- Dotterer, Elmer E., Kantner, Sprinkle, and Van Gorder. 2,943,749.
- Spransy, George B.: *See—*
- Starck, Richard G., and Spransy. 2,929,105.
- Spraragen, Louis, to Automatic Locking Devices, Inc. Protective knob unit. 2,919,602, 1-5-60, Cl. 74—553.
- Spratt, George G., to Boeing Airplane Co. Method of operating a helicopter for towing. 2,952,421, 9-13-60, Cl. 244—3.
- Spratt, George G., to Boeing Airplane Co. Helicopter towing apparatus. 2,954,185, 9-27-60, Cl. 244—3.
- Spravka, Robert J. Drilling tool. 2,960,892, 11-22-60, Cl. 77—15.
- Spray Away Wash Systems, Inc.: *See—*
- Glazer, Morris, and Padek. 2,965,305.
- Spray Products Corp.: *See—*
- Orr, Charles F. 2,943,766.
- Orr, Charles F. 2,948,595.
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- O'Brien, Edward J., and Wahlin. 2,964,248.
- Wahlin, Fred W. 2,946,518.
- Wahlin, Fred W. 2,956,752.
- Spreeuwiers, Harm R.: *See—*
- Kessler, Jacob C. F., and Spreeuwiers. 2,959,570.
- Spremulli, Paul F.: *See—*
- Blanding, Wendell S., Foster, and Spremulli. 2,949,702.



- Spreng, Warren M., to The F. E. Myers & Bro. Co. Spray-  
ing machine. 2,925,222, 2-16-60, Cl. 239-172.
- Sprengeler, Donald F., to United States of America, Navy.  
Cathode ray tube color decoder system. 2,928,982, 3-15-60,  
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- Sprenkle, Raymond E., to Bailey Meter Co. Flow meter.  
2,929,248, 3-22-60, Cl. 73-198.
- Spring, John W.: *See—*  
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- Spring Products Developing Co.: *See—*  
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- Spring, Samuel: *See—*  
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- Springate, Norman C., to Canadian Forest Products Ltd.  
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- Springer, Clifford H.: *See—*  
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Morse, Henry E., Nelson, and Springer. 2,935,970.
- Springer, Don M. Beam bending machine. 2,947,344,  
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- Springer, Edward M., to Heyer Inc. Duplicating machine.  
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- Springer Edward M., and F. K. Moore, to Heyer Inc. Roll  
tensioning means for duplicating machines. 2,936,706,  
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- Springer, William E., and J. S. Michie, to The Reliance Elec-  
tric and Engineering Co. Automatic speed-varying control.  
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- Springfield Greene Industries Inc.: *See—*  
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- Sprinkle, Elbert P. Self-propelled corn topping device.  
2,958,175, 11-1-60, Cl. 56-25.4.
- Sprinkle, Lloyd S. Evacuating and sealing mechanism.  
2,921,422, 1-19-60, Cl. 53-80.
- Sproat, Kenneth A.: *See—*  
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- Sprock, Gottfried: *See—*  
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- Sproul, Stanley S., to Sperry Rand Corp. Radar indicating  
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- Sproule, John, to Superior Sleeprite and Spring Bed Corp.  
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- Sproule, Lorne W.: *See—*  
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- Sproule, Lorne W., J. H. Norton, and W. C. Pattenden, to  
Esso Research and Engineering Co. Oxidation-resistant  
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pounds of high alkalinity. 2,921,899, 1-19-60, Cl. 252-18.
- Sproule, Lorne W., and W. C. Pattenden, to Esso Research  
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- Sproule, Lorne W., and T. M. Rogers, to Esso Research and  
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2,946,749, 7-26-60, Cl. 252-28.
- Sproull, Reavis C., and H. G. Hard, Jr., to Sprague Electric  
Co. Low power factor capacitor. 2,934,686, 4-26-60, Cl.  
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- Sprouse, Clifton. Combination game table and game. 2,936-  
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- Sprouse, Lowell E., to Vernco Corp. Flat knit filter media.  
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- Sprout, Oliver S., Jr., to Pennsalt Chemicals Corp. Quater-  
nary ammonium and phosphoramidate ester attractants and  
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- Sprout, Waldron & Co., Inc.: *See—*  
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- Sprude, Edgar O.: *See—*  
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- Sprude, Edgar O., to Burroughs Corp. Mounting for mag-  
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- Sprunk, Claude P.: *See—*  
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- Spry, William J., Jr., and L. S. Singer, to Union Carbide  
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- Spurlin, William V., to Syntrol Co. Portable internal com-  
bustion percussion tools. 2,926,637, 3-1-60, Cl. 123-7.
- Spurlin, William V., to Link-Belt Speeder Corp. Diesel power  
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- Spurlin, William V., to Syntrol Co. Bowl feeder cutouts.  
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- Spurr, Robert A., and H. Myers, to Hughes Aircraft Co.  
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- Spurrier, Francis R., to A. V. Roe Canada Ltd. Hollow air  
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- Square D Co.: *See—*  
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- Squier, John P. Chart changers for recording instruments.  
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- Squillario, George F.: *See—*  
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- Squire, Edward N.: *See—*  
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- Squire, Herbert D., to Midwest Mfg. Corp. Refrigerator  
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- Squire, Herbert D., and H. C. Mather, to Midwest Mfg.  
Corp. Refrigerator door stop. 2,955,315, 10-11-60, Cl.  
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- Squires, Eugene B. Eaves trough. 2,943,421, 7-5-60, Cl.  
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- Squires, William K.: *See—*  
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- Sramek, Elmer D.: *See—*  
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Engleson, Harry E., and Sramek. 2,954,115.  
Engleson, Harry E., and Sramek. 2,959,335.  
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- Sramek, Elmer D., and W. H. Vogel, to F. B. Redington Co.  
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- Sreb, Jules H.: *See—*  
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- Srnka, Leonard J., to Square D Co. Two motor hoist control.  
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- Srofe, Jesse. Merchandising device. 2,959,276, 11-8-60,  
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- Sroog, Cyrus E.: *See—*  
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- Sroog, Cyrus E., to E. I. du Pont de Nemours and Co. Lami-  
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- Staab, Walter: *See—*  
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- Staak, Julius H., to General Electric Co. Motor mounting  
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- Staak, Julius H., to General Electric Co. Starting arrange-  
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- Staak, Louis E., to General Electric Co. Bearing lubricating  
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- Staake, Donal B.: *See—*  
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- Staar, Marcel J. H. Change-speed mechanism for phono-  
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- Staar, Marcel J. H., to Seeburg Corp. Phonographs. 2,946-  
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- Staar, Marcel J. H. Phonographic apparatus. 2,954,980,  
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- Stace, Walter L., and J. S. Allen. Reversing means for fluid  
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- Stach, Helen. Hot air register. 2,939,377, 6-7-60, Cl. 98-  
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- Stachiewicz, Bogdan R., to General Dynamics Corp. Fre-  
quency changing circuit. 2,922,960, 1-26-60, Cl. 332-47.
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- Stack, Alvin. Anti-skid device. 2,936,016, 5-10-60, Cl.  
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- Stackhouse, Wells F., to American Locker Co., Inc. Safety  
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- Stackhouse, Wells F., to American Locker Co., Inc. Locker  
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- Stacy, Thomas F., and M. C. Tribbett, to The French Oil Mill Machinery Co. Press. 2,926,412, 3-1-60, Cl. 25-56.
- Stadler, Hurter & Co.: See—
- Hurter, Alfred M. 2,935,993.
- Stadler, Karl H., to Georg Hufnagel Werkzeugfabrik. Compound tool. 2,944,323, 7-12-60, Cl. 29-95.
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- Stadthaus, Kurt R., M. Bobo, and R. H. Schaefer, to General Electric Co. Method of staking blades. 2,944,326, 7-12-60, Cl. 29-156.8.
- Stadtmeier, Leroy G., and L. J. Nason. Emergency brake system. 2,920,925, 1-12-60, Cl. 303-48.
- Stadum, Clarence B.: See—
- Hartwig, Edward C., Stadum, and Large. 2,962,631.
- Staebler, Lloyd A., to Philco Corp. Refrigeration. 2,964,920, 12-20-60, Cl. 62-60.
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- Staehle, Henry C.: See—
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- Staehlin, David H. Method and apparatus for grinding and polishing sheet glass. 2,949,707, 8-23-60, Cl. 51-60.
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- Staenle, Max, to Ciba Ltd. Perinone triazino dyestuffs. 2,949,467, 8-16-60, Cl. 260-249.5.
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- Stafford, Clifford L., to Chautauque Hardware Corp. Tilt-able mirror supports. 2,943,536, 7-5-60, Cl. 88-97.
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- Stafford, Joseph D., Jr.: See—
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- Leyland, Boris N., and Stafford. 2,923,753.
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- Staggs, Jesse D. Engine-speed indicating system. 2,926,303, 2-23-60, Cl. 324-70.
- Stagmeier, Arthur F., to General Foods Corp. Carton. 2,946,496, 7-26-60, Cl. 229-17.
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- Stahl, Dietrich: See—
- Karnath, Kurt G., K., and Stahl. 2,951,711.
- Stahl, Glenn W.: See—
- Hewett, James V., and Stahl. 2,942,027.
- Stahl, Glenn W., to Keen Mfg. Co., Inc. Shaft guard for lawn mowers. 2,940,241, 6-14-60, Cl. 56-25.4.
- Stahl, Nils E. J., and O. U. Larsson, to AB Almex. Method for marking period cards such as weekly or monthly period cards for railways, buses or the like and a device for carrying the method into effect. 2,945,432, 7-19-60, Cl. 101-66.
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- Stahl, Robert J.: See—
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- Stahl, Robert J., to Textron, Inc. Circuit testing apparatus. 2,950,437, 8-23-60, Cl. 324-73.
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- Stahl, William F., and H. T. Blair, Jr. Method of uniting telescoped tubes with a swelling agent. 2,925,624, 2-23-60, Cl. 18-59.
- Stahlecker, Fritz, to Wurtz Spindelfabrik G.m.b.H. Drawing mechanism for spinning machines. 2,964,805, 12-20-60, Cl. 19-151.
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- Stahlhut, Leo G., and W. R. Garnett, to Day-Brite Lighting, Inc. Lighting fixture lens mounting. 2,961,530, 11-22-60, Cl. 240-73.
- Stahlhuth, Paul H., to Sundstrand Corp. Spring assembly for relief valves. 2,964,310, 12-13-60, Cl. 267-1.
- Stahlwerk Kabel C. Poupier Jr. G.m.b.H.: See—
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- Stahmer, Bernhardt. Helicopter engine. 2,962,100, 11-29-60, Cl. 170-135.22.
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- Staines, Alfred J., to Harris-Intertype Corp. Sheet feeding apparatus. 2,950,913, 8-30-60, Cl. 271-26.
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- Stalego, Charles J., to Owens-Corning Fiberglas Corp. Apparatus for burning fluid combustible mixtures. 2,935,127, 5-3-60, Cl. 158-99.
- Stalego, Joseph P., to Owens-Corning Fiberglas Corp. Bonded fibrous insulation and method for manufacturing same. 2,931,738, 4-5-60, Cl. 117-126.
- Stalego, Joseph P., to Owens-Corning Fiberglas Corp. High temperature glass fiber insulation products and method for manufacturing same. 2,941,899, 6-21-60, Cl. 117-46.
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- Staley, A. E., Mfg. Co.: See—
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- Staley, William C., to Greenwood Engineering Co., Inc. Printer-slotters. 2,950,677, 8-30-60, Cl. 101-350.
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- Stalhuth, William B., to Western Electric Co., Inc. Reeling apparatus. 2,930,536, 3-29-60, Cl. 242-25.
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- Stalker, Edward A. 2,950,858.
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- Stalker, Edward A., to The Stalker Corp. Bladed wheels for axial flow machines. 2,925,248, 2-16-60, Cl. 253-39.
- Stalker, Edward A., to The Stalker Corp. Blades for compressors and turbines. 2,925,996, 2-23-60, Cl. 253-77.
- Stalker, Edward A. Axial flow compressors incorporating boundary layer control. 2,933,238, 4-19-60, Cl. 230-122.
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- Stalker, Edward A. Elastic fluid machine for increasing the pressure of a fluid. 2,952,403, 9-13-60, Cl. 230-120.
- Stalker, Edward A., Supersonic compressor with axially transverse discharge. 2,953,295, 9-20-60, Cl. 230-120.
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- Stalker, Edward A. Compressors. 2,956,732, 10-18-60, Cl. 230-122.
- Stalker, Edward A., to The Stalker Corp. Fluid turning wheels for compressors. 2,956,733, 10-18-60, Cl. 230-122.
- Stalker, Edward A., to The Stalker Corp. Vibration dampers for bladed wheels. 2,956,774, 10-18-60, Cl. 253-77.
- Stalker, Edward A., to The Stalker Corp. Fluid turning blades. 2,960,305, 11-15-60, Cl. 253-39.
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- Stallard, Ralph M., to General Motors Corp. Dielectric embossing. 2,948,929, 8-16-60, Cl. 18-56.
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- Stamm, Robert H., to Parsons Corp. Process for straightening metal spars for helicopter rotors. 2,951,525, 9-6-60, Cl. 153-35.
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 Jacobs, Robert B., and Rhodes. 2,935,590.  
 Jacobs, Robert B., Rhodes, and Lo Giurato. 2,939,312.  
 Johnson, Everett A. 2,933,135.  
 Juveland, Omar O., Friedlander, and Field. 2,932,633.  
 Karil, Robert E., Richardson, and Watson. 2,952,672.  
 Karil, Robert E., Sabol, and Richardson. 2,921,901.  
 Ke, Bacon, and H. N. Friedlander. 2,946,778.  
 Lamkin, John C. 2,930,443.  
 Leisey, Frank A. 2,928,774.  
 Leisey, Frank A. 2,928,775.  
 Leisey, Frank A. 2,928,782.  
 Linsk, Jack. 2,935,415.  
 Linsk, Jack. 2,938,778.  
 Linsk, Jack, and Todd. 2,936,225.  
 Little, Randel Q., Jr., and Watson. 2,963,432.  
 Little, Randel Q., Jr., and Watson. 2,963,433.  
 MacDonald, John M. 2,963,415.  
 Malloy, John B. 2,940,921.  
 Malo, Russell V., and Brennan. 2,939,848.  
 Marti, Paul O., Jr. 2,946,671.  
 Marti, Paul O., Jr. 2,946,672.  
 McCaulay, David A. 2,953,569.  
 Meguerian, Garbis H. 2,927,137.  
 Meyer, Delbert H., and Burney. 2,938,837.  
 Moore, Thomas M., and Corns. 2,943,999.  
 Morello, Edwin F., Proell, and Bowman. 2,942,962.  
 Muffat, Donald L., and Birmingham. 2,946,736.  
 Myerholtz, Ralph W., Jr. 2,966,401.  
 Myerholtz, Ralph W., Jr., and Burney. 2,920,065.  
 Nevitt, Thomas D. 2,934,498.  
 Nevitt, Thomas D. 2,935,470.  
 Nevitt, Thomas D. 2,963,427.  
 Peters, Edwin F., and Evering. 2,936,291.  
 Peters, Edwin F., and Evering. 2,963,447.  
 Pilar, Frank L., Friedlander, Juveland, and Field. 2,965,626.  
 Proell, Wayne A., and Bowman. 2,942,994.  
 Proell, Wayne A., Morello, Stanley, and Todd. 2,938,780.  
 Proell, Wayne A., and Stanley. 2,955,033.  
 Richards, Kurt F. 2,928,727.  
 Ries, Herman E., Jr. 2,963,437.  
 Ries, Herman E., Jr. 2,965,460.  
 Roebuck, Alan K., and Evering. 2,965,689.  
 Ryant, Charles J., Jr., and Kapff. 2,949,768.  
 Rylander, Paul N. 2,922,808.  
 Rylander, Paul N. 2,930,810.  
 Rylander, Paul N. 2,954,392.  
 Rylander, Paul N., and Nevitt. 2,952,596.  
 Sabol, Albert R. 2,965,569.  
 Sabol, Albert R., and Karil. 2,962,493.  
 Sand, Leonard B., Wygant, and Mecozzi. 2,956,019.  
 Sanders, William W., and Hengstebeck. 2,938,854.  
 Sanders, William W., and Hengstebeck. 2,941,928.  
 Sandri, Joseph M., and Fields. 2,960,554.  
 Schmauch, Lorenz J. 2,926,520.  
 Schmidt, John A. 2,928,753.  
 Schweitzer, Arthur W. 2,921,489.  
 Spiller, Charles A., Jr., Baldwin, and Kalfadelis. 2,962,361.  
 Stanley, James K., and Tisinal. 2,940,880.  
 Steel, Robert A. 2,930,764.  
 Stephens, James R. 2,960,509.  
 Sutton, Mack. 2,926,182.  
 Swakon, Edward A., and Van Strien. 2,954,409.  
 Tancig, William J. 2,932,779.  
 Thomson, William P. 2,923,679.  
 Thourson, Thomas L. 2,937,276.  
 Thourson, Thomas L., and Wilson. 2,937,275.  
 Tisinal, George F., Stanley, and Samans. 2,940,879.  
 Traise, Thornton, Hayne, and Bunting. 2,925,387.  
 Vander Haar, Roy W. 2,925,395.  
 Van Strien, Richard E. 2,955,979.  
 Voorhees, Vanderveer. 2,958,637.  
 Webb, Glenn M. 2,920,053.  
 Wennerberg, Arnold N. 2,929,770.  
 Wilson, William A., and Nevitt. 2,956,006.

Standard Oil Co. (Indiana): *See*—Continued

Wolff, William F., and Hill. 2,938,852.  
 Wuellner, James A., and Brannen. 2,965,572.  
 Wuellner, James A., and Watson. 2,965,571.  
 Young, Samuel, Jr. 2,954,354.  
 Young, Samuel, Jr., and Van Strien. 2,954,355.  
 Zimmerschied, Wilford J., and Rylander. 2,921,081.

Standard Oil Co. (Ohio), The: *See*—  
 Alford, Harvey E. 2,959,545.  
 Alford, Harvey E. 2,964,474.  
 Applequist, Hugh D. 2,948,144.  
 Bartleson, John D., and Alford. 2,955,084.  
 Bartleson, John D., and Faris. 2,929,695.  
 Belden, Sarah H. 2,948,597.  
 Brown, Glenn R., and Asmus. 2,964,465.  
 De Gray, Richard J. 2,931,714.  
 De Gray, Richard J. 2,956,869.  
 De Gray, Richard J., and Belden. 2,965,459.  
 Fay, Philip S., and Szabo. 2,961,380.  
 Foreman, Robert W. 2,941,018.  
 Foreman, Robert W., and Miller. 2,941,019.  
 Frazier, David. 2,953,681.  
 Grimes, William W. 2,949,422.  
 Hughes, Everett C., and Alford. 2,964,473.  
 Hughes, Everett C., and Stine. 2,947,692.  
 Idol, James D., Jr., Foreman, and Veatch. 2,947,779.  
 Jones, Arthur L., Howson, and Hughes. 2,958,591.  
 Milberger, Ernest C. 2,945,809.  
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 Oberly, Richard W. 2,928,726.  
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 Spike, Clark G. 2,961,459.  
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 Stine, Harrison M., and Callahan. 2,945,909.  
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Standard Oil Products Co., Inc.: *See*—  
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Standard Packing Corp.: *See*—  
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Standard Parts Co., The: *See*—  
 Stanton, Arthur H., Jr., and Noble. 2,948,169.

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 Fivel, Milton J. 2,921,132.

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Standard Railway Equipment Mfg. Co.: *See*—  
 Fraenkel, Stephen J. 2,925,792.  
 Milligan, Thomas W. 2,925,301.

Standard Register Co., The: *See*—  
 Davidson, John T. 2,945,435.  
 Davidson, John T., and Howard. 2,919,915.  
 Davidson, John T., and Howard. 2,919,934.  
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 Metzner, Albert W., and Boesch. 2,923,543.  
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 Stimson, Percy G. 2,919,783.  
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 Pelladeau, Maurice. 2,925,779.

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 Bouwkamp, Gerald R. 2,933,949.

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 Kimm, Ewald J. 2,928,233.  
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 Woods, John E. 2,925,986.  
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Standard Tool & Mfg. Co.: *See*—  
 Djidich, Robert, Strodtmann, R. W. and H. 2,957,374.

Standard Ultramarine & Color Co.: *See*—  
 Moser, Frank H. 2,965,511.  
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 Black, James S. 2,941,689.  
 Kuraeff, William A. 2,948,306.  
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Standard Yarn Co., Inc.: *See*—  
 Nadel, Alvin. 2,939,271.

Standard Yarn Mills Inc.: *See*—  
 Rosenblatt, Bernard J. 2,963,850.

Standfuss, Ernest R., to The Burch Corp. Road surfacing material spreader. 2,950,660, 8-30-60, Cl. 94-46.

Standiford, Fred W. Vertical proof press. 2,935,019, 5-3-60, Cl. 101-288.



- Standley, Lloyd W., to Garden Photoengraving Co., Inc. Method of etching printing plates. 2,925,332, 2-16-60, Cl. 41-43.
- Standley, Wendell E.: *See*—  
Nigrelli, Biagio J., Standley, and Wittmann. 2,939,256.  
Nigrelli, Biagio J., Standley, Wittmann, and Snyder. 2,953,240.
- Standring, Norman: *See*—  
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- Staneck, Robert W.: *See*—  
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- Stanek, Mark J.: *See*—  
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- Stanford, Edwin. Hair treating device. 2,956,570, 10-18-60, Cl. 132-116.
- Stanford, Evelyn C.: *See*—  
Plantz, Charles A., and Stanford. 2,942,952.
- Stanford, Evelyn C., and C. A. Plantz, to Mine Safety Appliances Co. Determination of nitrogen dioxide. 2,963,351, 12-6-60, Cl. 23-232.
- Stanford, George A. Male urinal. 2,956,287, 10-18-60, Cl. 4-110.
- Stanford, Walter F. Fishing tilt. 2,936,541, 5-17-60, Cl. 43-17.
- Stange, Herman E. Racing game. 2,922,651, 1-26-60, Cl. 273-142.
- Stange, Herman E. Racing dice game. 2,922,652, 1-26-60, Cl. 273-146.
- Stange, Wm., J., Co.: *See*—  
Ansel, Harry R. 2,952,552.  
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- Stangenberg, Robert L.: *See*—  
Yawman, Charles F., Jr., and Stangenberg. 2,946,615.
- Stanger, Eddy A. K. Cabinet. 2,965,429, 12-20-60, Cl. 312-252.
- Stangert, Chester A. Furniture. 2,942,924, 6-28-60, Cl. 312-140.4.
- Stangl, Morraine E.: *See*—  
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- Stanhope, John E.: *See*—  
Holstein, Alvin W., and Stanhope. 2,952,384.
- Stanhope, Russell C., to Micromatic Hone Corp. Abrasive element. 2,952,952, 9-20-60, Cl. 51-204.
- Stanier, Harold. Yarn control device. 2,952,890, 9-20-60, Cl. 28-51.
- Stanisus, Godfrey: *See*—  
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- Stankowski, Edward S.: *See*—  
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Conti, Girard N., and Stankowski. 2,934,866.
- Stanley, Alfred, & Sons Ltd.: *See*—  
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- Stanley, Charles R.: *See*—  
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- Stanley, Charles V.: *See*—  
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- Stanley, Harry T.: *See*—  
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- Stanley, Henry B., and J. M. Ross, to Hawaiian Pineapple Co. Ltd. Impact planter. 2,961,979, 11-29-60, Cl. 111-3.
- Stanley, Henry R., to Crawford Mfg. Co., Inc. Adjustable footrest. 2,938,573, 5-31-60, Cl. 155-169.
- Stanley, Hugh B., P. H. Watkins, R. F. Stringer, and M. F. McDonald, Sr., Esso Research and Engineering Co. Process for isomerizing naphthas. 2,965,694, 12-20-60, Cl. 260-683.67.
- Stanley, James K.: *See*—  
Tisinal, George F., Stanley, and Samans. 2,940,879.
- Stanley, James K., and G. F. Tisinal, to Standard Oil Co. Process of nitrogenization. 2,940,880, 6-14-60, Cl. 148-16.
- Stanley, John C., R. B. Moore, Jr., C. F. Williams, and G. V. Le Goff, to The Gateway Corp. Ornamenting machine. 2,966,134, 12-27-60, Cl. 118-211.
- Stanley, John H., to Parker-Hannifin Corp. Hand carried and operated tube cutter. 2,921,369, 1-19-60, Cl. 30-102.
- Stanley, Joseph M., S. Theokritoff, E. A. Gerber, A. R. Chi, and D. L. Hammond, to United States of America, Army. Method of fabricating a synthetic quartz crystal. 2,944,027, 7-5-60, Cl. 252-62.9.
- Stanley, Leonard G., to Alfred Stanley & Sons Ltd. Seals for attachment to fabrics. 2,919,508, 1-5-60, Cl. 40-21.
- Stanley, Lester N.: *See*—  
Posselt, Frederick W., and Stanley. 2,953,422.
- Stanley, Lester N., to General Aniline & Film Corp. Process of preparing poly-hydroxy arylophenones. 2,921,962, 1-19-60, Cl. 260-591.
- Stanley, Maurice E., and L. C. Parker, to Texaco Inc. Middle distillate fuel composition. 2,941,876, 6-21-60, Cl. 44-70.
- Stanley, Oscar M. Article holder. 2,923,432, 2-2-60, Cl. 220-102.
- Stanley, Richard B., and R. S. Rousseau, to The Kartridg Pak Co. Filling and sealing receptacles. 2,963,834, 12-13-60, Cl. 53-37.
- Stanley, Richard W., to Industrial Rayon Corp. Tow stretching apparatus. 2,930,103, 3-29-60, Cl. 28-71.3.
- Stanley, Thomas O., to Radio Corp. of America. Transistor deflection circuit. 2,964,673, 12-13-60, Cl. 315-26.
- Stanley, William G.: *See*—  
Elszner, James R., and Stanley. 2,942,961.  
Proell, Wayne A., Morello, Stanley, and Todd. 2,938,780.
- Stanley Woodworkers: *See*—  
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- Stanley Works, The: *See*—  
Ferry, Chamberlain, and Roby. 2,929,893.  
Ford, Barton H. 2,925,632.  
Ford, Barton H. 2,949,866.  
Ford, Barton H. 2,966,213.  
Ford, Barton H. 2,966,214.  
Ford, Barton H. 2,966,438.  
Ford, Barton H. and M. J. 2,953,200.  
Gilpatrick, George E. 2,942,906.  
Godfrey, James H., and Damijonaitis. 2,927,378.  
March, Joseph F., and Koepfel. 2,954,605.  
Nelson, Paul H. 2,953,809.  
Robinson, Walter H., Jr., and West. 2,953,175.  
Shepherd, Warren A., Jr. 2,960,133.
- Stanly, Lynn: *See*—  
Muehlebach, William D. and Stanly. 2,929,496.
- Stannard, Benjamin F. Pressure radiator cap. 2,964,214, 12-13-60, Cl. 220-44.
- Stannary Corp.: *See*—  
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- Stannett, Vivian T.: *See*—  
Grove, Cornelius S., Jr., and Stannett. 2,963,466.
- Stannett, Vivian T., and F. C. Shibel, to W. R. Grace & Co. Para-urazine-formaldehyde resin. 2,921,924, 1-19-60, Cl. 260-67.6.
- Stanney, William J., and B. C. Vafiades, to Microwave Associates, Inc. High power fast recovery waveguide windows. 2,939,044, 5-31-60, Cl. 315-39.
- Stanney, William J., and G. W. Caley, to Sylvania Electric Products Inc. Transmit-receive switch tube structure. 2,949,562, 8-16-60, Cl. 315-39.
- Stanray Corp.: *See*—  
Allen, John W. 2,953,996.
- Stansberry, Robert F.: *See*—  
Johannsen, Russel G., and Stansberry. 2,926,728.
- Stansbury, Benjamin H., Jr.: *See*—  
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- Stansbury, Harry A., and E. R. Guest, to Union Carbide Corp. Copolymers of ethyl-3-chloro-3-hydroxy-3-butenolate. 2,938,886, 5-31-60, Cl. 260-78.3.
- Stansbury, Harry A., Jr.: *See*—  
Guest, Howard R., and Stansbury. 2,938,057.
- Stansbury, Harry A., Jr., and H. R. Guest, to Union Carbide Corp. Long chain alkoxy-diols. 2,931,837, 4-5-60, Cl. 260-615.
- Stansbury, Harry A., Jr., and H. R. Guest, to Union Carbide Corp. Synthesis of vicinal diketones. 2,933,534, 4-19-60, Cl. 260-593.
- Stansbury, Harry A., Jr., and H. R. Guest, to Union Carbide Corp. Polymers containing polysulfide and spirobi (meta-dioxane) groups. 2,960,495, 11-15-60, Cl. 260-79.1.
- Stansbury, Harry A., Jr., and W. R. Proops, to Union Carbide Corp. Oxidative coupling of para-nitrotoluene. 2,965,681, 12-20-60, Cl. 260-645.
- Stansbury, Patrick H.: *See*—  
Hinz, Walter W., Stansbury, Parkison, and Boutwell. 2,925,849.
- Stansbury, Raymond H., 25% to L. M. Gates. Trailer tongue wheel chock. 2,931,463, 4-5-60, Cl. 188-32.
- Stansbury, Roy E.: *See*—  
Goodhue, Lyle D., Stansbury, and Louthan. 2,957,799.
- Stansbury, Roy E., to Phillips Petroleum Co. Synergistic insecticide composition comprising a pyrethrum type toxicant, an insecticide and a butadiene furfural condensation product. 2,934,471, 4-26-60, Cl. 167-33.
- Stansbury, Roy E., and R. P. Louthan, to Phillips Petroleum Co. Insect combatting agent. 2,944,932, 7-12-60, 167-22.
- Stansbury, Roy E., and R. P. Louthan, to Phillips Petroleum Co. Insecticidal composition containing a sulfanamide and allethrin or pyrethrum. 2,946,715, 7-26-60, Cl. 167-22.
- Stansfield, Hamill, and J. Edge, to Carney-Stansfield Co. Cutting tool. 2,958,119, 11-1-60, Cl. 29-105.
- Stansfield, Martin: *See*—  
Ellis, Bernard, Petrow, Stansfield, and Stuart-Webb. 2,927,119.
- Stanton, Arthur H., and J. G. Jergens. Work holding clamp. 2,961,900, 11-29-60, Cl. 77-62.
- Stanton, Arthur H., Jr., and L. D. Noble, to The Standard Parts Co. Box jigs and improved methods of forming the same. 2,948,169, 8-9-60, Cl. 77-62.
- Stanton, Austin N. Valves. 2,932,316, 4-12-60, Cl. 137-508.
- Stanton, Charles B., to Imperial Chemical Industries Ltd. Apparatus for making branched pipe fittings. 2,944,501, 7-12-60, Cl. 113-44.
- Stanton, Edward W., to The Singer Mfg. Co. Sewing machine cabinets. 2,946,639, 7-26-60, Cl. 312-257.
- Stanton, Edward W., J. Mracek, and J. Stein, to The Singer Mfg. Co. Attachment box holders. 2,965,347, 12-20-60, Cl. 248-289.
- Stanton, Ephraim H. Needle valve assembly and associated carburetor assembly. 2,962,269, 11-29-60, Cl. 261-41.
- Stanton, Francis P., and S. R. Tyler, to The Bristol Aeroplane Co. Ltd., and Dowty Fuel System Ltd. Fuel supply systems for propeller turbine engines. 2,931,442, 4-5-60, Cl. 170-135.72.



- Stanton, George W., and T. G. Traylor, to The Dow Chemical Co. Compositions comprising graft copolymers of certain monomeric polyglycol esters of acrylates and methacrylates on superpolyamide substrates. 2,959,565, 11-8-60, Cl. 260-45.5.
- Stanton, Norman K.: *See*—  
Card, Paul Q., and Stanton. 2,921,853.
- Stanton, Walter O. Electrostatic speaker. 2,934,612, 4-26-60, Cl. 179-111.
- Stanton, Willard J. Tire antiskid device. 2,961,026, 11-22-60, Cl. 152-211.
- Stanwell, Peter: *See*—  
Lee, James A., and Stanwell. 2,938,755.
- Stanwyck, Edmund. Terminal to base connection. 2,929,045, 3-15-60, Cl. 339-220.
- Stanwyck, Edmund. Electrical or electronic component. 2,953,758, 9-20-60, Cl. 336-65.
- Stanwyck, Edmund. Terminal for coil support. 2,958,063, 10-25-60, Cl. 339-17.
- Stanzel, Victor. Speed controlling mechanism for model aircraft engines. 2,940,434, 6-14-60, Cl. 123-107.
- Sta-Parts, Inc.: *See*—  
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- Stapelfeldt, Roelif: *See*—  
Cook, James A., Jr., and Stapelfeldt. 2,965,889.
- Staples & Co. Ltd.: *See*—  
Heal, Robert G. 2,960,600.
- Staples, Crawford E., to Westinghouse Air Brake Co. Remote indication systems. 2,939,111, 5-31-60, Cl. 340-163.
- Staples, Paul R., to Reynolds Metal Co. Apparatus for expanding pressure welded passageway panels on one side. 2,949,876, 8-23-60, Cl. 113-44.
- Staples, Robert G., Jr., to Link-Belt Co. Article handling apparatus. 2,954,863, 10-4-60, Cl. 198-33.
- Stapleton, Robert W., to General Motors Corp. Transmission control. 2,943,501, 7-5-60, Cl. 74-335.
- Stapling Machines Co.: *See*—  
Hayward, Leroy S. 2,940,637.
- Kingsley, David G. 2,947,329.
- Kingsley, David G. 2,963,050.
- Kingsley, David G., and Greene. 2,924,357.
- Peters, Guilford B. 2,929,527.
- Rice, Richard L., Hogan, and Kingsley. 2,955,623.
- Riker, Charles O. 2,924,825.
- Starbuck, R. M., & Sons: *See*—  
Joy, Alfred R. 2,926,555.
- Starcher, Paul S.: *See*—  
Phillips, Benjamin, Starcher, and MacPeck. 2,927,931.
- Phillips, Benjamin, Starcher, McGary, and Patrick. 2,921,925.
- Phillips, Benjamin, Starcher, McGary, and Patrick. 2,921,929.
- Phillips, Benjamin, Starcher, McGary, and Patrick. 2,932,626.
- Phillips, Benjamin, Starcher, McGary, and Patrick. 2,935,488.
- Tinsley, Samuel W., Starcher, and Henry. 2,946,808.
- Starcher, Paul S., S. W. Tinsley, and D. H. Mullins, to Union Carbide Corp. Vinyl chloride resin compositions, stabilized and plasticized with epoxy compounds. 2,924,583, 2-9-60, Cl. 260-30.4.
- Stark, André L. Index carrier for magnetic recording strips. 2,940,417, 6-14-60, Cl. 116-114.
- Stark, Richard G., and G. B. Spransy, to American Motors Corp. Ejection apparatus for molding machines. 2,929,105, 3-22-60, Cl. 18-42.
- Stare, Carl G. H.: *See*—  
Berg, John V., and Stare. 2,948,947.
- Stareck, Jesse E., E. J. Seyb, Jr., A. A. Johnson, and W. H. Rowan, to Metal & Thermit Corp. Process for chromium plating. 2,952,590, 9-13-60, Cl. 204-51.
- Sta-Rite Ginnie-Lou, Inc.: *See*—  
Boling, George N. 2,945,500.
- Stark Ceramics, Inc.: *See*—  
Wack, Floyd W. 2,919,657.
- Stark, Charles H., to Owens-Illinois Glass Co. Skylight mounting. 2,947,267, 8-2-60, Cl. 108-16.
- Stark, Donald A.: *See*—  
Schroeder, John S., Mitchell, and Stark. 2,924,971.
- Stark, Edward: *See*—  
Bauer, Oliver F., and Stark. 2,947,120.
- Stark, Ernst, M. Albrecht, and G. Keicher, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Stabilized polymer compositions. 2,953,542, 9-20-60, Cl. 260-45.7.
- Stark, Forest G., to Art Metal Construction Co. Filing equipment. 2,925,086, 2-16-60, Cl. 129-16.
- Stark, Frank J. Combination washer-wiper for glass louvers. 2,957,190, 10-25-60, Cl. 15-121.
- Stark, Gunnard E.: *See*—  
Schwartz, James S., and Stark. 2,961,246.
- Stark, Howard J., J. B. Alferts, and F. E. Cook. Self curing thermoplastic repair means. 2,929,754, 3-22-60, Cl. 154-46.
- Stark, Howard J. Glass fiber forming machine. 2,960,723, 11-22-60, Cl. 18-8.
- Stark, John B., to United States of America, Agriculture. Separations of nitrogenous organic compounds. 2,949,450, 8-16-60, Cl. 260-211.5.
- Stark, John H. Profile cutter. 2,933,022, 4-19-60, Cl. 90-13.2.
- Stark, Martin H. Tube body forming mechanism. 2,933,988, 4-26-60, Cl. 93-82.
- Stark, Norman H. Method for making a foamed polyurethane filter. 2,961,710, 11-29-60, Cl. 18-48.
- Stark, Richard J., to Horsey, Robson & Co., Inc. Method for forming laminated objects. 2,955,642, 10-11-60, Cl. 154-41.
- Stark, Virgil. Confined space cooling apparatus. 2,963,881, 12-13-60, Cl. 62-259.
- Stark, William H. C., to Southern United Telephone Cables Ltd. Machines for twisting together electric conductors. 2,920,437, 1-12-60, Cl. 57-17.
- Stark, William H. C., and K. W. H. Whittington, to Southern United Telephone Cables Ltd. Machines for lapping tape on to an electric conductor or other support. 2,921,427, 1-19-60, Cl. 57-15.
- Stark, William J., and R. L. Wilcox, to Jersey Production Research Co. Multiple geophone connector. 2,935,723, 5-3-60, Cl. 339-154.
- Stark, Willmer N.: *See*—  
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- Johnson, Kenneth A., Ousley, and Stark. 2,939,393.
- Mathiesen, James C., Serkland, and Stark. 2,953,924.
- Starke, Albert C., Jr.: *See*—  
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- Starkey, Marvin J.: *See*—  
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- Starkey, Neal E., and A. F. Pierce, to General Electric Co. Air-atomizing liquid spray nozzle. 2,942,790, 6-28-60, Cl. 239-405.
- Starkey, David, to English Rose Ltd. Method and means for processing thermoplastic yarn. 2,938,258, 5-31-60, Cl. 28-1.
- Star-Kist Foods, Inc.: *See*—  
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- Erickson, Reginald T., and Loewe. 2,919,988.
- Starks, Fred W., to E. I. du Pont de Nemours and Co. Stabilization of chlorinated hydrocarbons. 2,945,070, 7-12-60, Cl. 260-652.5.
- Starks, Fred W., to E. I. du Pont de Nemours and Co. Stabilization of chlorinated hydrocarbons. 2,958,712, 11-1-60, Cl. 260-652.5.
- Starks-Field, Alfred B., and T. G. Patterson, to Marconi's Wireless Telegraph Co. Ltd. Modulating circuit arrangements. 2,944,227, 7-5-60, Cl. 332-37.
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- Starling, Charles H. Rate of flow controller. 2,930,393, 3-29-60, Cl. 137-205.
- Starman, Raymond W., and P. Gibson, to Swift & Co. Gelled fracturing fluids. 2,966,457, 12-27-60, Cl. 252-8.55.
- Starnes, Charles J., to Radio Corp. of America. Modulation system for transmitters. 2,924,791, 2-9-60, Cl. 332-48.
- Starnes, Earl W. Apparatus for controlling ballooning of yarn. 2,955,410, 10-11-60, Cl. 57-36.
- Starnes, William C.: *See*—  
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- Starnes, William C., and R. C. Zabor, to Gulf Research & chain paraffins. 2,944,097, 7-5-60, Cl. 260-683.65.
- Starr, Allan M., to United States of America, Atomic Energy Commission. Heating and cooling system for calutron. 2,943,195, 6-28-60, Cl. 250-41.9.
- Starr, Anthony J., and J. S. and A. Heisler; said Starr assor. to J. S. and A. Heisler. Plastic closure plug and container flange plug assembly. 2,962,185, 11-29-60, Cl. 220-39.
- Starr, Arthur T., K. W. Cattermole, and J. C. Price, to International Standard Electric Corp. Pulse coding arrangements for electric communication systems. 2,954,550, 9-27-60, Cl. 340-347.
- Starr, Charles E., Jr., and M. A. Segura, to Esso Research and Engineering Co. Platinum catalyst. 2,950,259, 8-23-60, Cl. 252-466.
- Starr, Chauncey: *See*—  
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- Starr, George B. Animated toy. 2,948,081, 8-9-60, Cl. 46-92.
- Starr, David A., Jr., to Burroughs Corp. Methods of making magnetic transducing means. 2,963,777, 12-13-60, Cl. 29-155.57.
- Starr, Earl M.: *See*—  
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- Starr, Henry J. Staple machine. 2,954,561, 10-4-60, Cl. 1-49.
- Starr, James E., to The Budd Co. Strain gage installation and method of installing. 2,963,773, 12-13-60, Cl. 29-155.5.
- Starr, Lawrence D.: *See*—  
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- Starr, Robert V., to I-T-E Circuit Breaker Co. Spring closing system for circuit breakers. 2,937,258, 5-17-60, Cl. 200-169.
- Starr, Robert V., to I-T-E Circuit Breaker Co. Electrically operated stored energy system for circuit breakers. 2,961,067, 11-22-60, Cl. 185-40.
- Starr, Winfield J. Can opener. 2,935,787, 5-10-60, Cl. 30-8.5.
- Starre, Gerrit, P. J. J. Vaes, and L. P. M. Van Overbeek, to North American Phillips Co., Inc. Dry shaver shear plate having an axial movement in relation to a rotary cutter. 2,952,908, 9-20-60, Cl. 30-43.



- Star Recorder Corp. of Denver, The: *See*—  
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- Startzell, Paul, to Pittsburgh Plate Glass Co. Glass bending mold. 2,924,045, 2-9-60, Cl. 49-87.
- Startzell, Paul, to Pittsburgh Plate Glass Co. Apparatus for stretching plastic. 2,933,759, 4-26-60, Cl. 18-1.
- Starworth, Irving J. Toothbrush holder. 2,950,946, 8-30-60, Cl. 312-207.
- Stassfort, Derrick H., to Swift & Co. Method and apparatus for producing mixed fertilizers. 2,965,471, 12-20-60, Cl. 71-61.
- Stassfort, Derrick H., E. N. Mortenson, and M. D. Sanders, to Swift & Co. High nitrogen plant food. 2,965,468, 12-20-60, Cl. 71-36.
- Stastny, Fritz: *See*—  
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- Statham Instruments, Inc.: *See*—  
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- Statham, Louis D., to Statham Instruments, Inc. Motion sensing device. 2,942,474, 6-28-60, Cl. 73-515.
- Statham, Louis D., to Statham Instruments, Inc. Strain wire transducer. 2,947,962, 8-2-60, Cl. 338-4.
- Statham, Louis D., to Statham Instruments, Inc. Angular accelerometer and switch. 2,963,244, 12-6-60, Cl. 244-77.
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- Statia, Edwin V., Sr. Lock. 2,928,272, 3-15-60, Cl. 70-276.
- Statler, Lowell E. Floor sander. 2,956,379, 10-18-60, Cl. 51-175.
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- Stauber, Georg, and V. Greger, to Siemens-Schuckertwerke Aktiengesellschaft. Bushing-type current transformers. 2,924,796, 2-9-60, Cl. 336-96.
- Staubly, Julian L., J. Simkin, O. T. Aeppli, and J. E. Rex, to Pennsalt Chemicals Corp. Oxidizing compositions. 2,921,911, 1-19-60, Cl. 252-187.
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- Stauder, Ernst A., to Jean Gusken Maschinenfabrik u. Eisengieserei. Bobbin changing device for shuttle for a two-shuttle loom. 2,939,490, 6-7-60, Cl. 139-241.
- Staudt, Erwin, to Eastman Kodak Co. Flash contact control for single-lens reflex cameras. 2,956,490, 10-18-60, Cl. 95-11.5.
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- Stauffer Chemical Co.: *See*—Continued  
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- Stauffer, Robert A., to National Research Corp. Method of producing metals by decomposition of halides. Re. 24,821, 5-3-60, Cl. 75-10.
- Staunt, Martin. Dental handpieces. 2,923,060, 2-2-60, Cl. 32-27.
- Staunt, Martin. Lubricating apparatus. 2,943,705, 7-5-60, Cl. 184-55.
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- Stauth, Samuel K., to Moyrath Machinery Co., Inc. Feeder trough for conveyors. 2,921,666, 1-19-60, Cl. 198-98.
- Stava, Eleanore G.: *See*—  
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- Stava, Robert J., deceased (by E. G. Stava, executrix), W. F. Schneerer, and O. C. Hollstein, to Picker X-ray Corp., Waite Mfg. Div. Inc. Rotational therapy X-ray method and apparatus. 2,950,394, 8-23-60, Cl. 250-92.
- Stavenau, Harold L., to Truth Tool Co. Awning type window structure. 2,950,509, 8-30-60, Cl. 20-42.
- Staver Co. Inc., The: *See*—  
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- Stavis, Gus, S. Belchis, and M. W. McKay, to General Precision Laboratory Inc. Aircraft vertical velocity measuring system. 2,923,932, 2-2-60, Cl. 343-8.
- Stavis, Gus, H. Saltzman, and J. F. Zaleski, to General Precision, Inc. Microwave antenna. 2,940,075, 6-7-60, Cl. 343-100.
- Stavrakis, Alexander V., and C. J. Kennedy, to Radio Corp. of America. Reeling system. 2,928,620, 3-15-60, Cl. 242-68.3.
- Stayner, Richard D., to California Research Corp. Sulfonate Development Co. Process for isomerizing light straight detergent compositions. 2,944,028, 7-5-60, Cl. 252-161.
- Stayner, Richard D., and H. Y. Lew, to California Research Corp. Synthetic detergent formulations containing N-acyl taurates. 2,921,030, 1-12-60, Cl. 252-152.
- Stayner, Robert A.: *See*—  
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- Stayton, Robert D., to National Vendors, Inc. Vending machine. 2,952,385, 9-13-60, Cl. 221-129.
- Stayton, Robert D., to National Vendors, Inc. Dispensing mechanism for vending machines. 2,956,707, 10-18-60, Cl. 221-90.
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- Stead, Richard R., to Texas Instruments Inc. Etching of semiconductor materials. 2,927,011, 3-1-60, Cl. 41-42.
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- Steagall, William F., to Sperry Rand Corp. Bistable device. 2,940,066, 6-7-60, Cl. 340-174.
- Steagall, William F., to Sperry Rand Corp. Signal responsive network. 2,954,480, 9-27-60, Cl. 307-88.
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- Stearn, Franklin A., and L. P. Hopkins, to International Telephone and Telegraph Corp. Telescoping binding posts. 2,960,677, 11-15-60, Cl. 339-254.
- Stearns, Carl L.: *See*—  
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- Stearns, Carl L., to American Cyanamid Co. Use of calcium silicate in tablet compressing. 2,951,791, 9-6-60, Cl. 167-82.
- Stearns, Carl L., and L. F. Hansen, to American Cyanamid Co. Means for pressurizing a container. 2,954,935, 10-4-60, Cl. 239-373.
- Stearns, Charles F.: *See*—  
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- Stearns, Howard E. Side outlets for above-ground irrigation pipes. 2,932,484, 4-12-60, Cl. 251-145.
- Stearns, R. H.: *See*—  
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- Luedtke, William G., and Wensch. 2,964,137.
- Stearns, Richard S., to The Firestone Tire & Rubber Co. Polymerization of conjugated diolefines with a catalyst comprising metallic lithium dispersed in a crystalline salt. 2,947,737, 8-2-60, Cl. 260-94.2.
- Stearns, Roswell H., to Indiana General Corp. Adjustable permanent magnetic separator. 2,945,590, 7-19-60, Cl. 209-223.
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- Steatite Research Corp.: *See*—  
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- Stebbins, Charles A., and E. G. Podolan, to General Motors Corp. Rear compartment cover for convertible. 2,959,447, 11-8-60, Cl. 296-65.
- Stebbins, Marlin R. Anti-noise and anti-splash attachment for a toilet bowl. 2,931,047, 4-5-60, Cl. 4-1.
- Steber, Joseph F., 50% to M. M. Scharf. Machine for feeding and grading pickles or the like. 2,934,207, 4-26-60, Cl. 209-97.
- Steber, William C., to Sperry Rand Corp. Radar indicating system. 2,952,847, 9-13-60, Cl. 343-7.9.
- Stecker, Karl. Golf club. 2,926,913, 3-1-60, Cl. 273-80.
- Steck, Edgar A., to Sterling Drug Inc. 3-amino-6-halopyridazines and process of preparation. 2,927,112, 3-1-60, Cl. 260-250.
- Steck, George L. Method of repairing dents. 2,946,118, 7-26-60, Cl. 29-401.
- Steck, Jerome W. Poultry neck remover. 2,926,383, 3-1-60, Cl. 17-11.
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- Steckler, Robert, to General Aniline & Film Corp. Plasticized phenolic-formaldehyde resin compositions. 2,956,965, 10-18-60, Cl. 260-19.
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- Steckowich, John, Jr.: *See*—  
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- Stedehouder, Pieter L., and W. J. C. Viveen, to Koninklijke Industriële Maatschappij voorheen Noury & Van der Lande N.V. Polymeric basic aluminum compounds of organic acids. 2,925,430, 2-16-60, Cl. 260-414.
- Stedehouder, Pieter L., and W. J. C. Viveen, to Koninklijke Industriële Maatschappij voorheen Noury & van der Lande N.V. Process for the preparation of polymeric basic aluminum salts. 2,952,695, 9-13-60, Cl. 260-414.
- Stedman, Cecil K., to Statham Instruments, Inc. Angular accelerometer. 2,934,329, 4-26-60, Cl. 264-1.
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- Stedman, Cecil K., to United States of America, Navy. Underwater sonic depth steering system. 2,962,997, 12-6-60, Cl. 114-25.
- Stedman, Donald F., to National Research Council. Rain repellents for windshields. 2,923,633, 2-2-60, Cl. 106-13.
- Stedman, Frances E., and R. C. Pocock, to Bendix Aviation Corp. Friction lining compositions. 2,938,790, 5-31-60, Cl. 75-206.
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- Stedman, James A., and G. M. Marshall, to Central Tool Co. Micrometer thimble adjustment. 2,957,248, 10-25-60, Cl. 33-164.
- Stedman, Ronald E., to Imperial Chemical Industries Ltd. Process for recovery of uranium values. 2,926,992, 3-1-60, Cl. 23-14.5.
- Stedman, Ronald E., to Imperial Chemical Industries Ltd. Recovery of uranium values. 2,945,741, 7-19-60, Cl. 23-14.5.
- Stedman, Russell F., and R. B. Thompson, to Universal Oil Products Co. Preventing corrosion of plant equipment. 2,938,851, 5-31-60, Cl. 208-47.
- Stedry, Edward G.: *See*—  
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- Stednitz, Wolfgang, to M. Grundig. Magnetic reproducing and recording head. 2,955,169, 10-4-60, Cl. 179-100.2.
- Stee, Ernest C.: *See*—  
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- Steed, William P.: *See*—  
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- Steede, Otho G., to The Lewis Engineering and Mfg. Co. Latch for a grass shears. 2,964,846, 12-20-60, Cl. 30-262.
- Steeger, Wilhelm. Thread traverse mechanism for a precision cross winding machine. 2,934,284, 4-26-60, Cl. 242-158.3.
- Steel, Gerald H., to Crouse-Hinds Co. Indicating unit. 2,932,819, 4-12-60, Cl. 340-366.
- Steel, Gerald K., to The British Iron & Steel Research Assn. Control systems. 2,922,053, 1-19-60, Cl. 307-149.
- Steel, James: *See*—  
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- Steel, John E., deceased (by James Steel and W. S. Martin, executors), and James Steel, to Steels Engineering Installations Ltd. Pipe supports. 2,956,103, 10-11-60, Cl. 174-40.
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- Steel, W., & Co. Ltd.: *See*—  
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- Steel Co. of Wales, Ltd. Abbey Works, The: *See*—  
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- Steele, Arthur B., J. B. O'Neal, and J. R. Anderson, to Union Carbide Corp. Solvent extraction using substituted oxalidones. 2,932,675, 4-12-60, Cl. 260-674.
- Steele, Carroll M.: *See*—  
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- Steele, Dudley M. Trouser hangers. 2,948,406, 8-9-60, Cl. 211-99.
- Steele, Earl L.: *See*—  
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- Wolfe, Albert E., Jr., and Steele. 2,958,179.
- Steele, Floyd G., to Digital Control Systems, Inc. High speed digital control system. 2,933,248, 4-19-60, Cl. 235-92.
- Steele, Floyd G., to Northrop Corp. Angle measurement. 2,940,171, 6-14-60, Cl. 33-1.
- Steele, Floyd G., to Litton Industries of California. Selectively actuatable multiple switches. 2,941,097, 6-14-60, Cl. 307-112.
- Steele, Floyd G., to Digital Control Systems, Inc. Input conversion methods and apparatus. 2,954,549, 9-27-60, Cl. 340-347.
- Steele, Floyd G., to Digital Control Systems, Inc. Time interval generating circuits. 2,964,708, 12-13-60, Cl. 328-130.
- Steele, Gordon N., to United States of America, Atomic Energy Commission. Method of impregnating a porous material. 2,939,803, 6-7-60, Cl. 117-47.
- Steele, Harry M., Jr., to The Garrett Corp. Pressure transducer. 2,946,031, 7-19-60, Cl. 338-42.
- Steele, Harry M., Jr., and R. L. Kidwell; said Kidwell assor. to said Steele. Stroboscope illumination. 2,936,387, 5-10-60, Cl. 313-22.
- Steele, Homer M. Gutter screen. 2,948,083, 8-9-60, Cl. 50-5.
- Steele, John D.: *See*—  
Kzenas, Zenon. 2,936,287.
- Steele, Martin C.: *See*—  
Babiskin, Julius, and Steele. 2,924,976.
- Steele, Martin C., to Radio Corp. of America. Switching devices. 2,938,160, 5-24-60, Cl. 323-94.
- Steele, Maurice G., to Rome Cable Corp. Collapsible reel. 2,924,395, 2-9-60, Cl. 242-115.
- Steele, Oliver P., III: *See*—  
Cametti, Benjamin, and Steele. 2,956,841.
- Steele, Oliver P., III, and H. F. Kongabel, to Westinghouse Electric Corp. Regenerative cold trap and electric motor cooled thereby. 2,964,659, 12-13-60, Cl. 310-54.
- Steele, Roger C., to Hexcel Products Inc. Method of expanding expandable blocks of cellular material. 2,919,472, 1-5-60, Cl. 18-475.
- Steele, Roger C., and W. W. Swain, to Hexcel Products Inc. Honeycomb expanding means and method. 2,936,021, 5-10-60, Cl. 154-1.
- Steele, William J.: *See*—  
Adler, Alan D., and Steele. 2,942,357.
- Adler, Alan D., and Steele. 2,953,860.
- Steel Founders' Society of America: *See*—  
Harman, Cameron G. 2,930,709.



- Steel Heddle Mfg. Co.: *See*—  
Kaufmann, Frank H. 2,931,396.
- Steelman, Alice M. Educational aid for teaching arithmetic. 2,950,542, 8-30-60, Cl. 35-31.
- Steelman Electric Motor Service: *See*—  
Steelman, Henry A. 2,922,942.
- Steelman, Henry A., to Steelman Electric Motor Service. Phase conversion motor system. 2,922,942, 1-26-60, Cl. 318-220.
- Steelman Products Corp.: *See*—  
Schultz, Matthew J. 2,926,726.
- Steelman, Stuart A. Endless tape cartridge and actuating mechanism. 2,951,654, 9-6-60, Cl. 242-55.13.
- Steels Engineering Installations Ltd.: *See*—  
Steel, John E. and James. 2,956,103.
- Steeman, Johannes W. M.: *See*—  
Van Den Berg, Pieter J., and Steeman. 2,944,882.
- Steen, Donald E., to Monsanto Chemical Co. Preparation of allyl chloride. 2,966,525, 12-27-60, Cl. 260-654.
- Steen, Gottfried W., to Raytheon Co. X-ray tubes. 2,952,790, 9-13-60, Cl. 313-58.
- Steen, Harford K., to Interstate Bag Co., Inc. Shopping bag. 2,952,396, 9-13-60, Cl. 229-54.
- Steen, James B., to Chicago Pneumatic Tool Co. Roller cutter with gauge cutting reamer. 2,927,777, 3-8-60, Cl. 255-347.
- Steen, Louis M. Detachable cover for gun mechanism. 2,932,334, 4-12-60, Cl. 150-52.
- Steen, William E., to A. O. Smith Corp. Gear shifting mechanism. 2,955,479, 10-11-60, Cl. 74-354.
- Steenfeld, Joseph, and G. V. Zito, to Bendix Aviation Corp. Liquid depth gauge. 2,941,403, 6-21-60, Cl. 73-304.
- Steenhagen, Gerrit: *See*—  
Umbricht, Emil. Steenhagen, and Evans. 2,949,285.
- Steenhuis, Theodor L. A. M., to Lever Brothers Co. Apparatus for dividing by volume plastic materials. 2,928,172, 3-15-60, Cl. 31-14.
- Steenhuis, Theodor L. A. M., to Lever Brothers Co. Print molder for plastic materials. 2,928,173, 3-15-60, Cl. 31-42.
- Steensen, Robert N., to Bendix Aviation Corp. Visible filter clogging indicator. 2,935,040, 5-3-60, Cl. 116-117.
- Steer, Donald E., to Bridgeport Brass Co. Snap-on tubeless truck tire valve. 2,938,561, 5-31-60, Cl. 152-427.
- Steever, Andrew B., to The Babcock & Wilcox Co. Communitated solid fuel introduction into high pressure reaction zone. 2,961,310, 11-22-60, Cl. 48-206.
- Steeves, Robert W.: *See*—  
Baer, Charles A., and Steeves. 2,935,589.
- Stefanyuk, William J. Visual aid educational device. 2,921,388, 1-19-60, Cl. 35-73.
- Stefano, Anthony J. Universal world time and star map. 2,921,386, 1-19-60, Cl. 35-44.
- Stefanowicz, Stephen S.: *See*—  
MacAdam, Mark L., Lemmon, and Stefanowicz. 2,935,565.
- Stefcik, Andrew, and J. W. Burnard, to General Aniline & Film Corp. Non-ionic surface-active gel compositions and preparation thereof. 2,958,665, 11-1-60, Cl. 252-316.
- Steffen, Arnold M. Automatic selector for television. 2,951,918, 9-6-60, Cl. 200-37.
- Steffes, Adam P. G. Pump. 2,952,218, 9-13-60, Cl. 103-152.
- Steffes, Milton J., to Van Norman Industries Inc. Hollow drill. 2,919,902, 1-5-60, Cl. 255-72.
- Steffes, Raymond G.: *See*—  
Leslie, James D., and Steffes. 2,926,943.
- Steffey, Marvin G., to Whirlpool Corp. Automatic washing machine and suds storage and return system therefor. 2,931,199, 4-5-60, Cl. 68-12.
- Steffgen, Frederick W., C. N. Kimberlin, Jr., and F. J. Buchmann, to Esso Research and Engineering Co. Hydroforming and regeneration and reactivation of platinum catalyst with chlorine gas under anhydrous conditions. 2,965,563, 12-20-60, Cl. 208-140.
- Steffner, Edward F., to The Auer Register Co. Air register. 2,955,525, 10-11-60, Cl. 98-108.
- Steffy, Russell J.: *See*—  
Marshall, Peter L., Macaulay, Solomon, Steffy, and Petrey. 2,920,844.
- Steff, Eugene P., and T. D. Coleman, to Raybestos-Manhattan, Inc. Composite fabric and method of making the same. 2,943,010, 6-28-60, Cl. 154-127.
- Stefucza, Alexander A., to Bendix Aviation Corp. Control apparatus for a propulsion engine. 2,949,735, 8-23-60, Cl. 60-39.29.
- Stege, Henry B. Adjustable automatic carriage stop (lathe). 2,933,001, 4-19-60, Cl. 82-23.
- Stegemeier, Richard J.: *See*—  
Josendal, Virgil A., and Stegemeier. 2,947,359.
- Stegemeier, Richard J., to Union Oil Co. of California. Liquid filled well heater. 2,932,352, 4-12-60, Cl. 166-60.
- Stegemeier, Richard J., and P. W. Fischer, to Union Oil Co. of California. Oil recovery from bituminous sand. 2,924,565, 2-9-60, Cl. 208-11.
- Steggerda, Charles A., to Philco Corp. Transistor amplifier. 2,936,424, 5-10-60, Cl. 330-21.
- Steghart, Fritz L. F., and P. L. Kershaw. Electronic integrators and automatic controllers. 2,957,980, 10-25-60, Cl. 250-27.
- Stegner, Albert L. Surface cleaning device. 2,955,306, 10-11-60, Cl. 15-93.
- Stegner, Charles B., to Daystrom, Inc. Electrical instrument pointer stops. 2,926,306, 2-23-60, Cl. 324-154.
- Stehlin, Theodore A. Removable core-type valve. 2,952,269, 9-13-60, Cl. 137-270.
- Stehling, Chas. H., Co., The: *See*—  
Bode, Henry W. 2,932,185.
- Stehman, Carlyle J., to The Chemstrand Corp. Stabilization of vinylpyridines. 2,938,033, 5-24-60, Cl. 260-290.
- Steidinger, Donald J., to Uarco, Inc. Rotary stapler mechanism. 2,960,696, 11-22-60, Cl. 1-7.
- Steidley, Virgil K., to Gorman-Rupp Industries, Inc. Recirculating and drain system. 2,962,048, 11-29-60, Cl. 137-565.
- Steiger, Benjamin F., and M. Yarmovsky, to Tung-Sol Electric Inc. Ballast tube. 2,928,061, 3-8-60, Cl. 338-20.
- Steiger, Robert, F. Luethy, and A. Haemmerle. Yarn guiding and treating apparatus. 2,945,370, 7-19-60, Cl. 68-205.
- Steigerwald, John R., to The Goodyear Tire & Rubber Co. Audible and/or visual skid warning systems. 2,927,302, 3-1-60, Cl. 340-52.
- Steigerwald, John R., to The Goodyear Tire & Rubber Co. Skid warning system. 2,930,026, 3-22-60, Cl. 340-52.
- Steigerwald, Joseph. Interchangeable button. 2,930,092, 3-29-60, Cl. 24-103.
- Steigerwald, Karl H.: *See*—  
Optiz, Wolfgang, Spruck, and Steigerwald. 2,944,172.
- Steimel, Karl: *See*—  
Pederzani, Theodor, Grimm, and Steimel. 2,963,700.
- Steimen, Lawrence E., to United Shoe Machinery Corp. Core mounting means. 2,934,748, 4-26-60, Cl. 340-174.
- Steinke, Frank C., Jr., to Walsh Refractories Corp. Fused cast refractory. 2,919,994, 1-5-60, Cl. 106-57.
- Stein, A., & Co.: *See*—  
Chubby, Marion M. 2,932,298.
- Faron, Evelyn E. 2,940,454.
- Stein, Curtis P. Hydraulic jack actuated disc transport. 2,938,588, 5-31-60, Cl. 172-240.
- Stein, Elmer L., to Eye-Beam Displays, Inc. Advertising display. 2,934,846, 5-3-60, Cl. 40-125.
- Stein, Elmer L., to Eye-Beam Displays, Inc. Sleeve and post advertising display. 2,939,236, 6-7-60, Cl. 40-311.
- Stein, Elmer L., to Eye-Beam Displays, Inc. Display mounted by a bow from a post. 2,939,237, 6-7-60, Cl. 40-311.
- Stein, Fred, Laboratories, Inc.: *See*—  
Stein, Frederick W. 2,947,940.
- Stein, Frederick W., to Fred Stein Laboratories, Inc. Test cell. 2,947,940, 8-2-60, Cl. 324-65.
- Stein, George A., to A. O. Smith Corp. Method of producing glass fibers. 2,939,761, 6-7-60, Cl. 18-54.
- Stein, Jack C., and L. B. Franco, said Franco assor. to Manix Co., Ltd. Ballast plow for use under railway tracks. 2,921,390, 1-19-60, Cl. 37-104.
- Stein, James H., and J. D. Wallace, to United States of America, Navy. Capacitive-type line hydrophone. 2,965,877, 12-20-60, Cl. 340-13.
- Stein, John: *See*—  
Stanton, Edward W., Mracek, and Stein. 2,965,347.
- Stein, Jolyon A.: *See*—  
Bauman, Howard E., MacMillan, and Stein. 2,965,492.
- Durst, Jack R., and Stein. 2,952,544.
- Stein, Joseph A., to Bacharach Industrial Instrument Co. Filter gauge. 2,921,157, 1-12-60, Cl. 200-81.9.
- Stein, Marcel. Automatic doffing mechanism for textile processing machine. 2,929,570, 3-22-60, Cl. 242-55.1.
- Stein, Max, and L. F. Werner, said Werner assor. to said Stein. Textile printing machine. 2,928,340, 3-15-60, Cl. 101-120.
- Stein, Robert A., to Globe Industries, Inc. Method of manufacturing stators. 2,935,785, 5-10-60, Cl. 29-155.5.
- Stein, Ruth: *See*—  
Friedman, Philip and G. J. 2,929,651.
- Friedman, Philip and G. J. 2,931,206.
- Stein, Sidney J.: *See*—  
Allen, Louis B., McElroy, and Stein. 2,955,974.
- Stein, Sidney J., and A. L. Pugh, Jr., to International Resistance Co. Apparatus for deposition of solids from vapors. 2,958,899, 11-8-60, Cl. 18-8.
- Stein, Stephen. Medical therapy equipment having a radioactive source. 2,951,162, 8-30-60, Cl. 250-106.
- Stein, Victor, and E. Drewitz, to De Jur Amsco Corp. Resistor structure with adjustably positionable taps. 2,926,321, 2-23-60, Cl. 338-137.
- Stein, Walter, to Norgine Laboratories Inc. Organic hydrochloride and karaya gum composition and method for making same. 2,958,627, 11-1-60, Cl. 167-55.
- Stein, Werner: *See*—  
Blaser, Bruno, Schirp, and Stein. 2,948,750.
- Blaser, Bruno, Stein, and Schirp. 2,948,735.
- Blaser, Bruno, Stein, and Schirp. 2,948,737.
- Schirp, Hubert, and Stein. 2,938,050.
- Stein, Werner, and H. Hennig, to Henkel & Cie. G.m.b.H. Degradation of unsaturated fatty acids. 2,921,084, 1-12-60, Cl. 260-413.
- Stein, Wolfgang J., and R. R. Kassner, to Avco Mfg. Corp. Apparatus for producing a centrifugal compressor rotor. 2,962,941, 12-6-60, Cl. 90-13.9.
- Steinbach, Francis N.: *See*—  
Steinbach, Paul H. 2,945,918.
- Steinbach, Leonard: *See*—  
Teegarden, Robert W., and Steinbach. 2,947,780.
- Steinbach, Paul H., 1/2 to F. N. Steinbach. Push button telephone dialing mechanism. 2,945,918, 7-19-60, Cl. 179-90.



- Steinbach, Thomas M.: *See*—  
Kallman, Robert I., Steinbach, and Stoming. 2,948,575.  
Steinbacher, Friedrich, and C. S. Schmerbeck; said Steinbacher assor. to said Schmerbeck. Apparatus for concentration of solutions by selective freezing of solvent. 2,956,414, 10-18-60, Cl. 62-58.  
Steinberg, Adalberto, and A. Cavadini. Press-knob. 2,933,793, 4-26-60, Cl. 24-208.  
Steinberg, Albert H., to General Cable Corp. Method of forming semi-conductive nylon lacquer. 2,933,457, 4-19-60, Cl. 252-511.  
Steinberg, Howard, to United States Borax & Chemical Corp. Preparation of pure trialkyl borates. 2,951,864, 9-6-60, Cl. 260-462.  
Steinberg, Howard, D. L. Hunter, and E. H. Goda, to United States Borax & Chemical Corp. Means for preventing icing in jet fuels. 2,960,819, 11-22-60, Cl. 60-35.4.  
Steinberg, John C.: *See*—  
Gray, Kenneth R., Steinberg, and Crosby. 2,938,893.  
Steinberg, Meyer. Coaster with a condensate trap. 2,929,526, 3-22-60, Cl. 215-100.5.  
Steinberg, Morris A., to United States of America, Atomic Energy Commission. Method for coating graphite with metallic carbides. 2,929,741, 3-22-60, Cl. 117-114.  
Steinberg, Morris A., to Purulator Products, Inc. Method of joining powder metal parts. 2,957,235, 10-25-60, Cl. 29-424.  
Steinberg, Morris A., and R. G. McAllen, to Horizons Inc. Production of hard surfaces on base metals. 2,950,233, 8-23-60, Cl. 204-37.  
Steinberg, Nathan G.: *See*—  
Chemerdar, John M., Hirschmann, and Steinberg. 2,951,074.  
Steinberg, Richard K., to International Business Machines Corp. Multi-cathode glow transfer tube. 2,958,807, 11-1-60, Cl. 315-169.  
Steinberger, Raymond L., R. J. Colson, and H. L. Saxton. Multiple element electroacoustic transducer. 2,943,297, 6-28-60, Cl. 340-9.  
Steinbronn, George J.: *See*—  
Kennedy, Anthony, Jr., Adams, Kirby, and Steinbronn. 2,936,507.  
Steinbrugger, Wilhelm: *See*—  
Kriege, Ernst, and Steinbrugger. 2,951,845.  
Steinbuch, Karl, to International Standard Electric Corp. Method of and apparatus for locating an identification mark attached to a written or printed item. 2,928,949, 3-15-60, Cl. 250-206.  
Steinbuch, Karl, to International Standard Electric Corp. Method and apparatus for determining the position of a printed or written item with respect to an identification mark applied thereto. 2,947,972, 8-2-60, Cl. 340-149.  
Steinbuch, Marvin L., and H. W. Wyatt, to The Lunkenheimer Co. Rotary plug valve having replaceable seats. 2,950,081, 8-23-60, Cl. 251-317.  
Steine, Adolf, to General Motors Corp. Bevel gear assembly with improved lubrication assembly. 2,929,468, 3-22-60, Cl. 184-6.  
Steineck, Rudolf. Spring mechanism for automatically transporting roll films. 2,940,682, 6-14-60, Cl. 242-71.3.  
Steineck, Rudolf. Twin-lens mirror-reflex camera. 2,949,833, 8-23-60, Cl. 95-44.  
Steinemann, Ulrich, Aktiengesellschaft: *See*—  
Glaus, Bernhard. 2,935,424.  
Glaus, Bernhard. 2,963,002.  
Steinemann, Willy, and W. Wehrli, to Sandoz Ltd. Monoazo dyestuffs and their metal complex compounds. 2,961,437, 11-22-60, Cl. 260-151.  
Steinen, William F. Nozzle mounting with automatic lock for flexible plastic tubing or hose. 2,935,341, 5-3-60, Cl. 285-18.  
Steiner American Corp.: *See*—  
Blrr, Rudolph G. 2,940,720.  
Steiner, Charles S., E. Fritz, J. M. Becketl, and W. H. Kloster, to Swift & Co. Defoaming compositions and process. 2,931,780, 4-5-60, Cl. 252-321.  
Steiner, Charles S., and P. Gibson, to Swift & Co. Liquid hydrocarbon gels and uses thereof. 2,946,748, 7-26-60, Cl. 252-8.55.  
Steiner, Joseph W., and E. L. Beach, to Westinghouse Electric Corp. Luminaire and mounting means therefor. 2,935,601, 5-3-60, Cl. 240-26.  
Steiner, Klaus: *See*—  
Himmelheber, Max, Steiner, and Kull. 2,923,030.  
Steiner, Max S. Scouring pad. 2,948,911, 8-16-60, Cl. 15-209.  
Steiner, Otto H. Coin-operated ski checker. 2,963,165, 12-6-60, Cl. 211-4.  
Steiner, Phillip F., to International Harvester Co. Detachable and reattachable pivoted engine hood panel. 2,952,328, 9-13-60, Cl. 180-69.  
Steiner, Robert L., and C. C. Beiler, to Bromo-Mint Co. Chuck and tool connector. 2,965,383, 12-20-60, Cl. 279-102.  
Steiner, Roy: *See*—  
Jucker, Ernst, Ebnother, Rissi, Vogel, and Steiner. 2,955,112.  
Steinert Elektromagnethau: *See*—  
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Steinert, Emil F., to Westinghouse Electric Corp. Arc welding apparatus. 2,965,805, 12-20-60, Cl. 315-205.  
Steinert, Emil F., H. J. Bichsel, and R. V. Lester, to Westinghouse Electric Corp. Electric arc welders. 2,957,118, 10-18-60, Cl. 321-16.  
Steinert, Gerhard, to Kohlenscheidungs-Gesellschaft, m.b.H. Pulverized fuel furnace of the cyclone type. 2,939,434, 6-7-60, Cl. 122-235.  
Steingaszner, Pal: *See*—  
Varga, Jozsef, Rabo, Zalai, and Steingaszner. 2,939,835.  
Steingrübner, Arthur: *See*—  
Klein, Heinrich, Steingrübner, and Grosschopf. 2,931,162.  
Steinhagan, William K., P. L. Francis, A. C. De Wilde, Z. Popinski, and J. G. Hart, to General Motors Corp. Windshield wiper actuating mechanism. 2,932,286, 4-12-60, Cl. 121-164.  
Steinhards, Arnolds, and W. Mathes, to Dr. F. Raschig, G.m.b.H. O-ethers of pyridine aldioximes. 2,924,604, 2-9-60, Cl. 260-296.  
Steinhardt, Amos: *See*—  
Steinhardt, David W. 2,949,377.  
Steinhardt, David W. 2,949,381.  
Steinhardt, David W., deceased, A. Steinhardt and F. A. Goldwater, executors. Transfer composition containing a triphenylcarbinol compound and precipitated calcium carbonate. 2,949,377, 8-16-60, Cl. 106-272.  
Steinhardt, David W., deceased, A. Steinhardt and F. A. Goldwater, executors. Duplicating sheet coated with a colorless waxy transfer material. 2,949,381, 8-16-60, Cl. 117-36.  
Steinhausner, Armin H., and H. J. Revoir, to Minnesota Mining and Mfg. Co. Pressure-sensitive adhesive tape. 2,926,105, 2-23-60, Cl. 117-76.  
Steinhausner, Kurt. Means for securing an annular shaped winding in a magnetic body. 2,940,019, 6-7-60, Cl. 317-158.  
Steinners, Hans A., and G. T. Blackburn, to National Research Corp. High vacuum. 2,958,455, 11-1-60, Cl. 230-45.  
Steinhilper, Frank A., to Haloid Xerox Inc. Xerography. 2,955,938, 10-11-60, Cl. 96-1.  
Steinhofner, Adolf, M. Minsinger, and H. Friederich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Continuous production of hexachlorocyclopentadiene. 2,945,893, 7-19-60, Cl. 260-648.  
Steinhoff, Ernest F.: *See*—  
Dittman, Emil M., Coleman, and Steinhoff. 2,920,165.  
Steinhoff, Paul F., to Blaw-Knox Co. Method and apparatus for processing sulfur. 2,961,301, 11-22-60, Cl. 23-227.  
Steinitz, Willis S., to American Food Laboratories, Inc. Stabilizer for non-frozen water-containing ingestible materials such, for instance as foodstuffs and internal medicines. 2,935,408, 5-3-60, Cl. 99-129.  
Steinke, Carl J., to Zenith Radio Corp. Chassis pedestal. 2,935,554, 5-3-60, Cl. 174-158.  
Steinke, Fred J., to Bendix Aviation Corp. Power steering mechanism for aircraft landing gear. 2,923,497, 2-2-60, Cl. 244-50.  
Steinke, Leo, to Robert Bosch G. m. b. H. Vibratory electromagnetic device. 2,945,168, 7-12-60, Cl. 318-128.  
Steinke, Walter H., to Hughes Aircraft Co. Fast recovery follower. 2,964,711, 12-13-60, Cl. 330-70.  
Steinkohlen-Elektrizität Aktiengesellschaft: *See*—  
Justi, Eduard, Reckert, and Winsel. 2,946,836.  
Justi, Eduard, Scheibe, and Winsel. 2,928,891.  
Justi, Eduard, and Winsel. 2,925,454.  
Justi, Eduard, and Winsel. 2,947,797.  
Steinkopf, Wolfgang: *See*—  
Bogen, Wolfgang, and Steinkopf. 2,932,697.  
Steinman, Leon H., to Litton Industries of California. Phase shift-to-non-numeric signal train converter. 2,933,722, 4-19-60, Cl. 340-347.  
Steinman, Leon H., and M. L. MacKnight, to Litton Industries of California. Redundant transistor flip-flops. 2,946,900, 7-26-60, Cl. 307-88.5.  
Steinman, Marvin. Cyclically changeable display device. 2,957,259, 10-25-60, Cl. 40-36.  
Steinmetz, John C.: *See*—  
Meadows, Harry M., and Steinmetz. 2,931,341.  
Steinmetz, Floyd, to General Slicing Machine Co., Inc. Slicing machine with detachable disc blade. 2,935,106, 5-3-60, Cl. 146-102.  
Steinmetz, James M.: *See*—  
Eichhorn, Jacob, and Steinmetz. 2,945,842.  
Steinmetz, William J. Dispensing device. 2,944,707, 7-12-60, Cl. 222-254.  
Steinruck, Albert B., to Proctor & Schwartz, Inc. Apparatus for making nubs. 2,923,980, 2-9-60, Cl. 19-99.  
Steinthal, Augustus J., to M. Steinthal & Co., Inc. Drag chute system for aircraft. 2,949,263, 8-16-60, Cl. 244-113.  
Steinthal, M., & Co., Inc.: *See*—  
Sepp, Oscar W., Jr. 2,949,266.  
Sepp, Oscar W., Jr. 2,960,296.  
Steinthal, Augustus J. 2,949,263.  
Steinwedel, Helmut: *See*—  
Paul, Wolfgang, and Steinwedel. 2,939,952.  
Steiro, Harry. Machine for making concrete pipes. 2,926,411, 3-1-60, Cl. 25-30.  
Steisslinger, Kurt, to Eastman Kodak Co. Photographic camera with coupled exposure meter. 2,928,323, 3-15-60, Cl. 95-10.



- Steltz, Alfred, Jr.: *See*—  
Hopson, William H., Sharp, and Steltz. 2,939,864.
- Steltz, Alfred, Jr., to Pan American Petroleum Corp. Process for effecting partial oxidation of hydrocarbons. 2,920,096, 1-5-60, Cl. 260—451.
- Stell, James E., to United States of America, Navy. Device for supplying blinking voltage. 2,955,249, 10-4-60, Cl. 323—89.
- Stella, Joseph P.: *See*—  
Chester, Allan E., and Stella. 2,935,422.
- Stella, Michael: *See*—  
Moran, Arnold J., Jr. 2,946,106.
- Stella di Giulio, Pietro. Apparatus for automatically controlling the temperature of liquids. 2,923,478, 2-2-60, Cl. 236—12.
- Stelling, Walter R., Jr., and E. S. Faulls, Jr., to Faustel, Inc. Blank feeding mechanism. 2,954,975, 10-4-60, Cl. 271—7.
- Stelljes, Charles R.: *See*—  
Lamkin, Richard C., Stelljes, and Etherington. 2,934,023.
- Stelljes, Charles R., J. E. Bridgeford, and J. Kudlick, to The Murray Corp. of America. Drier lint trap. 2,964,851, 12-20-60, Cl. 34—82.
- Stelma, Inc.: *See*—  
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- Stelmachowski, Carl: *See*—  
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- Stelzer, James S., to The Weatherhead Co. Rupturable union device. 2,958,545, 11-1-60, Cl. 285—3.
- Stelzer, James S., to The Weatherhead Co. Air spring control valve. 2,964,311, 12-13-60, Cl. 267—65.
- Stelzer, William, to Kelsey-Hayes Co. Tractor-trailer brake system. 2,922,679, 1-26-60, Cl. 303—31.
- Stelzer, William. Safety device for elevators. 2,923,379, 2-2-60, Cl. 187—13.
- Stelzer, William, to Kelsey-Hayes Co. Booster brake mechanism. 2,929,215, 3-22-60, Cl. 60—54.6.
- Stelzer, William, to Kelsey-Hayes Co. Booster brake mechanism. 2,929,216, 3-22-60, Cl. 60—54.6.
- Stelzer, William, to Kelsey-Hayes Co. Booster brake mechanism. 2,929,363, 3-22-60, Cl. 121—41.
- Stelzer, William, to Kelsey-Hayes Co. Booster mechanism. 2,934,042, 4-26-60, Cl. 121—41.
- Stelzer, William, to Kelsey-Hayes Co. Emergency vacuum system. 2,935,167, 5-3-60, Cl. 192—3.
- Stelzer, William, to W. Eickel. Sanitary faucet. 2,935,291, 5-3-60, Cl. 251—263.
- Stelzer, William, to Kelsey-Hayes Co. Tractor-trailer brake system. 2,941,844, 6-21-60, Cl. 303—7.
- Stelzer, William, to Kelsey-Hayes Co. Fluid pressure booster system. 2,945,352, 7-19-60, Cl. 60—54.6.
- Stelzer, William, to Kelsey-Hayes Co. Tractor-trailer brake system. 2,945,726, 7-19-60, Cl. 303—31.
- Stelzer, William, to Kelsey-Hayes Co. Tractor-trailer brake system. 2,945,728, 7-19-60, Cl. 303—63.
- Stelzer, William, to Kelsey-Hayes Co. Booster brake mechanism. 2,952,978, 9-20-60, Cl. 60—54.6.
- Stelzer, William, to Kelsey-Hayes Co. Motor mechanism. 2,957,311, 10-25-60, Cl. 60—52.
- Stelzer, William, to Kelsey-Hayes Co. Booster brake mechanism. 2,957,454, 10-25-60, Cl. 121—41.
- Stelzer, William, to Kelsey-Hayes Co. Tractor-trailer brake system. 2,965,130, 12-20-60, Cl. 137—496.
- Stem, Donald E. Magnetic separators. 2,919,803, 1-5-60, Cl. 209—223.
- Stem, Eugene C., to Western Electric Co., Inc. Snaggers for continuous take-up apparatus. 2,946,529, 7-26-60, Cl. 242—25.
- Stember, Bernard, and M. Siegel, to Aristocrat Leather Products, Inc. Purses and method of making them. 2,923,338, 2-2-60, Cl. 150—29.
- Stempel, Arthur: *See*—  
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- Stenberg, Joseph. Distributor for liquid fertilizers and the like. 2,960,261, 11-15-60, Cl. 222—478.
- Stenberg, Nyrikki K. Dry-feed chlorinator and the like. 2,957,494, 10-25-60, Cl. 137—559.
- Stenberg, Russell J.: *See*—  
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- Stenby, Walter H. Sighting devices. 2,925,657, 2-23-60, Cl. 33—47.
- Stencel, Fred B., to Amcel Propulsion Inc. Method for folding parachutes and product thereof. 2,936,138, 5-10-60, Cl. 244—148.
- Stencel, Fred B., to Amcel Propulsion, Inc. Fast-acting parachutes. 2,949,267, 8-16-60, Cl. 244—147.
- Stencel, Fred B., to Amcel Propulsion, Inc. Fast-acting parachutes. 2,953,333, 9-20-60, Cl. 244—147.
- Stencel, Fred B., to Amcel Propulsion, Inc. Fast-acting parachutes. 2,953,334, 9-20-60, Cl. 244—147.
- Stencel, Fred B., to Amcel Propulsion, Inc. Fast-acting parachutes. 2,957,664, 10-25-60, Cl. 244—147.
- Stencel, Fred B., to Amcel Propulsion Inc. Fast-acting parachutes. 2,965,337, 12-20-60, Cl. 244—147.
- Sten-C-Lab Inc.: *See*—  
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- Stengel, Guenther: *See*—  
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- Stengel, Leonard A., to Commercial Solvents Corp. Prilling of ammonium nitrate. 2,934,412, 4-26-60, Cl. 23—302.
- Stengel, Leonard A., to Commercial Solvents Corp. Stable propellants. 2,951,335, 9-6-60, Cl. 60—35.4.
- Stengel, Leonard A., to Commercial Solvents Corp. Process and apparatus for vaporization of nitric acid. 2,954,013, 9-27-60, Cl. 122—31.
- Stengel, Leonard A., to Commercial Solvents Corp. Stable propellants. 2,958,182, 11-1-60, Cl. 60—35.4.
- Stengel, Leonard A., and E. E. Toops, Jr., to Commercial Solvents Corp. Liquid fuels for reaction motors. 2,947,618, 8-2-60, Cl. 52—5.
- Stengele, Willi, to Filitrox-Werk A.G. Apparatus for applying and lifting heavy covers on containers. 2,923,430, 2-2-60, Cl. 220—38.
- Stent, Harold H.: *See*—  
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- Stenudd, Sven G. V., to Aktiebolaget Atvidabergs Industrier. Electrodynamic driving devices and recording apparatus incorporating such devices. 2,927,227, 3-1-60, Cl. 310—25.
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- Stephan, Hermann: *See*—  
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- Stephan, John T. Polymeric alkylene-oxide defoamer material for alkaline aqueous adhesive solutions and the like. 2,937,104, 5-17-60, Cl. 106—154.
- Stephan, John T. Fish bait. 2,951,761, 9-6-60, Cl. 99—3.
- Stephan, John T. Process of dyeing bait fish eggs while compressed together, and bait eggs formed thereby. 2,961,319, 11-22-60, Cl. 99—3.
- Stephan, Joseph. Placer type units for the recovery of mineral values. 2,944,668, 7-12-60, Cl. 209—443.
- Stephan, Kurt: *See*—  
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- Stephan, Paul G., to E. I. du Pont de Nemours and Co. Filtering apparatus. 2,956,682, 10-18-60, Cl. 210—291.
- Stephanou, Stephen E.: *See*—  
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- Stephanou, Stephen E., to E. I. du Pont de Nemours and Co. Method of producing free-flowing compositions containing an alkali metal monopersulfate and the composition produced thereby. 2,932,556, 4-12-60, Cl. 23—114.
- Stephany, Emil W. Collapsible ironing board. 2,950,552, 8-30-60, Cl. 38—139.
- Stephen, James E.: *See*—  
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- Stephen, William C. Temporary ignition disabling means. 2,928,483, 3-15-60, Cl. 180—82.
- Stephen, William E.: *See*—  
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- Baker, Ronald, Hadfield, Johnson, and Stephen. 2,953,560.
- Baker, Ronald, Hadfield, Johnson, and Stephen. 2,964,520.
- Johnson, Joel R., Lach, and Stephen. 2,944,332.
- Stephen, William E., to Imperial Chemical Industries Ltd. New monoazo dyestuffs. 2,951,836, 9-6-60, Cl. 260—153.
- Stephen, William E., and C. G. Tilley, to Imperial Chemical Industries Ltd. Monoazo dyestuffs. 2,951,070, 8-30-60, Cl. 260—153.
- Stephen, William F.: *See*—  
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- Stephens-Adamson Mfg. Co.: *See*—  
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- Glavan, Richard. 2,952,897.
- Glavan, Richard. 2,952,899.
- Glavan, Richard. 2,952,900.
- Glavan, Richard, and King. 2,952,898.
- King, Robert L. 2,952,901.
- Renner, Elmer J. 2,966,065.
- Sinden, Alfred D. 2,950,809.
- Stephens, Allen J., to The Mechanex Corp. Valve stem locks. 2,937,685, 5-24-60, Cl. 152—427.
- Stephens, Allen J. Wheel hub sealing units. 2,945,708, 7-19-60, Cl. 286—5.
- Stephens, Benjamin F. Fabricated valve structure for automatic water injectors. 2,932,314, 4-12-60, Cl. 137—351.
- Stephens, Charles R., Jr., to Chas. Pfizer & Co., Inc. Halogenated oxynaphthotetralones. 2,929,825, 3-22-60, Cl. 260—351.
- Stephens, Donald L., to Pacific Car and Foundry Co. Cycloidal propeller having low frictional drag losses of the rotor. 2,950,764, 8-30-60, Cl. 170—147.
- Stephens, Frederick J., C. M. Smith, and E. E. Crane, to Smith Mfg. Co. Ltd. Rug cushions. 2,957,780, 10-25-60, Cl. 117—10.
- Stephens, Frederick N.: *See*—  
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- Stephens, James R., to Standard Oil Co. Trimellitic imideamide. 2,960,509, 11-15-60, Cl. 260—326.
- Stephens, James R., and L. Rapoport, to American Cyanamid Co. Carbamylethyl starch. 2,938,026, 5-24-60, Cl. 260—233.3.
- Stephens, Joe F., to General Electric Co. Electric discharge device. 2,948,827, 8-9-60, Cl. 313—318.



- Stephens, John L., to Allis-Chalmers Mfg. Co. Check valve having closed circuit hydraulic shock absorbing system. 2,927,605, 3-8-60, Cl. 137—514.5.
- Stephens, Joseph F., to Gustin-Bacon Mfg. Co. Ventilating air discharge muffler. 2,950,776, 8-30-60, Cl. 181—42.
- Stephens, Joseph F., to Gustin-Bacon Mfg. Co. Glass fiber reinforced tape and method of making same. 2,951,003, 8-30-60, Cl. 154—90.
- Stephens, Joseph F., and G. W. Kerr, to Gustin-Bacon Mfg. Co. Method of making thermal pipe insulation. 2,946,371, 7-26-60, Cl. 154—28.
- Stephens, McDonald L.: *See—*  
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- Stephens, Roderick L.: *See—*  
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- Stephens, William R. Drapery fixture. 2,942,659, 6-28-60, Cl. 160—126.
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- Le May, Christopher A. G., and Stephenson. 2,949,600.
- Stephenson, Hugh M. Television receiver screen. 2,922,998, 1-26-60, Cl. 340—369.
- Stephenson, Revis L., and E. H. Dewey, to United States Hoffman Machinery Corp. Vacuum cleaner. 2,937,713, 5-24-60, Cl. 183—89.
- Sterba, Donald R.: *See—*  
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- Sterbentz, Frank J.: *See—*  
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- Sterick, Harrison D. Ingot mold insert mat. 2,933,788, 4-26-60, Cl. 22—139.
- Sterick, Harrison D. Salamander burners. 2,950,713, 8-30-60, Cl. 126—85.
- Sterick, Harrison D. Heating unit. 2,950,714, 8-30-60, Cl. 126—92.
- Sterk, Andrew A., to North American Philips Co., Inc. Timer arrangement. 2,965,843, 12-20-60, Cl. 324—68.
- Sterkel, Jake, deceased (Denver National Bank, administrator), to Dayton Tandem V-Belt Drive Co. V-belt sheaves. 2,933,935, 4-26-60, Cl. 74—230.5.
- Sterlin, Aaron, to Nalco Chemical Co. Process of inhibiting corrosion. 2,945,821, 7-19-60, Cl. 252—392.
- Sterling, Con F. Bottle stopple. 2,940,107, 6-14-60, Cl. 15—140.3.
- Sterling Drug Inc.: *See—*  
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Crounse, Nathan N. 2,937,997.  
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- Sterling, Evelyn H., and B. M. Reid: said Reid assor. to said Sterling. Headband for excluding water from bathing caps. 2,929,071, 3-22-60, Cl. 2—68.
- Sterling, George B., to The Dow Chemical Co. High-fold endurance paper and method of making the same. 2,932,603, 4-12-60, Cl. 162—164.
- Sterling, George B., to The Dow Chemical Co. Calking and sealing composition containing synthetic conjugated diolefin copolymers. 2,956,972, 10-18-60, Cl. 260—23.7.
- Sterling, Henry: *See—*  
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- Sterling, Henley F., to International Standard Electric Corp. Manufacture of semiconductor material. 2,955,966, 10-11-60, Cl. 148—1.5.
- Sterling Plastics Co.: *See—*  
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- Sterling Precision Corp.: *See—*  
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- Stern, Arthur P.: *See—*  
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- Stern, Arthur P., to General Electric Co. Color television system. 2,920,132, 1-5-60, Cl. 178—5.4.
- Stern, Arthur P., to General Electric Co. Neutralized semiconductor amplifier. 2,929,887, 3-22-60, Cl. 179—171.
- Stern, Daniel: *See—*  
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- Stern, David R.: *See—*  
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- Stern, David R., to American Potash & Chemical Corp. Preparation of lithium perchlorate. 2,929,680, 3-22-60, Cl. 23—85.
- Stern, David R., to American Potash & Chemical Corp. Process for manufacture of lithium nitrate. 2,959,463, 11-8-60, Cl. 23—102.
- Stern, David R., and Q. H. McKenna, to American Potash & Chemical Corp. Preparation of metal borides and silicides. 2,936,268, 5-10-60, Cl. 204—61.
- Stern, David R., and L. Lynds, to American Potash & Chemical Corp. Alkylidihaloborines. 2,940,999, 6-14-60, Cl. 260—543.
- Stern, Edward S., and R. L. Watt, to J. F. MacFarlan & Co. Ltd. Piperidine compounds. 2,960,507, 11-15-60, Cl. 260—294.7.
- Stern, Ernest, to Sperry Rand Corp. Microwave harmonic generator. 2,961,617, 11-22-60, Cl. 331—77.
- Stern, Frank: *See—*  
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- Stern, Hans M.: *See—*  
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- Stern, Hans M., to The Magnavox Co. Card processing apparatus. 2,927,791, 3-8-60, Cl. 271—11.
- Stern, Hansjoerg, to General Electric Co. Hydraulic unit having stroking force compensation. 2,958,295, 11-1-60, Cl. 103—161.
- Stern, Joseph E.: *See—*  
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- Stern Max H., to Eastman Kodak Co. Synthesis of  $\beta$ -carotene. 2,945,069, 7-12-60, Cl. 260—606.5.
- Stern, Robert G., and A. J. Sherman, to Curtiss-Wright Corp. Flight training apparatus for simulating low level flight. 2,924,027, 2-9-60, Cl. 35—12.
- Stern, Robert G., and C. E. Theobald, Jr., to Curtiss-Wright Corp. Simulated wing flaps control system. 2,926,430, 3-1-60, Cl. 35—12.
- Stern, Robert M., to Pabst Brewing Co. Production of vitamin B<sub>2</sub>. 2,923,666, 2-2-60, Cl. 195—80.
- Stern, Rudolph E.: *See—*  
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- Stern, Sumner, to United States of America, Navy. Electrical resistor. 2,922,974, 1-26-60, Cl. 338—116.
- Stern, Tobias: *See—*  
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- Stern, William, to Illinois Tool Works. Nut and sealing washer assembly with inclined securing tongues. 2,943,661, 7-5-60, Cl. 151—38.
- Stern, William C., to Illinois Tool Works. Assembling machine. 2,927,333, 3-8-60, Cl. 10—155.
- Sternbanc, Oscar H.: *See—*  
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- Sternberg, Alexander G., to Steelcote Mfg. Co. Resurfaced concrete structure. 2,934,452, 4-26-60, Cl. 117—2.
- Sternberg, Robert L.: *See—*  
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- Sternberg, Douglas S., to General Controls Co. Automatic control system for optional heating and cooling. 2,957,680, 10-25-60, Cl. 257—287.
- Sternberg, Ernest L. Waste receptacle for vehicles. 2,958,499, 11-1-60, Cl. 248—346.
- Sternberg, John B., to United States of America, Navy. Self destruction circuit for projectile fuzes. 2,935,022, 5-3-60, Cl. 102—70.2.
- Sternberg, Melvin F.: *See—*  
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- Sternberg, Melvin F., to Holley Carburetor Co. Means for starting and operating internal combustion engines. 2,939,445, 6-7-60, Cl. 123—119.
- Sternberg, Melvin F., M. L. Smitley, and J. E. Francis, to Holley Carburetor Co. Means for starting and operating internal combustion engines. 2,956,558, 10-18-60, Cl. 123—119.
- Sternlicht, Beno, to General Electric Co. Functional bearings. 2,961,277, 11-22-60, Cl. 308—78.
- Stern's, Max, Sons Co.: *See—*  
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- Sterrett, Vance C., and W. H. Peters. Valve construction. 2,946,343, 7-26-60, Cl. 137—390.
- Sterry, William M., to Boeing Airplane Co. Porcelain enameled foil labels. 2,963,805, 12-13-60, Cl. 40—2.
- Sterzer, Fred, to Radio Corp. of America. Electron collector. 2,955,225, 10-4-60, Cl. 315—3.5.
- Sterzer, Walter G.: *See—*  
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- Stetina, Joseph J., to Tri-Angle Tool & Machine Works, Inc. Spider for holding casting molds. 2,932,854, 4-19-60, Cl. 18—43.
- Stetson, Alvin R., to Solar Aircraft Co. Aluminum coating processes and compositions. 2,927,043, 3-1-60, Cl. 117—63.
- Stetson, John. Sewer connector for rotating building. 2,927,599, 3-8-60, Cl. 137—247.
- Stetson, John B., Co.: *See—*  
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- Kirby, Henry L. 2,930,101.
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- Stetzler, Grant F., to Western Electric Co., Inc. Testing apparatus. 2,934,705, 4-26-60, Cl. 324—158.
- Steube, Casimira H.: *See—*  
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- Steube, Harry C.: *See*—  
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- Steuber, Charles H., and M. S. Gottleib, to Hodges Research and Development Co. Frankfurter cookers. 2,951,433, 9-6-60, Cl. 99—337.
- Steuber, Walter, to E. I. du Pont de Nemours and Co. Elastic filaments of linear segmented polymers. 2,929,804, 3-22-60, Cl. 260—77.5.
- Steuber, Walter, to E. I. du Pont de Nemours and Co. Process of producing shaped bodies by combining reactive intermediates, at least one of which intermediates is in the vapor phase. 2,935,372, 5-3-60, Cl. 18—54.
- Steuler-Industriewerke Gesellschaft mit beschränkter Haftung: *See*—  
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- Steuler, Norbert, to Steuler-Industriewerke Gesellschaft mit beschränkter Haftung. Building blocks. 2,933,920, 4-26-60, Cl. 72—38.
- Steur, Richard G.: *See*—  
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- Steven, Steven J. Extensible racks for ties or the like. 2,937,911, 5-24-60, Cl. 312—312.
- Stevens, Arthur J., to Technical Operations Inc. Radiographic device. 2,955,208, 10-4-60, Cl. 250—108.
- Stevens, Bernard, and E. S. Wassel, to United States of America, Air Force. Automatic gun charger. 2,920,530, 1-12-60, Cl. 89—1.
- Stevens, Brooks, Jr., to Ames Textile Corp. Pile loop severing apparatus and method. 2,940,284, 6-14-60, Cl. 66—91.
- Stevens, Bruce W.,  $\frac{1}{2}$  to L. W. Evans. Shell retainer mounted on extractor. 2,952,933, 9-20-60, Cl. 42—1.
- Stevens, Charles H., Jr., to J. B. Nottingham & Co., Inc. Cable splicing. 2,923,761, 2-2-60, Cl. 174—88.
- Stevens, Charles R., Inc.: *See*—  
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Reed, Arthur M. 2,940,617.
- Stevens, Clarence, to The Filtrix Corp. Agitator for vacuum cleaner rug nozzles. 2,921,331, 1-19-60, Cl. 15—365.
- Stevens, Clifford B., to Outboard Marine Corp. Sedan-type boat. 2,947,277, 8-2-60, Cl. 114—71.
- Stevens, Donald E., and W. J. Deau, to Osceola Equipment Corp. Refrigerated display units. 2,936,597, 5-17-60, Cl. 62—256.
- Stevens, Donald R.: *See*—  
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- Stevens, Emerson W., to Bell Aerospace Corp. Aircraft power plant. 2,961,198, 11-22-60, Cl. 244—74.
- Stevens, Eric S., to John Oster Mfg. Co. Lather making machine. 2,925,202, 2-16-60, Cl. 222—190.
- Stevens, Ernest R.: *See*—  
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- Stevens, Fred C., to The Richardson Co. Cylindrical article. 2,930,408, 3-29-60, Cl. 138—78.
- Stevens, Fred K.: *See*—  
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- Stevens, Frederic B., Inc.: *See*—  
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- Stevens, Geo., Mfg. Co.: *See*—  
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- Stevens, George L., to The Garrett Corp. Thrust compensating device for axially inclined butterfly valves. 2,934,312, 4-26-60, Cl. 251—283.
- Stevens, Gerard. Hauling removing device for agricultural digging machines. 2,937,748, 5-24-60, Cl. 209—78.
- Stevens, Harold E.: *See*—  
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- Stevens, Harris M.,  $\frac{1}{2}$  to W. O. Gilliland. Tractor chain link. 2,920,926, 1-12-60, Cl. 305—10.
- Stevens, Henry C.: *See*—  
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- Stevens, Horace D., to The Firestone Tire & Rubber Co. Fabric edge turning apparatus. 2,929,437, 3-22-60, Cl. 154—1.8.
- Stevens, J. P., & Co., Inc.: *See*—  
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- Stevens, James I.: *See*—  
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- Stevens, Joel B.: *See*—  
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- Stevens, Joel B., to Eastman Kodak Co. Process for preparing tobacco smoke filtering elements. 2,964,440, 12-13-60, Cl. 154—91.
- Stevens, John A., to Paper Products, Inc. Gas treatment device. 2,929,761, 3-22-60, Cl. 167—39.
- Stevens, John A., to The Dow Chemical Co. Anode for magnesium primary cells. 2,934,583, 4-26-60, Cl. 136—100.
- Stevens, John W.: *See*—  
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- Stevens Mfg. Co., Inc.: *See*—  
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- Stevens, Martin L., and N. R. Richmond, to The Kaman Aircraft Corp. Clutch mechanism for a helicopter. 2,960,202, 11-15-60, Cl. 192—85.
- Stevens, Michael C.: *See*—  
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- Stevens, Myron C., to Borg-Warner Corp. Capillary refrigerating systems. 2,956,421, 10-18-60, Cl. 62—511.
- Stevens, Norman B., and J. A. Hart, to Motorola, Inc. Spark compressor and trigger for spark discharge light. 2,922,066, 1-19-60, Cl. 313—205.
- Stevens, Paul M., and M. F. Krause, to Northrop Corp. Electro-hydraulic vibration machine. 2,955,460, 10-11-60, Cl. 73—71.6.
- Stevens, Peter, to Roehr Products Co., Inc. Hypodermic needle assembly. 2,941,531, 6-21-60, Cl. 128—221.
- Stevens, Quinn O. Golf club. 2,941,806, 6-21-60, Cl. 273—81.2.
- Stevens, Richard M., to United Aircraft Corp. Fuel-air starter and control system therefor. 2,925,713, 2-23-60, Cl. 60—39.14.
- Stevens, Rollin E., to United States of America, Interior. Covered wire triangles for heating crucibles in chemical analysis. 2,936,222, 5-10-60, Cl. 23—292.
- Stevens, Rowland E., to Conde Milking Machine Co., Inc. Pipe line milking system. 2,929,354, 3-22-60, Cl. 119—14.54.
- Stevens, Roy R., and R. C. Brooks, to Westinghouse Air Brake Co. Pitch control arrangement for variable pitch propellers. 2,958,381, 11-1-60, Cl. 170—135.72.
- Stevens, Samuel N., to The Timken Roller Bearing Co. Electronic inspection apparatus. 2,944,667, 7-12-60, Cl. 209—111.
- Stevens, William D.: *See*—  
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- Stevens, William E. Bumper jack support. 2,945,663, 7-19-60, Cl. 248—170.
- Stevenson, Allan B., to American Siskraft Corp. Method and apparatus for depositing cut lengths of filament transversely of a moving web. 2,936,022, 5-10-60, Cl. 154—1.7.
- Stevenson, Betty F. Milk carton drip receptacle. 2,944,700, 7-12-60, Cl. 220—85.
- Stevenson, Derek A.: *See*—  
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- Stevenson, Donald L., and J. L. Gallagher, to Consolidated Vacuum Corp. Heater for a diffusion pump. 2,943,784, 7-5-60, Cl. 230—101.
- Stevenson, Gerald W. Positive variable speed transmission. 2,920,506, 1-12-60, Cl. 74—774.
- Stevenson, Herbert A., J. R. Marshall, and A. F. Hams, to Boots Pure Drug Co. Ltd. Organic isothiocyanate fungicides. 2,937,970, 5-24-60, Cl. 167—30.
- Stevenson, Herbert A., J. R. Marshall, and A. F. Hams, to Boots Pure Drug Co. Ltd. Acyclic and aromatic sulphonylphenyl isothiocyanates. 2,938,042, 5-24-60, Cl. 260—397.6.
- Stevenson, Herbert A., N. G. Clark, J. E. Cranham, and D. J. Higgons, to Boots Pure Drug Co. Ltd. New fluorine-containing compounds. 2,938,829, 5-31-60, Cl. 167—30.
- Stevenson, Herbert A., N. G. Clark, J. R. Marshall, D. Greenwood, J. E. Cranham, and D. J. Higgons, to Boots Pure Drug Co. Ltd. P-bromobenzyl P-bromophenyl sulfide. 2,938,928, 5-31-60, Cl. 260—609.
- Stevenson, Horace S.: *See*—  
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- Stevenson, Ian W., to Kelvin & Hughes Ltd. Control of physical characteristics. 2,928,954, 3-15-60, Cl. 250—230.
- Stevenson, John S., to Minneapolis-Honeywell Regulator Co. Light ring indicating apparatus. 2,928,082, 3-8-60, Cl. 340—324.
- Stevenson, Lawrence J.: *See*—  
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- Stevenson, Peter C., to United States of America, Atomic Energy Commission. Treatment for improving the operation of strong base anion exchange resins. 2,962,351, 11-29-60, Cl. 23—87.
- Stevenson, Thomas, to United States of America, Army. Incendiary composition. 2,951,752, 9-6-60, Cl. 52—24.
- Stevenson, Walter R., and W. F. Yanik, to Borg-Warner Corp. Clothes dryer. 2,950,539, 8-30-60, Cl. 34—45.
- Stevinson, Harry T., to National Research Council. Crash position indicator for aircraft. 2,959,671, 11-8-60, Cl. 250—17.
- Steward, Benjamin F. and M. C. Cake-layer cutters. 2,964,184, 12-20-60, Cl. 30—116.
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- Steward, Lewis B., and J. S. Hawkins, to Jennings Radio Mfg. Corp. Vacuum relay. 2,920,162, 1-5-60, Cl. 200—104.
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- Stewart, Aubrey P., R. A. Johnson, and P. T. Anderson, said Johnson and said Anderson assors. to said Stewart. Process for making flavored sterilized milk drinks. 2,924,531, 2-9-60, Cl. 99—212.
- Stewart, Aubrey P., Jr. Process and apparatus for preparation of flavor bases. 2,942,985, 6-28-60, Cl. 99—140.
- Stewart, Basil O., and H. J. Schneider, to National Gypsum Co. Sound absorptive structure. 2,933,147, 4-19-60, Cl. 181—33.
- Stewart, Bruce D., to McKiernan-Terry Corp. Calender for friction, schreiner, embossing and other services. 2,931,113, 4-5-60, Cl. 38—49.
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- Stewart, Clarence R. G.: *See*—  
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- Stewart, Donald J. Magnetic switch chopper. 2,934,621, 4-26-60, Cl. 200—90.
- Stewart Engineering Co.: *See*—  
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- Stewart, Gene A. Corneal clamp. 2,929,603, 3-22-60, Cl. 248—361.
- Stewart, Harold J. Attachable neckties. 2,919,444, 1-5-60, Cl. 2—150.
- Stewart, Howard J., to Union Spring and Mfg. Co. Spring and holder assembly. 2,930,605, 3-29-60, Cl. 267—1.
- Stewart, Howard J., to Union Spring and Mfg. Co. Spring and holder assembly. 2,942,868, 6-28-60, Cl. 267—1.
- Stewart, Hubert L. Locomotion device. 2,950,120, 8-23-60, Cl. 280—12.1.
- Stewart, Iain M., to Thermotank Inc. Air distributor. 2,923,224, 2-2-60, Cl. 98—40.
- Stewart, James B. Massage table. 2,924,216, 2-9-60, Cl. 128—33.
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- Stewart, James W., to Marbill Co. Machine for operating on the bottoms of shoes. 2,923,016, 2-2-60, Cl. 12—1.
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- Stewart, Kenneth M. Door closer or the like. 2,959,806, 11-15-60, Cl. 16—80.
- Stewart, L. D.: *See*—  
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- Stewart, Malcolm G., to Imperial Chemical Industries Ltd. Power gas generating cartridges for the actuation of engine starters. 2,949,854, 8-23-60, Cl. 102—39.
- Stewart, Merrick W., to Emerson Radio & Phonograph Corp. Mail handling apparatus. 2,929,490, 3-22-60, Cl. 198—33.
- Stewart, Paul H., and R. W. Karlson, to Eastman Kodak Co. Nitrosopyrimidine desensitizing compounds and photographic emulsions containing them. 2,947,629, 8-2-60, Cl. 96—101.
- Stewart, Richard F., to Texas Instruments Inc. Arrangement for increasing heat dissipation in semi-conductor device. 2,963,631, 12-6-60, Cl. 317—235.
- Stewart, Robert F., to General Communication Co. Coaxial switch. 2,951,925, 9-6-60, Cl. 200—153.
- Stewart, Robert J., to The Bulman Corp. Shelf supporting bracket. 2,936,147, 5-10-60, Cl. 248—243.
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- Stewart, Selden L., II, and M. B. Waldin. Rock excavating machine. 2,935,801, 5-10-60, Cl. 37—86.
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- Stewart, Trigg. Diver held depth gauge. 2,935,873, 5-10-60, Cl. 73—300.
- Stewart, Vincent N., to General Electric Co. Rejection type fuse clip. 2,943,295, 6-28-60, Cl. 339—258.
- Stewart, Walter E., to The American Welding & Mfg. Co. Method of making rocket nozzles. 2,956,334, 10-18-60, Cl. 29—157.
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- Stibbe, G., & Co. Ltd.: *See*—  
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- Stich, Wilhelm, to Firma Bochumer Verein Fuer Gusstohl-Fabrikation A.G. Heating apparatus. 2,926,235, 2-23-60, Cl. 219—156.
- Stich, Wilhelm, and H. Huette, to Bochumer Verein Fuer Gusstahlfabrikation, Aktiengesellschaft. Electrical heating apparatus. 2,931,892, 4-5-60, Cl. 219—156.
- Stickel, Carl A., to General Motors Corp. Washing machine. 2,932,962, 4-19-60, Cl. 68—131.
- Stickel, Harold A., to Secode Corp. Multiple contact selector switch. 2,947,973, 8-2-60, Cl. 340—164.
- Stickel, Harold A. Code selective device. 2,947,974, 8-2-60, Cl. 340—164.
- Stickelber, Merlin A., to Stickelber & Sons, Inc. Dough detecting stop for loaf molders. 2,965,047, 12-20-60, Cl. 107—12.
- Stickelber & Sons, Inc.: *See*—  
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- Stickney, Harold S. Conduit cleaning device. 2,961,675, 11-29-60, Cl. 15—104.3.
- Stidger, Clifford W., to Gerber Products Co. Bi-stable relay circuit. 2,922,086, 1-19-60, Cl. 317—151.
- Stieber, Joseph A., and J. B. Weldon. Map projections demonstrator. 2,932,907, 4-19-60, Cl. 35—46.
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- Stiebling, Ewald, and F. Rappen, to Ruhrchemie Aktiengesellschaft. Process for the production of polyethylene. 2,962,492, 11-29-60, Cl. 260—94.9.
- Stiefel, Rudy C., to Sperry Rand Corp., Ford Instrument Co. Division. Large scale memory device. 2,940,068, 6-7-60, Cl. 340—174.
- Stiefel, Rudy C., and W. Miller, to Sperry Rand Corp., Ford Instrument Co. Division. Keyboard transmitter. 2,932,816, 4-12-60, Cl. 340—174.
- Stieg, William E., to Chas. Pfizer & Co., Inc. Preparation of  $\alpha$ -halo- $\alpha$ -aceto- $\gamma$ -butyrolactones. 2,932,653, 4-12-60, Cl. 260—343.6.
- Stiegele, Karl E. Cuff- and collar-button. 2,919,480, 1-5-60, Cl. 24—97.
- Stier, Reinhart, to Robert Bosch, G.m.b.H. Hydraulic system for automatically adjusting the relative angular position of two coaxial rotary bodies. 2,950,610, 8-30-60, Cl. 64—24.
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- Stiers, Vern E., to Far Western Chemical Co., Inc. Closed condensate return and boiler feed system. 2,931,344, 4-5-60, Cl. 122—1.
- Stiewing, Richard B., and C. H. Hurliman, Jr. Measuring dispenser. 2,941,701, 6-21-60, Cl. 222—409.
- Stiff, Bernard G. E., to High Voltage Engineering Corp. Vacuum-tight flanged pipe coupling. 2,944,842, 7-12-60, Cl. 285—368.
- Stiffel, Theophile A. Lighting fixture. 2,922,031, 1-19-60, Cl. 240—81.
- Stiffel, Theophile A. Self adjustable leveling means. 2,942,829, 6-28-60, Cl. 248—193.
- Stiffel, Theophile A. Lighting fixtures. 2,965,751, 12-20-60, Cl. 240—52.1.
- Stiffler, Harold F. Apparatus for intermittently feeding film. 2,953,965, 9-27-60, Cl. 88—18.
- Stiffler, Hugh A. Auxiliary ladder rung. 2,941,617, 6-12-60, Cl. 182—120.
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- Stigler, Willard R.: *See*—  
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- Stigler, Willard R., and W. Drabik, to General Motors Corp. Method and wedges for conducting heat from slots of dynamoelectric machine. 2,945,139, 7-12-60, Cl. 310-214.
- Stiglic, Paul M., and G. L. Mrava, to Thompson Ramo Wooldridge Inc. Pneumatic temperature sensor. 2,961,166, 11-22-60, Cl. 236-102.
- Stiglin, Vincent. Vehicle illumination. 2,921,180, 1-12-60, Cl. 240-7.1.
- Stihl, Andreas. Chain for motor chain saws. 2,963,055, 12-6-60, Cl. 143-135.
- Stijntjes, Gerardus J. F.: *See*—  
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- Stiles, Lloyd C., and R. C. Bertossa, to Chicago Bridge & Iron Co. Method of forming clad metal plates. 2,919,487, 1-5-60, Cl. 29-471.5.
- Stiles, Philip H.: *See*—  
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- Stiles, Samuel R., to The M. W. Kellogg Co. Regeneration of adsorbent materials used in treating an alkylate. 2,920,125, 1-5-60, Cl. 260-683.62.
- Stiles, Samuel R., to The M. W. Kellogg Co. Hydrocarbon conversion process. 2,954,341, 9-27-60, Cl. 208-365.
- Stiles, Samuel R., J. Warburton, and J. M. Black, to The M. W. Kellogg Co. Alkylation of hydrocarbons with improved mixing and emulsifying of catalysts and reactants. 2,920,124, 1-5-60, Cl. 260-683.59.
- Stiles, Samuel R., J. Warburton, and J. M. Black, to The M. W. Kellogg Co. Hydrocarbon conversion apparatus. 2,927,009, 3-1-60, Cl. 23-285.
- Stilger, Arthur J. Luggage on wheels. 2,925,283, 2-16-60, Cl. 280-37.
- Still, Michael H., T. Wooderson, and A. C. Fry, to Vickers-Armstrongs (Aircraft) Ltd. Gyro decaging mechanism. 2,960,877, 11-22-60, Cl. 74-5.12.
- Still, Robert D.: *See*—  
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- Stillfried, Joachim, and K. Seeliger, to Licentia Patent-Verwaltungs-G.m.b.H. Flashlight structure. 2,942,103, 6-21-60, Cl. 240-10.65.
- Stillings, Warner E., to International Business Machines Corp. Speed control for an electrical motor. 2,964,690, 12-13-60, Cl. 318-228.
- Stillman, Harold. Storage cabinet. 2,954,684, 10-4-60, Cl. 62-419.
- Still-Man Mfg. Corp.: *See*—  
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- Stillwagon, Crawford K. Butterfly valve. 2,936,778, 5-17-60, Cl. 137-454.6.
- Stillwagon, Crawford K. Slide valve. 2,942,841, 6-28-60, Cl. 251-214.
- Stillwagon, George B., Jr., ½ to K. G. Fraser. Spinning tool. 2,953,047, 9-20-60, Cl. 80-1.
- Stillwell, William D., L. Bakker, and J. R. Lytle. Method of preparing catalytically active alumina. 2,919,973, 1-5-60, Cl. 23-143.
- Stilwell, Robert E., to Food Machinery and Chemical Corp. Wheel mounting device. 2,963,309, 12-6-60, Cl. 287-52.
- Stilwell, William E., Jr. Apparatus for the complete laundering of fabrics. 2,960,780, 11-22-60, Cl. 38-2.
- Stimler, Morton. Ski leash. 2,933,324, 4-19-60, Cl. 280-11.35.
- Stimler, Morton, to United States of America, Navy. Moored mine and magnetically actuated firing means therefor. 2,935,943, 5-10-60, Cl. 102-18.
- Stimler, Morton. Sound track selection phonograph. 2,952,464, 9-13-60, Cl. 274-15.
- Stimson, Allen G.: *See*—  
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- Stimson, Percy G., to The Standard Register Co. Strip feeding device. 2,919,783, 1-5-60, Cl. 197-133.
- Stimson, Ray L., to Collins Radio Co. High frequency converter having a series cathode signal injection circuit. 2,947,862, 8-2-60, Cl. 250-20.
- Stine, Harrison M.: *See*—  
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- Stine, Harrison M., and J. L. Callahan, to The Standard Oil Co. Isomerization process and catalyst therefor. 2,945,908, 7-19-60, Cl. 260-683.65.
- Stine, Harrison M., and J. L. Callahan, to The Standard Oil Co. Isomerization process and catalyst therefor. 2,945,909, 7-19-60, Cl. 260-683.65.
- Stine, Homer R. Journal lubricator. 2,955,005, 10-4-60, Cl. 308-243.
- Stinebaugh, Donald H., to G. Dahl. Road safety signal. 2,932,813, 4-12-60, Cl. 340-49.
- Stineman, Russell W., to Boeing Airplane Co. Control circuit with two-position switch for latching circuit breaker. 2,925,536, 2-16-60, Cl. 317-54.
- Stingley, Norman H., to The Osborn Mfg. Co. Polishing and deburring wheel. 2,950,495, 8-30-60, Cl. 15-179.
- Stinnes, Hanns, and H. Baumer, to Mela, Maschinenbau und Reparatur Hans Stinnes. Glass making apparatus. 2,936,549, 5-17-60, Cl. 49-54.
- Stinson, Donald L., to Phillips Petroleum Co. Treatment of petroleum well effluents. 2,937,140, 5-17-60, Cl. 208-340.
- Stinson, Donald L., to Phillips Petroleum Co. Hydraulic earth boring and cyclone separation system. 2,941,783, 6-21-60, Cl. 255-1.
- Stinson, Harold S. Attachment for fishhooks. 2,962,832, 12-6-60, Cl. 43-44.6.
- Stinson, Harold S. Attachment for fishhooks. 2,962,833, 11-6-60, Cl. 43-44.6.
- Stinson, Harold S. Attachment for fishhooks. 2,962,834, 12-6-60, Cl. 43-44.6.
- Stinson, John M.: *See*—  
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- Stinson, Robert E. Bow quiver. 2,954,764, 10-4-60, Cl. 124-23.
- Stirlen, Eugene D., to Eastern Industries, Inc. Cooling system. 2,937,506, 5-24-60, Cl. 62-121.
- Stirling, Harold T.: *See*—  
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- Stirling, Harold T., to Koppers Co., Inc. Balling drum. 2,920,344, 1-12-60, Cl. 18-1.
- Stirling, James. Multiple head tube bending device. 2,955,495, 10-11-60, Cl. 81-15.
- Stirling, Robert W., to Thos. & Geo. M. Stone, Inc. Method of making a contact screen, and a method of making a screened positive for the preparation of printing plates or the like. 2,961,315, 11-22-60, Cl. 96-45.
- Stirnberg, Ferdinand H., to Dipl.-Ing. Gustav Karl Neuhaus. Flow meter. 2,936,621, 5-17-60, Cl. 73-203.
- Stirrup, Frank A. Dual size film negative supporting frames. 2,933,034, 4-19-60, Cl. 95-100.
- Stirton, Alexander J.: *See*—  
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- Stitt, Edward W. Magnetic device for removing litter. 2,947,563, 8-2-60, Cl. 294-65.5.
- Stitt, Elmer R.: *See*—  
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- Stivender, Paul M., to General Motors Corp. Governor. 2,965,115, 12-20-60, Cl. 137-34.
- Stivers, Joseph H. Boat wash station. 2,931,372, 4-5-60, Cl. 134-119.
- Stix, Nathan, to The United States Shoe Corp. Method of shoe construction. 2,963,722, 12-13-60, Cl. 12-145.
- Stoate, Norman P., to U. D. Engineering Co. Ltd. Apparatus for detecting foreign bodies in transparent vessels. 2,947,877, 8-2-60, Cl. 250-219.
- Stobb, Anton R. Method and means for collecting flexible sheets. 2,933,313, 4-19-60, Cl. 271-68.
- Stobb, Anton R. Method and means for collecting and stacking flexible sheets. 2,933,314, 4-19-60, Cl. 271-88.
- Stobb, Anton R. Air pressure means for urging paper web against a rotating cylinder. 2,955,732, 10-11-60, Cl. 226-95.
- Stobbe, Helmut, A. Glas, and H. Heitmann, to International Standard Electric Corp. Line identification arrangements particularly for telephone systems. 2,945,916, 7-19-60, Cl. 179-18.
- Stobie, Cuthbert F. Means for storing and displaying rolls of wallpaper and other rolled fabrics. 2,928,550, 3-15-60, Cl. 211-46.
- Stock, Arthur J. Layer loader. 2,937,771, 5-24-60, Cl. 214-17.
- Stöck, Folf, to Maschinenfabrik Benninger A.-G. Leasing device. 2,938,259, 5-31-60, Cl. 28-40.
- Stock, Howard P., to Square D Co. Slip-on plastic fastener ring. 2,962,923, 12-6-60, Cl. 85-8.8.
- Stock, Werner: *See*—  
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- Stockbin Corp.: *See*—  
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- Stockdale, Charles H., to Westinghouse Electric Corp. Aircraft engine apparatus. 2,928,497, 3-15-60, Cl. 183-62.
- Stockdale, Norman S.: *See*—  
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- Stocker, Arthur C.: *See*—  
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- Stocker, Emil, to J. R. Geigy A.-G. Water fastness of metal lakes of azo dyestuffs containing sulphonic acid groups. 2,955,050, 10-4-60, Cl. 106-289.
- Stockfeth, Harry C. Brush deflector for bows. 2,956,560, 10-18-60, Cl. 124-30.
- Stockholms Superfosfat Fabriks Aktiebolaget: *See*—  
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- Stockler, Elmer J.: *See*—  
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- Stockstrom, Charles L.: *See*—  
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- Stockett, James W.: *See*—  
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- Stockton, Raymond F. Design forming apparatus. 2,945,315, 7-19-60, Cl. 41—10.
- Stockton, Thomas R., to Ford Motor Co. Hydraulic pump. 2,949,860, 8-23-60, Cl. 103—136.
- Stockwell, Arthur J. Paper holders. 2,934,213, 4-26-60, Cl. 211—37.
- Stockwell, Glade M., to Collins Radio Co. Adjustable linear cam drive. 2,957,357, 10-25-60, Cl. 74—55.
- Stockwell, Stephen J. Electrically operated marine engine gear shift. 2,964,601, 12-13-60, Cl. 200—47.
- Stoddard, Charles F.: *See*—  
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- Stoddard, Edgar S., to General Electric Co. Method and means for irradiating foods. 2,920,969, 1-12-60, Cl. 99—217.
- Stoddard, Edgar S., to General Electric Co. Electrolytic water treatment unit. 2,938,849, 5-31-60, Cl. 204—263.
- Stoddard, Glen W. Forage blower. 2,931,485, 4-5-60, Cl. 193—174.
- Stoddard, Herbert A., G. T. Morton, and W. A. Howison, to General Electric Co. Method of fabricating stator vanes. 2,957,228, 10-25-60, Cl. 29—156.8.
- Stoddard, Jessie S. Dress form. 2,948,445, 8-9-60, Cl. 223—68.
- Stoddard, Nicholas J., and W. A. Seem, to Leesona Corp. Tension device for use in processing textile yarns. 2,949,253, 8-16-60, Cl. 242—154.
- Stoddard Aircraft Radio Co., Inc.: *See*—  
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- Stoddart, Hugh F.: *See*—  
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- Stodiek, Wolfgang, to Ernst Leitz, G.m.b.H. Measuring microscope for nuclear tracks. 2,962,929, 12-6-60, Cl. 88—39.
- Stoeckel, Albert L.: *See*—  
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- Stoeckel, Albert L., to United States Steel Corp. Preformed tie for fastening a line wire to an insulator. 2,941,029, 6-14-60, Cl. 174—173.
- Stoecker, Milton. Bale stacker device. 2,948,420, 8-9-60, Cl. 214—9.
- Stoeckert, Alvin J., to Radio Corp. of America. Stem and envelope for electron discharge devices. 2,960,620, 11-15-60, Cl. 313—317.
- Stoeckicht, Wilhelm G. Marine propulsion plant. 2,926,550, 3-1-60, Cl. 74—675.
- Stoeckicht, Wilhelm G. Helicopter gearing. 2,947,198, 8-2-60, Cl. 74—665.
- Stoeckl, Erich: *See*—  
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- Stoehr, Helmut: *See*—  
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- Stoelting, Herman O., to McGraw-Edison Co. Discharge gap protective device. 2,942,152, 6-21-60, Cl. 317—12.
- Stoelting, Herman O., to McGraw-Edison Co. Overvoltage protective gaps. 2,948,831, 8-9-60, Cl. 315—36.
- Stoeltzen, Leo V., to Penn-Union Electric Corp. Connector. 2,956,323, 10-18-60, Cl. 24—125.
- Stoerker, Carroll R. Method of making a candle. 2,941,256, 6-21-60, Cl. 18—58.
- Stoff, Fritz: *See*—  
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- Stoffel Seals Corp.: *See*—  
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- Stogner, Joel M., L. D. Hale, and J. C. McGuire, to Halliburton Oil Well Cementing Co. High pressure plug valves with insert. 2,954,961, 10-4-60, Cl. 251—312.
- Stogner, Joel M., and J. C. McGuire, to Halliburton Oil Well Cementing Co. Barrel assembly for use in fracturing oil wells. 2,955,654, 10-11-60, Cl. 166—75.
- Stogner, Joel M., T. L. Brown, and J. C. McGuire, to Halliburton Oil Well Cementing Co. Assembly for injecting balls into a flow stream for use in connection with oil wells. 2,961,045, 11-22-60, Cl. 166—75.
- Stogre, Alexander E. Insulating board construction. 2,943,965, 7-5-60, Cl. 154—45.
- Stogryn, Eugene L.: *See*—  
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- Stohr, Jacques A., to Commissariat a l'Energie Atomique. Metal welding methods. 2,932,720, 4-12-60, Cl. 219—72.
- Stokes, Arthur J., and F. W. Reuter, Jr., to The Victoreen Instrument Co. Electronic manometer. 2,933,676, 4-19-60, Cl. 324—33.
- Stokes, E. J. Corp.: *See*—  
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- Stokes, Edward D., and E. H. Spencer, to Esso Research and Engineering Co. High temperature conversion process. 2,943,042, 8-28-60, Cl. 203—127.
- Stokes, Leonard S.: *See*—  
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- Stokes, Morris A., to Armstrong Siddeley Motors Ltd. Igniter chamber for a gas turbine engine. 2,941,136, 6-21-60, Cl. 60—39.82.
- Stokey, Harold E., to Allied Machine & Engineering Corp. Hold down clamp. 2,928,320, 3-15-60, Cl. 90—59.
- Stokland, Sigmund. Dispenser for agricultural machines. 2,954,902, 10-4-60, Cl. 222—239.
- Stokland, Sigmund. Apparatus for distributing fertilizer or other granular material. 2,958,531, 11-1-60, Cl. 275—15.
- Stokland, Sigmund. Support structures for agricultural implements or machines. 2,959,142, 11-8-60, Cl. 111—59.
- Stokstad, Evan L. R., and E. C. De Renzo, to American Cyanamid Co. Animal alimentation: product and process of using the same. 2,929,711, 3-22-60, Cl. 99—2.
- Stokvis, W. J., Koninklijke Fabriek Van Metaalwerken N.V.: *See*—  
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- Stoller, Michael K. Film treatment applicator. 2,950,664, 8-30-60, Cl. 95—13.
- Stoll, Albert. Nut lock with thread portions deformed upon tightening of the nut. 2,931,410, 4-5-60, Cl. 151—24.
- Stoll, Hermann: *See*—  
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- Stoll, Kenneth M.: *See*—  
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Crosby, Alton L., and Stoll. 2,965,927.
- Stoll, Kenneth M., to Sylvania Electric Products Inc. Electron tube. 2,937,307, 5-17-60, Cl. 313—266.
- Stoll, Otto, and G. Musshafen, to Firma Paul Lechler. Process for the preparation of protective coatings. 2,958,609, 11-1-60, Cl. 117—46.
- Stoll, Robert E., to Allis-Chalmers Mfg. Co. Fuel feeding mechanism for a gas turbine. 2,923,261, 2-2-60, Cl. 110—104.
- Stoll, Ulrich W. Split-end bearing pin. 2,942,426, 6-28-60, Cl. 61—53.
- Stoll, Victor. Dental analyzer and coordinator. 2,959,857, 11-15-60, Cl. 32—32.
- Stoll, Willy: *See*—  
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Hofer, Bruno, and Stoll. 2,955,140.  
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- Stollenwerk, Harry A. Storage racks. 2,947,390, 8-2-60, Cl. 189—36.
- Stoller, Frederick L., to Phillips Petroleum Co. Prevention of emulsions during extraction with acidic cuprous salt solutions. 2,946,830, 7-26-60, Cl. 260—677.
- Stollman, Harry E., to Better Belts, Inc. Buckle construction with decorative panel. 2,924,827, 2-16-60, Cl. 2—311.
- Stoltenburg, Wilhelm, to Gutehoffnungshutte Sterkrade Aktiengesellschaft. Suspension arrangement. 2,960,704, 11-22-60, Cl. 14—18.
- Stoltman, Donald D., to General Motors Corp. Fuel injection cranking signal modifying device. 2,922,630, 1-26-60, Cl. 261—69.
- Stoltz, James F.: *See*—  
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- Stoltz, Stanley: *See*—  
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- Stolz, Desmond, and E. W. Brunn, to Acro Welder Mfg. Co. Magnetic force welding machine. 2,958,757, 11-1-60, Cl. 219—86.
- Stombeck, Ernest J.: *See*—  
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- Stomlany, Stanley J.: *See*—  
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O'Connor, Philip K., and Stomlany. 2,947,014.
- Stoming, Robert F.: *See*—  
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- Stone, Aidan M., to General Electric Co. Valve. 2,955,608, 10-11-60, Cl. 137—100.
- Stone, Aidan M., to General Electric Co. Lint filter for combination washer-dryer. 2,959,044, 11-8-60, Cl. 68—12.
- Stone, Aidan M., to General Electric Co. Laundry machine. 2,963,159, 12-6-60, Cl. 210—144.
- Stone, Aidan M., and J. H. Belcher, to General Electric Co. Strainer for drain of a clothes washer. 2,919,568, 1-5-60, Cl. 68—18.
- Stone, Albert E.: *See*—  
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- Stone, Billy R. Throttle and gear control for outboard motor. 2,948,163, 8-9-60, Cl. 74—472.
- Stone, Carl R.: *See*—  
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- Stone, Cedric A.: *See*—  
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- Stone, Elmer O., to Sylvania Electric Products Inc. Electron discharge tube testing circuit. 2,947,936, 8-2-60, Cl. 324-25.
- Stone, Elmer O., to Sylvania Electric Products Inc. Transistorized deflection circuit. 2,954,503, 9-27-60, Cl. 315-27.
- Stone, Franz T., III, and R. E. Finckel, Jr., to Columbus Automatic Lubrication Co. Spraying device. 2,929,564, 3-22-60, Cl. 239-99.
- Stone, Fred W.: *See*—  
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- Stone, Frederick. Cooking apparatus. 2,960,979, 11-22-60, Cl. 126-25.
- Stone, Guy B. Surface gauge. 2,941,299, 6-21-60, Cl. 33-169.
- Stone, H. N., to Bay State Abrasive Products Co. Resinoid bonded abrasive wheels. 2,952,529, 9-13-60, Cl. 51-298.
- Stone, Harold A.: *See*—  
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- Stone, Harold C.: *See*—  
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- Stone, Henry A., Jr.: *See*—  
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- Stone, Harrison A. G., to United States of America, Army. Radio frequency transformer. 2,952,822, 9-13-60, Cl. 333-32.
- Stone, Irwin M.: *See*—  
Gray, Philip P., Stone, and Wylie. 2,943,941.
- Stone, J. & Co. (Deptford) Ltd.: *See*—  
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- Stone, James H.: *See*—  
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- Stone, James H., to General Motors Corp. Bearing support. 2,927,825, 8-8-60, Cl. 308-184.
- Stone, James L.: *See*—  
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- Stone, James M.: *See*—  
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- Stone, Kenneth F., R. J. Force, W. W. Olson, and D. S. Cagle, to United States of America, Atomic Energy Commission. Accelerator target positioner and control circuit therefor. 2,964,710, 12-13-60, Cl. 328-235.
- Stone, Lewis S., to Callery Chemical Co. Preparation of trialkylboranes. 2,923,740, 2-2-60, Cl. 260-606.5.
- Stone Mfg. Co.: *See*—  
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- Stone, Maxwell L., to Ekco Products Co. Sink installations. 2,938,218, 5-31-60, Cl. 4-187.
- Stone, Orison W., to Continental Can Co., Inc. Wrap-around paperboard carrier. 2,950,041, 8-23-60, Cl. 229-40.
- Stone, Paul L., to Minneapolis-Honeywell Regulator Co. Pivot. 2,951,695, 9-6-60, Cl. 267-1.
- Stone, Richard S.: *See*—  
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- Stone, Richard S., and F. R. Wolf, to Anderson Controls, Inc. Slide switch. 2,924,691, 2-9-60, Cl. 200-153.
- Stone, Robert H., to Ransburg Electro-Coating Corp. Coating apparatus. 2,952,351, 9-13-60, Cl. 198-177.
- Stone, Robert L. Material testing apparatus and method. 2,947,163, 8-2-60, Cl. 73-15.
- Stone, Rodney E., to General Dynamics Corp. Directional coupler. 2,951,997, 9-6-60, Cl. 333-10.
- Stone, Rollo O. Rotatable door supporting and lifting jig. 2,955,632, 10-11-60, Cl. 144-288.
- Stone, Roy. Cotton chopper attachment. 2,960,173, 11-15-60, Cl. 172-534.
- Stone, Roy A., to National Lock Co. Magnetic door latch. 2,950,140, 8-23-60, Cl. 292-251.5.
- Stone, Samuel E.: *See*—  
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- Stone, Seiden L., and C. Brandlein. Rack with retainer. 2,953,251, 9-20-60, Cl. 211-4.
- Stone, Thos. & Geo. M., Inc.: *See*—  
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- Stone, Wallace E., 1/2 to O. E. Everett. Food holder for cooking food over an open fire. 2,946,276, 7-26-60, Cl. 99-419.
- Stone, Walter V. Toothbrush holder and animated brushing timer. 2,926,487, 3-1-60, Cl. 58-152.
- Stone & Webster Engineering Corp.: *See*—  
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- Stone, Wilfred H., to Meredith Publishing Co. Splicing control device. 2,939,646, 6-7-60, Cl. 242-58.2.
- Stone, William D., to General Motors Corp. Material handling apparatus. 2,942,716, 6-23-60, Cl. 198-19.
- Stone, William M.: *See*—  
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- Stoneburner, Edwin B., to American Air Filter Co., Inc. Heat exchange apparatus. 2,942,858, 6-28-60, Cl. 257-306.
- Stoner, Eugene M., to Fairchild Engine and Airplane Corp. Gas operated bolt and carrier system. 2,951,424, 9-6-60, Cl. 89-191.
- Stoner, George G.: *See*—  
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- Stoner, Harry B., to The Vendo Co. Cup dispensing mechanism. 2,925,196, 2-16-60, Cl. 221-222.
- Stoner, Harry B., to The Vendo Co. Vending machines. 2,925,307, 2-16-60, Cl. 312-42.
- Stoner, Harry B., and E. Parre, to The Vendo Co. Coin operated switch mechanism. 2,934,191, 4-26-60, Cl. 194-9.
- Stoner, Harry B., and H. J. Albright, to The Vendo Co. Coin control mechanism for vending machines. 2,934,192, 4-26-60, Cl. 194-53.
- Stoner, Harry B., E. M. Parre, and G. R. Rogers, to The Vendo Co. Selector switch mechanism. 2,934,613, 4-26-60, Cl. 200-5.
- Stoner, Harry B., E. Parre, and R. L. McGary, to The Vendo Co. Vending apparatus. 2,946,483, 7-26-60, Cl. 221-243.
- Stoner, Joseph W. Inflatable life saving device. 2,946,484, 7-26-60, Cl. 222-5.
- Stoner, Lawrence F.: *See*—  
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- Stoner, Paul. Coulter assembly. 2,949,968, 8-23-60, Cl. 172-166.
- Stoner, Robert W.: *See*—  
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- Stoner, Theodore R. Water softener control valves. 2,935,092, 5-3-60, Cl. 137-627.5.
- Stoner, Willis A.: *See*—  
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- Stonehill, Albert A.: *See*—  
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Eberl, James J., Stonehill, and Masci. 2,928,717.
- Stonestrom, Donald M., to United States of America, Army. Detonator plug. 2,921,520, 1-19-60, Cl. 102-28.
- Stonich, Elwood H.: *See*—  
Kmieciak, Leopold J., and Stonich. 2,952,753.
- Stookey, Stanley D.: *See*—  
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- Stookey, Stanley D., to Corning Glass Works. Method of making ceramics and product thereof. 2,920,971, 1-12-60, Cl. 106-39.
- Stookey, Stanley D., to Corning Glass Works. Opal glass. 2,921,860, 1-19-60, Cl. 106-52.
- Stookey, Stanley D., to Corning Glass Works. Method of making a semicrystalline ceramic body. 2,933,857, 4-26-60, Cl. 49-77.
- Stoops, Charles E.: *See*—  
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- Stoops, Charles E., and J. M. Day, to Phillips Petroleum Co. High VI lubricating oil and process for preparing same. 2,954,334, 9-27-60, Cl. 204-154.
- Stoothoff, Stanley T., to Minnesota Mining and Mfg. Co. Apparatus for mounting films and other inserts in cards. 2,940,754, 6-14-60, Cl. 271-36.
- Stoots, William L., Jr. Portable aerator. 2,960,321, 11-15-60, Cl. 261-30.
- Stop-Motion Devices Corp.: *See*—  
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- Stora Kopparbergs Bergslags Aktiebolag: *See*—  
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- Kalling, Bo M. S., Eketorp, and Johansson. 2,925,337.
- Kalling, Bo M. S., and Johansson. 2,930,688.
- Wolff, Hans H., and Pettersson. 2,939,796.
- Storage Products Corp.: *See*—  
Schell, Burt E., Jr. 2,932,368.
- Storch, Harold A., to Federal Screw Works. Anti-rotation spindle washer. 2,955,885, 10-11-60, Cl. 308-236.
- Storch, Henry H., to American Cyanamid Co. Cigarette wrappers. 2,944,553, 7-12-60, Cl. 131-15.
- Storch, Otto P., to Einson-Freeman Co., Inc. Knock-down parallelogrammic display device. 2,936,079, 5-10-60, Cl. 211-177.
- Stordal, Eigil J., to Continental Machines, Inc. Drive wheel for band saws. 2,954,061, 9-27-60, Cl. 143-30.
- Storer, Arthur J. Upright block designing and handling apparatus. 2,964,859, 12-20-60, Cl. 35-73.
- Storey, Arthur, and J. A. Hardy, to William Doxford & Sons (Engineers) Ltd. Piston engines, pumps or the like. 2,930,641, 3-29-60, Cl. 287-87.
- Storey, Alvin B., and E. A. Bayers, to Celanese Corp. of America. Beam transport device. 2,962,167, 11-29-60, Cl. 211-13.
- Storey, David J.: *See*—  
Graff-Baker, William S., and Storey. 2,923,841.
- Storfer, Stanley J.: *See*—  
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- Stork, Edward S.: *See*—  
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- Stork, Edward S., and W. C. Arnold, to The National Cash Register Co. Comparator means for accounting machines. 2,954,159, 9-27-60, Cl. 235-61.7.
- Storm, Herbert F., and O. W. Livingston, to General Electric Co. Voltage measuring system. 2,958,044, 10-25-60, Cl. 328-151.
- Storm, John F., and R. M. Williamson, to Minneapolis-Honeywell Regulator Co. Condition sensing apparatus. 2,940,311, 6-14-60, Cl. 73-304.
- Storm, Walter V.: *See*—  
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- Stormaster Tornado Shelter Co.: *See*—  
Harris, Francis L. 2,936,504.
- Story, Charles F., to Masonite Corp. Process for humidifying hardboard. 2,919,492, 1-5-60, Cl. 34-26.
- Story, James K., to V. E. Kuster. Trigonometric resolving apparatus. 2,931,573, 4-5-60, Cl. 235-189.
- Story, John D. Straight beam adjustable jaw clamp. 2,949,947, 8-23-60, Cl. 144-303.



- Storz, Eric A., to Storz Instrument Co. Surgeon's mouth gag. 2,947,305, 8-2-60, Cl. 128-12.
- Storz Instrument Co.: *See*—
- Storz, Eric A. 2,947,305.
- Storz, Karl. Endoscope. 2,936,753, 5-17-60, Cl. 128-6.
- Stosuy, Athan: *See*—
- Bell, Richard M., and Stosuy. 2,925,645.
- Stothert & Pitt, Ltd.: *See*—
- Kerridge, Norman E. 2,954,726.
- Stotler, Duane H.: *See*—
- Hestad, Selmer A., and Stotler. 2,919,517.
- Stott, Albert M.: *See*—
- Magnus, Herbert A., and Stott. 2,926,638.
- Stott, Albert M. Reefing or static line cutter. 2,942,818, 6-28-60, Cl. 244-150.
- Stott, Albert M. Parachute disconnect coupling. 2,942,911, 6-28-60, Cl. 294-83.1.
- Stott, Albert M., and H. A. Magnus, to United States of America. Army. Single cycle self retracting thruster. 2,935,971, 5-10-60, Cl. 121-46.
- Stott, Albert M., and H. A. Magnus, to United States of America. Army. Explosively actuated control device. 2,951,338, 9-6-60, Cl. 60-39.47.
- Stott, Frank T.,  $\frac{1}{2}$  to John Holroyd & Co. Ltd. Machines for making coated tablets by compression. 2,963,993, 12-13-60, Cl. 107-1.
- Stott, Frank T.,  $\frac{1}{2}$  to John Holroyd & Co. Ltd. Machines for the production of coated tablets and the like. 2,966,125, 12-27-60, Cl. 107-1.
- Stott, Harold B., to Radio Corp. of America. Radio-phonograph circuits. 2,950,356, 8-23-60, Cl. 179-100.11.
- Stotter, H. J., Inc.: *See*—
- Stotter, Herbert J. 2,954,635.
- Stotter, Herbert J., to H. J. Stotter, Inc. Table cover. 2,954,635, 10-4-60, Cl. 45-68.3.
- Stotz, Carl C., to Sperry Rand Corp. Radar tracking system. 2,946,049, 7-19-60, Cl. 343-7.4.
- Stotz, Elmer W., to River Raisin Paper Co. Poultry freezer tray. 2,934,250, 4-26-60, Cl. 229-6.
- Stoudenheimer, Richard G., and J. C. Moor, to Radio Corp. of America. Image tube. 2,946,895, 7-26-60, Cl. 250-213.
- Stoudt, Thomas H.: *See*—
- Dulaney, Eugene L., McAleer, and Stoudt. 2,960,434.
- McAleer, William J., and Stoudt. 2,954,326.
- Stough, Charles R., to Motor Wheel Corp. Adjustable tread wheel and rim clamp therefor. 2,963,317, 12-6-60, Cl. 301-9.
- Stough, Gerald D., to Whitehead & Kales Co. System for the handling and transportation of parts, finished articles, or packaged goods. 2,930,331, 3-29-60, Cl. 105-369.
- Stoughton, Raymond W.: *See*—
- Seaborg, Glenn T., and Stoughton. 2,951,023.
- Stout, Eldon C.: *See*—
- Leis, Donald G., and Stout. 2,942,033.
- Stout, George C., to Bendix Aviation Corp. Apparatus and method for preventing backlash in steering mechanisms. 2,949,256, 8-16-60, Cl. 244-50.
- Stout, Minor W. Controls for combustion apparatus. 2,949,235, 8-16-60, Cl. 236-26.
- Stout, Virgil L., and M. D. Gibbons, to General Electric Co. Method of gettering using zirconium-titanium alloy. 2,926,981, 3-1-60, Cl. 316-25.
- Stout, William H. Control device for sprinkler valves. 2,921,629, 1-19-60, Cl. 161-7.
- Stoutenburgh, Guy H., to Stoutenburgh Mfg. Co., Inc. Portable self-contained light. 2,942,102, 6-21-60, Cl. 240-10.63.
- Stoutenburgh Mfg. Co., Inc.: *See*—
- Stoutenburgh, Guy H. 2,942,102.
- Stovall, John R., Jr., to Sperry Rand Corp. Magnetic transducer. 2,927,974, 3-8-60, Cl. 179-100.2.
- Stovall, Milton A., to Emerson Radio & Phonograph Corp. Mail handling apparatus. 2,961,085, 11-22-60, Cl. 198-30.
- Stover, Harry E., to Anchor Hocking Glass Corp. Method and means for grooving closure gaskets. 2,924,848, 2-16-60, Cl. 18-5.
- Stover, Harry E., to Anchor Hocking Glass Corp. Method and means for remote cap feeding. 2,952,104, 9-13-60, Cl. 53-3.
- Stover, Harry E., to Anchor Hocking Glass Corp. Means and method for applying adhesive to container rims. 2,952,239, 9-13-60, Cl. 118-244.
- Stover, John B.: *See*—
- Camilli, Guglielmo, and Stover. 2,942,213.
- Stover, Roy L. Violin bow frog. 2,933,005, 4-19-60, Cl. 84-282.
- Stover, William A., to Petroleum Engineering, Inc. Absorption oil purifying. 2,927,061, 3-1-60, Cl. 196-115.
- Stow, Frederic S.: *See*—
- Fearon, John E., and Stow. 2,938,467.
- Stow, Frederic S., Jr.: *See*—
- Kouba, Delore L., Paul, and Stow. 2,951,746.
- Kouba, Delore L., Paul, and Stow. 2,951,877.
- Stow, Robert H., to Minnesota Mining and Mfg. Co. Solvent-resistant pressure-sensitive adhesive tape. 2,925,174, 2-16-60, Cl. 206-59.
- Stowasser, Heribert, to Lohmann K.G. Metallized bandaging material especially for the treatment of wounds. 2,934,066, 4-26-60, Cl. 128-156.
- Stowasser, William F., Jr., to Allis-Chalmers Mfg. Co. Process for the production of hard burned agglomerates. 2,925,336, 2-16-60, Cl. 75-3.
- Stowell, Keith C.: *See*—
- Macey, Alan, and Stowell. 2,960,409.
- Stowens, Daniel. Method and apparatus for processing products of combustion. 2,966,036, 12-27-60, Cl. 62-11.
- Stowers, Herbert L., to Texas Gas Transmission Corp. Method and apparatus for storing liquefied gases. 2,963,873, 12-13-60, Cl. 62-45.
- Strachan & Henshaw Ltd.: *See*—
- Bellinger, Ronald. 2,955,850.
- Strache, Hans: *See*—
- Weber, Heinrich, Strache, Broich, Franke, and Kiepert. 2,935,501.
- Strack, Robert A., and C. L. Flood. Semi-trailer landing gear power attachment. 2,959,395, 11-8-60, Cl. 254-86.
- Stracke, Werner: *See*—
- Coenen, Max, Gotze, Grisar, Riester, Stracke, and Zietan. 2,930,694.
- Strader, William E.: *See*—
- Teters, Emily S., Aikins, and Strader. 2,944,652.
- Teters, Emily S., Aikens, and Strader. 2,956,546.
- Straehl, Robert N.: *See*—
- Taylor, Richard, Straehl, and Sanchirico. 2,920,818.
- Strahler, Louis W. Automobile seat and cradle. 2,966,201, 12-27-60, Cl. 155-10.
- Straight, David M.: *See*—
- Gold, Harold, and Straight. 2,921,569.
- Strain, Franklin, and W. E. Bissinger, to Columbia-Southern Chemical Corp. Preparation of benzene hexachloride. 2,942,035, 6-21-60, Cl. 260-648.
- Strain, Robert J., and F. Tranner, to Rilling Dermetics Co. Method of dispensing neutralizing solution. 2,930,384, 3-29-60, Cl. 132-7.
- Straitwell, Harold L., Jr., to S & H Products, Inc. Animated pull toy. 2,933,852, 4-26-60, Cl. 46-107.
- Straka, Oldrich: *See*—
- Dubsky, Borivoj, and Straka. 2,955,461.
- Strakas, Robert P.: *See*—
- Soderberg, John W. 2,933,716.
- Straley, James M., and R. R. Giles, to Eastman Kodak Co. Carbamylanthraquinone compounds and materials dyed therewith. 2,937,190, 5-17-60, Cl. 260-347.4.
- Straley, James M., and R. R. Giles, to Eastman Kodak Co. Quaternary ammonium salts of anthraquinone dye compounds. 2,957,010, 10-18-60, Cl. 260-377.
- Stram, Oscar B.: *See*—
- Epstein, Herman, and Stram. 2,957,051.
- Stram, Oscar B., to Burroughs Corp. Input buffer for a magnetic step counter. 2,963,689, 12-6-60, Cl. 340-174.
- Stramur Corp.: *See*—
- Murray, Arthur J. 2,953,879.
- Strand, Carl P., to Shell Oil Co. Shower deck contacting column. 2,934,326, 4-26-60, Cl. 261-113.
- Strand, John. Flexible transmission line. 2,956,248, 10-11-60, Cl. 333-95.
- Strandberg, Carl H. Film frame or slide packaging box and viewer. 2,919,509, 1-5-60, Cl. 40-63.
- Strandskov, Frede B., and J. B. Bockelmann, to The F. & M. Schaefer Brewing Co. Inhibiting microbiological growth in fermentations employing yeast. 2,963,368, 12-6-60, Cl. 99-43.
- Strandskov, Frede B., and J. B. Bockelmann, to The F. & M. Schaefer Brewing Co. Inhibiting microbiological growth in fermentations employing yeast. 2,964,406, 12-13-60, Cl. 99-43.
- Strang, Charles D., to Kiekhaefer Corp. Flywheel alternator for an internal-combustion engine. 2,945,138, 7-12-60, Cl. 310-153.
- Strang, Donald P., and W. A. Garvey, to General Electric Co. Winding for polyphase alternating current dynamoelectric machine. 2,947,894, 8-2-60, Cl. 310-202.
- Strang, John M., and C. Foster, to Barr and Stroud Ltd. High speed camera. 2,946,257, 7-26-60, Cl. 88-16.
- Strang, John M., and I. H. Mackenzie, to Barr and Stroud Ltd. Instruments for observing moving patterns. 2,958,256, 11-1-60, Cl. 88-14.
- Strang, Peter M., and J. G. Gamble, to L. M. Keeler. Apparatus for use in assembling and intertwining discrete fibers. 2,944,381, 7-12-60, Cl. 57-58.91.
- Strang, William J., to Bristol Aircraft Ltd. Aircraft flight controls. 2,930,550, 3-29-60, Cl. 244-82.
- Strang, William J., to Bristol Aircraft Ltd. Aircraft controls. 2,951,663, 9-6-60, Cl. 244-90.
- Strang, William J., and D. L. Matthews, to Bristol Aircraft Ltd. Aircraft controls. 2,936,975, 5-17-60, Cl. 244-83.
- Strange, John, to Tinnerman Products Inc. Fastening assembly and clip. 2,950,134, 8-23-60, Cl. 287-53.
- Strange, John, Carton Co., Inc.: *See*—
- Strange, William M. 2,926,831.
- Strange, John P.: *See*—
- Yant, William P., Hollobaugh, and Strange. 2,921,497.
- Strange, William M., to John Strange Carton Co., Inc. In-fold carton with corner bracing strut. 2,926,831, 3-1-60, Cl. 229-32.
- Strange, William M. Package assembly for transparent bagged articles. 2,959,277, 11-8-60, Cl. 206-45.31.
- Stranges, Peter, and S. R. Demko. Hula hoop doll. 2,958,144, 11-1-60, Cl. 40-106.3.
- Stransky, Gustave. Hatch cover constructions. 2,965,062, 12-20-60, Cl. 114-202.



- Strasel, Raymond K., to Jacobsen Mfg. Co. Rotary mower with catcher for grass or the like. 2,955,402, 10-11-60, Cl. 56—25.4.
- Strasel, Raymond K., and J. W. Barth, to Jacobsen Mfg. Co. Grass catcher for a lawn mower. 2,955,404, 10-11-60, Cl. 56—20.2.
- Strashun, Sumner I., and W. F. Talburt, to United States of America, Agriculture. Dehydration of fruit and vegetable juices. 2,959,486, 11-8-60, Cl. 99—206.
- Strasser, Grace A.: *See—*
- Strasser, Myron S. 2,939,574.
- Strasser, Myron S., deceased, G. A. Strasser, executrix. Frame for laundered shirts. 2,939,574, 6-7-60, Cl. 206—7.
- Strassner, Robert M., to Consolidated Electrodynamics Corp. Apparatus for reading the amplitude of visibly recorded curves. 2,931,566, 4-5-60, Cl. 235—61.6.
- Strategic-Udy Metallurgical and Chemical Processes, Ltd.: *See—*
- Udy, Marvin J. 2,934,422.
- Udy, Marvin J. and M. C. 2,953,451.
- Strater, Henry H., to Barium & Chemicals. Method of making lithium peroxide in methanol. 2,962,358, 11-29-60, Cl. 23—184.
- Stratford, Brian S.: *See—*
- Davidson, Ivor M., and Stratford. 2,961,192.
- Stratford Engineering Corp.: *See—*
- Putney, David H. 2,949,494.
- Strating, Herman J., and F. J. Janssen, to North American Phillips Co., Inc. Method of manufacturing mouldings. 2,920,353, 1-12-60, Cl. 18—58.
- Stratman, Edwin A. Dispensing bin for vegetables, etc. 2,940,642, 8-14-60, Cl. 223—183.
- Stratton, Charles A., to Phillips Petroleum Co. Method for degasifying an organophilic clay-bodied lubricant. 2,921,028, 1-12-60, Cl. 252—49.7.
- Stratton, Charles A., to Phillips Petroleum Co. Rust-preventive clay-thickened lubricants. 2,963,436, 12-6-60, Cl. 252—49.7.
- Stratton, Edward B., Jr., to National Cleveland Corp. Display package. 2,931,495, 4-5-60, Cl. 206—80.
- Stratton Equipment Co.: *See—*
- Stratton, Ronald R. 2,931,305.
- Stratton, Hal: *See—*
- Bauer, Robert F., and Stratton. 2,923,531.
- Stratton, Hal, to Shell Oil Co., Continental Oil Co., The Superior Oil Co., and Union Oil Co. of California. Drilling. 2,929,610, 3-22-60, Cl. 255—1.8.
- Stratton, Jerry L., to General Electric Co. Coaxial core inductive structures. 2,962,679, 11-29-60, Cl. 336—83.
- Stratton, Ronald R., to Stratton Equipment Co. Automatic throttle control. 2,931,305, 4-5-60, Cl. 103—16.
- Straub, Carl, to Cornhusker Mfg. Co., Inc. Earth moving scraper. 2,949,686, 8-23-60, Cl. 37—129.
- Straub, Hermann W., to I-T-E Circuit Breaker Co. Solenoid operated clutch-brake device. 2,962,139, 11-29-60, Cl. 192—18.
- Straub, Hermann W., to I-T-E Circuit Breaker Co. Power operated clutch. 2,962,142, 11-29-60, Cl. 192—84.
- Straub, Joseph E., to Illinois Tool Works. Torque solenoid. 2,963,915, 12-13-60, Cl. 74—88.
- Straub, Otto: *See—*
- Gutmann, Hugo, Straub, and Zeller. 2,934,539.
- Straub, Otto, to Lewa G.m.b.H. Grip bracelet. 2,947,455, 8-2-60, Cl. 224—4.
- Straub, Otto, and P. Zeller, to Hoffmann-La Roche Inc. 1-(4-methyl-thiazole-5-carbonyl)-1,2-diisopropyl-hydrazine and certain salts. 2,951,846, 9-6-60, Cl. 260—302.
- Straub, William S., and C. J. Sindlinger, to Columbia-Southern Chemical Corp. Treatment of hydrogen peroxide. 2,960,448, 11-15-60, Cl. 202—56.
- Straughan, Virgil E., to General Dynamics Corp. Electrostatic printing. 2,930,711, 3-29-60, Cl. 117—38.
- Straughn, John L.: *See—*
- Jones, James B., and Straughn. 2,944,029.
- Straus, Betty O.: *See—*
- Wise, Samuel P., and Straus. 2,956,962.
- Straus, Louis, to C. L. Reese. Safety attachment for fluid pressure operated brake system. 2,931,178, 4-5-60, Cl. 60—54.5.
- Straus, S. Charles, to Cincinnati Mfg. Corp. Convertible milling machine. 2,963,944, 12-13-60, Cl. 90—17.
- Strauss, Alvin K. Rocker device. 2,923,345, 2-2-60, Cl. 155—75.
- Strauss, Herbert S., to Duro-Test Corp. Electric lamp mount. 2,966,600, 12-27-60, Cl. 313—25.
- Strauss, Irving, to Bruno-New York Industries Corp. Tool for processing electrical components. 2,934,098, 4-26-60, Cl. 140—71.
- Strauss, Jack, to Camera Vision, Inc. Method and apparatus for producing motion picture films. 2,928,311, 3-15-60, Cl. 88—16.
- Strauss, Joseph, to Trenton Times Corp. Drying oven apparatus. 2,931,882, 4-5-60, Cl. 219—35.
- Strauss, Leopold: *See—*
- Holloway, Robert L., Bohm, Zuercher, and Strauss. 2,930,616.
- Strauss, Maud P. Brassieres. 2,926,669, 3-1-60, Cl. 128—510.
- Strauss, Ray C. Transmission control. 2,960,200, 11-15-60, Cl. 192—4.
- Strauss, Raymond C. Starter control. 2,960,081, 11-15-60, Cl. 123—179.
- Strauss, Simon W., and P. N. Vlannes. Process for electro-deposition of cadmium. 2,938,840, 5-31-60, Cl. 204—14.
- Strauss, Wennemar: *See—*
- Heise, Rudolf, and Strauss. 2,965,660.
- Strauss, Wennemar, A. Kirstahler, W. Gundel, and H. Haas, to Dehydag, Deutsche Hydrierwerke G.m.b.H. Electroplating of nickel. 2,937,978, 5-24-60, Cl. 204—49.
- Strauss, Wennemar, and W.-D. Willmund, to Dehydag, Deutsche Hydrierwerke G.m.b.H. Acid copper electroplating baths. 2,950,235, 8-23-60, Cl. 204—52.
- Strauss, Wennemar, A. Kirstahler, W. Gundel, and W. Willmund, to Dehydag, Deutsche Hydrierwerke G.m.b.H. Inhibitors for acid solutions employed in the surface treatment metals. 2,956,956, 10-18-60, Cl. 252—149.
- Strauss, William, to E. J. Stokes Corp. Injection molding press. 2,923,976, 2-9-60, Cl. 18—30.
- Stravler, Inc.: *See—*
- Shapiro, Irving D. 2,931,918.
- Straw, Douglas, to General Aniline & Film Corp. Phosphor screens for color television and method of preparing the same while using diazotype materials. 2,929,708, 3-22-60, Cl. 96—35.
- Straw, Jesse H.: *See—*
- Mahlmeister, Raymond A., and Straw. 2,924,018.
- Straw, Jesse H., to The Sheffield Corp. Machine tool. 2,950,654, 8-31-60, Cl. 90—1.4.
- Strawn, Raymond C. Planetary power transmission systems. 2,925,742, 2-23-60, Cl. 74—405.
- Strawn, Raymond C. Torque responsive clutch. 2,954,856, 10-4-60, Cl. 192—54.
- Strawn, Theodore R. Amphibian aircraft. 2,964,271, 12-13-60, Cl. 244—101.
- Strazdins, Edward, to American Cyanamid Co. Storage of rosin in molten form. 2,933,486, 4-19-60, Cl. 260—97.5.
- Strazdins, Edward, to American Cyanamid Co. Fortified rosin size and paper sized therewith. 2,934,468, 4-26-60, Cl. 162—180.
- Streander, George W.: *See—*
- Mack, Julian E., and Streander. 2,938,385.
- Street, William J.,  $\frac{1}{4}$  to W. J. Street,  $\frac{1}{4}$  to A. W. Houghton, and  $\frac{1}{4}$  to W. Smilardo. Insect electrocuting devices. 2,941,328, 6-21-60, Cl. 43—112.
- Streeter, Edward C., to Streater Industries, Inc. Tag holding shelf assembly. 2,936,904, 5-17-60, Cl. 211—147.
- Streeter Industries, Inc.: *See—*
- Streeter, Edward C. 2,936,904.
- Streck, Clemens, to General Aniline & Film Corp. Sodium xylene sulfonate diazonium salt compositions. 2,946,648, 7-26-60, Cl. 8—44.
- Streck, Clemens, to General Aniline & Film Corp. Hectograph carbon paper. 2,950,213, 8-23-60, Cl. 117—36.
- Strecker, Charles E.: *See—*
- Brooks, Wesley W., and Strecker. 2,945,986.
- Brooks, Wesley W., and Strecker. 2,965,799.
- Strecker, Charles E., to General Electric Co. Apparatus for starting and operating fluorescent lamps. 2,938,144, 5-24-60, Cl. 315—97.
- Strecker, Charles E., deceased, by J. E. Strecker, executrix, to General Electric Co. Transformer for electrical discharge lamps. 2,940,008, 6-7-60, Cl. 315—97.
- Strecker, Charles E., deceased, by J. E. Strecker, executrix, to General Electric Co. Electrical discharge apparatus. 2,945,987, 7-19-60, Cl. 315—100.
- Strecker, Charles E., deceased, by J. E. Strecker, executrix, to General Electric Co. Transformer for electric discharge lamps. 2,960,624, 11-15-60, Cl. 315—97.
- Strecker, Charles E., deceased, by J. E. Strecker, executrix, to General Electric Co. Transformer for electric discharge lamps. 2,962,629, 11-29-60, Cl. 315—97.
- Strecker, Jeanne E.: *See—*
- Brooks, Wesley W., and Strecker. 2,945,986.
- Strecker, Charles E. 2,940,008.
- Strecker, Charles E. 2,945,987.
- Strecker, Charles E. 2,960,624.
- Strecker, Charles E. 2,962,629.
- Streed, David D. M.: *See—*
- Dosmann, Lucian P., and Streed. 2,939,710.
- Street, George, Jr., to General Electric Co. Turbine. 2,923,526, 2-2-60, Cl. 253—78.
- Street, John N., and W. F. Hamilton, to Reed Research, Inc. Recording apparatus. 2,921,125, 1-12-60, Cl. 178—6.6.
- Street, John N., and W. F. Hamilton, to Reed Research, Inc. Record apparatus. 2,921,126, 1-12-60, Cl. 178—6.6.
- Streeter-Amet Co.: *See—*
- Kennedy, Verne C., Jr. 2,932,188.
- Kennedy, Verne C., Jr. 2,943,287.
- Kennedy, Verne C., Jr. 2,950,910.
- McCullough, Frank S., Goslin, and Clausung. 2,954,969.
- Streeter, Forrest W., to Westinghouse Electric Corp. Air intake structure for an aircraft engine. 2,934,893, 5-3-60, Cl. 60—35.6.
- Streeter, Frederick C. D., to The Thrissell Engineering Co. Ltd. Letter sorting machines. 2,965,374, 12-20-60, Cl. 271—80.
- Streeter, Victor L., to The Dole Valve Co. Variable flow controller. 2,925,826, 2-23-60, Cl. 137—517.
- Streeter, Victor L., to The Dole Valve Co. Constant flow control device. 2,928,414, 3-15-60, Cl. 137—517.
- Streeter, Victor L., to The Dole Valve Co. Adjustable flow control. 2,929,402, 3-22-60, Cl. 137—517.



- Streeter, Victor L., to The Dole Valve Co. Flow control with float type nonlinear resistance. 2,929,403, 3-22-60, Cl. 137-517.
- Streeter, Victor L., to The Dole Valve Co. Adjustable flow meter. 2,941,401, 6-21-60, Cl. 73-210.
- Streeter, Victor L., to The Dole Valve Co. Flow meter. 2,944,420, 7-12-60, Cl. 73-209.
- Streeter, Victor L., to The Dole Valve Co. Flow control resistance. 2,950,735, 8-30-60, Cl. 137-519.
- Streeter, Victor L., to The Dole Valve Co. Fluid control with liquid backing. 2,956,583, 10-18-60, Cl. 137-517.
- Streetman, William J.: *See*—
- Kushler, Robert H., Grant, Streetman, Smith, McPherson, Karlstadt, and Wilson. 2,954,998.
- Strehan, George E., to Lally Column Co. Head plate for structural columns. 2,930,221, 3-29-60, Cl. 72-15.
- Strehlow, Robert W., and G. W. Quast, to Chain Belt Co. Grinders for food waste and like materials. 2,928,615, 3-15-60, Cl. 241-100.5.
- Streib, John F.: *See*—
- Marion, Thomas M., and Streib. 2,927,213.
- Streich, Charles A., and R. H. Morey. Portable boat shelter. 2,930,387, 3-29-60, Cl. 135-1.
- Streich, Michael A., to E. I. du Pont de Nemours and Co. Immersion tin plating and composition therefor. 2,940,867, 6-14-60, Cl. 117-37.
- Streich, Konrad: *See*—
- Geisendorf, Andre, and Streich. 2,940,856.
- Streit, Paul, to Aurora Equipment Co. Detachable self wedging shelf divider. 2,953,258, 9-20-60, Cl. 211-184.
- Streitfeld, Murray M., 75% to National Children's Cardiac Hospital. Pipette adaptor. 2,959,964, 11-15-60, Cl. 73-425.6.
- Streller, Willy: *See*—
- Scheibe, Alfred, and Streller. 2,924,853.
- Strempel, Alfred B.: *See*—
- Riggio, Frank L., and Strempel. 2,941,428.
- Streng, Alex G.: *See*—
- Grosse, Aristid V., and Streng. 2,928,529.
- Streng, Alfred: *See*—
- Nohl, Walter, and Streng. 2,957,269.
- Streng, Alfred, and A. Jutzl, to Lever Brothers Co. Closure caps. 2,926,806, 3-1-60, Cl. 215-46.
- Strenz, Karl, and G. Dankesreither. Apparatus for disintegrating and automatically screening coarse flowing matter carried in liquor. 2,921,683, 1-19-60, Cl. 210-174.
- Stresau, Richard H. F.: *See*—
- Moore, Harry H., Stresau, Axelson, and Stearns. 2,961,954.
- Streuber, Rudolf G., to Research Corp. Gas handling system. 2,920,715, 1-12-60, Cl. 183-1.
- Striani, Bernard L. Multiple-purpose hand tool. 2,937,004, 5-17-60, Cl. 254-131.
- Stribley, Henry: *See*—
- Moss, Charles W., and Stribley. 2,953,145.
- Rupert, Samuel J. 2,948,287.
- Strick Trailers, a division of Fruehauf Trailer Co.: *See*—
- Abolins, Andrew. 2,963,310.
- Stricker, Henry C., Jr., and J. W. Schmidt, to Highway Trailer Co. Hydraulic derrick. 2,930,490, 3-29-60, Cl. 212-8.
- Strickholm, Harry, to Times Facsimile Corp. Facsimile transmitter. 2,933,557, 4-19-60, Cl. 178-7.1.
- Strickland, Barney R.: *See*—
- Dudley, Richard H., Long, Rohrer, and Strickland. 2,935,464.
- Strickland, Daniel H., to Moser Paper Co. Embalming stopper. 2,942,323, 6-28-60, Cl. 27-21.
- Strickland, Edward T., to Philbrick-Strickland Laminates, Inc. Apparatus for making a laminate. 2,949,149, 8-16-60, Cl. 154-1.7.
- Strickland, Gerald, F. L. Horn, and H. T. White, to United States of America, Atomic Energy Commission. Pump construction. 2,953,993, 9-27-60, Cl. 103-87.
- Strickland, Gordon R.: *See*—
- Lane, Bernard F. A., and Strickland. 2,944,946.
- Strickland, Kenneth T., to Radio Corp. of America. Radar calibration system. 2,942,256, 6-21-60, Cl. 343-17.7.
- Strickland, Robert E. Aquatic toy. 2,932,916, 4-19-60, Cl. 46-92.
- Strickland, Robert W.: *See*—
- Bolt, John H., and Strickland. 2,957,291.
- Strickland, Royce M., to United-Greenfield Corp. Self opening die head with improved ring-shaped latch unit. 2,958,877, 11-8-60, Cl. 10-95.
- Strickland, Thomas H., and A. Bell, to Eastman Kodak Co. Oxidation of hydrocarbons with sulfur dioxides. 2,928,879, 3-15-60, Cl. 260-599.
- Strickland, William P., Jr., to Simpson Optical Mfg. Co. Precision optical measuring device. 2,959,087, 11-8-60, Cl. 88-1.
- Strickler, Allen. Thermosensitive apparatus for demonstrating heat phenomena. 2,945,305, 7-19-60, Cl. 35-19.
- Strickler, Paul D.: *See*—
- Hopkins, Thomas R., and Strickler. 2,947,661.
- Stricklin, Buck: *See*—
- Klass, Nicholas P., Ide, Stricklin, and Brown. 2,935,472.
- Strico Gesellschaft fur Metallurgie und Warmetechnik m.b.H.: *See*—
- Lobbecke, Ernst. 2,960,330.
- Odendahl, Wilhelm. 2,926,903.
- Strid, Sven J., to T & S Corp. Cotter pin with interlocking spreader. 2,937,558, 5-24-60, Cl. 85-8.1.
- Strider, Pierce W. Electric switch. 2,933,573, 4-19-60, Cl. 200-109.
- Strie, Lothar: *See*—
- Sennewald, Kurt, Pohl, Vogt, Strie, and Glaser. 2,938,060.
- Striebeck, Achim: *See*—
- Ziegenbein, Willi, Franke, and Striebeck. 2,937,201.
- Strifler, Paul E.: *See*—
- Stump, Eugen, and Strifler. 2,929,214.
- Strike Investment Co.: *See*—
- Mason, Donald F., Thodos, and Stutzman. 2,937,527.
- Strike, Louis N., and O. H. Pearson, to The American Laundry Machinery Co. Air-operated press. 2,939,231, 6-7-60, Cl. 38-41.
- Striker, George O.: *See*—
- Kalmus, Henry P., and Striker. 2,952,813.
- String Design AB: *See*—
- Strinning, Nils E., and Berglind. 2,951,594.
- Stringer, Charles E.: *See*—
- Finch, Gaylord K., and Stringer. 2,947,767.
- Green, Robert S., and Stringer. 2,936,370.
- Stringer, Richard F.: *See*—
- Stanley, Hugh E., Watkins, Stringer, and McDonald. 2,965,694.
- Stringer, Richard F., to Esso Research and Engineering Co. Oxidation on saturated hydrocarbons using a calcium nickel-phosphate catalyst. 2,934,551, 4-26-60, Cl. 260-451.
- Stringfellow, Allen E., to I-T-E Circuit Breaker Co. Ceramic arc plate construction. 2,950,371, 8-23-60, Cl. 200-144.
- Stringfellow, Allen E., to I-T-E Circuit Breaker Co. Arc plates having resilient flanges. 2,959,653, 11-8-60, Cl. 200-144.
- Strinning, Nils E., and B. V. Berglind, to String Design AB. Adjustable shelf construction. 2,951,594, 9-6-60, Cl. 211-147.
- Strip, Joseph, to United States of America, Navy. Operational checkout of data handling equipment. 2,945,915, 7-19-60, Cl. 178-69.
- Striplin, Marcus M., Jr., J. M. Stinson, and J. M. Potts, to Tennessee Valley Authority. Production of liquid fertilizers. 2,950,961, 8-30-60, Cl. 71-42.
- Strittmatter, Bernhard B.: *See*—
- Durr, Walter, Geffecken, Huber, Haag, and Strittmatter. 2,926,855.
- Durr, Walter, Haag, and Strittmatter. 2,959,214.
- Strivens, Maurice A., to International Standard Electric Corp. Formation of ceramic mouldings. 2,939,199, 6-7-60, Cl. 25-156.
- Strnad, Albert R., to Bell Telephone Laboratories, Inc. Vacuum tight window for high frequency devices. 2,931,942, 4-5-60, Cl. 315-39.
- Strnad, James J., to Lemco Products, Inc. Pneumatic counterbalancing system for unbalanced rotating bodies. 2,961,806, 11-29-60, Cl. 51-105.
- Strobel, Albert F., W. W. Williams, and A. Wowk, to General Aniline & Film Corp. Azo dyestuffs. 2,938,896, 5-31-60, Cl. 260-151.
- Strobel, Charles K., R. G. McMichael, and R. T. Kimmell, to Robertshaw-Fulton Controls Co. Humidistat. 2,943,488, 7-5-60, Cl. 73-336.5.
- Strobel, Charles K., and G. F. Conner, to Robertshaw-Fulton Controls Co. Circuit breakers. 2,959,651, 11-8-60, Cl. 200-122.
- Strobel, Merrill J., to Westcott & Thomson, Inc. Apparatus for backing up a shell. 2,920,360, 1-12-60, Cl. 22-58.
- Strobel, Rudolf W., and J. E. Potter, to General Electric Co. Load break device. 2,922,863, 1-26-60, Cl. 200-120.
- Strock, Donald V., G. E. Moore, A. T. Schmidt, and J. P. Wadleck, to Blaw-Knox Co. Cold pipe expanding apparatus. 2,919,741, 1-5-60, Cl. 153-80.5.
- Strock, Howard E., to H. E. Strock, and M. F. Leftwich. Current transformer. 2,925,570, 2-16-60, Cl. 336-96.
- Strodtman, Howard: *See*—
- Djdidch, Robert, and R. W. and H. Strodtman. 2,957,374.
- Strodtman, Robert W.: *See*—
- Djdidch, Robert, and R. W. and H. Strodtman. 2,957,374.
- Stroebel, Alfred W.: *See*—
- Kebrich, Leonard M., and Stroebel. 2,929,733.
- Strogan, John. Vehicle air hose support. 2,932,475, 4-12-60, Cl. 248-54.
- Stroh, George B.: *See*—
- Smith, John E., Fleming, De Claire, and Stroh. 2,953,167.
- Stroh, George B., R. L. Ensinger, and W. H. Cowles, to Holley Carburetor Co. Pressure carburetor. 2,944,537, 7-12-60, Cl. 123-119.
- Strohm, Frederick W. J.: *See*—
- Lane, Clayton A., Strohm, and Ellis. 2,960,621.
- Strohm, Harold G., to Production Specialists. Spraying apparatus. 2,926,858, 3-1-60, Cl. 239-417.
- Strohmaier, Richard G. Folding carrier device. 2,949,314, 8-16-60, Cl. 280-36.
- Strohmayer, Herbert F.: *See*—
- Minckler, Leon S., Jr., Strohmayer, Stogryn, and Argabright. 2,935,542.
- Strohmeier, Harald, to Gebr. Bohler & Co. Aktiengesellschaft. Method of welding. 2,962,579, 11-29-60, Cl. 219-137.



- Strokes, George T., to Glo-Quartz Electric Heater Co., Inc. Resistance heating unit. 2,957,154, 10-18-60, Cl. 338-299.
- Strollis, Edward A., to Kemp Equipment Co. Machine for securing wire fasteners to boxes. 2,933,733, 4-26-60, Cl. 1-95.
- Strom, Albert P.: *See*—  
Browne, Thomas E., Jr., and Strom. 2,924,690.  
Browne, Thomas E., Jr., and Strom. 2,965,736.
- Strom, Donald A., to United States of America, Air Force. Right triangle solver. 2,938,671, 5-31-60, Cl. 235-191.
- Strom, Edgar T. Resilient hitch. 2,952,477, 9-13-60, Cl. 280-487.
- Strom, Leland D., to Texas Instruments Inc. Rotary waveguide joint and switching structure. 2,945,193, 7-12-60, Cl. 333-7.
- Strom, William R. Mowing implement. 2,941,347, 6-21-60, Cl. 56-26.
- Stroman, Larry J.: *See*—  
Erath, Louis W., and Stroman. 2,942,187.
- Stromberg-Carlson Co.: *See*—  
Trousdale, Robert B. 2,934,606.
- Stromberg, Olof E. B. Trailer surge brake assembly. 2,960,194, 11-15-60, Cl. 188-112.
- Stromberg, Verner L., and W. B. Hughes, to Petrolite Corp. Prevention of rust and corrosion. 2,944,969, 7-12-60, Cl. 252-8.55.
- Stromquist, Martin G. Bevel protractor. 2,920,392, 1-12-60, Cl. 33-75.
- Stromquist, Martin G. Bevel protractor. 2,959,861, 11-15-60, Cl. 33-94.
- Strong, Allen K., to American Cyanamid Co. Transportation unit and lifting sling therefor. 2,960,244, 11-15-60, Cl. 214-10.5.
- Strong, Cobb and Co., Inc.: *See*—  
Gaunt, William E. 2,928,769.  
Gaunt, William E. 2,928,771.
- Strong, Donald A. Holder for nursing bottles. 2,919,874, 1-5-60, Cl. 248-103.
- Strong Electric Corp., The: *See*—  
Hatch, Arthur J. 2,950,382.  
Winzeler, John W., and Hatch. 2,952,794.
- Strong, Herbert M.: *See*—  
Hall, Howard T., Strong, and Wentorf. 2,947,610.
- Strong, Herbert M., to General Electric Co. High temperature high pressure apparatus. 2,941,241, 6-21-60, Cl. 18-16.5.
- Strong, Herbert M., to General Electric Co. Reaction vessel. 2,941,251, 6-21-60, Cl. 18-34.
- Strong, Herbert M., to General Electric Co. Diamond synthesis. 2,947,609, 8-2-60, Cl. 23-209.1.
- Strong, Richard A. Ground-air vehicle. 2,923,494, 2-2-60, Cl. 244-22.
- Strong-Scott Mfg. Co.: *See*—  
Haigh, John T., and Roloff. 2,939,638.  
Phillips, Charles E. 2,946,523.
- Strongcraft Products, Inc.: *See*—  
Jones, Llewellyn. Re. 2,748.5.
- Stroop, John H., to Voi-Pak, Inc. High speed packaging machine. 2,943,428, 7-5-60, Cl. 53-59.
- Strother, Fred P., to West Point Mfg. Co. Multiple photocells and method of making same. 2,960,417, 11-15-60, Cl. 117-212.
- Strother, Ray A., and J. A. Palmer; said Palmer assor. to said Strother. Installation device for pull-type fasteners. 2,923,182, 2-2-60, Cl. 78-46.
- Strother, Russell C., and R. H. Flick, to Westinghouse Electric Corp. Circuit breaker. 2,937,252, 5-17-60, Cl. 200-109.
- Strotman, John F.: *See*—  
Likins, Merle, Strotman, and McCarthy. 2,946,829.
- Stroud, Arthur H.: *See*—  
Ucci, Pompello A., and Stroud. 2,924,502.
- Stroud, Edward A.: *See*—  
Strond, William F. 2,930,318.
- Stroud, William F.,  $\frac{1}{2}$  to E. A. Stroud and  $\frac{1}{2}$  to E. Budgeman. Printing machine. 2,930,318, 3-29-60, Cl. 101-223.
- Stroup, Earl L., to Overhead Door Corp. Sectional upwardly acting doors and like closures. 2,952,313, 9-13-60, Cl. 160-209.
- Stroup, Ross F., to Phillips Petroleum Co. Apparatus for production of carbon black. 2,950,179, 8-23-60, Cl. 23-259.5.
- Strouse, Arthur F., to Strouse, Inc. Spray product package and method of packaging spray products. 2,928,435, 3-15-60, Cl. 141-3.
- Strouse, Inc.: *See*—  
Strouse, Arthur F. 2,928,435.
- Strout, Basil A., to United Shoe Machinery Corp. Fastener inserting machines. 2,956,284, 10-18-60, Cl. 1-301.
- Strout, Robert W., to E. W. Bliss Co. Strip feed press with main and auxiliary feed bar means. 2,925,749, 2-23-60, Cl. 83-423.
- Strozler, Charles F., Sr., and D. L. Witt; said Witt, assor. to said Strozler. Toy rocket chute. 2,933,851, 4-26-60, Cl. 46-86.
- Strub, Henry M., Jr.: *See*—  
Lawrence, Charles S., and Strub. 2,944,383.  
Wood, William A., Jr., and Strub. 2,962,857.
- Strube, Richard E., to The Upjohn Co. 3-amino-5-(para-hydroxy-benzylidene) rhodanine. 2,949,464, 8-16-60, Cl. 260-240.
- Strube, Richard E., to The Upjohn Co. Hydroxybenzylideneaminorhodanines. 2,957,869, 10-25-60, Cl. 260-240.
- Struckmeyer, Burdean E.: *See*—  
Roberts, Ray H., and Struckmeyer. 2,937,206.
- Structo Mfg. Co.: *See*—  
Riggle, Marlan S. 2,954,437.
- Structural Clay Products Research Foundation: *See*—  
Edmonds, Harvey A., Evanson, and Gilbert. 2,933,207.  
Johnson, Paul V., and Taylor. 2,961,810.  
Olson, Irwin D., Taylor, Monk, and Wogulis. 2,964,820.  
Proett, Roland B., Wakefield, and Lyons. 2,924,021.  
Taylor, Robert B., Hubbard, and Johnson. 2,924,963.  
Taylor, Robert B., and Johnson. 2,931,104.
- Structural Concrete Components Ltd.: *See*—  
Sainty, Christopher L. 2,938,230.
- Structural Fibers, Inc.: *See*—  
Harris, Thomas. 2,943,758.
- Structural Products, Inc.: *See*—  
Beal, Robert. 2,940,718.  
Beal, Robert. 2,961,212.
- Struers, H., Chemiske Laboratorium: *See*—  
Damgaard, Laurits G. 2,965,556.
- Stull, Gene, and J. Pilipczak, to Westinghouse Electric Corp. Power transistors and process for making the same. 2,929,750, 3-22-60, Cl. 148-1.5.
- Strumor, Mathew A., to Regent Plastics, Inc. Dispenser for paste material. 2,944,705, 7-12-60, Cl. 222-94.
- Strumor, Mathew A. Pouring spout. 2,951,619, 9-6-60, Cl. 222-192.
- Strumwasser, Eric: *See*—  
Berk, Aristed D., and Strumwasser. 2,951,215.
- Strunck, Hans J.: *See*—  
Seirig, Alfred K., Enders, and Strunck. 2,948,997.
- Strunk, Willard M.: *See*—  
Larson, Orion G., and Strunk. 2,925,631.
- Strupp, Max M.: *See*—  
Phyl, Joseph, and Strupp. 2,959,246.
- Struthers, William H., to J. J. Klein. Means and method of packaging articles. 2,962,158, 11-29-60, Cl. 206-46.
- Strutynski, Jozef S., to B.M.S. Automatic Co., Inc. Camera attachment. 2,938,445, 5-31-60, Cl. 95-53.6.
- Stryker, Edwin M., Jr., to Collins Radio Co. Single-tuned regenerative frequency divider. 2,926,244, 2-23-60, Cl. 250-27.
- Stryker, Edwin M., Jr., to Collins Radio Co. Automatic calibration frequency responsive servosystem. 2,929,973, 3-22-60, Cl. 318-28.
- Stryker, Edwin M., Jr., and E. C. Thulin. Pulse-forming circuit. 2,962,664, 11-29-60, Cl. 328-156.
- Strzala, Kazimer A., to Owens-Illinois Glass Co. Article gauging and selecting apparatus. 2,937,749, 5-24-60, Cl. 209-88.
- Strzelewicz, Anthony S.: *See*—  
Toton, Edward J., and Strzelewicz. 2,937,335.
- Stuart, Archibald P.: *See*—  
Johnson, Herbert L., and Stuart. 2,922,826.  
Thompson, William E., Albright, and Stuart. 2,950,267.
- Stuart, Archibald P., to Sun Oil Co. Polymerization of olefins. 2,921,056, 1-12-60, Cl. 260-93.7.
- Stuart, Archibald P., to Sun Oil Co. Polymerization of ethylene with a cerium acetylacetonate-metal alkyl catalyst. 2,921,060, 1-12-60, Cl. 260-94.9.
- Stuart, Archibald P., to Sun Oil Co. Carbon deposit reduction. 2,935,476, 5-3-60, Cl. 252-18.
- Stuart, Archibald P., to Sun Oil Co. Polymerization of olefins. 2,935,497, 5-3-60, Cl. 260-93.7.
- Stuart, Archibald P., to Sun Oil Co. Polymerization of olefins. 2,938,019, 5-24-60, Cl. 260-93.7.
- Stuart, Archibald P., to Sun Oil Co. Desulfurization of hydrocarbons with a mixture of a group VIII metal and group VIII metal oxide or sulfide. 2,951,034, 8-30-60, Cl. 208-244.
- Stuart, Archibald P., to Sun Oil Co. Polymerization of mono-olefins in a dispersion of lithium and a partially polymerized diolefin. 2,962,472, 11-29-60, Cl. 260-45.5.
- Stuart, Archibald P., to Sun Oil Co. Refining hydrocarbons with hydrazines and hydrogenation catalysts. 2,966,455, 12-27-60, Cl. 208-254.
- Stuart, Frank A., and O. R. Brashear. Filterable dispersion of glycooxides in lubricating oils. 2,945,812, 7-19-60, Cl. 252-33.3.
- Stuart, Harold J., to E. I. du Pont de Nemours and Co. Coating compositions containing epoxihydroxy polyether resin and the reoperation of alkyd enamels with same. 2,949,380, 8-16-60, Cl. 117-2.
- Stuart, Joseph, III: *See*—  
Robertson, Arthur C., Stuart, and Wagner. 2,953,321.
- Stuart, Peter R.: *See*—  
Gabor, Dennis, and Stuart. 2,926,255.
- Stuart-Webb, Isobel A.: *See*—  
Barton, Suzanne P., Burn, Cooley, Ellis, Petrow, and Stuart-Webb. 2,939,819.  
Ellis, Bernard, Petrow, Stansfield, and Stuart-Webb. 2,927,119.
- Stuart-Williams, Raymond, to Telemeter Magnetics, Inc. Memory apparatus. 2,948,885, 8-9-60, Cl. 340-174.
- Stubberfield, Reuben A.: *See*—  
Clark, Earl D., and Stubberfield. 2,935,776.
- Stubbs, George. Method of preparing basal temperature graphs. 2,927,463, 3-8-60, Cl. 73-343.5.
- Stubbs, Gilbert S.: *See*—  
Coleman, Robert P., and Stubbs. 2,962,243.



- Stubbs, John J., D. M. Watts, and T. Ingham, to The English Electric Co. Ltd. Electrical measuring means for nuclear reactors. 2,949,415, 8-16-60, Cl. 204-193.2.
- Stubbs, Walter W., to Pittsburgh Reflector Co. Apparatus for assembling luminous ceilings. 2,942,704, 6-28-60, Cl. 189-88.
- Stubnitz Greene Corp.: See—
- Caughy, John M. 2,925,855.
- Peciura, Llonginas. 2,956,976.
- Stocum, Charles W. 2,930,959.
- Stuchbery, Arthur L., to The Metal Box Co. Ltd. Apparatus for printing on the exterior of can bodies. 2,936,701, 5-17-60, Cl. 101-40.
- Stuchbery, Arthur L., to The Metal Box Co. Ltd. Seaming of ends to can bodies. 2,957,439, 10-25-60, Cl. 113-19.
- Stuck, Harold D., to John W. Bolton & Sons, Inc. Process for making paper pulp. 2,957,795, 10-25-60, Cl. 162-28.
- Stuckenholt, Casper S., to The W. J. Schoenberger Co. Gas valves. 2,936,151, 5-10-60, Cl. 251-97.
- Stuckey, James M.: See—
- Binning, Robert C., and Stuckey. 2,958,657.
- Stuckey, James M., to Pan American Refining Corp., now by change of name to The American Oil Co. Method of separating hydrocarbons. 2,930,754, 3-29-60, Cl. 210-23.
- Stuckey, James M., to The American Oil Co. Method of separating hydrocarbons using ethyl cellulose permselective membrane. 2,958,656, 11-1-60, Cl. 210-23.
- Stucki, Robert. Process of knitting a non-run fabric. 2,955,444, 10-11-60, Cl. 66-96.
- Studebaker, Isaac Roger, and W. W. Greutman, to International Telephone & Telegraph Corp. Cathode-ray tube system. 2,951,180, 8-30-60, Cl. 315-24.
- Studebaker, John G.: See—
- Studebaker, John W. and J. G. 2,924,024.
- Studebaker, John W. and J. G. Educational workbook. 2,924,024, 2-9-60, Cl. 35-9.
- Studebaker-Packard Corp.: See—
- Lucia, Carroll J. 2,939,300.
- Nash, Edward L. 2,932,220.
- Nichols, De Owen, Jr., and Grove. 2,939,282.
- Peterson, Frederick J. 2,965,178.
- Warnken, Elmer P. 2,934,317.
- Warnken, Elmer P. 2,937,805.
- Warnken, Elmer P. 2,952,442.
- Zechel, William J. 2,920,711.
- Studer, Frank J.: See—
- Cusano, Dominic A., and Studer. 2,958,002.
- Studer, Paul A.: See—
- Schoeneberg, Werner A., and Studer. 2,961,288.
- Studer, Paul A., and J. S. Milazzo, to General Aniline & Film Corp. Halogenation of pyrene. 2,937,209, 5-17-60, Cl. 260-649.
- Studiengesellschaft Kohle m.b.H.: See—
- Hafner, Klaus. 2,953,607.
- Wilke, Gunther. 2,964,574.
- Zosel, Kurt. 2,930,808.
- Zosel, Kurt, and Schäfer. 2,950,979.
- Studler, Annick. Egg racks. 2,926,809, 3-1-60, Cl. 217-30.
- Studley Paper Co., Inc.: See—
- Cordell, Martin. 2,945,558.
- Fesco, John. 2,961,063.
- Studrine, Inc.: See—
- Tann, David, and Glass. 2,933,960.
- Stuebe, Carl W.: See—
- Le Suer, William M., and Stuebe. 2,960,542.
- Stuehmer, Werner, and S. Funke, to Kali-Chemie Aktiengesellschaft. Basic esters of  $\alpha$ -alkyl phenyl acetic acids and derivatives thereof, and a process of making same. 2,948,746, 8-9-60, Cl. 260-477.
- Stuetz, David R., V. D. Jones, and R. G. Golding, to Zeta Electronics. Door operating mechanism. 2,944,810, 7-12-60, Cl. 268-59.
- Stuetzer, Otmir M., to United States of America, Air Force. Semiconductive device powered by light. 2,944,165, 7-5-60, Cl. 307-88.5.
- Stuewer, Gerald D., to Socony Mobil Oil Co., Inc. Method and apparatus for transferring granular solids. 2,926,802, 3-1-60, Cl. 214-152.
- Stühmer, Werner, and S. Funke, to Kali-Chemie Aktiengesellschaft.  $\alpha$ -isopropyl- $\alpha$ -( $\beta$ -dimethylamino propyl)phenyl acetonitrile, and a process of making same. 2,934,557, 4-26-60, Cl. 260-468.
- Stukenborg, Louis C., 50% to H. V. Utterback. Suspended toy animal. 2,935,318, 5-3-60, Cl. 272-52.
- Stulen, Frank L., and A. C. Ballauer, to Parsons Corp. Balance and tracking of rotor blades. 2,951,542, 9-6-60, Cl. 170-159.
- Stulken, Edgar J.: See—
- Burg, Kenneth E., and Stulken. 2,954,090.
- Stull, Morton B. Dispensing cap for containers. 2,930,063, 3-29-60, Cl. 15-135.
- Stull, Walter E., Jr. Overhead door. 2,938,578, 5-31-60, Cl. 160-40.
- Stults, Frederick C.: See—
- Hinkle, Barton L., and Stults. 2,962,766.
- Stultz, Posy G., Jr., to C. M. O'Boyle. Slack adjuster for the foundation brakes of railway freight cars. 2,945,396, 7-19-60, Cl. 74-533.
- Stumbeck, Max J., to Engelhard Industries, Inc. Method of manufacturing a collector ring. 2,934,815, 5-3-60, Cl. 29-155.54.
- Stumbeck, Max J., to Engelhard Industries, Inc. Laminated thermostatic metal. 2,962,806, 12-6-60, Cl. 29-195.
- Stummer, Wilfried. Ship cargo-handling equipment for quick reshipment of cargo. 2,952,368, 9-13-60, Cl. 212-35.
- Stummeyer, Herbert: See—
- Becke, Friedrich, Sperber, Stummeyer, and Adolphi. 2,929,760.
- Pohlemann, Heinz, Winderl, Stummeyer, and Adolphi. 2,961,457.
- Schroeder, Harald, Pohlemann, Stummeyer, and Adolphi. 2,937,194.
- Stump, Charles D., to Joseph Bancroft & Sons Co. Cellulosic fabric finishing. 2,952,892, 9-20-60, Cl. 28-174.
- Stump, Eugen, to Daimler-Benz Aktiengesellschaft. Synchronizing clutch. 2,941,641, 6-21-60, Cl. 192-53.
- Stump, Eugen, to Daimler-Benz Aktiengesellschaft. Axle gear for motor vehicles. 2,947,200, 8-2-60, Cl. 74-695.
- Stump, Eugen, to Daimler-Benz Aktiengesellschaft. Axle suspension for vehicles. 2,955,842, 10-11-60, Cl. 280-124.
- Stump, Eugen, to Daimler-Benz Aktiengesellschaft. Anchor means for transmission units. 2,963,105, 12-6-60, Cl. 180-54.
- Stump, Eugen, and P. E. Strifler, to Daimler-Benz Aktiengesellschaft. Hydrodynamic torque converter and brake. 2,929,214, 3-22-60, Cl. 60-54.
- Stumpf, Howard, Jr., to West Virginia Pulp and Paper Co. Shelf extender display or storage device. 2,944,677, 7-12-60, Cl. 211-153.
- Stumpf, Howard C. Socket wrench. 2,961,905, 11-29-60, Cl. 81-121.
- Stumpf, Walter, to Simmons Co. Mattress handling mechanism. 2,934,219, 4-26-60, Cl. 214-1.
- Stuntz, John W., to United States of America, Navy. Signal comparator and evaluation circuit. 2,934,708, 4-26-60, Cl. 328-146.
- Stupar, Wesley E., to General Precision, Inc. Brush block. 2,954,540, 9-27-60, Cl. 339-17.
- Stupka, Albert F.: See—
- Dungan, Richard T., Long, Stupka, Taylor, and Wise. 2,966,140.
- Stupp, Bernard C. Apparatus for making friction tests. 2,944,417, 7-12-60, Cl. 73-9.
- Sturas, Jonas: See—
- Milenkovic, Veljko, Sturas, and Dubosque. 2,940,563.
- Sturdy-Cage Projects, Inc.: See—
- Cage, John M. 2,945,089.
- Sturdy, Raymond O.: See—
- Schueder, George M., Sturdy, Acton, and Glomb. 2,929,339.
- Schueder, George M., Sturdy, Acton, and Glomb. 2,963,991.
- Sturgeon, Stocker S., to The Foxboro Co. Method of and apparatus for minimizing spurious signals in an electromagnetic flowmeter. 2,929,247, 3-22-60, Cl. 73-194.
- Sturgeon, Stocker S., to The Foxboro Co. Electrode construction for electromagnetic flowmeters. 2,949,551, 8-16-60, Cl. 310-11.
- Sturgeon, Stocker S., to The Foxboro Co. Instrumentation device piping assembly. 2,957,710, 10-25-60, Cl. 285-55.
- Sturgeon, Thomas E. Convertible airplane. 2,945,646, 7-19-60, Cl. 244-49.
- Sturges, Norman D. Self-sealing battery terminal. 2,926,210, 2-23-60, Cl. 136-168.
- Sturges, Norman D. Non-spraying battery vent. 2,926,211, 2-23-60, Cl. 136-177.
- Sturgis, Bradford K., to I-T-E Circuit Breaker Co. Anti-glare instrument panel. 2,941,441, 6-21-60, Cl. 88-1.
- Sturgis, Charles P.: See—
- Abbott, Albert L., Paulos, and Sturgis. 2,928,706.
- Sturgis, Frank K.: See—
- Forrester, Robert E., and Sturgis. 2,966,160.
- Sturgis, Malcolm B. Power source for hydraulically operated devices. 2,938,347, 5-31-60, Cl. 60-52.
- Sturm, Max I., to Jasper Office Furniture Co. Interchangeable drawer runners. 2,961,284, 11-22-60, Cl. 312-350.
- Sturm, Ruger & Co., Inc.: See—
- Ruger, William B. 2,933,983.
- Ruger, William B. 2,955,373.
- Sturman, Valentine: See—
- Uhl, Vincent W., and Sturman. 2,963,996.
- Sturrock, Murray G., E. L. Cline, and K. R. Robinson, to Koppers Co., Inc. Method of making 2,2'-biphenyldicarboxyaldehyde. 2,942,030, 6-21-60, Cl. 260-599.
- Sturrock, Murray G., E. L. Cline, K. R. Robinson, and K. A. Zercher, to Koppers Co., Inc. Pyridine carboxylic acid preparation. 2,964,529, 12-13-60, Cl. 260-295.5.
- Sturtevant, Foster E., to Colt's Patent Fire Arms Mfg. Co., Inc. Automatic pistol firing mechanism. 2,959,107, 11-8-60, Cl. 89-145.
- Stutchfield, Eric: See—
- Russell, John P., Stutchfield, Myers, and Arthur. 2,936,567.
- Stutske, William A., and T. C. Sheets, to Kimble Glass Co. Machine for sealing face plates to cathode-ray tubes. 2,948,988, 8-16-60, Cl. 49-1.
- Stutz Co., The: See—
- Jenks, Carl W., and Niles. 2,921,009.
- Stutz, Gerhart, and O. Barthruff, to International Business Machines Corp. Printing unit for a high speed printer. 2,951,439, 9-6-60, Cl. 101-93.
- Stutz, Hansruedi: See—
- Haldemann, Heinz, and Stutz. 2,948,840.



- Stutz, Karl: *See*—  
 Spiess, Gustav, and Stutz. 2,958,796.
- Stutz, Richard G., to United Aircraft Corp. Aircraft flight path stabilizer. 2,941,792, 6-21-60, Cl. 264-1.
- Stutzman, Leroy F.: *See*—  
 Mason, Donald F., Thodos, and Stutzman. 2,937,527.
- Styes, Fred J. Water dispenser for concrete mixer. 2,949,942, 8-23-60, Cl. 141-272.
- Styner, Fritz, and A. Chlouba, deceased (G. A. Erni, executor). Device for selectively feeding and printing ticket strips. 2,924,170, 2-9-60, Cl. 101-66.
- Stypinski, Leszek J.: *See*—  
 Robinson, George I., and Stypinski. 2,933,143.
- Styron, Leonard G. Window guard. 2,926,402, 3-1-60, Cl. 20-71.
- Suarez, Julio F., to Casco Products Corp. Electric heating pad. 2,936,360, 5-10-60, Cl. 219-46.
- Suarez, Pedro S., to Dispositivos Industriales S.A. Siphon with manometric discharge control. 2,957,182, 10-25-60, Cl. 4-42.
- Subach, Albert C., and H. B. Betts, to Vanguard Instrument Corp. Optical projection motion analyzer. 2,922,333, 1-26-60, Cl. 83-24.
- Subach, Albert C., and H. B. Betts, to Vanguard Instrument Corp. Angle measuring screen. 2,937,447, 5-24-60, Cl. 33-1.
- Subilla, Maurice H., to Sanders Associates, Inc. Module riser cutter. 2,951,411, 9-6-60, Cl. 83-618.
- Subklew, Hermann, to Berkley Machine Co. Apparatus for forming patches application to envelope blanks and similar articles. 2,956,484, 10-18-60, Cl. 93-61.
- Sublett, Ira, and C. D. Johnson, to Fairmont Railway Motors, Inc. Hydraulic driving apparatus. 2,919,678, 1-5-60, Cl. 121-25.
- Sublette, Ivan H., and L. S. Bensky, to Radio Corp. of America. Memory reading system. 2,925,588, 2-16-60, Cl. 340-174.
- Sublette, Ivan H., and W. A. Helbig, to Radio Corp. of America. Method of and device for integrating signals. 2,952,838, 9-13-60, Cl. 340-172.5.
- Sublette, William L. Portable chimney. 2,956,495, 10-18-60, Cl. 98-46.
- Subluskey, Lee A. Molecular model construction. 2,920,400, 1-12-60, Cl. 35-18.
- Submerged Combustion, Inc.: *See*—  
 Heinze, Robert V., and Reyerson. 2,949,350.
- Sucetti, Glenn. Acoustical composition. 2,921,862, 1-19-60, Cl. 106-88.
- Suchet, Jacques, to Compagnie de St. Gobain. Preparation of metallic carbides. 2,952,598, 9-13-60, Cl. 204-164.
- Suchet, Jacques, to Compagnie de St. Gobain. Preparation of metallic nitrides. 2,952,599, 9-13-60, Cl. 204-177.
- Suchow, Lawrence, to Francis Earle Laboratories, Inc. Nacreous molybdenum disulfide. 2,945,770, 7-19-60, Cl. 106-148.
- Suckfull, Fritz, and H. Haubrich, to Farbenfabriken Bayer Aktiengesellschaft. Process for the manufacture of azophosphonic acid esters. 2,920,069, 1-5-60, Cl. 260-141.
- Suckfull, Fritz, and H. Nickel, to Farbenfabriken Bayer Aktiengesellschaft. Triazole azo dyestuffs. 2,932,636, 4-12-60, Cl. 260-157.
- Suckle, Jerome L. Droncloth. 2,943,380, 7-5-60, Cl. 28-80.
- Suckling, Charles W., and J. Raventos, to Imperial Chemical Industries Ltd. Process for the preparation of 1,1,1-trifluoro-2-bromo-2-chloroethane. 2,921,098, 1-12-60, Cl. 260-653.
- Suckling, Eustace E. Method of recording or reproducing prearranged sequences of pulses. 2,964,375, 12-13-60, Cl. 346-74.
- Suckling, Robert D.: *See*—  
 Bowers, Roy H., Suckling, and Stevens. 2,964,299.
- Suckling, William R. Tree-uprooting attachment for agricultural tractors. 2,943,406, 7-5-60, Cl. 37-2.
- Sud-Atlas-Werke G.m.b.H.: *See*—  
 Müller, Willy. 2,928,908.
- Sud-Aviation Nationale De Constructions Aeronautiques: *See*—  
 Laurent, Marcellin M., and Trousse. 2,954,667.
- Sud-Aviation Societe Nationale De Constructions Aeronautiques: *See*—  
 Besson, Louis. 2,943,815.  
 Marchetti, Charles J. 2,954,828.  
 Trannoy, Roger L. P. 2,940,700.  
 Trousse, Lucien L. 2,937,501.  
 Vongerichten, Emile G. 2,940,526.
- Sudan Gezira Board, The: *See*—  
 Macphree, Donald. 2,924,283.
- Sudbery, Carl H. Foldable bundle wrapping rack. 2,921,695, 1-19-60, Cl. 211-178.
- Sudbery, Carl H. Display rack. 2,947,422, 8-2-60, Cl. 211-47.
- Suddenteutsche Kalkstickstoff-Werke Aktiengesellschaft: *See*—  
 Kaess, Franz, Kronacher, Hoeger, and Dichtl. 2,940,824.  
 Kronacher, Hermann, and Dichtl. 2,920,940.  
 Motz, Jurgen, Kaess, and Vogel. 2,926,080.  
 Röck, Heinrich. 2,965,476.
- Suddenteutsche Kuhlerrabrik Julius Fr. Behr: *See*—  
 Caroli, Gerhard. 2,959,008.
- Sudeck, Norman H., to American Steel Foundries. Coupler operating rod support arrangement. 2,932,411, 4-12-60, Cl. 213-171.
- Suderow, George E.: *See*—  
 De Long, Leon B., and Suderow. 2,942,425.
- Suderow, George E., to De Long Corp. System of jacking and controls therefor. 2,920,870, 1-12-60, Cl. 254-93.
- Suderow, George E., to De Long Corp. Jacking mechanism and controls. 2,932,486, 4-12-60, Cl. 254-93.
- Suderow, George E., to De Long Corp. Releasable gripper for jack assemblies. 2,934,804, 5-3-60, Cl. 24-263.
- Suderow, George E., to De Long Corp. Caisson and detachable pontoon assembly for floating barges and the like. 2,936,592, 5-17-60, Cl. 61-46.5.
- Suderow, George E., to De Long Corp. Jacking mechanism. 2,946,557, 7-26-60, Cl. 254-93.
- Suderow, George E., to De Long Corp. Structure including jack and mounting therefor. 2,948,119, 8-9-60, Cl. 61-46.5.
- Suderow, George E., to De Long Corp. Supporting leg assembly for marine platform. 2,948,120, 8-9-60, Cl. 61-46.5.
- Suderow, George E., to DeLong Corp. Supporting leg assembly for marine platform. 2,961,837, 11-29-60, Cl. 61-46.5.
- Sudhaus, Heinrich, Sohne: *See*—  
 Höfgen, Fritz. 2,947,161.
- Sudhoff, Roy W.: *See*—  
 Schaefer, Rodger L., Sundbeck, and Sudhoff. 2,920,934.
- Sudler, James S. Coin receptacle. 2,927,684, 3-8-60, Cl. 206-8.
- Sudler, James S. Desk. 2,962,336, 11-29-60, Cl. 312-208.
- Sudmeier, Gustav H. Compressor. 2,928,588, 3-15-60, Cl. 230-139.
- Sudo, Taro: *See*—  
 Yamato, Shigeki, and Sudo. 2,932,729.
- Suehlsen, Herman W. Barbecue grill. 2,943,557, 7-5-60, Cl. 99-421.
- Suellentrop, Fred F. Protective cover for a dispensing valve assembly. 2,947,451, 8-2-60, Cl. 222-182.
- Süess, Rudolf: *See*—  
 Jucker, Ernst, Rissi, Süess, Vogel, and Wolff. 2,955,113.
- Sugar, Charles M.: *See*—  
 White, Ray C. 2,936,692.
- Sugarman, Robert M., to United States of America, Atomic Energy Commission. Sampling oscilloscope. 2,951,181, 8-30-60, Cl. 315-24.
- Sugg, John C., Jr.: *See*—  
 Richter, Orlando W., and Sugg. 2,947,937.
- Sugg, Robert P.: *See*—  
 Earnest, John A., and Sugg. 2,966,650.
- Sugino, Kameo: *See*—  
 Sweet, E. Roy, Wolbach, and Sugino. 2,960,391.
- Sugitani, Hitoshi. Manufacturing method of succades with the natural form of raw fruits or vegetables. 2,946,691, 7-26-60, Cl. 99-168.
- Sugiyama, Masao: *See*—  
 Tashima, Yoshizo, and Sugiyama. 2,959,113.
- Suhan, Stephen G. Safety refrigerator door stop. 2,924,185, 2-9-60, Cl. 109-63.5.
- Suhl, Harry, to Bell Telephone Laboratories, Inc. Nonreciprocal single crystal ferrite devices. 2,922,125, 1-19-60, Cl. 333-24.
- Suhl, Harry, to Bell Telephone Laboratories, Inc. Hall effect device for electromagnetic waves. 2,922,129, 1-19-60, Cl. 333-98.
- Suhl, Harry, and L. R. Walker, to Bell Telephone Laboratories, Inc. Nonreciprocal wave guide component. 2,922,126, 1-19-60, Cl. 333-31.
- Suhre, Jerome: *See*—  
 Loria, Walter J., and Suhre. 2,936,097.
- Suhrie, Eugene C., to Koppers Co., Inc. Thickening agents. 2,921,930, 1-19-60, Cl. 260-78.5.
- Sulca, Catherine G. Pie shell forming device. 2,954,729, 10-4-60, Cl. 99-436.
- Suits, Chauncey G., to General Electric Co. Charged spring starters. 2,947,891, 8-2-60, Cl. 310-41.
- Sulc, Vladimir: *See*—  
 Kruml, Vincenc, Brabeneec, and Sulc. 2,929,917.
- Sulcek, Charles E., to Whirlpool Corp. Laundry machine, suds overflow control. 2,961,863, 11-29-60, Cl. 68-20.
- Sulkowski, Thaddeus A.: *See*—  
 Collum, Samuel J., and Sulkowski. 2,947,991.
- Sullivan, Bernell T., and H. C. Abbott, to Candace, Inc. Electric mattress pad. 2,938,991, 5-31-60, Cl. 219-46.
- Sullivan, Betty J., and G. F. Dasher, Jr., to Russell-Miller Milling Co. Method of preparing protein rich flour. 2,957,632, 10-25-60, Cl. 241-5.
- Sullivan, Daniel J. Concrete floor finisher. 2,940,299, 6-14-60, Cl. 72-136.
- Sullivan, Earle C., to General Electric Co. Percolator brew strength control. 2,950,375, 8-23-60, Cl. 219-44.
- Sullivan, Edward A., to Metal Hydrides Inc. Metal plating by chemical reduction with borohydrides. 2,942,990, 6-28-60, Cl. 106-1.
- Sullivan, Edward M., to A. W. Bettigole and O. H. Sternbane. Heating and/or cooling system. 2,943,842, 7-5-60, Cl. 257-279.
- Sullivan, Francis F., H. R. Baker, and C. R. Singleterry, to United States of America, Navy. Silicone oil grease containing a phthalocyanine and acetylene black. 2,929,779, 3-22-60, Cl. 252-29.
- Sullivan, Francis G., to Chrysler Corp. Slip friction vibration damping mount. 2,925,972, 2-23-60, Cl. 248-9.
- Sullivan, Francis G.: *See*—  
 Aebersold, Frederick C., and Sullivan. 2,925,974.
- Sullivan, Francis J. Hospital bed. 2,956,289, 10-18-60, Cl. 5-67.



- Sullivan, Frank A. V., to American Cyanamid Co. N,N'-di-nitroso-N,N'-dialkylparacresoldisulfonamides and composition comprising rubber and said compounds as blowing agents. 2,960,481, 11-15-60, Cl. 260-2.5.
- Sullivan, Frederick W., III: *See*—  
Kazmierczak, Leo J., and Sullivan. 2,925,331.
- Sullivan, George C. Gun forearm. 2,965,994, 12-27-60, Cl. 42-71.
- Sullivan, Gerald L., to General Electric Co. Induction motor control system. 2,953,732, 9-20-60, Cl. 318-207.
- Sullivan, Glenn O., to All-Ace, Inc. Dolly for towing disabled vehicles. 2,937,772, 5-24-60, Cl. 214-86.
- Sullivan, Gregory B. Surgical saw. 2,951,482, 9-6-60, Cl. 128-317.
- Sullivan, James D.: *See*—  
Robinson, Warr D., and Sullivan. 2,963,408.
- Sullivan, James D., to A. O. Smith Corp. Method of applying a glass coating to steel by using an intermediate layer of nickelous oxide. 2,940,865, 6-14-60, Cl. 117-23.
- Sullivan, James D., W. D. Robinson, and H. D. Cummings, to Monsanto Chemical Co. Inversion of maleic acid to fumaric acid. 2,955,136, 10-4-60, Cl. 260-537.
- Sullivan, James F.: *See*—  
Cox, Robert E., and Sullivan. 2,943,688.
- Sullivan, John J. Vertical and horizontal flight amphibious aircraft. 2,926,869, 3-1-60, Cl. 244-12.
- Sullivan, John J. Submarine deck and missile-launching construction. 2,948,246, 8-9-60, Cl. 114-16.
- Sullivan, John K., to The Goodyear Tire & Rubber Co. Preparation of polyesters using cobaltous chloride as catalyst. 2,937,160, 5-17-60, Cl. 260-75.
- Sullivan, John K., to The Goodyear Tire & Rubber Co. Synthesis of polyesters using lead acetate as catalyst. 2,947,729, 8-2-60, Cl. 260-75.
- Sullivan, Miller J., and G. J. Martin, to The National Drug Co. Stabilized trypsin compositions containing partially hydrolyzed gelatin and method of making. 2,930,736, 3-29-60, Cl. 167-73.
- Sullivan, Norman M., to The Alvey-Ferguson Co. Conveyor-type article storage rack having lift-out rail sections. 2,950,014, 8-23-60, Cl. 211-151.
- Sullivan, Raymond A., to Farm Structures & Supply Co. Unloading mechanism for wet grain storage structures. 2,931,522, 4-5-60, Cl. 214-17.
- Sullivan, Raymond J., to General Electric Co. Cassette. 2,930,305, 3-29-60, Cl. 95-71.
- Sullivan, Raymond P.: *See*—  
Hackman, Robert L., and Sullivan. 2,922,023.  
Hackman, Robert L., Sullivan, and Lobosco. 2,922,871.
- Sullivan, Raymond P., to Union Carbide Corp. Pilot arc spot welding. 2,957,977, 10-25-60, Cl. 219-127.
- Sullivan, Robert C.: *See*—  
Bell, Keith L. 2,927,157.
- Sullivan, Robert E.: *See*—  
Holderreed, Francis L., and Sullivan. 2,947,606.
- Sullivan, Robert H., to E. I. du Pont de Nemours and Co. Process for the preparation of glutamic acid. 2,964,534, 12-13-60, Cl. 260-326.
- Sullivan, Robert J., D. P. McHugh, and M. K. Wolfson, to General Electric Co. Jet spoiler and reverser. 2,929,204, 8-22-60, Cl. 60-35.54.
- Sullivan, Robert J., and H. J. Nozick, to United Aircraft Corp. Jet propelled convertible plane with jet driven rotor. 2,941,749, 6-21-60, Cl. 244-6.
- Sullivan, Robert T.: *See*—  
Le Mat, Lee E., and Sullivan. 2,936,611.
- Sullivan, Timothy J., to Sullivan Valve and Engineering Co. Unidirectional check valve. 2,946,341, 7-26-60, Cl. 137-116.5.
- Sullivan, Timothy J., to Sullivan Valve and Engineering Co. Adjustable gas control valve. 2,966,329, 12-27-60, Cl. 251-31.
- Sullivan Valve and Engineering Co.: *See*—  
Sullivan, Timothy J. 2,946,341.  
Sullivan, Timothy J. 2,966,329.
- Sullivan, Vincent A., Jr., and T. H. Smedslund, to The Stephan Chemical Co. Corrosion inhibition of dimethyl sulfoxide. 2,948,683, 8-9-60, Cl. 252-75.
- Sullivan, Vincent A., Jr., and Z. J. Ptasiniski, to The Stepan Chemical Co. Purification of detergent compositions. 2,952,639, 9-13-60, Cl. 252-161.
- Sullivan, William E., to Wesco Valve Co., Inc. Valve seat insert. 2,923,284, 2-2-60, Cl. 123-188.
- Sullivan, William J., to Shell Oil Co. Epoxy beta-lactones. 2,940,982, 6-14-60, Cl. 260-343.9.
- Sulphite Products Corp.: *See*—  
Boggs, Lawrence A., and Wiley. 2,944,922.
- Sultan, Robert. Replaceable heel construction. 2,943,404, 7-5-60, Cl. 36-42.
- Sulzer Freres, Societe Anonyme: *See*—  
Burl, Alfred. 2,921,441.  
Burl, Alfred. 2,949,896.  
Burl, Alfred. 2,962,865.  
Caille, Charles. 2,939,374.  
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Schmidli, Adalbert. 2,923,279.  
Schneider, Hans. 2,948,034.  
Trepp, Christian. 2,958,203.
- Sulzmann, Erich. Continuous flow washing machine assembly. 2,961,864, 11-29-60, Cl. 68-27.
- Sulzmann, Erich J. Compartmented drum washing machine for textiles, especially laundry. 2,938,367, 5-31-60, Cl. 68-58.
- Sumerak, Paul J. Threaded insert with projections. 2,949,142, 8-16-60, Cl. 151-41.73.
- Sumnerford, Wooten T., and F. A. Grunwald, to Mead Johnson & Co. N-(dialkylaminomethyl)benzillic amides. 2,932,645, 4-12-60, Cl. 260-294.
- Sumitomo Chemical Co., Ltd.: *See*—  
Matsui, Masano. 2,951,853.  
Murahashi, Shunsuke, and Horie. 2,944,056.  
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Taniyama, Toshio, Saeki, Karato, and Usamoto. 2,957,758.
- Usui, Motomu. 2,962,521.
- Sumitomo Electric Industries, Ltd.: *See*—  
Yokose, Kyohei. 2,952,728.
- Summerer, Ray E., to General Motors Corp. Triple condition tell-tale systems. 2,962,703, 11-29-60, Cl. 340-233.
- Summerer, William H.: *See*—  
Hoellerich, John L., Reichl, and Summerer. 2,930,038.
- Summerer, William H., to Admiral Corp. Cabinet support. 2,935,288, 5-3-60, Cl. 248-349.
- Summerhayes, Harry R., Jr., to General Electric Co. Function generator. 2,935,617, 5-3-60, Cl. 250-217.
- Summerlin, Frederick A.: *See*—  
Jofeh, Marcus L., Summerlin, and Downes. 2,936,136.
- Summerlin, Frederick A., to The Sperry Gyroscope Co. Ltd. Aircraft automatic control system. 2,961,202, 11-22-60, Cl. 244-77.
- Summers, Caleb E. Internal combustion engines. 2,924,210, 2-9-60, Cl. 123-191.
- Summers, Claude R., Jr.: *See*—  
Cantrell, Troy L., Peters, and Summers. 2,966,460.
- Summers, Gerald C.: *See*—  
Broding, Robert A., Ely, and Summers. 2,949,973.
- Summers, Gerald C., to Socony Mobil Oil Co., Inc. Acoustic pulse frequency log. 2,956,635, 10-18-60, Cl. 181-5.
- Summers Gyroscope Co.: *See*—  
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Summers, Thomas O., Jr. 2,951,374.  
Summers, Thomas O., Jr. 2,951,375.
- Summers, Irvin C.: *See*—  
Haigh, Louis E., and Summers. 2,931,932.
- Summers, James A.: *See*—  
Shipwash, Mack L. 2,962,882.
- Summers, Leroy A. Rod tip line receptacle. 2,965,329, 12-20-60, Cl. 242-84.1.
- Summers-Smith, James D.: *See*—  
Semmens, Peter W. B., and Summers-Smith. 2,945,814.
- Summers, Stanley E., to Aquilite Corp. Preloaded rupturable-disc relief valve. 2,960,096, 11-15-60, Cl. 137-69.
- Summers, Thomas O., Jr., to Summers Gyroscope Co. Rate integrator. 2,951,373, 9-6-60, Cl. 74-5.5.
- Summers, Thomas O., Jr., to Summers Gyroscope Co. Position and rate sensitive gyro. 2,951,374, 9-6-60, Cl. 74-5.5.
- Summers, Thomas O., Jr., to Summers Gyroscope Co. Rate integrating gyro. 2,951,375, 9-6-60, Cl. 74-5.5.
- Summers, Thomas O., Jr., to The Garrett Corp. Cooling system for aircraft skin and accessories. 2,958,482, 11-1-60, Cl. 244-74.
- Summit Trust Co.: *See*—  
Cann, Edward. 2,939,527.
- Sumner, Eric E.: *See*—  
Baker, Paul A., and Sumner. 2,931,920.
- Sumner Iron Works, Inc.: *See*—  
Fish, Marion F. 2,944,741.
- Sump, Cord H.: *See*—  
Forster, George A., and Sump. 2,939,977.
- Sun Electric Corp.: *See*—  
Westberg, Vernon C., and Thomas. 2,926,301.
- Sun, Kuan-Han, P. R. Malmberg, and F. A. Pecjak, to Westinghouse Electric Corp. Fluorescent structures and method of manufacture. 2,945,128, 7-12-60, Cl. 250-80.
- Sun Oil Co.: *See*—  
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Beck, Henry C. 2,961,396.  
Bergstrom, Daniel P. 2,957,347.  
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Blisard, Harold S., Smith, Rockstroh, and Guthrie. 2,943,992.  
Brooks, Charles H. 2,920,031.  
Brooks, Charles H. 2,921,721.  
Brooks, Charles H. 8,922,281.  
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Cox, William H. 2,923,367.  
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Dobson, Ernest W., Fear, and Shuman. 2,952,609.  
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Ferris, Seymour W. 2,942,766.  
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 Hepp, Peter S. 2,921,777.  
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 Hirschler, Alfred E. 2,928,785.  
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 Hodges, James W. 2,942,618.  
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 Hoffman, James P. 2,944,014.  
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 Hopkins, Richard H. 2,923,368.  
 Jacob, Lawrence N. 2,945,822.  
 Jezl, James L. 2,921,896.  
 Jezl, James L. 2,927,077.  
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 Jezl, James L. 2,931,775.  
 Jezl, James L. 2,935,496.  
 Jezl, James L. 2,940,933.  
 Jezl, James L. 2,949,418.  
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 Johnson, Herbert L., and Henderson. 2,946,779.  
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 Lipkin, Moses R. 2,943,064.  
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 Magill, Lloyd G. 2,945,748.  
 Mayes, Fred M. 2,922,101.  
 Mayes, Fred M. 2,929,020.  
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 Mayes, Fred M. 2,942,473.  
 McClure, William L. 2,945,724.  
 McClure, William L. 2,952,621.  
 McClure, William L. 2,952,622.  
 McClure, William L. 2,952,623.  
 McConkey, George B. 2,958,205.  
 Mertes, Thomas S. 2,925,376.  
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 Shawhan, Elbert N. 2,936,096.  
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 Smith, Howard C. 2,930,565.  
 Stuart, Archibald P. 2,921,056.  
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 Stuart, Archibald P. 2,935,476.  
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 Surles, Jack W. H. 2,963,036.  
 Tench, John D., and Duling. 2,943,991.  
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 Thayer, Clarence H. 2,937,006.  
 Thomas, Charles L. 2,944,016.  
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 Voltz, Sterling E. 2,965,692.  
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 Worth, John L. 2,934,495.  
 Young, Einar T. 2,947,148.  
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Valentine, Vaughn E., and Zoker. 2,959,816.

Sunagawa, Genshun, N. Soma, and H. Nakao. Process for the production of tropone. 2,964,566, 12-13-60, Cl. 260-586.

Sunbeam Corp.: *See*—

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Jepson, Ivar. 2,924,698.

Jepson, Ivar. 2,926,478.

Jepson, Ivar. 2,926,779.

Jepson, Ivar. 2,937,261.

Jepson, Ivar. 2,940,195.

Jepson, Ivar. 2,948,063.

Jepson, Ivar. 2,948,088.

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Bodian, Marcus. 2,937,841.

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Sund, Lola L. Drying frame for petticoats and shirts. 2,923,449, 2-2-60, Cl. 223-69.

Sunday, James J. Automatic bowling machine. 2,928,676, 3-15-60, Cl. 273-44.

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Sundbeck, Edward H.: *See*—

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Sundberg, Carl B., to The International Silver Co. Napkin holder construction. 2,940,598, 6-14-60, Cl. 211-50.

Sundberg, Carl O. Golf putting coordinator device. 2,923,552, 2-2-60, Cl. 273-163.

Sundberg, Robert L., and J. M. Cross, to General Aniline & Film Corp. Polyoxethylene ethers of branched chain alcohols. 2,965,678, 12-20-60, Cl. 260-615.

Sundblad, Erik, to Uddeholms Aktiebolag. Lifting device. 2,926,039, 2-23-60, Cl. 294-106.

Sundblad, Karl Y., and S. V. Soderstrom. Apparatus for stacking and weighing sheets of wood pulp and the like. 2,930,493, 3-29-60, Cl. 214-2.

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Valentyne, Peter H., and Sundbom. 2,963,308.

Sundry, Arthur M. Power operated hinge-seat cutting hand tool. 2,960,124, 11-15-60, Cl. 144-27.

Sundry, Kristen. Means for attaching an additional plastic window pane to a window frame or sash. 2,925,862, 2-23-60, Cl. 160-354.

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Sundholm, Norman K., to United States Rubber Co. Certain N,N'-disubstituted ethylenic benzothiazolesulfenamides. 2,930,824, 3-29-60, Cl. 260-788.

Sundholm, Edwin P. Grease gun dispensing head assembly. 2,923,443, 2-2-60, Cl. 222-380.

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Sundin, George H., to United States Steel Corp. Unloading mechanism for belt conveyors. 2,949,999, 8-23-60, Cl. 198-185.

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Hann, Melvin M., Moon, and Carlson. 2,942,421.

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Swanson, Walter S., and Nordstrom. 2,939,352.

Teumer, Kenneth A. 2,931,177.

Sundstrand, Oscar J., to Victor Adding Machine Co. Printing calculating machine. 2,929,476, 3-22-60, Cl. 192-28.

Sundstrom, John F., to Western Electric Co., Inc. Tool for date marking molds. 2,963,961, 12-13-60, Cl. 101-4.

Sundt, Edward V. Multiple speed driving mechanism for windshield wipers and the like. 2,919,587, 1-5-60, Cl. 74-76.

Sundt, Edward V. Driving mechanism for windshield wipers and the like. 2,919,588, 1-5-60, Cl. 74-76.

Sundt, Edward V. Multiple speed driving mechanism for windshield wipers and the like. 2,919,589, 1-5-60, Cl. 74-78.

Sundt, Edward V. Driving mechanism for windshield wipers and the like. 2,919,593, 1-5-60, Cl. 74-472.



- Sundt, Edward V., to Sundt Engineering Co. Protection system for meters or the like. 2,921,264, 1-12-60, Cl. 324-110.
- Sundt, Edward V. Overload circuit breaker. 2,926,227, 2-23-60, Cl. 200-88.
- Sundt, Edward V. Mechanism for operating telescopic antennas or the like. 2,953,934, 9-27-60, Cl. 74-424.8.
- Sundt, Edward V. Multiple speed reducer. 2,953,944, 9-27-60, Cl. 74-750.
- Sundt Engineering Co.: See—  
Sundt, Edward V. 2,921,264.
- Sung, Chien-Bor, to Bendix Aviation Corp. Linear fluid actuator. 2,919,682, 1-5-60, Cl. 121-70.
- Sunico, Berino P. Working time calculator. 2,961,157, 11-22-60, Cl. 235-83.
- Sunkist Growers, Inc.: See—  
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- Sunray, Ben: See—  
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- Sunshine Biscuits, Inc.: See—  
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- Sunstein, David E.: See—  
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- Sunstein, David E., to Philco Corp. Mask controlled signal generating system. 2,922,049, 1-19-60, Cl. 250-217.
- Sunstein, David E., to Philco Corp. Signal drop-out system. 2,943,151, 6-28-60, Cl. 179-15.
- Sunvic Controls Ltd.: See—  
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- Suozzi, Joseph J., to United States of America, Navy. Magnetic amplifier with transistor input and feedback circuit. 2,936,414, 5-10-60, Cl. 323-89.
- Suozzo, Leonard S., to Bergen Pipesupport Corp. Constant support device. 2,923,507, 2-2-60, Cl. 248-054.
- Suozzo, Leonard S., to Bergen Pipesupport Corp. Constant support device. 2,939,663, 6-7-60, Cl. 248-54.
- Super, Ralph K.: See—  
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- Super-Cut, Inc.: See—  
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- Superior Ball Joint Corp.: See—  
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- Superior Concrete Accessories, Inc.: See—  
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- Superior Electric Co., The: See—  
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- Polzella, Louis C., Snowdon, and Carpenter. 2,947,959.
- Snowdon, Arthur E. 2,937,319.
- Snowdon, Arthur E., and Fredrickson. 2,931,929.
- Superior Foundry, Inc.: See—  
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- Superior Machinery Corp.: See—  
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- Superior Oil Co., The: See—  
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- Superior Pipe Specialties Co.: See—  
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- Superior Separator Co.: See—  
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- Superior Tank & Construction Co.: See—  
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- Super Laundry Machinery Co.: See—  
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- Superlite Builders Supply Co.: See—  
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Glynn, Edwin A. 2,921,338.  
Glynn, Edwin A. 2,941,584.  
Sorricks, Clay H. 2,954,962.
- Supernaw, Dwight L., to United States of America, Navy. Torpedo steering mechanism. 2,949,878, 8-23-60, Cl. 114-23.
- Super Oil Seal Mfg. Co., Ltd.: See—  
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- Supertron Corp.: See—  
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- Superweld Corp.: See—  
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- Supitilov, Michael C.: See—  
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- Supitilov, Michael C., to Du Kane Corp. Plastic belt for sound recording and reproducing. 2,937,028, 5-17-60, Cl. 274-41.4.
- Subject, Anthony B. Tamping device for a curb and gutter paving machine. 2,957,397, 10-25-60, Cl. 94-46.
- Supowitz, Leroy. Canine training apparatus. 2,941,504, 6-21-60, Cl. 119-29.
- Supreme Knitting Machine Co., Inc.: See—  
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Mishcon, Lester, and Agulnek. 2,941,383.
- Supreme Steel Equipment Corp.: See—  
Ibel, Charles J. 2,930,666.
- Suprin, Jean, and F. Soldano, to Esso Standard Societe Anonyme Francaise. Anti-corrosion compositions. 2,956,020, 10-11-60, Cl. 252-33.4.
- Suprowich, Wasyl S. Tobacco leaf drying frame and racks therefor. 2,952,365, 9-13-60, Cl. 211-86.
- Supurdisplay, Inc.: See—  
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- Suran, Jerome J.: See—  
Aldrich, Richard W., and Suran. 2,937,289.  
Chow, Woo F., and Suran. 2,930,996.
- Suran, Jerome J., and F. A. Reibert, to General Electric Co. Cross-coupled multivibrator selectively operable either monostably or bistably. 2,963,593, 12-6-60, Cl. 307-88.5.
- Sureau, Robert F. M.: See—  
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- Surelock Mfg. Co., Inc.: See—  
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- Surenda, Frank J.: See—  
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- Surerus, Robert A. Automatically-regulated precision-ball processing machine. 2,926,464, 3-1-60, Cl. 51-117.
- Surface Conduction, Inc.: See—  
Goubau, Georg J. E. 2,921,277.  
Hafner, Theodore. 2,949,589.
- Suri, Man M., to The President of the Republic of India. Fluid-mechanical transmission. 2,949,793, 8-23-60, Cl. 74-720.5.
- Surino, Alphonse: See—  
Durant, Leonard G., and Surino. 2,948,336.
- Surles, Jack W. H., to Sun Oil Co. Means for passing fluids through well tubing walls. 2,963,036, 12-6-60, Cl. 137-155.
- Surmatis, Joseph D., to Hoffmann-La Roche Inc. Unsaturated di(phosphonium halide) compounds and diphosphine compounds and preparation thereof. 2,945,888, 7-19-60, Cl. 260-606.5.
- Surrett, Edward J.: See—  
Cramer, Charles H., Surrett, and Swed. 2,948,176.
- Surrey, Alexander R., to Sterling Drug Inc. Aminoalkyl-aminomethylenemalononitriles and their preparation. 2,928,831, 3-15-60, Cl. 260-247.5.
- Surrey, Alexander R., to Sterling Drug Inc. N-(2,2-dialkoxyethyl)-N-[(substituted-phenyl)alkyl] dihaloacetamides and their preparation. 2,929,844, 3-22-60, Cl. 260-562.
- Surrey, Alexander R., to Sterling Drug Inc. 1-substituted-4-[(tertiary- or secondary-amino)-alkylimino]-1,4-dihydroquinolines. 2,940,974, 6-14-60, Cl. 260-286.
- Surrey, Alexander R., to Sterling Drug Inc. 1-arylmethyl-4-(quaternary-ammonium-alkylimino)-1,4-dihydroquinolines. 2,940,975, 6-14-60, Cl. 260-286.
- Surrey, Alexander R., to Sterling Drug Inc. 1-(lower-alkyl)-4-(quaternary-ammonium-alkylimino)-1,4-dihydroquinolines. 2,940,976, 6-14-60, Cl. 260-286.
- Sury, Ernst: See—  
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Hoffmann, Karl, and Sury. 2,957,881.  
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- Süs, Oskar: See—  
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- Süs, Oskar, and H. Schlesinger, to Keuffel & Esser Co. Dye-type copying processes. 2,946,684, 7-26-60, Cl. 96-91.
- Sussebach, Walter: See—  
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- Sussin, Max H., to Robertson-Photo-Mechanix Inc. Photographic printing apparatus. 2,957,400, 10-25-60, Cl. 95-76.
- Sussin, Victor, to General Controls Co. Pressure switch. 2,941,055, 6-14-60, Cl. 200-83.
- Susskind, Alfred K.: See—  
McDonough, James O., Susskind, Grossimon, and Lee. 2,963,137.
- Sussman, Martin V. Liquid aerating drinking straw. 2,943,794, 7-5-60, Cl. 239-33.
- Sussman, Vincent, to Joseph Waldman & Sons. Method of encapsulating electronic components or other elements. 2,943,359, 7-5-60, Cl. 18-59.
- Sutcliffe, Richard, to Textile Air Systems Ltd. Ventilation and dust removal systems of ring spinning mills. 2,924,062, 2-9-60, Cl. 57-56.
- Suter, Hubert: See—  
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- Sutherland, Ansel C., and H. H. Penland, to American Enka Corp. Bulked yarn and method for producing same. 2,959,909, 11-15-60, Cl. 57-140.
- Sutherland, Donald M., H. Proctor, J. K. Jobbins, and J. L. Kearney, to Metropolitan-Vickers Electrical Co. Ltd., and United Kingdom Atomic Energy Authority. Eddy current brake system for a reactor rod. 2,964,661, 12-13-60, Cl. 310-93.
- Sutherland, Norman V., and W. D. Maitland, to Raytheon Co. Magnetic shielding. 2,954,140, 9-27-60, Cl. 217-53.
- Sutherland Paper Co.: See—  
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- Sutherland, Ronald D., and W. A. Catchpole, to International Standard Electric Corp. Semi-conductor devices. 2,939,205, 6-7-60, Cl. 29—25.3.
- Sutherland, Spurgeon, to United States of America, Navy. Method and mechanisms for aligning an inertial stabilized platform. 2,955,474, 10-11-60, Cl. 74—5.34.
- Sutherlin, Jack: *See*—  
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- Sutker, Burton J.: *See*—  
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- Sutliff, Wayne N. Hydraulic jar. 2,922,626, 1-26-60, Cl. 255—27.
- Sutowski, Walter S. Wheel having nylon rim and method of making same. 2,935,357, 5-3-60, Cl. 301—5.
- Sutphen, Robert M.: *See*—  
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- Sutphen, Robert M.: *See*—  
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- Sutter, David: *See*—  
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- Sutter, Hans. Method and apparatus for reading handwritten symbols, particularly numerals. 2,928,074, 3-8-60, Cl. 340—149.
- Suttle, John F.: *See*—  
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- Suttle, Ward C., to Bendix Aviation Corp. Fuel supply system. 2,948,273, 8-9-60, Cl. 123—140.
- Sutton, Blaine M., to Smith, Kline & French Laboratories. 2-amino-4-trifluoromethylanilino-s-triazines. 2,934,535, 4-26-60, Cl. 260—249.9.
- Sutton, Bruce L.: *See*—  
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- Sutton, Charles E. Automatic accelerator stop light switch assembly. 2,926,224, 2-23-60, Cl. 200—61.89.
- Sutton, Chester H.: *See*—  
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- Sutton, Edwin C.: *See*—  
Joukainen, Arnold S., Moroz, and Sutton. 2,920,347.
- Sutton Engineering Co.: *See*—  
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- Sutton, George P.: *See*—  
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- Sutton, Joseph, and R. Banks, to Marconi's Wireless Telegraph Co. Ltd. Grid bias control for class-B amplifier. 2,934,715, 4-26-60, Cl. 330—139.
- Sutton, Joseph A.: *See*—  
Mackay, John H., and Schleicher. 2,937,377.  
Mackay, John H., and Schleicher. 2,937,378.  
Mackay, John H., and Schleicher. 2,937,379.
- Sutton, Mack, to Standard Oil Co. Caustic oxidation of alcohols. 2,926,182, 2-23-60, Cl. 260—413.
- Sutton, Walter T., Jr., to Essex Electronics. Electrical winding construction. 2,941,172, 6-14-60, Cl. 336—92.
- Sutton, William J. L., to Monsanto Chemical Co. Protein composition. 2,929,715, 3-22-60, Cl. 99—14.
- Suverkrop, Don, to Hopper Machine Works, Inc. Castor bean harvester. 2,952,962, 9-20-60, Cl. 56—130.
- Suverkrop, Lew. Reel for plumb bob. 2,965,973, 12-27-60, Cl. 33—217.
- Suzukawa, Hiroshi, to Canon Camera Co., Inc. Flash synchronizing apparatus. 2,930,298, 3-29-60, Cl. 95—11.5.
- Suzukawa, Hiroshi, to Canon Camera Co., Inc. Curtain shutter winding mechanism for cameras. 2,924,160, 2-9-60, Cl. 95—57.
- Suzuki, Ichizi: *See*—  
Suzuki, Tatsue and I. 2,963,888.  
Suzuki, Tatsue and I. 2,963,889.
- Suzuki, Shigemasa. Process for molding hard polyvinyl chloride. 2,950,504, 8-30-60, Cl. 18—58.
- Suzuki, Tatsue and I., to ARS Amiki Seisaku Kabushiki Kaisha. Idling mechanism for knitting needles in a hand knitting machine. 2,963,888, 12-13-60, Cl. 66—72.
- Suzuki, Tatsue and I., to ARS Amiki Seisaku Kabushiki Kaisha. Yarn feeder in a hand knitting machine. 2,963,889, 12-13-60, Cl. 66—127.
- Svabek, John E., Jr., C. R. Stone, and E. G. Schmidt, to Crane Co. Flapper flush valve. 2,949,613, 8-23-60, Cl. 4—57.
- Svala, Carl G., to Telefonaktiebolaget L M Ericsson. Magnetic register circuit. 2,958,077, 10-25-60, Cl. 340—174.
- Svatek, Vaclav. Process of producing sounding boards for stringed instruments. 2,920,666, 1-12-60, Cl. 144—309.
- Svavar, Filip, R. Gustafsson, and T. Waern, to Aktiebolaget Svenska Flaktfabriken. Method for drying or other treatment of a web-like material. 2,939,222, 6-7-60, Cl. 34—18.
- Svec, Emil F., deceased; V. M. Svec, executrix, to Flexigrip, Inc. Method and means for protectively encasing wires. 2,941,027, 6-14-60, Cl. 174—72.
- Svec, Jerry T., to Fairchild Camera & Instrument Corp. Checking device. 2,934,948, 5-3-60, Cl. 73—156.
- Svendsen, Konrad S.: *See*—  
Norris, William C., Rupinski, and Svendsen. 2,946,116.
- Svenke, John E. K.: *See*—  
Berglund, Bjorn E. A., Hormander, and Svenke. 2,928,718.
- Svenska Ackumulator Aktiebolaget Jungner: *See*—  
Lindgren, Erik A. 2,937,221.  
Lindström, Karl G. H. 2,927,951.
- Svenska Aeroplan Aktiebolaget: *See*—  
Bohlin, Nils I. 2,920,847.  
Bohlin, Nils I. 2,920,848.  
Bohlin, Nils I. 2,951,420.  
Bohlin, Nils I. 2,965,335.  
Ohlund, John A. I. 2,965,878.  
Samuelsson, John H. S. 2,943,587.
- Svenska Aktiebolaget Bromsregulator: *See*—  
Bjereus, Sven R. 2,939,552.
- Svenska Aktiebolaget Gasaccumulator: *See*—  
Aversten, Karl J. 2,936,981.  
Aversten, Karl J. 2,942,391.  
Granqvist, Carl-Erik. 2,927,316.  
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Granqvist, Carl-Erik. 2,936,628.  
Granqvist, Carl-Erik. 2,944,230.  
Granqvist, Carl-Erik. 2,953,785.  
Granqvist, Carl-Erik. 2,957,984.  
Hagger, Albert. 2,921,551.  
Schildstrom, Karl O. R. 2,966,090.
- Senning, Åke, and Åstradsson. 2,961,965.
- Svensson, Knut W. 2,945,506.
- Svenska Box Aktiebolaget: *See*—  
Tornqvist, Karl G. 2,963,192.
- Svenska Relafabriken ABN AB: *See*—  
Dubois, Martin H. 2,966,554.
- Svenska Rotor Maskiner Aktiebolag: *See*—  
Ahlen, Karl G. 2,931,472.  
Ahlen, Karl G. 2,948,228.  
Lindhagen, Teodor I., and Odman. 2,946,573.  
Nilsson, Hans R., and Persson. 2,936,160.  
Odman, Tor A. 2,940,736.  
Ohlén, Karl G. 2,935,898.
- Svenska Skifferolje Aktiebolaget: *See*—  
Ljungstrom, Fredrik. 2,923,535.  
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- Svenska Tändsticks Aktiebolaget: *See*—  
Nuorivaara, Zachris E. M. 2,954,838.
- Svenska Tecalemit Aktiebolaget: *See*—  
Mannqvist, Ernst N. 2,920,719.
- Svenson, Ernest J. Material working apparatus. 2,921,437, 1-19-60, Cl. 60—52.
- Svenson, Ernest J. Hydraulic actuating apparatus. 2,924,939, 2-16-60, Cl. 60—52.
- Svenson, Ernest J. Metal working mechanism. 2,928,297, 3-15-60, Cl. 77—33.5.
- Svensson, Knut W., to Svenska Aktiebolaget Gasaccumulator. Control valve, particularly for air jackets. 2,945,506, 7-19-60, Cl. 137—226.
- Svensson, Sven Alvar, to Ingeniorsfirman Fliesberg AB. Vacuum control valve device. 2,950,730, 8-30-60, Cl. 137—116.3.
- Svereika, Edward: *See*—  
Pool, Stuart D., Everett, and Svereika. 2,954,657.
- Svingor, Jenö: *See*—  
Barátossy, Jenö, and Svingor. 2,921,563.
- Svit, narodni podnik: *See*—  
Binko, Ivan, and Kolar. 2,934,398.
- Slezák, František, Gajdušek, and Hozfk. 2,933,745.
- Svoboda, George: *See*—  
Schald, Arthur J., and Svoboda. 2,923,193.
- Svoboda, John F.: *See*—  
Buettner, Raymond J., Sievert, Svoboda, and Robinson. 2,939,514.
- Swagler, Frank J., to Poor & Co. Metal polishing compositions and electropolishing of metals therewith. 2,935,455, 5-3-60, Cl. 204—140.5.
- Swain, Arthur B.: *See*—  
Beck, Basil D., Sr., and Swain. 2,923,635.
- Swain, Arthur B., to Owens-Illinois Glass Co. Glass-making frit and method. 2,923,636, 2-2-60, Cl. 106—52.
- Swain, Charles B.: *See*—  
Schuessler, Albert G., and Swain. 2,927,639.
- Swain, George G., Jr.: *See*—  
Balcum, Manning L., and Swain. 2,936,108.
- Swain, Kenneth W., to The Chase-Shawmut Co. Coordinated static power rectifiers and current-limiting fuses. 2,921,250, 1-12-60, Cl. 321—14.
- Swain, Kenneth W. Circuit interrupting building blocks. 2,950,370, 8-23-60, Cl. 200—114.
- Swain, William H., to Schlumberger Well Surveying Corp. Signal translating amplifying system. 2,922,115, 1-19-60, Cl. 330—70.
- Swain, William W.: *See*—  
Steele, Roger C., and Swain. 2,936,021.
- Swainson, Edward L., to American Radiator & Standard Sanitary Corp. Dynamo transformer. 2,930,010, 3-22-60, Cl. 336—30.
- Swakon, Edward A., and R. E. Van Strien, to Standard Oil Co. Process for making tetrachloro-*p*-xylene. 2,954,409, 9-27-60, Cl. 260—650.
- Swalm, Charles M., and S. Spring, to Pennsalt Chemicals Corp. Composition for and method of coating ferrous metals. 2,954,309, 9-27-60, Cl. 148—6.16.
- Swamer, Frederic W.: *See*—  
Pedrotti, Rudolph L., Swamer, and Dewey. 2,937,210.
- Swan, Carl W.: *See*—  
Arko, Robert E., and Swan. 2,951,902.
- Swan, David: *See*—  
Claussen, Gerard E., and Swan. 2,965,524.
- Swan, Kaye B., to Northrop Corp. Temperature controller. 2,923,759, 2-2-60, Cl. 174—11.



- Swan, Lewis D., to E. I. du Pont de Nemours and Co. Process for the removal of glaze from fabric. 2,930,099, 3-29-60, Cl. 26-1.
- Swan, Merrill L., to United Geophysical Corp. Seismic wave recording system. 2,932,547, 4-12-60, Cl. 346-23.
- Swan, William, to Bent Tube, Inc. Method of forming a tubular article having an abrupt change in direction. 2,927,368, 3-8-60, Cl. 29-157.
- Swanberg, Robert R., to Chrysler Corp. Floating brake drum. 2,962,324, 11-29-60, Cl. 301-6.
- Swander, Chester B.: *See*—  
Doelling, George L., and Swander. 2,921,906.
- Swander, Kenneth D., Jr., to General Motors Corp. Brake system. 2,926,966, 3-1-60, Cl. 303-46.
- Swander, Kenneth D., Jr., to General Motors Corp. Composite air brake and air suspension charging and signaling systems. 2,942,917, 6-28-60, Cl. 303-5.
- Swander, Kenneth D., Jr., to General Motors Corp. Railway vehicle air suspension. 2,954,238, 9-27-60, Cl. 280-124.
- Swanee Paper Corp.: *See*—  
Tracy, Glen M. 2,939,356.
- Swank, Inc.: *See*—  
Marien, Clement S. 2,963,759.  
Winthrop, Mitchell. 2,948,936.
- Swann, A. K.: *See*—  
Marvin, Orrin F. 2,949,339.
- Swann, Edwin G., to United States of America, Navy. Electrical gate phase discriminator. 2,963,241, 12-6-60, Cl. 244-14.
- Swann, Geoffrey, and P. G. Evans, to Beck, Koller & Co. (England) Ltd. Synthetic resinous composition containing a modified polyamide and the condensation product of a polyhydric phenol and an aldehydric. 2,952,647, 9-13-60, Cl. 260-21.
- Swann, Geoffrey, and P. G. Evans, to Beck, Koller & Co. (England) Ltd. Production of resinous polyamides by the reaction of a monomeric polyamine with the product of a styrene and a dehydrated castor oil fatty acid. 2,952,648, 9-13-60, Cl. 260-23.
- Swann, Geoffrey, and P. G. Evans, to Beck, Koller & Co. (England) Ltd. Modified polyamide resins. 2,956,968, 10-18-60, Cl. 260-21.
- Swanson, Albert B. Electric razor blade sharpener. 2,922,260, 1-26-60, Cl. 51-158.
- Swanson, Bernard A. Fluid motor with rotary and/or rectilinear movable piston. 2,944,520, 7-12-60, Cl. 121-17.
- Swanson, Bernard A. Reciprocating mounting means for mounting thereon a sanding or like tool. 2,957,282, 10-25-60, Cl. 51-170.
- Swanson, Carl G. A., to Lake Erie Machinery Corp. Extrusion press. 2,954,869, 10-4-60, Cl. 207-2.
- Swanson, Donald F., to Whirlpool Corp. Ice cube making apparatus. 2,959,026, 11-8-60, Cl. 62-138.
- Swanson, Edwin C., to Greenlee Bros. & Co. Manually operable reversing valve. 2,952,247, 9-13-60, Cl. 121-46.5.
- Swanson, Edwin C., to Greenlee Bros. & Co. Fluid pumping mechanism. 2,959,009, 11-8-60, Cl. 60-52.
- Swanson, Edwin W., to Electric Machinery Mfg. Co. Devices for reducing shaft currents in rotating electric machines. 2,951,166, 8-30-60, Cl. 310-68.
- Swanson, Elmer C. Bag closure and opening device. 2,945,615, 7-19-60, Cl. 229-66.
- Swanson, Elmer L. Ladder supporting device. 2,960,182, 11-15-60, Cl. 182-200.
- Swanson-Erie Corp.: *See*—  
Merchant, Chester O. 2,941,553.
- Swanson, Frank R. Roll paper dispensing apparatus. 2,948,451, 8-9-60, Cl. 225-38.
- Swanson, Fred R., J. M. Kjellstrom, and C. F. Penrose, to Sundstrand Corp. Step turning lathes. 2,946,249, 7-26-60, Cl. 82-11.
- Swanson, Fred R., and S. A. Hanson, to Sundstrand Corp. Milling machine. 2,949,063, 8-16-60, Cl. 90-11.
- Swanson, Gordon R.: *See*—  
Dardarian, Harry B., Gilson, and Swanson. 2,939,742.
- Swanson, Gosta. Tree felling jack. 2,960,309, 11-15-60, Cl. 254-133.
- Swanson, Gunnar E. Latching and locking device. 2,940,291, 6-14-60, Cl. 70-70.
- Swanson, Gunnar E., to The Nielsen Hardware Corp. Catch for a packing case or the like. 2,951,722, 9-6-60, Cl. 292-247.
- Swanson, Joseph P., and G. E. Tallmadge, to Levinthal Electronic Products, Inc. Electrical pulse-forming. 2,948,855, 8-9-60, Cl. 328-67.
- Swanson, Kenneth P. Top roll cradle. 2,944,300, 7-12-60, Cl. 19-131.
- Swanson, Kenneth P. Lint sealing assembly for textile drafting rolls. 2,948,024, 8-9-60, Cl. 19-142.
- Swanson, Kenneth P. Top roll spinning assembly. 2,965,934, 12-27-60, Cl. 19-134.
- Swanson, Kermit E.: *See*—  
Boule, George P., and Swanson. 2,965,023.
- Swanson, Nels H. Panel. 2,930,939, 3-29-60, Cl. 317-99.
- Swanson, Nils H.: *See*—  
Hansen, Jan, Stephen, and Swanson. 2,934,817.
- Swanson, Nils H., to Western Electric Co., Inc. Apparatus for untangling wires secured to an article. 2,960,121, 11-15-60, Cl. 140-149.
- Swanson, Nils H., to Western Electric Co., Inc. Self-cleaning snagger plate. 2,961,176, 11-22-60, Cl. 242-25.
- Swanson, Nils H., to Western Electric Co., Inc. Self-cleaning snagger plate. 2,961,177, 11-22-60, Cl. 242-25.
- Swanson, Oscar F., to Automatic Voting Machine Corp. Voting machine record printing means. 2,943,786, 7-5-60, Cl. 235-50.
- Swanson, Oscar F., to Automatic Voting Machine Corp. Voting machine proof and record sheet pack. 2,945,433, 7-19-60, Cl. 101-90.
- Swanson, Robert E., to Railway Appliance Research Ltd. Safety valve for automotive air brake systems. 2,944,856, 7-12-60, Cl. 303-84.
- Swanson, Russel, to Wind-King Electric Mfg. Co. Trenching machine cutter. 2,946,142, 7-26-60, Cl. 37-80.
- Swanson, Russell H.: *See*—  
Ashback, Robert O., Weinke, Kath, and Swanson. 2,931,634.
- Swanson, Sven V., to Tyler Refrigeration Corp. Refrigerated goods case. 2,923,137, 2-2-60, Cl. 62-256.
- Swanson, Sven V., to Tyler Refrigeration Corp. Time temperature defrost control. 2,949,017, 8-16-60, Cl. 62-155.
- Swanson Tool & Machine Products, Inc.: *See*—  
Merchant, Chester O. 2,921,478.
- Swanson, Vernon E., to Diamond National Corp. Egg carton. 2,957,616, 10-25-60, Cl. 229-28.
- Swanson, Walter S., and G. L. Nordstrom, to Sundstrand Corp. Work loading lathe. 2,939,352, 6-7-60, Cl. 82-27.
- Swanson, Wilburn H. Crimping tool for paint can overalls. 2,933,873, 4-26-60, Cl. 53-334.
- Swanson, William J. Tide indicator. 2,939,125, 5-31-60, Cl. 340-239.
- Swanwick, Barry F., to The English Electric Co. Ltd. Mass-actuated electric switching devices. 2,938,973, 5-31-60, Cl. 200-61.48.
- Swarofsky, Walter, to Voigtlander Aktiengesellschaft. Photographic camera having exchangeable objectives. 2,929,308, 3-22-60, Cl. 95-64.
- Swarofsky, Walter, to Voigtlander A.G. Photographic reflex camera. 2,948,206, 8-9-60, Cl. 95-64.
- Swarr, Jay N.: *See*—  
Eldson, Dennis L., and Swarr. 2,949,124.
- Swart, Andrew H.: *See*—  
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- Swart, Emanuel A.: *See*—  
Singher, Heron O., and Swart. 2,921,000.
- Swart, Gilbert H.: *See*—  
Pfau, Emert S., Swart, and Weinstock. 2,964,083.
- Swart, Kenneth H., to H. C. Smith Oil Tool Co. Mounting for discharge beans in well drilling bits. 2,950,090, 8-23-60, Cl. 255-314.
- Swarthout, Rassele E., to Challenge Mfg. Co. Transit mixer revolution counter. 2,927,731, 3-8-60, Cl. 235-91.
- Swartout, Willson C., to Westinghouse Electric Corp. Semiconductor switch. 2,965,772, 12-20-60, Cl. 307-146.
- Swarts, Bern R., to General Dynamics Corp. Electrode dresser. 2,930,289, 3-29-60, Cl. 90-12.
- Swartwout Fabricators, Inc.: *See*—  
Darnell, Fred P., and Skipworth. 2,940,377.
- Swartz, Benjamin C. Stamp dispenser. 2,930,610, 3-29-60, Cl. 271-2.5.
- Swartz, George A., to Ivers-Lee Co. Capsule feeding mechanism for packaging machines. 2,935,227, 5-3-60, Cl. 221-179.
- Swartz, Henry D., 1/4 to G. Altman. Thermoplastic welding device. 2,963,072, 12-6-60, Cl. 154-42.
- Swartz, Ira J.: *See*—  
Nolden, John L., and Swartz. 2,947,513.
- Swartz, Ruby J.: *See*—  
Snyder, James E., and Swartz. 2,947,638.
- Swartztruber, John M. Dehider. 2,937,400, 5-24-60, Cl. 17-21.
- Swatek, Edwin P., Jr., to Dravo Corp. Water current deflector and method of using same. 2,949,744, 8-23-60, Cl. 61-34.
- Swearingen, John J., and E. B. McFadden, to United States of America, Commerce. Adhesive-type oxygen mask. 2,921,581, 1-19-60, Cl. 128-146.
- Swearingen, Judson S., and D. J. Cozad, to National Tank Co. Turbo-expander-compressor units. 2,937,503, 5-24-60, Cl. 62-16.
- Swed, James P.: *See*—  
Cramer, Charles H., Surret, and Swed. 2,948,176.  
Earnhardt, Reid, and Swed. 2,961,357.
- Swedish, Frank Jr.: *See*—  
Picard, Lloyd E., and Swedish. 2,941,661.
- Swedish, Frank, Jr., W. H. O'Brien, and L. E. Picard, to Minnesota Mining and Mfg. Co. Masking tape. 2,940,591, 6-14-60, Cl. 206-59.
- Swedish, Frank, Jr., L. E. Picard, and R. G. Drew, to Minnesota Mining and Mfg. Co. Masking tape. 2,954,868, 10-4-60, Cl. 205-59.
- Sweedyk, James M., to Hupp Corp. Air conditioners. 2,936,693, 5-17-60, Cl. 98-40.
- Sweeney, Francis M., to Armstrong Cork Co. Thermal insulation covering for pipes and the like. 2,962,402, 11-29-60, Cl. 154-44.
- Sweeney, Frank B., to Endicott Johnson Corp. Flash trimming machine. 2,943,337, 7-5-60, Cl. 12-86.7.
- Sweeney, George J.: *See*—  
O'Day, Cortland N., and Sweeney. 2,959,116.
- Sweeney, Gilbert D. M., to E. I. du Pont de Nemours and Co. Conductive circuit bonded to a resinous dielectric and method for producing same. 2,959,498, 11-8-60, Cl. 117-212.



- Sweeney, James F., to Bell Telephone Laboratories, Inc. Altitude control system. 2,965,894, 12-20-60, Cl. 343-7.
- Sweeney, Maxwell P.: *See*—
- Parker, Almon S., and Sweeney. 2,939,893.
- Sweeney, Maxwell P., to United Engineers & Constructors Inc. Coke oven by-product recovery process. 2,943,911, 7-5-60, Cl. 23-3.
- Sweeney, Patrick E.: *See*—
- Barr, Irwin R., and Sweeney. 2,956,481.
- Sweeney, Philip J., C. J. Shoemaker, and J. P. Monroe, to Lear, Inc. Apparatus for measuring the amplitude and direction of angular oscillations. 2,959,956, 11-15-60, Cl. 73-71.3.
- Sweeney, Thomas M., and J. A. Kinsella, to R.C.S. Engineering Corp. Offset attachment for reciprocating saw. 2,954,808, 10-4-60, Cl. 143-68.
- Sweeney, Victor D., and W. U. Kaji, to Metal Pumping Services, Inc. Pump for molten metal. 2,948,524, 8-9-60, Cl. 266-38.
- Sweeney, William J., to Esso Research and Engineering Co. Hydroforming process with temperature control of the reaction by indirect heat exchange. 2,943,043, 6-28-60, Cl. 208-134.
- Sweep, Eduard: *See*—
- Spijker, Peter V., and Sweep. 2,939,832.
- Sweers, John F.: *See*—
- Deamer, Lloyd W., and Sweers. 2,958,351.
- Sweet, Amos D., and R. K. Miller, to Jefferson Lake Sulphur Co. Fluid treating container for use in fluid treating apparatus. 2,928,495, 3-15-60, Cl. 183-4.6.
- Sweet, E. Roy, C. A. Wolbach, Jr., and K. Sugino, to Singmaster & Breyer, Inc. Regeneration of spent pickle liquor. 2,960,391, 11-15-60, Cl. 23-295.
- Sweet, Howard A. Alphabetic windowed merchandising displaying folder. 2,942,727, 6-28-60, Cl. 206-56.
- Sweet, Richard J., and G. N. Smith, to Machinery Electrification, Inc. Counting apparatus. 2,931,945, 4-5-60, Cl. 315-84.6.
- Sweet, Roy C.: *See*—
- Shader, Charles E., and Sweet. 2,955,494.
- Sweet, Stuart W., and B. E. Anderson, to The Foxboro Co. Liquid proportioning pump system. 2,951,745, 9-6-60, Cl. 23-253.
- Sweet, Warren W., and C. F. Fischer, to Colgate-Palmolive Co. Apparatus and process for pressing detergent bars and cakes. 2,965,946, 12-27-60, Cl. 25-7.
- Sweet-Aire Mfg. Co.: *See*—
- Pascale, John, and Caruso. 2,952,606.
- Sweete, Norbert J.: *See*—
- Leeds, Walter A., and Sweete. 2,924,520.
- Sweeting, Stanley A.: *See*—
- Hendrickson, Roy H., and Sweeting. 2,959,324.
- Sweetland, William E. Arrow point adapters. 2,925,278, 2-16-60, Cl. 273-106.5.
- Sweetman, William G. Explosive cutting tool. 2,935,944, 5-10-60, Cl. 102-20.
- Sweetser, Sumner B., to Esso Research and Engineering Co. Hydroforming of a naphtha with heat exchange of the products with the feed. 2,931,769, 4-5-60, Cl. 208-99.
- Sweger, Russell P., to Barber-Colman Co. Overtravel mechanism for cam actuated switch. 2,939,337, 6-7-60, Cl. 74-569.
- Sweger, Theodore J.: *See*—
- Jensen, Finn, and Sweger. 2,930,330.
- Swengel, Robert C., to AMP Inc. Circuit board and socket construction. 2,958,064, 10-25-60, Cl. 339-17.
- Swenson, Charles. Light controlling switch for vehicles. 2,924,680, 2-9-60, Cl. 200-61.3.
- Swenson, Don N., to United States Steel Corp. Carrier for circular articles. 2,966,380, 12-27-60, Cl. 294-67.
- Swenson, Edward R. Fish lure. 2,952,092, 9-13-60, Cl. 43-42.06.
- Swenson, Gordon C. Bleed back with loose mandrel for an injection molding machine. 2,961,706, 11-29-60, Cl. 18-30.
- Swenson, Harvey F., and R. C. Ridgway. Mix-and-air feeding device for dispensing freezers. 2,924,951, 2-16-60, Cl. 62-304.
- Swenson, Harvey F., and R. C. Ridgway. Mix-and-air feeding system and device for freezers. 2,924,952, 2-16-60, Cl. 62-304.
- Swenson, Henry F. Adjustable cutter rake tool. 2,962,800, 12-6-60, Cl. 29-98.
- Swenson, Leonard K., and J. De Lury, to Conch International Methane Ltd. Liquefying natural gas with low pressure refrigerants. 2,960,837, 11-22-60, Cl. 62-24.
- Swenson, Oscar F., deceased; W. L. Engelhardt, administrator. Smelting furnaces. 2,940,744, 6-14-60, Cl. 263-39.
- Swenson, Oscar J. Manually actuated rotary impact tool. 2,954,714, 10-4-60, Cl. 81-52.3.
- Swerbinsky, Leo: *See*—
- Belton, Joseph F., Jr., and Swerbinsky. 2,949,014.
- Swerdlhoff, Will, to Socony Mobil Oil Co., Inc. Process for stripping of absorption liquids. 2,930,752, 3-29-60, Cl. 208-841.
- Swerlick, Isadore, to E. I. du Pont de Nemours and Co. Process of forming polyethylene film and product. 2,941,254, 6-21-60, Cl. 18-47.5.
- Swerlick, Isadore, and F. P. Gay, to E. I. du Pont de Nemours and Co. Method of casting crystalline polymer film. 2,936,492, 5-17-60, Cl. 18-57.
- Swerlick, Isadore, and F. P. Gay, to E. I. du Pont de Nemours and Co. Stretchable crystalline polyoxymethylene film and process for providing such film by rolling. 2,952,878, 9-20-60, Cl. 18-48.
- Swern, Daniel: *See*—
- Ackerman, Bernard, and Swern. 2,929,831.
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- Swett, James B.: *See*—
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- Swick, Edwin G., to Illinois Tool Works. Terminal clip structure and method and apparatus for applying same. 2,944,330, 7-12-60, Cl. 29-193.5.
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- Swindler, Rollin L., to Libbey-Owens-Ford Glass Co. Edge treating apparatus. 2,926,371, 3-1-60, Cl. 15-77.
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Phillippovic, Joachim W. 2,961,213.  
Spurlin, William V. 2,926,637.  
Spurlin, William V. 2,964,182.  
Zanotto, Paul C., and Smith. 2,921,713.

Syracuse Heat Treating Corp.: *See*—  
Evans, Richard L. 2,954,222.

Syracuse Special Machine Co., Inc.: *See*—  
Potter, Linn E. 2,947,445.

Syracuse Stamping Co., Inc. The: *See*—  
Biedinger, Henry J. 2,961,083.  
Biedinger, Henry J. 2,961,084.

Syrbe, Max, to Brown, Boveri & Cie, Aktiengesellschaft. Regulating system. 2,960,648, 11-15-60, Cl. 323—89.

Syrůček, Stanislav: *See*—  
Faltejsek, Otto, Syrůček, and Šperla. 2,954,047.

Systematic Parking Co.: *See*—  
Sanders, Leon D. 2,925,150.  
Sanders, Leon D. 2,963,180.

Systems Associates, Inc.: *See*—  
Larson, Alfred A. 2,953,983.

Szabo, Janos: *See*—  
Nagy, Elemer, and Szabo. 2,941,103.

Szabo, Lorraine S.: *See*—  
Fay, Philip S., and Szabo. 2,961,380.

Szaruga, Joseph A.: *See*—  
Rappaport, George, Szaruga, and Wall. 2,926,147.

Szasz, Katherine: *See*—  
Szasz, Nandor. 2,947,484.

Szasz, Nandor, deceased, by K. Szasz, special administratrix, to General Mills, Inc. Method and apparatus for milling flour. 2,947,484, 8-2-60, Cl. 241—10.



- Szczepanik, John A.: See—  
Sabol, Michael S., and Szczepanik. 2,956,518.
- Szczepanski, Harry. Booster-action airless spray unit. 2,941,726, 6-21-60, Cl. 239—139.
- Szczesniak, Ahna S., and E. Engel, to General Foods Corp. Protein food product and process. 2,952,543, 9-13-60, Cl. 99—14.
- Szczesniak, Stanley J.: See—  
Myre, Harry L., and Szczesniak. 2,951,922.
- Szczurko, John J.: See—  
Jensen, Gerald A., and Szczurko. 2,955,456.
- Szecs, Laszlo: See—  
Rohloff, Ebbe, and Szecs. 2,949,565.
- Szerenyi, Andrew: See—  
Farmer, Fred, and Szerenyi. 2,932,064.
- Szerszamegfejlesztő Intezet: See—  
Barátossy, Jenő, and Svingor. 2,921,563.
- Sziklai, George C., to Radio Corporation of America. Multi-stage semi-conductor signal translating circuits. 2,966,632, 12-27-60, Cl. 330—13.
- Szlachcic, Julian A., to Worthington Corp. Wear indicator. 2,922,390, 1-26-60, Cl. 116—114.
- Szlachcic, Julian A., and W. T. Dupler, to Worthington Corp. Internal combustion engine fuel supply control. 2,921,570, 1-19-60, Cl. 123—120.
- Szlachetka, Anton, to Fa. Gustav Espey G.m.b.H., Duisburg. Self-clamping three-jaw chuck. 2,962,291, 11-29-60, Cl. 279—114.
- Szmuszakowicz, Jacob, and R. V. Heinzelman, to The Upjohn Co. Lower alkyl reserpate O-(dialkyl-4-alkenoxybenzoates). 2,933,499, 4-19-60, Cl. 260—287.
- Sznyder, Bernard W., to Omega Aircraft Corp. Dual engine drive means for helicopters. 2,947,497, 8-2-60, Cl. 244—17.11.
- Sznyder, Bernard W., to Omega Aircraft Corp. Belt transmission. 2,960,883, 11-22-60, Cl. 74—242.12.
- Szostak, Henry T., and G. A. Bigham, to Ford Motor Co. Motor vehicle air suspension system. 2,925,284, 2-16-60, Cl. 280—124.
- Szpak, Emil C., now by judicial change of name to E. C. Spak. Draw bar. 2,933,311, 4-19-60, Cl. 267—72.
- Szpak, Stanislaw J.: See—  
Darrel, Bernard, and Szpak. 2,966,429.
- Szpakowski, Robert J.: See—  
Perkins, Warren E., and A. J., and Szpakowski. 2,935,777.
- Szpilfogel, Stefan A.: See—  
Reichstein, Tadeus, Szpilfogel, and Van Dorp. 2,948,738.
- Szpilfogel, Stefan A., to Organon Inc. 3-unsubstituted-19-nor-steroid compounds. 2,966,503, 12-27-60, Cl. 260—397.5.
- Sztachelski, Tadeusz: See—  
Guyer, August, Marti, and Sztachelski. 2,933,526.  
Guyer, August, Marti, and Sztachelski. 2,933,527.
- Szubski, Tadeusz: See—  
Maciszewski, Arthur H., Hupert, and Goldstein. 2,933,698.
- Szukiewicz, Wacław, to Allied Chemical Corp.  $S\beta Os$ -adduct of an organic monobasic fatty acid triglyceride with an organic polyisocyanate composition. 2,943,947, 7-5-60, Cl. 106—266.
- Szukiewicz, Wacław, to Allied Chemical Corp. Process for bonding freshly applied hydraulic cement materials to surfaces. 2,954,301, 9-27-60, Cl. 117—2.
- Szukiewicz, Wacław, to Allied Chemical Corp. Non-cellular haze-free polyurethane composition. 2,956,069, 10-11-60, Cl. 260—404.5.
- Szule, Nicholas A., and K. Pugi, to Ray Glass Ltd. Glass needle valve. 2,926,885, 3-1-60, Cl. 251—214.
- Szumski, John P.: See—  
Joiner, Edgar E., and Szumski. 2,949,684.
- Szumski, Stephen A., and M. A. Petty, to American Cyanamid Co. Composition of matter for the control of foam. 2,923,688, 2-2-60, Cl. 252—321.
- Szwargulski, Alex N., to ACF Industries, Inc. Filter for electric fuel pump. 2,937,755, 5-24-60, Cl. 210—172.
- Szwed, Victor A., to United States Pipe and Foundry Co. Apparatus for centrifugal casting of pipe. 2,943,369, 7-5-60, Cl. 22—65.
- Szydowski, Joseph. Coaxial combustion products generator and turbine. 2,922,278, 1-26-60, Cl. 60—39.36.
- Szydowski, Joseph. Output limiter providing a variable cross-sectional area passage for compressed fluid installations. 2,934,094, 4-26-60, Cl. 138—46.
- Szymalak, Edward, to General Electric Co. Device for re-greasing bearings. 2,959,457, 11-8-60, Cl. 308—187.
- Szymanski, Antoni, to Standard Coil Products Co., Inc. Frequency modulated crystal generator. 2,945,192, 7-12-60, Cl. 332—26.
- Szymer, Oleg: See—  
Hosking, Paul C., and Szymer. 2,955,232.
- Szymczyk, Joseph W., H. L. Dinder, and R. P. Blatner. Portable underwater exploring sled and surf board. 2,936,466, 5-17-60, Cl. 9—310.
- Szyper, Charles: See—  
Mihalek, Emery, and Szyper. 2,932,976.
- T-A Mfg. Corp.: See—  
Jones, Howard L. 2,964,064.
- T. An. Teach Aktiebolag: See—  
Johansson, Isak E. 2,965,249.  
Johansson, Isak E. 2,965,250.
- T & J Corp.: See—  
Truesdell, Robert E., and Jones. 2,954,310.
- T.M.M. (Research) Ltd.: See—  
Bassindale, Isaac B. 2,955,343.  
Nutter, Walter. 2,925,627.  
Watson, William H., and Slater. 2,939,184.
- T.N.T. Corp.: See—  
Teepie, Gifford H., Jr. 2,947,063.
- T & S Corp.: See—  
Strid, Sven J. 2,937,558.
- Tabach, Julius I.: See—  
Bonkowski, Teofil L., and Tabach. 2,953,922.
- Tabara, Joseph. Safety cigarette holder made from perforated paper and metal foil. 2,932,301, 4-12-60, Cl. 131—174.
- Tabb, James W. Holder for clothing and like. 2,937,758, 5-24-60, Cl. 211—1.
- Tabenkin, Benjamin: See—  
Aeschlimann, John A., and Tabenkin. 2,941,884.
- Taber, George H. Running gear and spring suspension for motor vehicles. 2,944,832, 7-12-60, Cl. 280—124.
- Taber Instrument Corp.: See—  
Greatbatch, Wilson. 2,962,665.
- Taber, Ralph F. Pressure measuring instrument for high velocity fluids. 2,930,236, 3-29-60, Cl. 73—420.
- Tabern, Donalee L.: See—  
Dlouhy, John A., and Tabern. 2,962,589.
- Tabet Mfg. Co., Inc.: See—  
Tabet, Michael A. 2,956,131.
- Tabet, Michael A., to Tabet Mfg. Co., Inc. Electrical switch assembly. 2,956,131, 10-11-60, Cl. 200—14.
- Tablet & Ticket Co., The: See—  
Wayne, Michael. 2,947,391.
- Tabor, Edward J., to The Dow Chemical Co. Method for the manufacture of mixed phosphorothioate esters. 2,928,864, 3-15-60, Cl. 260—461.
- Tabor, Warner H.: See—  
Rulon-Miller, Robert, and Tabor. 2,947,039.
- Tabouret, Eugene. Light projector. 2,933,595, 4-19-60, Cl. 240—1.1.
- Tabtrol Co., Inc.: See—  
Skaist, Morris. 2,961,167.
- Tacchella, Adolph A., and A. N. Anderson, to Tacchella, Inc. Uniform temperature, dual circuit engine cooling system. 2,926,641, 3-1-60, Cl. 123—41.21.
- Tacchella, Inc.: See—  
Tacchella, Adolph A., and Anderson. 2,926,641.
- Taccone Pneumatic Foundry Equipment Corp.: See—  
Taccone, Russell W. 2,937,421.  
Taccone, Russell W. 2,951,270.  
Taccone, Russell W. 2,962,776.
- Taccone, Russell W., to Taccone Pneumatic Foundry Equipment Corp. Machine for making molds for centrifugal castings. 2,937,421, 5-24-60, Cl. 22—16.
- Taccone, Russell W., to Taccone Pneumatic Foundry Equipment Corp. Molding machine upset. 2,951,270, 9-6-60, Cl. 22—42.
- Taccone, Russell W., to Taccone Pneumatic Foundry Equipment Corp. Double diaphragm molding machine. 2,962,776, 12-6-60, Cl. 22—42.
- Tachikawa, Shozo, deceased, by mutual agreement of all the heirs of said S. Tachikawa, to Tatsuji Tachikawa, heir. Process for the manufacture of viscose rayon staple. 2,946,650, 7-26-60, Cl. 18—54.
- Tachikawa, Shozo, deceased, by mutual agreement of all the heirs of said S. Tachikawa, to Tatsuji Tachikawa, heir. Process for the manufacture of viscose rayon staple. 2,946,782, 7-26-60, Cl. 260—217.
- Tachikawa, Tatsuji: See—  
Tachikawa, Shozo. 2,946,650.  
Tachikawa, Shozo. 2,946,782.
- Tack, Carl E.: See—  
Davis, Louis D., Jr., Simanek, and Tack. 2,953,396.
- Tack, Carl E., to American Steel Foundries. Railway brake. 2,950,781, 8-30-60, Cl. 188—52.
- Tack, Carl E., and L. D. Davis, Jr., to American Steel Foundries. Lever system for rotor brake. 2,929,470, 3-22-60, Cl. 188—59.
- Tackett, Walter F.: See—  
Foster, William H., Tackett, and Morrison. 2,962,670.
- Taco Heaters, Inc.: See—  
White, John H., and Wolanski. 2,920,575.
- Tacquet, Georges, to Societe dite: Etablissements Colmant & Cuvelier. Variable-diameter V-grooved pulley. 2,951,388, 9-6-60, Cl. 74—230.17.
- Tadano, Bunya, N. Morito, and H. Kimura, to Hitachi Ltd. Three stage electron lens system excited by permanent magnets. 2,928,004, 3-8-60, Cl. 250—49.5.
- Taessler, Rudolf, to Zeiss Ikon A.G. Stuttgart. Photographic apparatuses. 2,933,975, 4-26-60, Cl. 88—16.
- Tafel, Theodore, Jr. Dry-process porcelain enamelling of cast iron and like articles. 2,952,558, 9-13-60, Cl. 117—23.
- Taff, Wilfred O.: See—  
Kimberlin, Charles N., Jr., Adams, and Taff. 2,926,129.
- Taft, Charles K.: See—  
Schuman, Ralph H., and Taft. 2,959,191.
- Tafuro, Anthony J., and J. R. Bishop, to Amchem Products, Inc. Process for thinning stone fruits with alpha-3(3-chlorophenoxy)propionic acid and its salts and esters. 2,957,760, 10-25-60, Cl. 71—2.6.



- Taganyi, Gyorgy, and F. Vidai, to Kozlekedesi Meromuszerek Gyara. Indicator devices to control the running condition of motor vehicles. 2,957,160, 10-18-60, Cl. 340-52.
- Taine, Roger, and J. Pellissier. Carding machines. 2,936,495, 5-17-60, Cl. 19-100.
- Tait Mfg. Co., The: *See*—
- Lung, Kenneth R. 2,954,739.
- Lung, Kenneth R. 2,962,304.
- Lung, Kenneth R. 2,962,612.
- Takagi, Eiichi: *See*—
- Nagasawa, Fujio, Takagi, Yokoi, Sato, Mangyo, Ensaka, Okamoto, and Tsukada. 2,939,817.
- Takahama, Sho, to Yashica Co., Ltd., and Kabushiki Kaisha Konan Kamera Kenkyu Jo. Flash synchronizing device for cameras. 2,960,922, 11-22-60, Cl. 95-11.5.
- Takahara, Kyue, to Tokyo Koku Keiki Kabushiki-Kaisha. Electromagnetic wave direction measuring system. 2,933,728, 4-19-60, Cl. 343-113.
- Takahashi, Choku, to Nippon Electric Co. Ltd. Automatic control of inverters. 2,921,235, 1-12-60, Cl. 315-166.
- Takahashi, Noboru, K. Kazato, K. Ashinuma, and M. Watanabe. Solid thin film specimen forming apparatus. 2,932,069, 4-12-60, Cl. 22-73.
- Takahashi, Takeshi: *See*—
- Hasegawa, Takezi, Takahashi, Nishikawa, and Hagiwara. 2,966,444.
- Takahasi, Hidetosi, Z. Kiyasu, and N. Ikeno, to Nippon Telegraph and Telephone Public Corp. Signal lockout device used in telephone exchange system or the like. 2,928,008, 3-8-60, Cl. 307-88.
- Takahata, Tsuneo: *See*—
- Yasuda, Junichi, Kanoi, and Takahata. 2,950,385.
- Tacke, Herbert, to Steinert Elektromagnetbau. Device for supplying current to load-lifting electromagnets. 2,945,991, 7-19-60, Cl. 317-123.
- Tacke, William H. P., to Enger-Kress Co. Cigarette case. 2,954,867, 10-4-60, Cl. 206-41.
- Takeba, Kanji, T. Terada, and T. Sato, to Takeda Pharmaceutical Industries, Ltd. Continuous production of 2-methyl-5-ethylpyridine. 2,935,513, 5-3-60, Cl. 260-290.
- Takeda Pharmaceutical Industries, Ltd.: *See*—
- Hasegawa, Takezi, Takahashi, Nishikawa, and Hagiwara. 2,966,444.
- Kawajiri, Seizo. 2,959,520.
- Nakazawa, Koiti, Shibata, Tanabe, and Yamamoto. 2,931,756.
- Nawa, Hayao, and Nishikawa. 2,966,502.
- Takeba, Kanji, Terada, and Sato. 2,935,513.
- Tatsuoka, Suet, Kusaka, Miyake, Inoue, Shiraishi, Iwasaki, and Imanishi. 2,950,277.
- Tatsuoka, Suet, Tanaka, Ueno, and Honjo. 2,954,384.
- Takenaka, Fred T., and O. D. Englehart, to Pittsburgh Plate Glass Co. Laminated assembly. 2,945,268, 7-19-60, Cl. 20-56.4.
- Talak, John F., to J. I. Case Co. Control for hydraulic power lifts. 2,964,016, 12-13-60, Cl. 121-40.
- Talalay, Anselm, W. D. Coffey, and J. A. Talalay,  $\frac{1}{2}$  to The B. F. Goodrich Co., and  $\frac{1}{2}$  to Dayton Rubber Co. Process of impregnating vulcanized foam rubber with an aqueous dispersion comprising colloidal silica. 2,926,390, 3-1-60, Cl. 18-53.
- Talalay, Joseph A.: *See*—
- Talalay, Anselm, Coffey, and Talalay. 2,926,390.
- Talambiras, Robert P.: *See*—
- Gordon, Bernard M., and Talambiras. 2,931,000.
- Talaš, Jaroslav: *See*—
- Khol, František, and Talaš. 2,945,300.
- Talback, Waldo S.: *See*—
- Langer, Helmut A., and Talback. 2,939,986.
- Talbert, Abner P. Combination weeding and cultivating attachment for a towing vehicle. 2,935,140, 5-3-60, Cl. 172-118.
- Talbot, Howard H., to United Engineering and Foundry Co. Indicating device. 2,920,755, 1-12-60, Cl. 205-1.
- Talbot, Ralph H., and W. J. Priest, to Eastman Kodak Co. Photographic products containing water-soluble salts of ethyl cellulose chlorophthalate. 2,964,405, 12-13-60, Cl. 96-113.
- Talbot, Richard C., and W. S. Madden, to J. I. Ferguson Co. Packaging machine. 2,952,960, 9-20-60, Cl. 53-381.
- Talboys, Henry H., to Nordberg Mfg. Co. Self-propelled adz. 2,923,331, 2-2-60, Cl. 144-133.
- Talboys, Henry H., to Nordberg Mfg. Co. Track lining machine. 2,926,616, 3-1-60, Cl. 104-8.
- Talboys, Henry H., to Nordberg Mfg. Co. Method and apparatus for gauging rail. 2,930,328, 3-29-60, Cl. 104-16.
- Talboys, Henry H., to Nordberg Mfg. Co. Track liner. 2,966,123, 12-27-60, Cl. 104-118.
- Talbutt, William F.: *See*—
- Schultz, Thomas H., and Talbutt. 2,929,722.
- Schultz, Thomas H., and Talbutt. 2,929,723.
- Strashun, Sumner I., and Talbutt. 2,959,486.
- Talcott, Thomas D.: *See*—
- Konkle, George M., and Talcott. 2,927,908.
- Konkle, George M., and Talcott. 2,934,515.
- Talge, Henry J.: *See*—
- Aberner, Frank E., and Talge. 2,946,362.
- Blumkin, Sidney. 2,926,711.
- Talkin, Albert I., S. H. Gordon, and P. Emile, Jr., to United States of America, Army. Pulse-generating means. 2,924,786, 2-9-60, Cl. 331-112.
- Talkington, Harley E. Cigarette extinguisher. 2,936,765, 5-17-60, Cl. 131-235.
- Talkington, Vernon L., Sr. Cotton picker. 2,929,188, 3-22-60, Cl. 56-30.
- Talley, Robert M., to United States of America, Navy. Missile gyro alignment system. 2,952,779, 9-13-60, Cl. 250-209.
- Tallmadge, Gene E.: *See*—
- Swanson, Joseph P., and Tallmadge. 2,948,855.
- Tallman, John C.: *See*—
- Rosenbaum, Chester K., and Tallman. 2,950,260.
- Tallman, Laurence C.: *See*—
- McBean, Douglas M., and Tallman. 2,940,587.
- McBean, Douglas M., and Tallman. 2,950,829.
- Tally Register Corp.: *See*—
- Levin, Eugene A. 2,948,161.
- Thomas, Richard V. 2,922,080.
- Tally, Sidney K.: *See*—
- Hayner, Paul F., and Tally. 2,925,228.
- Talmage, Charles R.: *See*—
- Belden, Byron B., and Talmage. 2,932,063.
- Talmey, Paul: *See*—
- Gutzeit, Gregoire, Talmey, and Lee. 2,935,425.
- Talmey, Paul, and W. J. Crehan, to General American Transportation Corp. Chemical nickel plating methods and systems. 2,941,902, 6-21-60, Cl. 117-102.
- Talon, Inc.: *See*—
- Chery, Walter V. 2,958,111.
- Clarke, Frank W. 2,948,040.
- Hendley, James A. 2,940,478.
- Law, William E. 2,951,285.
- Mazura, Louis P., and Patterson. 2,939,567.
- Sim, Alan A. 2,948,039.
- Talvenheimo, Gerhardt, to Houdry Process Corp. Activation of clay. 2,934,504, 4-26-60, Cl. 252-450.
- Tama, Mario, to Ajax Magnethermic Corp. Method and apparatus for pressure metal dispensing. 2,936,326, 5-10-60, Cl. 13-33.
- Tama, Mario, to Ajax Magnethermic Corp. Controlled metal dispensing. 2,937,789, 5-24-60, Cl. 222-1.
- Tama, Mario, and W. E. Shearman, to Ajax Magnethermic Corp. Pouring spout. 2,959,757, 11-8-60, Cl. 338-248.
- Tamaccio, David L., to Soabar Co. Ticketing. 2,950,555, 8-30-60, Cl. 40-20.
- Ta-Mar, Inc.: *See*—
- Overholser, John S. 2,933,714.
- Tamarin, Bernard J. Method and apparatus for producing a cigarette package with tear tab opening means. 2,923,110, 2-2-60, Cl. 53-14.
- Tamarin, Bernard J. Packaging. 2,931,553, 4-5-60, Cl. 229-17.
- Tamarin, Bernard J. Vacuum cleaner construction. 2,948,913, 8-16-60, Cl. 15-323.
- Tamblyn, John W.: *See*—
- Caldwell, John R., and Tamblyn. 2,950,265.
- Devaney, Richard G., and Tamblyn. 2,947,646.
- Kibler, Charles J., and Tamblyn. 2,956,896.
- Long, Selma H., Tamblyn, and Moore. 2,945,000.
- Newland, Gordon C., and Tamblyn. 2,947,721.
- Newland, Gordon C., and Tamblyn. 2,964,495.
- Newland, Gordon C., and Tamblyn. 2,964,496.
- Newland, Gordon C., Tamblyn, and Kibler. 2,925,401.
- Van Allan, James A., and Tamblyn. 2,945,002.
- Tamblyn, John W., and W. V. McConnell, to Eastman Kodak Co. Poly- $\alpha$ -olefins containing substituted ureas. 2,960,488, 11-15-60, Cl. 260-45.9.
- Tamburr, Victor: *See*—
- Neidenberg, Lawrence L., Tamburr, and Hunt. 2,930,941.
- Tamm, Richard F.: *See*—
- Bendix, Gordon H., and Tamm. 2,935,680.
- Tamsberg, Louise. Delinting sweep. 2,948,003, 8-9-60, Cl. 15-1.5.
- Tamsma, Arjen: *See*—
- Bell, Raymond W., and Tamsma. 2,959,485.
- Tanabe, Kazuo: *See*—
- Nakazawa, Koiti, Shibata, Tanabe, and Yamamoto. 2,931,756.
- Tanabe, Kenichi: *See*—
- Osugi, Tetsuro, Tanabe, and Ohno. 2,960,384.
- Tanabe Seiyaku Co., Ltd.: *See*—
- Iwao, Junichi, and Tomino. 2,950,287.
- Tanaka, Akira: *See*—
- Lohr, Thomas E., and Tanaka. 2,964,093.
- Tanaka, Akira, to General Motors Corp. Seat adjuster mechanism. 2,919,744, 1-5-60, Cl. 155-14.
- Tanaka, Akira, to General Motors Corp. Vehicle seat adjuster. 2,953,190, 9-20-60, Cl. 155-14.
- Tanaka, Akira, T. E. Lohr, and G. W. Sierant, to General Motors Corp. Vehicle seat adjuster. 2,929,439, 3-22-60, Cl. 155-14.
- Tanaka, Akira, and N. Toruk, to General Motors Corp. Seat adjusting mechanism. 2,959,208, 11-8-60, Cl. 155-14.
- Tanaka, Kuniyoshi: *See*—
- Tatsuoka, Suet, Tanaka, Ueno, and Honjo. 2,954,384.
- Tanaka, Isokazu, S. Kurimura, and S. Yamazaki, to Kabushiki-Kaisha Koden Seisakusho. Variable frequency dividing system. 2,944,219, 7-5-60, Cl. 328-134.
- Tanaka, Isokazu, and S. Kurimura, to Kabushiki-Kaisha Koden Seisakusho. Direct reading type measuring system for time difference or phase difference between two received signal waves. 2,948,856, 8-9-60, Cl. 328-110.



- Tancig, William J., to Standard Oil Co. Time interval device. 2,932,779, 4-12-60, Cl. 318-466.
- Tanco, Felipe R., and L. A. Rivas, to Radio Corp. of America. Information storage system. 2,951,233, 8-30-60, Cl. 340-172.5.
- Tanenbaum, Morton S., and H. R. Perini, to Sperry Rand Corp. Microwave attenuator. 2,961,621, 11-22-60, Cl. 333-81.
- Tangard, Einar W.: See—  
Herrick, William W., and Tangard. 2,936,170.
- Tanguay, Florent. Fountain toothbrush. 2,948,007, 8-9-60, Cl. 15-137.
- Tanguay, Joseph A. Automatic piece tallying machine. 2,956,746, 10-18-60, Cl. 235-98.
- Tanguy, Denis R., to Schlumberger Well Surveying Corp. Electrical well logging apparatus. 2,961,600, 11-12-60, Cl. 324-1.
- Tangyes Ltd.: See—  
Reynolds, Lionel A. 2,964,366.
- Taniyama, Toshio, Y. Karato, and T. Usamoto, to Sumitomo Chemical Co., Ltd. Feeders of pulverized coal. 2,933,219, 4-19-60, Cl. 222-227.
- Taniyama, Toshio, O. Saeki, Y. Karato, and T. Usamoto, to Sumitomo Chemical Co., Ltd. Automatic control for pulverized coal gasification. 2,957,758, 10-25-60, Cl. 48-63.
- Tanke, Willard H., to Allis-Chalmers Mfg. Co. Tractor and semitrailer combination with weight transfer mechanism. 2,930,630, 3-29-60, Cl. 280-406.
- Tanker, George E.: See—  
Courtot, Louis B., and Tanker. 2,945,294.
- Tankersley, Benton L. Ice cream filling machine. 2,927,611, 3-8-60, Cl. 141-172.
- Tann Corp.: See—  
Abel, Martin L. 2,922,682.  
Ovshinsky, Herbert C. 2,951,135.  
Ovshinsky, Stanford R. 2,961,511.  
Ovshinsky, Stanford R. 2,966,567.
- Tann, David: See—  
Edwards, Charles F. 2,963,892.
- Tann, David. Drying drum with absorbent wall. 2,927,379, 3-8-60, Cl. 34-95.
- Tann, David. Method of automatic washing and extracting. 2,929,674, 3-22-60, Cl. 8-159.
- Tann, David, and J. S. Glass, to Studrine, Inc. Stud driving chuck. 2,933,960, 4-26-60, Cl. 81-53.
- Tann, Herman: See—  
Edwards, Charles F. 2,963,892.
- Tann, William E., to The Firestone Tire & Rubber Co. Neoprene cement. 2,929,805, 3-22-60, Cl. 260-79.5.
- Tannehill, Selman S. Drill bit. 2,938,710, 5-31-60, Cl. 255-300.
- Tannehill, William P. Bird call. 2,958,157, 11-1-60, Cl. 46-177.
- Tannen, Alfred. Fastening devices for doors and the like. 2,919,945, 1-5-60, Cl. 292-262.
- Tannenbaum, Harvey: See—  
Carpenter, Lane B., Hormats, and Tannenbaum. 2,930,893.
- Tannenbaum, Wesley: See—  
Goldberg, William P., Hudes, Tannenbaum, and Stakun. 2,953,369.
- Tanner, Ernst: See—  
Brandenberger, Ernst M., and Tanner. 2,957,307.
- Tanner, Fred W., Jr.: See—  
Davissan, Jacob W., Tanner, Finlay, and Kane. 2,963-401.
- Tanner, Fred W., Jr., to Chas. Pfizer & Co., Inc. Process for the production of cobalamins. 2,921,887, 1-19-60, Cl. 195-81.
- Tanner, Fred W., Jr., to Chas. Pfizer & Co., Inc. Process for the production of cobalamins. 2,932,608, 4-12-60, Cl. 195-80.
- Tanner, Fred W., Jr., to Chas. Pfizer & Co., Inc. Tetracycline process. 2,940,905, 6-14-60, Cl. 195-80.
- Tanner, Fred W., Jr., to Chas. Pfizer & Co., Inc. Tetracycline process. 2,940,906, 6-14-60, Cl. 195-80.
- Tanner, Fred W., Jr., to Chas. Pfizer & Co., Inc. Tetracycline process. 2,940,907, 6-14-60, Cl. 195-80.
- Tanner, Fred W., Jr., to Chas. Pfizer & Co., Inc. Tetracycline process. 2,940,908, 6-14-60, Cl. 195-80.
- Tanner, Fred W., Jr., to Chas. Pfizer & Co., Inc. Tetracycline process. 2,940,909, 6-14-60, Cl. 195-80.
- Tanner, Robert L. Low-noise static-discharge apparatus. 2,933,732, 4-19-60, Cl. 343-899.
- Tanner, Walter E., to Bell Aircraft Corp. Computer. 2,933,812, 4-26-60, Cl. 33-1.
- Tanner, Walter E., to Bell Aerospace Corp. Balanced frequency modulation for transmitters. 2,962,671, 11-29-60, Cl. 332-24.
- Tanners' Council of America, Inc.: See—  
Thorstensen, Thomas C. 2,945,737.
- Tantlinger, Keith W., to Pan-Atlantic Steamship Corp. Spreader bar. 2,946,617, 7-26-60, Cl. 294-67.
- Tao, Luh C., to Titanium Metals Corp. of America. Manufacture of titanium metal. 2,934,427, 4-26-60, Cl. 75-84.5.
- Tapeswitch Corp. of America: See—  
Koenig, Robert H. 2,938,977.
- Taplin, Howard A. Vacuum cleaner nozzle. 2,934,780, 5-3-60, Cl. 15-402.
- Taplin, Walter R.: See—  
Falk, Klaus, and Taplin. 2,923,728.
- Taplin, William H., III, to The Dow Chemical Co. Process for converting aryl carboxylic acids to phenols. 2,954,407, 9-27-60, Cl. 260-621.
- Tapp, Gerald L. Folding stairway construction. 2,945,548, 7-19-60, Cl. 182-77.
- Tapp, Harry F., and T. J. Mesh, to Gilbert & Barker Mfg. Co. Automatic pipe line sampling apparatus. 2,925,735, 2-23-60, Cl. 73-422.
- Tapp, Leonard L. Tire pressure indicator. 2,948,256, 8-9-60, Cl. 116-34.
- Tapper, Carl L. Phase failure protective device. 2,930,938, 3-29-60, Cl. 317-46.
- Tappmeyer, Ronald A., to Shell Oil Co. Well casing back-off tool. 2,947,520, 8-2-60, Cl. 255-35.
- Tappmeyer, Ronald A., to Shell Oil Co. Well casing back-off tool. 2,947,521, 8-2-60, Cl. 255-35.
- Taraborrelli, Orlando: See—  
Bobb, Lloyd J., Johnston, and Taraborrelli. 2,924,461.  
Bobb, Lloyd J., and Taraborrelli. 2,964,595.
- Tarallo, Stanley D., to Wyandotte Chemical Corp. Production of pyrazines. 2,945,858, 7-19-60, Cl. 260-250.
- Tarantur, Sam, to Admiral Corp. Combined burst separator and color killer. 2,921,123, 1-12-60, Cl. 178-5.4.
- Tarara, Frank A. Smoker's caddy. 2,939,575, 6-7-60, Cl. 206-38.
- Taras, John, and R. E. Brouillard, to General Aniline & Film Corp. Hydron blue dyestuff compositions. 2,921,830, 1-19-60, Cl. 8-37.
- Taras, John, and D. I. Randall, to General Aniline & Film Corp. Vat dye compositions containing azoles. 2,940,813, 6-14-60, Cl. 8-35.
- Taras, John, to General Aniline & Film Corp. Vat dye compositions containing pyrimidines. 2,940,814, 6-14-60, Cl. 8-35.
- Taras, John, to General Aniline & Film Corp. Vat dye compositions containing benzotriazoles. 2,940,815, 6-14-60, Cl. 8-35.
- Tarbox, John P., and E. B. Nolt, to Sperry Rand Corp. Hay baler. 2,926,601, 3-1-60, Cl. 100-142.
- Tarbox, Philip B., to Saco-Lowell Shops. Textile drafting mechanism. 2,927,348, 3-8-60, Cl. 19-131.
- Tarbox, Philip B., to Saco-Lowell Shops. Drafting mechanism. 2,940,130, 6-14-60, Cl. 19-131.
- Tarback, Robert R., to Burroughs Corp. Coiled spring electrical connector. 2,945,200, 7-12-60, Cl. 339-18.
- Tarbutton, Grady, J. C. Driskell, T. M. Jones, and C. M. Smith, to Tennessee Valley Authority. Recovery of sulfur dioxide from waste gases. 2,926,999, 3-1-60, Cl. 23-178.
- Tarbutton, Grady, T. D. Farr, T. M. Jones, and H. T. Lewis, Jr., to Tennessee Valley Authority. Alkaline process for the manufacture of cryolite. 2,963,344, 12-6-60, Cl. 23-88.
- Tarczy-Hornoch, Zoltan, to Eldorado Electronics Co. Inhibitor circuit. 2,946,010, 7-19-60, Cl. 328-116.
- Taren, Jack, 1/2 interest to J. Taren, d.b.a. Jac-Tar Co., 1/4 to D. Kash, and 1/4 to L. Kash. Fire starter. 2,920,243, 1-5-60, Cl. 317-98.
- Taris, Charles M.: See—  
Brown, William J., Miller, and Taris. 2,946,852.
- Tarkan, Stuart E., H. W. Lawendel, and C. G. Goetzl, to Sintercast Corp. of America. Method for coating and infiltrating a porous refractory body. 2,922,721, 1-26-60, Cl. 117-5.5.
- Tarkington, Terry W., and N. T. Anderson, to The Chemstrand Corp. Fiber-forming composition containing an acrylonitrile polymer plasticized with tri-(2-ethylhexyl) phosphate. 2,949,432, 8-16-60, Cl. 260-30.6.
- Tarle, Emile P., to The Singer Mfg. Co. Latch for sewing machine carrying case. 2,966,377, 12-27-60, Cl. 292-173.
- Tarleton, Frederic L., and T. S. Simms, to General Electric Co. Machines for making heat-insulating units. 2,949-715, 8-23-60, Cl. 53-112.
- Tarlton, Frank H.: See—  
Hardy, William G., and Tarlton. 2,922,440.
- Tarran, Robert L., to Ford Motor Co. Speed indicating means. 2,932,499, 4-12-60, Cl. 264-15.
- Tarrant, Paul, to Dow Corning Corp. 2-vinylchlorohexafluorocyclobutane. 2,922,823, 1-26-60, Cl. 260-648.
- Tarrant, Paul, and G. W. Dyckes, to Dow Corning Corp. 2-trifluoromethylpropyl chlorosilanes and siloxanes. 2,934,549, 4-26-60, Cl. 260-448.2.
- Tarmann, Bruno. Method of continuous casting. 2,944,310, 7-12-60, Cl. 22-200.1.
- Tarmy, Barry L.: See—  
Hartzband, Harry M., Tarmy, and Long. 2,951,022.  
Long, Robert B., Lucchessi, Tarmy, and Read. 2,959,530.
- Tarmy, Barry L., to Esso Research and Engineering Co. Reaction container for carrying out radiation induced chemical reactions. 2,958,638, 11-1-60, Cl. 204-193.
- Tarnacki, Walter J.: See—  
Mazzarella, Daniel A., and Tarnacki. 2,937,354.
- Tarner, Samuel W., to A. C. Wilson. Tubeless tire bead seating and inflating device. 2,954,079, 9-27-60, Cl. 157-1.1.
- Tarquinio, Albert C.: See—  
Cooper, John J., and A. R. and D. Hawk. 2,958,543.
- Tarrant, Paul, and R. P. Lutz, to Research Corp. Fluoroisoprenes. 2,945,896, 7-19-60, Cl. 260-653.5.
- Tarrison, Sidney A. Rubber band gear assembly. 2,941,623, 6-21-60, Cl. 185-37.



- Tarukawa, Tomiji. Apparatus for automatically mixing several kinds of stock-materials. 2,930,595, 3-29-60, Cl. 259-2.
- Tarukawa, Tomiji. Apparatus for automatically charging a predetermined amount of a fluid. 2,957,606, 10-25-60, Cl. 222-65.
- Taschenberg, Ernest J.: *See*—  
Kuchler, Theodore C., and Taschenberg. 2,956,824.
- Taschner, Michael, to No-Sag Spring Co. Clip made of wire for supporting the ends of sinuous spring strips. 2,926,878, 3-1-60, Cl. 248-302.
- Tashman, Philip. Tray or pan cabinets. 2,936,899, 5-17-60, Cl. 211-71.
- Tashman, Philip. Roast carving assembly. 2,963,957, 12-13-60, Cl. 99-421.
- Tashima, Yoshizo, and M. Sugiyama, to Chiyoda Kogaku Seiko Kabushiki Kaisha. Apparatus for coordinating camera shutter speed, iris opening and light valve. 2,959,113, 11-8-60, Cl. 95-64.
- Task Corp.: *See*—  
Beebe, Wayne M. 2,936,617.  
Rigney, Richard N. 2,937,053.
- Tasker, Frederick, to Howard Smith Paper Mills Ltd. Self-positioning siphon scraper for drier drums. 2,934,831, 5-3-60, Cl. 34-125.
- Tasker, Homer G.: *See*—  
Noland, Albert R., and Tasker. 2,929,987.
- Tatar, Alexander. Machine for sharpening four-face drills. 2,932,135, 4-12-60, Cl. 51-165.
- Tate, Bryce E.: *See*—  
Bavley, Abraham, Knuth, and Tate. 2,936,309.  
Bavley, Abraham, and Tate. 2,928,846.  
Bavley, Abraham, and Tate. 2,948,653.
- Tate, Malcolm C., to A. H. Emery Co. Weighing apparatus and systems. 2,960,328, 11-15-60, Cl. 265-47.
- Tatem, John A., and E. D. Northcote, to Orr & Sombower Inc. Boilers. 2,947,268, 8-2-60, Cl. 110-165.
- Tatge, Harlan H.: *See*—  
Gilmore, Merwin W., and Tatge. 2,925,666.  
Gilmore, Merwin W., and Tatge. 2,925,910.
- Tatham, Thomas H., Jr., to General Dynamics Corp. Compensation device for misaligned deflection plates in cathode ray tubes. 2,936,400, 5-10-60, Cl. 315-24.
- Tatra, narodni podnik: *See*—  
Hromas, Miroslav, and Dadák. 2,922,401.
- Tatro, Rene E. Building construction. 2,953,873, 9-27-60, Cl. 50-168.
- Tatsak, Jack E.: *See*—  
Sherts, William M., Tatsak, and Zurney. 2,966,007.
- Tatsuoka, Sueo, T. Kusaka, A. Miyake, M. Inoue, Y. Shiraiishi, H. Iwasaki, and M. Imanishi, to Takeda Pharmaceutical Industries, Ltd. Recovery of dihydrostreptomycin. 2,950,277, 8-23-60, Cl. 260-210.
- Tatsuoka, Sueo, K. Tanaka, Y. Ueno, and M. Honjo, to Takeda Pharmaceutical Industries, Ltd. Method for preparing kainic acid and its derivatives, and intermediate thereof. 2,954,384, 9-27-60, Cl. 260-326.3.
- Tatton, Cecile L.: *See*—  
Auerbach, Victor, and Tatton. 2,934,511.
- Tatum, David, and F. Machate, Jr., to Teleflex Inc. Push-pull control. 2,938,404, 5-31-60, Cl. 74-501.
- Tatum, Hopkins W.: *See*—  
Contois, Leo L., Jr., and Tatum. 2,925,425.
- Taub, David, R. D. Hoffsommer, Jr., and N. L. Wendler, to Merck & Co., Inc. Process of preparing 11 $\beta$ -hydroxy steroids. 2,935,511, 5-3-60, Cl. 260-239.55.
- Taub, David, N. L. Wendler, and C. S. Snoddy, Jr., to Merck & Co., Inc. 9-chloro-17 $\alpha$ -hydroxy corticosterone and process for its preparation. 2,942,010, 6-21-60, Cl. 260-397.45.
- Taub, David, and N. L. Wendler, to Merck & Co., Inc. 16-keto steroids of the pregnane series and methods for making same. 2,942,012, 6-21-60, Cl. 260-397.45.
- Taub, David, R. D. Hoffsommer, Jr., and N. L. Wendler, to Merck & Co., Inc. Process of preparing 16 $\beta$ -methyl-11 $\beta$ -hydroxy steroids. 2,958,702, 11-1-60, Cl. 260-397.45.
- Taub, David, and N. L. Wendler, to Merck & Co., Inc. Method of producing 16-oxy steroids. 2,966,504, 12-27-60, Cl. 260-397.46.
- Taube, Gustav C. Power operated pruning shears. 2,927,373, 3-8-60, Cl. 30-247.
- Taubenslag, Morris J., D. E. Goulden, and J. Hamburger, to Westinghouse Electric Corp. Cathode ray tube cursor apparatus. 2,942,147, 6-21-60, Cl. 315-22.
- Taubenslag, Morris J., and J. C. Broderick, to Westinghouse Electric Corp. Storage display system. 2,953,711, 9-20-60, Cl. 315-12.
- Taubenslag, Morris J., and D. E. Goulden, to Westinghouse Electric Corp. Moving indication storage tube apparatus. 2,957,105, 10-18-60, Cl. 315-12.
- Tauber, Ida P.: *See*—  
Tauber, Isadore H. and I. P. 2,940,683.
- Tauber, Isadore H. and I. P. Embroidery thread holder or rack. 2,940,683, 6-14-60, Cl. 242-127.
- Taubman, Samuel. Towel bar. 2,940,719, 6-14-60, Cl. 248-251.
- Taubman, Theodore: *See*—  
Blumberg, Benjamin, Blumberg, and Taubman. 2,949,242.
- Taudt, Heinz, to Dr.-Ing. Rudolf Hell Kommanditgesellschaft. Device for increasing contrasts at tone value leaps and contours in printing forms. 2,962,548, 11-29-60, Cl. 178-6.6.
- Taugner, Jack W., to General Telephone Laboratories, Inc. Pulse counting circuit. 2,926,289, 2-23-60, Cl. 317-155.5.
- Taupin, André. Conveyor system. 2,954,261, 9-27-60, Cl. 302-50.
- Tausch, Gilbert H., to Jersey Production Research Co. Special sand-washing bottom joint. 2,935,134, 5-3-60, Cl. 166-222.
- Tausch, Gilbert H., and J. W. Kenneday, to Jersey Production Research Co. Method and apparatus for completing and servicing wells. 2,938,584, 5-31-60, Cl. 166-45.
- Tauschek, Max J., to Thompson Ramo Wooldridge Inc. Coolant-filled poppet valve and method of making same. 2,949,907, 8-23-60, Cl. 123-188.
- Tauschek, Max J., to Thompson Ramo Wooldridge Inc. Hydraulic fan drive. 2,957,459, 10-25-60, Cl. 123-41.12.
- Tauscher, Vernon A.: *See*—  
Slater, John M., Benson, and Tauscher. 2,933,267.
- Tautner, Erwin, to North American Philips Co., Inc. Network for frequency-modulated signals. 2,930,005, 3-22-60, Cl. 333-70.
- Tava, Alben J., J. S. Adams, and R. C. Van Aken, to Sperry Rand Corp. Electric temperature detector. 2,949,594, 8-16-60, Cl. 338-26.
- Tavan, Louis. Display device. 2,938,291, 5-31-60, Cl. 40-138.
- Tavormina, Vincenzo. Anti-slip device. 2,932,096, 4-12-60, Cl. 36-7.7.
- Tawney, Pliny O., to United States Rubber Co. Maleimide-modified oils. 2,948,693, 8-9-60, Cl. 260-21.
- Tayco Developments, Inc.: *See*—  
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- Taylor, Colin A. M., to The British Oxygen Co. Ltd. Converter for liquefied gases. 2,934,910, 5-3-60, Cl. 62-50.
- Taylor, Alan W.: *See*—  
Allen, Robert W., and Taylor. 2,957,727.
- Taylor, Allen J., to Northrop Corp. Elevating trailer. 2,929,519, 3-22-60, Cl. 214-1.
- Taylor, Allan J., to Northrop Corp. Elevating dolly. 2,940,769, 6-14-60, Cl. 280-43.23.
- Taylor, Ashton B. Electrical trolley system. 2,924,674, 2-9-60, Cl. 191-44.1.
- Taylor, Bert S., to Food Machinery and Chemical Corp. Method for manufacturing resin coated glass-reinforced plastics and product. 2,965,532, 12-20-60, Cl. 154-120.
- Taylor, Billy W., to Fisher Scientific Co. Gas burner. 2,942,655, 6-28-60, Cl. 158-27.4.
- Taylor, Buford L. Self-adjusting headlights for boats. 2,921,182, 1-12-60, Cl. 240-52.1.
- Taylor Burch Refrigeration Products, Inc.: *See*—  
Taylor, Raymond R. 2,956,416.
- Taylor, Burt L.: *See*—  
Dungan, Richard T., Long, Stupka, Taylor, and Wise. 2,966,140.
- Taylor, Calvin R., Sr. Radiator cap removing wrench. 2,940,344, 6-14-60, Cl. 81-90.
- Taylor, Carlton F., to United States of America, Army. Dew meter. 2,924,498, 2-9-60, Cl. 346-121.
- Taylor, Charles A., to Burroughs Corp. Accelerometer. 2,926,898, 3-1-60, Cl. 264-1.
- Taylor, Charles E.: *See*—  
Alf, Alfred I., and Taylor. 2,929,677.
- Taylor, Charles L., to General Electric Co. Cathode sleeve. 2,942,137, 6-21-60, Cl. 313-270.
- Taylor, Charles P., to Ideal Stencil Machine Co. Stencilling machine. 2,965,021, 12-20-60, Cl. 101-123.
- Taylor, Charles R.,  $\frac{1}{2}$  to W. Coffee. Butterfly valve. 2,923,523, 2-2-60, Cl. 251-175.
- Taylor, Charles W., Jr., to The Goodyear Tire & Rubber Co. Apparatus for processing extruded plastic tube. 2,947,032, 8-2-60, Cl. 18-14.
- Taylor, Christopher G., to Service Distributors, Inc. Coin actuated accumulator switch. 2,941,052, 6-14-60, Cl. 200-38.
- Taylor, Clarence G.,  $\frac{1}{2}$  to J. M. Taylor, and  $\frac{1}{2}$  to Products Design, Inc. Lift-propulsion device for aircraft. 2,961,188, 11-22-60, Cl. 244-12.
- Taylor, Clarence R. Phonograph record cleaner. 2,958,886, 11-8-60, Cl. 15-124.
- Taylor, Clyde B.: *See*—  
Snyder, Robert E., and Taylor. 2,927,804.
- Taylor, David G., to International Business Machines Corp. Method of flush circuit manufacture. 2,958,120, 11-1-60, Cl. 29-155.5.
- Taylor, Delbert E.: *See*—  
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- Taylor, Donald J.: *See*—  
Ainsworth, Arthur R., Taylor, and Laurie. 2,932,725.
- Taylor, Donald R., Jr.: *See*—  
Berg, Carl O., and Taylor. 2,962,626.
- Taylor, Donald S., and H. S. Haber, to United States Borax & Chemical Corp. Method for producing sodium borate of lowered iron content. 2,961,294, 11-22-60, Cl. 23-59.
- Taylor, Douglas W., to Motorola, Inc. Electronic image system and method. 2,944,174, 7-5-60, Cl. 313-77.
- Taylor, Douglas W., to Motorola, Inc. Television receiver. 2,944,175, 7-5-60, Cl. 313-77.
- Taylor, Dudley D. Method of making a vacuum evaporated strain gage. 2,933,387, 4-19-60, Cl. 96-36.
- Taylor, E. Lowell: *See*—  
Whiting, Cuthbert R. 2,924,991.



- Taylor, Earl M.: *See*—  
Alger, Milton W., Taylor, and Alger. 2,921,729.
- Taylor, Edward C.: 2-aryl-4,7-diamino-6-cyanopteridines. 2,963,479, 12-6-60, Cl. 260—251.5.
- Taylor, Edward C., and J. Weinstock. 6-pteridinehydrazine and amidrazone derivatives. 2,963,480, 12-6-60, Cl. 260—251.5.
- Taylor, Edward W.: *See*—  
Momborg, James W., and Taylor. 2,939,064.  
Momborg, James W., Taylor, and Burnett. 2,960,644.
- Taylor Engineering, Inc.: *See*—  
Taylor, Thomas L., Fischbach, and Kahl. 2,963,652.
- Taylor, Eric H.: Two-way valve. 2,947,313, 8-2-60, Cl. 137—63.
- Taylor, Eric W., to Electric & Musical Industries Ltd. Correcting for transmission variations in colour television channels. 2,945,086, 7-12-60, Cl. 178—5.4.
- Taylor, Ernest A., Jr., to The Chemstrand Corp. Control circuit for heating device. 2,928,927, 3-15-60, Cl. 219—20.
- Taylor, Ernest W., Jr., to Industrial Brownhoist Corp. Mobile crane and pile driver construction. 2,955,431, 10-11-60, Cl. 61—74.
- Taylor, Fielding, Jr., and M. J. Schaeffer, to Davis Emergency Equipment Co., Inc. Combustible gas or vapor detectors. 2,923,603, 2-2-60, Cl. 23—255.
- Taylor Forge & Pipe Works: *See*—  
Del Buono, Amerigo J. 2,940,779.
- Taylor, Frank E.: Battery hand lamp. 2,966,580, 12-27-60, Cl. 240—10.66.
- Taylor, Frank F., Co., The: *See*—  
Gill, Donald W. 2,927,628.
- Taylor, Franklin E., to Sylvania Electric Products Inc. Differential diode signal seeking intelligence system with series relay switching circuit. 2,941,071, 6-14-60, Cl. 250—20.
- Taylor, Fred D.: *See*—  
Holmes, John R., Mandy, and Taylor. 2,942,433.
- Taylor, George L.: Front power unit mount for boats. 2,960,057, 11-15-60, Cl. 115—18.
- Taylor, Glenn M.: *See*—  
Taylor, Melvin W., and G. M. 2,939,425.
- Taylor, Halsey W.: Projectors for water drinking fountains. 2,949,238, 8-16-60, Cl. 239—31.
- Taylor, Hamilton D., to General Electric Co. Retaining ring structure for dynamoelectric machine. 2,960,360, 11-15-60, Cl. 287—103.
- Taylor, Harold E., to Alan Wood Steel Co. Apparatus for inserting a dam in a tube. 2,934,806, 5-3-60, Cl. 25—1.
- Taylor, Harold M., and D. A. Stevenson, to R. W. Crabtree & Sons Ltd. Trip mechanism for printing machines. 2,950,674, 8-30-60, Cl. 101—185.
- Taylor, Harry.: Hydraulic pump jack. 2,925,806, 2-23-60, Cl. 121—164.
- Taylor, Harry E., and J. R. Buck, to Beeton Dickinson and Co. Disc dispenser. 2,947,444, 8-2-60, Cl. 221—93.
- Taylor, Howard L., Jr.: *See*—  
Gordon, Thurlow M., Jr., and Taylor. 2,923,781.
- Taylor, Humphrey G., deceased, by H. R. Powell and T. H. Wolverson, administrators, to Welin-Maclachlan Davits Ltd. Davits for launching ships' lifeboats. 2,929,081, 3-22-60, Cl. 9—42.
- Taylor, Humphrey G., deceased, by H. R. Powell, and T. H. Wolverson, administrators. Ships' lifeboat davits. 2,949,617, 8-23-60, Cl. 9—41.
- Taylor Industries, Inc.: *See*—  
Castellana, Jack. 2,928,316.
- Taylor Instrument Companies: *See*—  
Fish, Richard W. 2,941,128.  
Newell, Floyd B. 2,961,164.
- Taylor, Isadore A.: Aircraft with tiltable jets. 2,926,868, 3-1-60, Cl. 244—12.
- Taylor, James, and S. M. Budd, to Imperial Chemical Industries Ltd. Mono-propellant charge compositions. 2,966,404, 12-27-60, Cl. 52—5.
- Taylor, James P.: Beanproof cap for baseball, racing, and allied sports. 2,926,356, 3-1-60, Cl. 2—3.
- Taylor, John B.: Extensible ladder and scaffold construction. 2,961,060, 11-22-60, Cl. 182—40.
- Taylor, John E.: *See*—  
Brandstadter, Jack M., and Taylor. 2,929,391.
- Taylor, John E., to Thompson Ramo Wooldridge Inc. Vane positioning device. 2,923,459, 2-2-60, Cl. 230—114.
- Taylor, John E., to Thompson Ramo Wooldridge Inc. Aircraft cooling and vapor utilization system. 2,941,372, 6-21-60, Cl. 62—7.
- Taylor, John E., and R. J. W. Sellite, to The Bendix Corp. Control system. 2,958,031, 10-25-60, Cl. 318—489.
- Taylor, John H., to Ross Engineering of Canada Ltd. Trolley assembly for sliding panels. 2,922,183, 1-26-60, Cl. 16—87.
- Taylor, John M., to The Whitney Blake Co. Plastic insulated electrical line and mounting therefor. 2,950,338, 8-23-60, Cl. 174—40.
- Taylor, John R., Jr.: *See*—  
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- Taylor, John S.: *See*—  
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- Taylor, Joseph W., and W. K. Holleron, to U.S. Industries, Inc. Cutting tool. 2,940,522, 6-14-60, Cl. 166—55.
- Taylor, Josephine M.: *See*—  
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- Taylor, Laurence E.: *See*—  
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- Taylor, Lester W., to Allis-Chalmers Mfg. Co. Reinforced triangular guide track. 2,953,864, 9-27-60, Cl. 37—129.
- Taylor, Louis B., to Columbia-Southern Chemical Corp. Method of making a pigment-filled paper. 2,935,437, 5-3-60, Cl. 162—181.
- Taylor, Louis B., to Columbia-Southern Chemical Corp. Pigmented paper and preparation thereof. 2,943,971, 7-5-60, Cl. 62—181.
- Taylor, Maurice E.: *See*—  
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- Taylor, Maurice K., to Ferranti Ltd. Computer drum construction. 2,929,671, 3-22-60, Cl. 346—74.
- Taylor, Melvin W., and G. M. Restraining device. 2,939,425, 6-7-60, Cl. 119—103.
- Taylor, Michael, to Imperial Chemical Industries Ltd. Polythene and polypropylene stabilized with a bis [ortho (1,1,3,3-tetramethylbutyl) phenol] sulphide. 2,964,498, 12-13-60, Cl. 260—45.95.
- Taylor, Nelson A., Co., Inc.: *See*—  
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- Taylor, Norman W., to Harris-Intertype Corp. Vibrating ink roll. 2,928,341, 3-15-60, Cl. 101—348.
- Taylor, Owen L., to The Bryant Electric Co. Circuit interrupting means. 2,957,970, 10-25-60, Cl. 200—166.
- Taylor, Paul E.: *See*—  
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- Taylor, Paul H., to Wales-Strippit Corp. Self contained perforating and countersinking unit. 2,928,451, 3-15-60, Cl. 153—21.
- Taylor, Paul H., to Tayco Developments, Inc. Compressible liquid vehicle suspension and power system. 2,949,315, 8-16-60, Cl. 280—124.
- Taylor, Philander B., to Cosmos Dental Products, Inc. Denture material composition and method of producing dentures. 2,944,293, 7-12-60, Cl. 18—55.1.
- Taylor, Philip H., to Northrop Corp. Scanner. 2,958,783, 11-1-60, Cl. 250—203.
- Taylor, Ralph C.: *See*—  
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- Taylor, Ralph L.: *See*—  
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- Taylor, Raymond G., Jr., to Borg-Warner Corp. Protector-removing device. 2,941,283, 6-21-60, Cl. 29—236.
- Taylor, Raymond G., Jr., to Borg-Warner Corp. Casing protector transfer sleeve. 2,957,233, 10-25-60, Cl. 29—236.
- Taylor, Raymond L.: *See*—  
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- Taylor, Raymond R., to Taylor Burch Refrigeration Products, Inc. Cooling apparatus with humidity means. 2,956,416, 10-18-60, Cl. 62—91.
- Taylor, Richard, R. N. Straehl, and A. J. Sanchirico, to International Business Machines Corp. Dynamic evaluator. 2,920,818, 1-12-60, Cl. 235—61.7.
- Taylor, Richard, and R. R. Phillips, to Chrysler Corp. Tin nickel alloy plating process and composition. 2,926,124, 2-23-60, Cl. 204—43.
- Taylor, Richard A., to Babcock & Wilcox Ltd. Material handling plant. 2,942,393, 6-28-60, Cl. 53—249.
- Taylor, Richard O., and E. S. Kline, to United States of America, Army. Pipette dispenser. 2,937,787, 5-24-60, Cl. 221—248.
- Taylor, Robert B.: *See*—  
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- Taylor, Robert B., to General Electric Co. Phase sequence responsive electromagnetic device. 2,960,631, 11-15-60, Cl. 317—48.
- Taylor, Robert B., S. E. Hubbard, and P. V. Johnson, to Structural Clay Products Research Foundation. Method and means for veneer brick. 2,924,963, 2-16-60, Cl. 72—19.
- Taylor, Robert B., and P. V. Johnson, to Structural Clay Products Research Foundation. Masons' corner pole and accessories therefor. 2,931,104, 4-5-60, Cl. 33—85.
- Taylor, Ronald R.: *See*—  
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- Taylor, Roy J.: *See*—  
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- Taylor, Roy M., and P. E. Girton, to Kirkhof Mfg. Corp. Welding transformer apparatus. 2,929,915, 3-22-60, Cl. 219—89.
- Taylor, Ruel E., Jr.: *See*—  
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- Taylor, Russell C., to American Can Co. Carrying device for containers. 2,931,491, 4-5-60, Cl. 206—65.
- Taylor, Samuel, & Sons (Brierley Hill) Ltd.: *See*—  
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- Taylor, Samuel K.: *See*—  
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- Taylor Spring and Mfg. Co.: *See*—  
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- Taylor, Taylor & Hobson Ltd.: *See*—  
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- Taylor, Thomas I., and W. Spindel, to United States of America, Atomic Energy Commission. Method of isotope concentration. 2,923,601, 2-2-60, Cl. 23-160.
- Taylor, Thomas L., J. T. Fischbach, and F. A. Kahl, to Taylor Engineering, Inc. Method and apparatus for selective programmed automatic maintenance of equipment. 2,963,652, 12-6-60, Cl. 324-158.
- Taylor, Vaughn A.: *See*—  
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- Taylor, Wallace E.: *See*—  
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- Teague, Walter D., Jr., and B. H. Stansbury, Jr., to W. R. Grace and Co. Ice bucket. 2,948,430, 8-9-60, Cl. 220-9.
- Taylor, Walter E., and G. A. Zink, to General Motors Corp. Timed fuel injection system. 2,955,582, 10-11-60, Cl. 123-119.
- Taylor, Walter H., to Sprague Electric Co. Electrolyte and capacitor utilizing the same. 2,945,164, 7-12-60, Cl. 317-230.
- Taylor, Walter W., to Malsbary Mfg. Co. Diaphragm for pump. 2,928,426, 3-15-60, Cl. 137-788.
- Taylor, Walter W., and W. F. Malsbary, to Malsbary Mfg. Co. Cleaning machine. 2,928,613, 3-15-60, Cl. 239-533.
- Taylor, Wesley L.: *See*—  
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- Taylor, Wesley L., to The Dole Valve Co. Pneumatic control valve. 2,921,158, 1-12-60, Cl. 200-83.
- Taylor, Wilbur S., to R. T. Vanderbilt Co., Inc. Stabilizing agents for bordeaux mixture. 2,962,416, 11-29-60, Cl. 167-16.
- Taylor, Wilfred K.: *See*—  
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- Taylor, Willard H.: *See*—  
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- Taylor, William. Apparatus for detecting discontinuities in ferrous metals. 2,930,971, 3-29-60, Cl. 324-38.
- Taylor, William. Apparatus for detecting discontinuities in ferrous materials. 2,930,972, 3-29-60, Cl. 324-38.
- Taylor, William, 75% to J. M. Ashe, and 25% to H. Shapiro. Knitted article. 2,942,443, 6-28-60, Cl. 66-199.
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- Taylor, William E., Jr., to Lever Brothers Co. Striping dispenser. 2,944,704, 7-12-60, Cl. 222-94.
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- Taylor, William R., to American Radiator & Standard Sanitary Corp. Drive mechanism. 2,935,628, 5-3-60, Cl. 310-4.
- Taylor-Wilson Mfg. Co.: *See*—  
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- Taylor-Winfield Corp.: *See*—  
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- Tchen, Ni K. Molding-sand gas-hardening apparatus. 2,937,212, 10-25-60, Cl. 22-9.
- Tea Council of the United States of America, Inc.: *See*—  
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- Teaf, John H., to Radio Condenser Co. Tuner. 2,928,283, 3-15-60, Cl. 74-1033.
- Teagle, Richard E.: *See*—  
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- Teague, Paul J. Support for hats. 2,958,446, 11-1-60, Cl. 223-25.
- Teague, Robert L.: *See*—  
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- Teague, Walter D., Jr., to Bendix Aviation Corp. Ratio changer device. 2,940,332, 6-14-60, Cl. 74-522.
- Teague, Walter D., Jr., to Bendix Aviation Corp. Differential mixer. 2,940,696, 6-14-60, Cl. 244-83.
- Teague, Walter D., Jr., and J. S. Jaquith, to Bendix Aviation Corp. Air driven power supply. 2,939,017, 5-31-60, Cl. 290-44.
- Tear, Harry R., to Stewart-Warner Corp. Adjustable proportioning pump. 2,925,780, 2-23-60, Cl. 103-11.
- Tear, Harry R., to Stewart-Warner Corp. Magnetic snap acting valve for air motor. 2,960,971, 11-22-60, Cl. 121-164.
- Tear, James D., J. V. D'Onofrio, H. F. McKenney, R. D. Gross, and F. J. McKeown, to Sperry Rand Corp. Ford Instrument Co. Division. Missile velocity indicating system. 2,952-846, 9-13-60, Cl. 343-7.
- Teator, John G., to The Thomas & Betts Co. Cable connector. 2,938,742, 5-31-60, Cl. 285-162.
- Tebay, Howard, deceased, by I. J. Tebay, administratrix. Dispensing unit. 2,940,574, 6-14-60, Cl. 194-57.
- Tebay, Ireta J.: *See*—  
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- Tech-Art Inc.: *See*—  
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- Techler, Thomas W., to Union Tank Car Co. Controls for brine supply systems. 2,922,433, 1-26-60, Cl. 137-391.
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- Tedeschi, Robert J.: *See*—  
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- Tedeschi, Robert J., to American Cyanamid Co. Separation of 1-naphthalene sulfonic acid from 2-naphthalene sulfonic acid. 2,955,134, 10-4-60, Cl. 260-501.
- Tedesco, Anton W., to American Motors Corp. Control mechanism for reclining seat back. 2,959,206, 11-8-60, Cl. 155-8.
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- Teegardin, John P., to Gadget-Of-The Month Club, Inc. Strip-type can opener. 2,958,441, 11-1-60, Cl. 220-52.
- Teepack Spezialmaschinen, G.m.b.H.: *See*—  
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- Teepie, Gifford H., Jr., to T.N.T. Corp. Apparatus and method for forming self-aligning bearings. 2,947,063, 8-2-60, Cl. 29-149.5.
- Teesdale, Clyde H., to R. S. Teesdale. Ice Cream vendor. 2,963,883, 12-13-60, Cl. 62-331.



- Teesdale, Rufus S.: *See*—  
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- Teer, Kees, to North American Philips Co., Inc. Device comprising a cathode-ray tube for producing a signal delay. 2,924,655, 2-9-60, Cl. 178-7.5.
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- Teetor, Macy O. Magnetic catch. 2,962,318, 11-29-60, Cl. 292-251.5.
- Teetor, Ralph R., to Perfect Circle Corp. Automotive speed control device. 2,966,224, 12-27-60, Cl. 180-82.1.
- Tegge, Bruce R., and J. L. Ernst, to Esso Research and Engineering Co. Liquid-liquid heat exchange in low temperature polymerization. 2,927,101, 3-1-60, Cl. 260-85.3.
- Tegge, Bruce R., J. F. Ryan, L. D. Etherington, and J. L. Bryan, Jr., to Esso Research and Engineering Co. Process for recovering polymers. 2,940,960, 6-14-60, Cl. 260-85.3.
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- Teich, Sidney R. Electronic control device for cutting off signal apparatus. 2,923,862, 2-2-60, Cl. 317-142.
- Teichmann, Charles F., and C. G. Ludeman, to Texaco Development Corp. Radioactive prospecting. 2,935,614, 5-3-60, Cl. 250-83.6.
- Teichmann, Charles F., and P. L. Paull, to Texaco Development Corp. Process for recovering metal values from gold and silver ores. 2,954,290, 9-27-60, Cl. 75-118.
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- Teitel, Robert J., to The Dow Chemical Co. Separation of uranium from zirconium-uranium alloy. 2,963,361, 12-6-60, Cl. 75-84.1.
- Teja, Jayanti D., to Montecatini-Societa Generale per l'Industria Mineraria e Chimica. Aqueous dispersions of high molecular weight fibrils of amorphous silicates. 2,919,996, 1-5-60, Cl. 106-74.
- Tek, Mehmet R.: *See*—  
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- Telecomputing Corp.: *See*—  
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- Telephonics Corp.: *See*—  
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- Teleprinter Corp.: *See*—  
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- Teleregister Corp., The: *See*—  
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- Teletray Electronic Systems, Inc.: *See*—  
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- Teletype Corp.: *See*—  
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- Television Utilities Corp.: *See*—  
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- Telkes, Maria. Temperature stabilized fluid heater and a composition of matter for the storage of heat therefor. 2,936,741, 5-17-60, Cl. 122-32.
- Tell-Tronics Products, Inc.: *See*—  
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- Tellefsen, Harold E., R. L. White, and S. Alessio, to Panellit, Inc. Annunciator system. 2,931,018, 3-29-60, Cl. 340-213.
- Tellefson, John H. Stock tank de-icer. 2,963,568, 12-6-60, Cl. 219-38.
- Tellegen, Bernardus D. H., to North American Philips Co., Inc. Circuit arrangement comprising a passive electrical quadripole. 2,944,220, 7-5-60, Cl. 330-63.
- Teller, W. Kedzie, and E. B. Tyssdal, to Pharma-Craft Co., a Division of Joseph E. Seagram & Sons, Inc. Stable anti-perspirant stick. 2,933,433, 4-19-60, Cl. 167-90.
- Tellkamp, Bernhard F., to Allen-Bradley Co. Cobalt-chromium electrical resistance device. 2,953,484, 9-20-60, Cl. 117-212.
- Tellkamp, Bernhard F., to Allen-Bradley Co. Grid configuration for film type resistor. 2,953,764, 9-20-60, Cl. 338-309.
- Temco Electronics & Missiles Co.: *See*—  
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- Temco, Inc.: *See*—  
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- Temin, Samuel C.: *See*—  
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- Tempest, Ernest and G. H., to Joseph Sellers & Son Ltd.  
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- Tempest, Geoffrey H.: *See*—  
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- Temple, Philip A.: *See*—  
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- Temple, Robert and E. E., to Mine Safety Appliances Co.  
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- Temple, Robert B., to Kelsey-Hayes Co. Quick acting tractor wheel clamp. 2,931,682, 4-5-60, Cl. 301—9.
- Temple, Robert G.: *See*—  
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- Temple, Stanley A., E. E., and R., to Mine Safety Appliances Co.  
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- Temple, Stanley A., E. E., and R., to Mine Safety Appliances Co.  
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- Templeman, Glen C., R. D. Morin, and R. A. Ewing, to The Ohio Oil Co.  
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- Templet Industries, Inc.: *See*—  
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- Templeton, August K.: *See*—  
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- Templeton Coal Co., Inc.: *See*—  
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- Templeton, Herbert W., to Thompson Ramo Wooldridge Inc.  
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- Templin, Gail H. Nail clinching apparatus. 2,944,259, 7-12-60, Cl. 1—1.
- Templin, Philip R.: *See*—  
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- Ten Bosch, M., Inc.: *See*—  
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- Ten Bosch, Maurits, and J. F. Kishel, to M. ten Bosch, Inc.  
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- Ten Brink, Karl C., to Texaco Inc. Low water loss aqueous drilling fluid. 2,960,465, 11-15-60, Cl. 252—8.5.
- Ten Broeck, James S., Jr.: *See*—  
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- Ten Broeck, Theodore R., and D. W. Peabody, to The Good-year Tire & Rubber Co. Method for reclaiming cured cellular polyurethanes. 2,937,151, 5-17-60, Cl. 260—2.3.
- Ten Broeke, Klaas E. Concrete beam mould clamp. 2,943,657, 7-5-60, Cl. 144—291.
- Tench, John D., and I. N. Duling, to Sun Oil Co. Wax composition comprising a mixture of specific paraffin waxes and 1-2% of a microcrystalline wax. 2,943,991, 7-5-60, Cl. 208—21.
- Tench, John D., S. W. Ferris, and I. N. Duling, to Sun Oil Co.  
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- Tenenbaum, Michael, J. W. Halley, and F. W. Luerssen, to Inland Steel Co. Method of making lead-containing steels. 2,947,622, 8-2-60, Cl. 75—129.
- Tenenbaum, Paul, to Copco Trailer Division, a division of Copco Steel & Engineering Co. Variable position running gear for tractor hauled trailers. 2,962,295, 11-29-60, Cl. 280—81.
- Teng, Lee C., to United States of America, Atomic Energy Commission. Particle accelerator. 2,922,061, 1-19-60, Cl. 313—62.
- Tengler, Harvey N.: *See*—  
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- Tennessee Corp.: *See*—  
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- Tennessee Fabricating Co.: *See*—  
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- Tennessee Products and Chemical Corp.: *See*—  
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- Tenney, Frank M., to The National System of Garage Ventilation, Inc. Tug of war machine. 2,934,342, 4-26-60, Cl. 273—1.
- Tenney, Lewis N.: *See*—  
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- Tenniswood, Howard J.: *See*—  
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- Tennier, Rolf, to Firma Fr. Hesser, Maschinenfabrik-Aktiengesellschaft. Intermitent feed, web processing apparatus. 2,932,508, 4-12-60, Cl. 271—2.4.
- Tennyson, Thomas A.: *See*—  
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- Te Nuyt, Johannes A., and L. J. P. Smulders, to Shell Oil Co.  
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- Tenzer, Frank C.: *See*—  
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- Tepfer, Arnold: *See*—  
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- Ter Borg, Petrus W., F. L. Jansen, and H. J. de Jong, to North American Philips Co., Inc. Polar electromagnetic relay. 2,965,733, 12-20-60, Cl. 200—93.
- Ter Cock, Chris. Pawl and ratchet bolt and nut lock. 2,966,187, 12-27-60, Cl. 151—13.
- Terenzi, Alfred F. Cooling unit for a tobacco pipe. 2,952,263, 9-13-60, Cl. 131—194.
- Ter Horst, William P., to Olin Mathieson Chemical Corp. Method of initiating the combustion of liquid hydrocarbon fuels. 2,932,158, 4-12-60, Cl. 60—35.4.
- Ter Horst, William P., to Olin Mathieson Chemical Corp. Method of initiating the combustion of liquid hydrocarbon fuels. 2,932,159, 4-12-60, Cl. 60—35.4.
- Ter Horst, William P., and E. C. Soule, deceased (by E. B. Soule, executrix), to Olin Mathieson Chemical Corp. Method of initiating the combustion of liquid hydrocarbon fuels. 2,932,160, 4-12-60, Cl. 60—35.4.
- Terhune, Hugh D.: *See*—  
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- Terhune, Hugh D., to E. I. du Pont de Nemours and Co. Plating mechanism. 2,939,306, 6-7-60, Cl. 68—178.
- Terlinde, Edward H. Harmonica and microphone pick-up therefor. 2,945,408, 7-19-60, Cl. 84—1.04.
- Ter-Minassian, Leon, to Etablissement Public dit: Houilleres Du Bassin Du Nord et Du Pas de Calais. Preparation of ethylene polymers. 2,964,458, 12-13-60, Cl. 204—162.
- Ternes, William A.: *See*—  
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- Terp, Charles J., to Bryant Chucking Grinder Co. Work loading and supporting device for an internal grinding machine. 2,927,406, 3-8-60, Cl. 51—103.
- Terp, Leslie S.: *See*—  
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- Terpe, Gunter R., to Riley Stoker Corp. Fuel burning apparatus. 2,925,069, 2-16-60, Cl. 122—235.
- Terpstra, Marnie A.: *See*—  
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- Terre Hill Machine Co.: *See*—  
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- Terrell, Aubrey H.: *See*—  
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- Terrett, John P., to Foremost Dairies, Inc. Back pressure regulating valve. 2,920,643, 1-12-60, Cl. 137—332.
- Terry, Daniel H., to The Bon Ami Co. Cleaning compositions. 2,955,047, 10-4-60, Cl. 106—3.
- Terry, George C., to Kamkap, Inc. Blower unit for charcoal grills. 2,950,669, 8-30-60, Cl. 99—421.
- Terry, George C., to Kamkap, Inc. Air intake device for charcoal grills. 2,950,711, 8-30-60, Cl. 126—25.
- Terry, George C., to Kamkap, Inc. Charcoal grill with removable fire box. 2,950,712, 8-30-60, Cl. 126—25.
- Terry, George C., to Kamkap, Inc. Fireplace grill. 2,961,942, 11-29-60, Cl. 99—340.
- Terry, Pankracy: *See*—  
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- Terry, Paul V., to General Electric Co. Resettable time switch. 2,930,860, 3-29-60, Cl. 200—38.
- Terry, Paul V., to General Electric Co. Printing demand meter. 2,957,743, 10-25-60, Cl. 346—17.
- Terry, Raymond M. Coin operated dispensing device. 2,925,898, 2-23-60, Cl. 194—54.
- Terry, Samuel M.: *See*—  
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- Terry, Samuel M., to Pittsburgh Plate Glass Co. Preparation of polyurethane foam utilizing a salt of dimethylethanol amine and a dicarboxylic acid as a catalyst. 2,932,621, 4-12-60, Cl. 260—2.5.
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- Terwilliger, Henry L., to Calumet and Hecla, Inc. Spinning tool. 2,965,059, 12-20-60, Cl. 113—52.
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- Tesch, Karl, to Jos. Schneider & Co., Optische Werke. Ob-jective diaphragm composed of swingable leaves. 2,944,477, 7-12-60, Cl. 95—63.
- Tesdal, Thomas L. Collapsible supporting frames. 2,924,414, 2-9-60, Cl. 248—165.



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- Tesmer, Edward G.: *See*—  
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- Tess, Roy W., to Shell Oil Co. Polyurethanes and their preparation. 2,965,615, 12-20-60, Cl. 260—77.5.
- Tessmann, Alfred H., to Industrial Research and Development Corp. Metal feed structure for continuous casting apparatus. 2,951,271, 9-6-60, Cl. 22—57.2.
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- Tester, Raymond J. Band saw machine making cuts at various angles and all cuts passing through a common point. 2,928,439, 3-15-60, Cl. 143—24.
- Te Strake, Lambertus. Weft inserting nozzle for looms. 2,925,833, 2-23-60, Cl. 139—127.
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- Teszner, Stanislas. Very high frequency field-effect transistors. 2,921,265, 1-12-60, Cl. 330—38.
- Teszner, Stanislas. High power field-effect transistor. 2,930,950, 3-29-60, Cl. 317—235.
- Teszner, Stanislas. Unipolar field-effect transistors. 2,939,057, 5-31-60, Cl. 317—235.
- Teter, Howard W. Measuring instrument, including registering means, with resetting mechanism connected therewith. 2,941,498, 6-21-60, Cl. 116—129.
- Teter, John W.: *See*—  
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- Teter, John W., deceased; by R. Y. Teter, administratrix, J. L. Gring, and C. D. Keith, to Engelhard Industries, Inc. Process for isomerizing light normal alkanes. 2,944,096, 7-5-60, Cl. 260—683.65.
- Teter, John W., W. P. Hettinger, Jr., D. K. Hedeon, and W. F. Lorenc, to Sinclair Refining Co. Process for deasphalting a petroleum feed oil for use in a hydrocracking zone. 2,952,615, 9-13-60, Cl. 208—86.
- Teter, Ralph W., and R. W. Teter, Jr. Drill gauge. 2,922,226, 1-26-60, Cl. 33—201.
- Teter, Ralph W., Jr.: *See*—  
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- Teumer, Kenneth A., to Sundstrand Corp. Control system. 2,931,177, 4-5-60, Cl. 60—53.
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- Tew, Gilbert W., to Sperry Rand Corp. Packaging machine. 2,953,882, 9-27-60, Cl. 53—126.
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   Davis, John T. 2,937,768.  
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   Goodrich, Baxter D. 2,938,569.  
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   Stowers, Herbert L. 2,963,873.  
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   Gilmore, Lyle D. 2,964,790.  
   Johnstone, Henry F. 2,922,735.  
   West, James R., and Kochka. 2,955,912.  
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   Broussard, Gerald R. 2,956,230.  
   Burg, Kenneth E., and Stulken. 2,954,090.  
   Charron, Armand G. 2,952,557.  
   Clark, Kenneth B., and Durst. 2,961,762.  
   Clarke, David E. 2,921,165.  
   Cornelson, Boyd. 2,935,385.  
   Cornelson, Boyd. 2,952,528.  
   Cornelson, Boyd, and Wolf. 2,952,896.  
   Cornelson, Boyd, and Wolf. 2,955,021.  
   De Weese, Charles R., Lacy, and Webster. 2,925,501.  
   Epstein, Henry D. 2,951,137.  
   Epstein, Henry D. 2,960,757.  
   Flanagan, Charles D. 2,953,723.  
   Haron, Carl I. 2,955,906.  
   Jackson, Edmond D. 2,949,498.  
   Jones, Morton E. 2,929,137.  
   Jones, Morton E. 2,934,685.  
   Karnavas, Esidoros C., Cornelson, and Braun. 2,962,058.  
   Kitchens, Lee G., and Cornelson. 2,937,962.  
   Lacy, James W. 2,962,161.  
   Le May, Charlotte Z. 2,937,439.  
   Lemson, Jack. 2,951,204.  
   Lemson, Jack, and Brower. 2,953,748.  
   Macdonald, James R. 2,955,256.  
   MacDonald, James R. 2,965,852.  
   MacDonald, James R. 2,965,853.  
   Mack, Milton K., and Wolf. 2,956,913.  
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   Oates, Robert F., and Buckmeyer. 2,922,106.  
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   Perry, Edward G. 2,928,489.  
   Perry, Edward G. 2,955,518.  
   Peterson, John D. 2,964,831.  
   Pfumm, Heinz R. 2,982,595.  
   Pfumm, Heinz R., and Rogers. 2,947,078.  
   Rhine, David H. 2,953,358.  
   Runyan, Walter R. 2,948,835.  
   Skelton, Charles W. 2,929,991.  
   Smith, Charles E. 2,925,080.  
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   Stead, Richard R. 2,927,011.  
   Stewart, Richard F. 2,963,631.  
   Strom, Leland D. 2,945,193.  
   Wagh, James H., Jr. 2,940,027.  
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   White, Gale. 2,932,357.  
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   Morin, Joseph A. 2,924,248.  
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   Burleson, Aaron. 2,952,116.  
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   Bitzer, Gottlob. 2,931,198.  
   Coile, Benjamin F. 2,925,724.  
   Coile, Benjamin F., Janda, and Williams. 2,939,303.  
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   Held, Joseph. 2,941,386.  
   Levin, Nathan. 2,919,565.  
   Levin, Nathan. 2,924,956.  
   Levin, Nathan. 2,933,906.  
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   Hallstein, Robert S. 2,938,551.  
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 Thayer, Arthur C. Television antennas. 2,943,326, 6-28-60, Cl. 343-817.  
 Thayer, Clarence H., to Sun Oil Co. Underwater drilling rig. 2,937,006, 5-17-60, Cl. 255-25.  
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 Thayer, Louis C., and J. Haagen-Smit, to Beckman Instruments, Inc. Oxygen analyzer. 2,943,036, 6-28-60, Cl. 204-195.  
 Thayer, Louis C., and M. W. Greene, to Beckman Instruments, Inc. Measuring circuit for fluid analyzers. 2,949,765, 8-23-60, Cl. 73-27.  
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 Thedick, John H. Remote control mechanism for adjusting the ignition timing of an internal combustion engine. 2,944,122, 7-5-60, Cl. 200-31.  
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 Thelle, Richard, to Pye Ltd. Colour television receiving apparatus. 2,954,424, 9-27-60, Cl. 178-5.4.  
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- Thelen, Floyd E., to Luxra Co. High temperature cut-off switch and immersed rod assembly for hot water generating tanks. 2,923,797, 2-2-60, Cl. 200—137.
- Thelen, Wilbur I., to A. Thelen. Engine mounting structure. 2,960,299, 11-15-60, Cl. 248—8.
- Thelin, Jack H., and W. B. Hardy, to American Cyanamid Co. Alkyl toluene diisocyanates. 2,963,504, 12-6-60, Cl. 260—453.
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- Thibault, Harrison N., and R. L. Plante, to Draper Corp. Replenishing mechanism for looms. 2,942,629, 6-28-60, Cl. 139—247.
- Thibault, Paul. Chain structures, especially for use in conveyor systems. 2,952,162, 9-13-60, Cl. 74—254.
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- Thibord, Maurice, and R. de Séreville, to Etablissements de Séreville. Circular knitting machines for knitting fabrics having Terry loops on both sides thereof. 2,936,601, 5-17-60, Cl. 66—91.
- Thiebaut, Roger P. J. G.: *See*—  
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- Thiede, Heinz. Arrangement for the map-like representation of the position and shape of reflecting objects. 2,966,655, 12-27-60, Cl. 340—3.
- Thiegs, Bernard J., to The Dow Chemical Co. Stabilized foam-providing compositions. 2,949,426, 8-16-60, Cl. 252—307.
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- Thiel, Otto, to Midwest Supply and Mfg. Co. Adjustable spindle for buffing wheels and the like. 2,947,122, 8-2-60, Cl. 51—166.
- Thiele, Alan P. C.: *See*—  
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- Thiele, Alfred A. Marching band metronome. 2,926,347, 2-23-60, Cl. 340—384.
- Thiele, Edward G. Bag for flour and the like. 2,948,457, 8-9-60, Cl. 229—62.
- Thiele, Elizabeth H., to Merck & Co., Inc. Alcohol detoxification of pertussis vaccines. 2,965,543, 12-20-60, Cl. 167—78.
- Thiele, Frederik A. J., to Lever Brothers Co. Disinfectants and deodorant soap composition. 2,948,684, 8-9-60, Cl. 252—107.
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- Thielen, Lawrence E., to Nalco Chemical Co. Production of haloalkylated resin particles. 2,960,480, 11-15-60, Cl. 260—21.
- Thielepape, Arnold W. Collapsible trestles. 2,925,140, 2-16-60, Cl. 182—155.
- Thielmann, Paul, to I-T-E Circuit Breaker Co. Electromagnetic claw clutches. 2,940,570, 6-14-60, Cl. 192—53.
- Thielsch, Helmut J., to Grinnell Corp. Induction coil. 2,933,584, 4-19-60, Cl. 219—107.9.
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- Thoeming, George R., to Wender Products Co. Plastic horse. 2,944,814, 7-12-60, Cl. 272—52.
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- Tholstrup, Clarence E., and A. Bell, to Eastman Kodak Co. Poly- $\alpha$ -olefins stabilized with long chain alkyl gallates. 2,925,400, 2-16-60, Cl. 260—45.85.
- Tholstrup, Henry L., to Commercial Controls Corp. Remotely controlled tape punch. 2,924,275, 2-9-60, Cl. 164—111.
- Tholstrup, Henry L., to Commercial Controls Corp. Type bar bearing. 2,924,322, 2-9-60, Cl. 197—38.
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- Thoma, Richard W., and J. Fried, to Olin Mathieson Chemical Corp. Synthesis of steroids by cylindrocarpon radicola. 2,955,075, 10-4-60, Cl. 195-51.
- Thoma, Richard W., and J. Fried, to Olin Mathieson Chemical Corp. Synthesis of steroids by dipodia natalensis. 2,960,436, 11-15-60, Cl. 195-51.
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- Thomae, Dr. Karl, G.m.b.H. : *See*—  
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- Thomas, Albert G. Power transmission device. 2,921,479, 1-19-60, Cl. 74-325.
- Thomas, Albert G., to Industrial Controls Corp. Automatic control devices. 2,939,333, 6-7-60, Cl. 74-472.
- Thomas, Albert G. Machine tool system. 2,939,367, 6-7-60, Cl. 90-13.
- Thomas, Albert G., to Industrial Controls Corp. Device for making tape and other records. 2,943,906, 7-5-60, Cl. 346-33.
- Thomas, Albert G. Magnetic clutch. 2,955,692, 10-11-60, Cl. 192-84.
- Thomas, Alexander, to Tracerlab, Inc. Proportional valve. 2,962,593, 11-29-60, Cl. 250-84.5.
- Thomas, Alexander, and F. L. Torney, Jr., to Tracerlab, Inc. Switch. 2,920,250, 1-5-60, Cl. 317-144.
- Thomas, Alvin B., to General Motors Corp. Non-hazardous etching solutions. 2,942,954, 6-28-60, Cl. 41-42.
- Thomas, André, to "Societe d'Etudes et de Commerce International." Methods for filling shells. 2,960,000, 11-15-60, Cl. 86-20.
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- Thomas, Arthur N., Jr. : *See*—  
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- Thomas & Betts Co., The : *See*—  
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- Thomas, Charles A. : *See*—  
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- Thomas, Charles B., to The Gleason Works. Adjustable cutter for spiral bevel gears and the like. 2,930,112, 3-29-60, Cl. 29-105.
- Thomas, Charles L., to Sun Oil Co. Increasing oxidation stability of hydrocarbons. 2,944,016, 7-5-60, Cl. 208-284.
- Thomas, Chester A. : *See*—  
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- Thomas, Chester E. : *See*—  
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- Thomas, Curtis J., to Continental Steel Corp. Gate lock. 2,953,916, 9-27-60, Cl. 70-77.
- Thomas, David F., and R. A. Hill, to Waterous Co. Centrifugal pump and priming pump assembly. 2,961,968, 11-29-60, Cl. 103-113.
- Thomas, David G. A. : *See*—  
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- Thomas, David L. : *See*—  
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- Thomas, David L., to International Standard Electric Corp. Protection against failure of pilot wave in carrier communication systems. 2,921,267, 1-12-60, Cl. 330-144.
- Thomas, David R. : *See*—  
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- Thomas, Delos B. : *See*—  
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- Thomas, Donald D., to Clinton Engines Corp. Tank assembly for internal combustion engines. 2,926,695, 3-1-60, Cl. 137-576.
- Thomas, Donald E., to Bell Telephone Laboratories, Inc. Automatic direct-reading transistor cut-off frequency measuring set. 2,958,824, 11-1-60, Cl. 324-158.
- Thomas, Dudley W. : *See*—  
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- Thomas, Earl E. : *See*—  
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- Thomas, Edward L. Collapsible tube closure. 2,931,543, 4-5-60, Cl. 222-546.
- Thomas, Frank A. : *See*—  
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- Thomas, Frank W. : *See*—  
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- Thomas, Fred G., Jr. Diaper clip. 2,927,359, 3-8-60, Cl. 24-255.
- Thomas, Gale F., to Smoot-Holman Co. Fluorescent lighting fixture system. 2,932,728, 4-12-60, Cl. 240-9.
- Thomas, Gale F., to Smoot-Holman Co. Lighting fixture hanger. 2,933,279, 4-19-60, Cl. 248-317.
- Thomas, George A. Auxiliary steering mechanism for vehicles. 2,925,133, 2-16-60, Cl. 180-6.26.
- Thomas, George L. : *See*—  
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- Thomas, George L., Jr. Live fish package. 2,949,882, 8-23-60, Cl. 119-3.
- Thomas, George N. : *See*—  
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- Thomas, Gordon E. : *See*—  
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- Thomas, Gordon H. : *See*—  
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Fried, Josef, and Thomas. 2,946,812.
- Thomas, Gordon H., and J. Fried, to Olin Mathieson Chemical Corp. 9 $\alpha$ -halo-16-dehydro steroids of the pregnane series. 2,963,496, 12-6-60, Cl. 260-397.45.
- Thomas, Harry : *See*—  
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- Thomas, Harry E., and S. A. De Mars, to International Telephone and Telegraph Corp. Automatic damping means in deflection circuits. 2,927,998, 3-8-60, Cl. 250-27.
- Thomas, Henry A., to Ethyl Corp. Cyclic extrusion apparatus. 2,963,865, 12-13-60, Cl. 60-51.
- Thomas Industries Inc. : *See*—  
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- Thomas, James R. : *See*—  
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- Thomas, Jesse B. : *See*—  
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- Thomas, Jesse B., to Reynolds Metals Co. Capillary inlet. 2,936,599, 5-17-60, Cl. 62-527.
- Thomas, Jesse B., to Reynolds Metals Co. Indenting tool. 2,951,404, 9-6-60, Cl. 81-15.
- Thomas, John B., H. T. Williams, and J. W. Drenning, to Koppers Co., Inc. Electrostatic precipitators. 2,961,577, 11-22-60, Cl. 315-111.
- Thomas, John H. : *See*—  
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- Thomas, John W., to Aspro-Nicholas Ltd. Package fabricating machines. 2,938,318, 5-31-60, Cl. 53-180.
- Thomas, Kenneth L. : *See*—  
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- Thomas, Kenneth L., R. J. Wickham, and G. M. Skinner, to Union Carbide Corp. Metal arc welding. 2,950,377, 8-23-60, Cl. 219-74.
- Thomas, Leland F., to E. I. du Pont de Nemours and Co. Textile product. 2,961,738, 11-29-60, Cl. 28-81.
- Thomas, Leslie S., to General Motors Corp. Electric control box. 2,946,865, 7-26-60, Cl. 200-50.
- Thomas, Lewis C., to Bell Telephone Laboratories, Inc. Electrical circuit employing transistor. 2,964,651, 12-13-60, Cl. 307-88.5.
- Thomas, Lucius P., Jr. : *See*—  
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- Thomas, Lucius P., Jr., to Radio Corp. of America. Remote control system. 2,943,146, 6-28-60, Cl. 178-6.
- Thomas, Lydia M. Coin dispensing bank. 2,955,752, 10-11-60, Cl. 232-4.
- Thomas, Martha J. : *See*—  
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- Thomas, Morton I. Folding chair with concealed back adjustment. 2,920,686, 1-12-60, Cl. 155-139.
- Thomas, Nobel F. : *See*—  
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- Thomas, Orrin H., to J. G. Saricks. Ignition timer. 2,948,785, 8-9-60, Cl. 200-30.
- Thomas, Orrin H., and J. Marconi, to Endicott Machine & Tool Co. Inc. Means for watering Christmas trees. 2,938,304, 5-31-60, Cl. 47-57.5.
- Thomas, Owen H., and J. Mool, to Sinclair Refining Co. Process for isomerizing normal paraffins. 2,952,721, 9-13-60, Cl. 260-683.66.
- Thomas, Owen H., and C. D. Keith, to Sinclair Refining Co. Cracking process employing a noble metal, aluminum halide and alumina catalyst. 2,964,462, 12-13-60, Cl. 208-108.
- Thomas, Paul E., and C. C. Wallace, Jr., to E. I. du Pont de Nemours and Co. Polytetrafluoroethylene granular powders. 2,936,301, 5-10-60, Cl. 260-92.1.
- Thomas, Paul P., to American Metal Products Co. Control arm mounting for vehicle wheel suspension. 2,944,831, 7-12-60, Cl. 280-96.1.
- Thomas, Ralph H., to Bristol-Myers Co. Dispensing packages. 2,935,188, 5-3-60, Cl. 206-42.



- Thomas, Ralph H., to Bristol-Myers Co. Inverted pressurized dispensers. 2,935,232, 5-3-60, Cl. 222-162.
- Thomas, Ralph R. Dual locking device. 2,963,895, 12-13-60, Cl. 70-14.
- Thomas, Raymond W.: *See*—  
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- Thomas, Richard C., Jr.: *See*—  
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- Thomas, Richard O.: *See*—  
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- Thomas, Richard V., to Tally Register Corp. Grid control of thyratron deionization. 2,922,080, 1-19-60, Cl. 315-340.
- Thomas, Robert D.: *See*—  
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- Thomas, Robert M.: *See*—  
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- Eby, Lawrence T., Seelbach, Cottle, and Thomas. 2,943,063.
- Eby, Lawrence T., and Thomas. 2,948,700.
- Guthrie, Donald A., and Thomas. 2,955,994.
- Thomas, Robert W., to I-T-E Circuit Breaker Co. Circuit breaker latch. 2,938,983, 5-31-60, Cl. 200-116.
- Thomas, Royal D., Jr.: *See*—  
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- Thomas Steel Forms, Inc.: *See*—  
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- Thomas, Thomas R., to Auto Research Corp. Lubricant pump. 2,938,600, 5-31-60, Cl. 184-27.
- Thomas, Thomas R., to Auto Research Corp. Lubricant coalescing fitting. 2,954,844, 10-4-60, Cl. 184-7.
- Thomas, Thomas R., to Auto Research Corp. Lubricant mist generator. 2,954,846, 10-4-60, Cl. 184-55.
- Thomas, Walter M.: *See*—  
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- Schuller, Walter H., and Thomas. 2,923,701.
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- Simek, Jerry V., Thomas, and Veale. 2,959,051.
- Thomas, Walter M., and H. Z. Friedlander, to American Cyanamid Co. Polymerization of solid monomers in suspension. 2,953,546, 9-20-60, Cl. 260-72.
- Thomas, Walter S.: *See*—  
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- Thomas, William. Stand for supporting office machines or the like. 2,929,590, 3-22-60, Cl. 248-13.
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- Thomasma, Charles W.: *See*—  
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- Thomasma, John C., and C. W., to Sanitor Mfg. Co. Dispenser for paper blanks. 2,931,536, 4-5-60, Cl. 221-41.
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- Thomason, Hjalmar. Brake shoe grinding equipment. 2,939,254, 6-7-60, Cl. 51-217.
- Thome, Joseph P., to Bendix-Westinghouse Automotive Air Brake Co. Welding. 2,931,888, 4-5-60, Cl. 219-107.
- Thommen, Hans, to Aktiengesellschaft Brown, Boveri & Cie. Air-blast switch with safety valve. 2,925,484, 2-16-60, Cl. 200-148.
- Thommen, Hans, to Aktiengesellschaft Brown, Boveri & Cie. Electric switch. 2,962,570, 11-29-60, Cl. 200-148.
- Thompson, Allen F., to The Richardson Co. Vent plug. 2,937,223, 5-17-60, Cl. 136-177.
- Thompson, Arnold M., to Thompson Tool and Mfg. Co. Portable tool assembly. 2,941,093, 6-14-60, Cl. 310-50.
- Thompson Boat Co. of New York, Inc.: *See*—  
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- Thompson, Charles E., to Meier Electric and Machine Co., Inc. Self-contained baseboard heating unit. 2,930,880, 3-29-60, Cl. 219-34.
- Thompson, Charles E., to Esso Research and Engineering Co. Process for stabilizing jet fuels. 2,944,012, 7-5-60, Cl. 208-212.
- Thompson, Charles E., and O. L. Wright, to Continental Oil Co. Method of dispersing calcium carbonate in lubricating oil. 2,931,773, 4-5-60, Cl. 252-18.
- Thompson, Charles T., to Ingersoll-Rand Co. Drilling device. 2,936,637, 5-17-60, Cl. 74-157.
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- Thompson, Clarence R., to Food Machinery and Chemical Corp. Feed for freestone fruit pitter. 2,941,559, 6-21-60, Cl. 146-28.
- Thompson, David P., and A. W. Earl, to California Research Corp. Offshore drilling platform. 2,935,854, 5-10-60, Cl. 61-46.
- Thompson, Dean L. Circulating and heating means for building. 2,931,578, 4-5-60, Cl. 237-1.
- Thompson, Dewey T., to Callaway Mills Co. Cleaning and polishing cloth. 2,947,016, 8-2-60, Cl. 15-209.
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- Thompson, Earl A. Composite valve tappet assembly. 2,935,059, 5-3-60, Cl. 123-90.
- Thompson, Earl A. Fusing machine. 2,935,596, 5-3-60, Cl. 219-101.
- Thompson, Earl A. Method of making tappets. 2,962,397, 11-29-60, Cl. 148-3.
- Thompson, Edgar H. Pendulum devices. 2,933,814, 4-26-60, Cl. 33-73.
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- Thompson Electric Co., The: *See*—  
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- Thompson, Elihu C., and P. J. Cade, to Electronics Corp. of America. Headlight beam control system for automobiles. 2,963,622, 12-6-60, Cl. 315-83.
- Thompson, Elliot R., Sr., to The Belfob Corp. Bellows. 2,925,829, 2-23-60, Cl. 137-796.
- Thompson, Elmer D.: *See*—  
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- Thompson, Ernest B., to United States of America, Air Force. Optical lens mount. 2,937,571, 5-24-60, Cl. 88-57.
- Thompson, Ernest S., to said E. S. and E. Thompson. Disc harrow. 2,923,363, 2-2-60, Cl. 172-441.
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- Thompson, Gene D., to Jersey Production Research Co. Adjustable length tail pipe for oil field operations. 2,931,438, 4-5-60, Cl. 166-138.
- Thompson, George E., and G. P. Ferrini, to The B. F. Goodrich Co. Process for preparing stable emulsifier-free alkali metal-free latices of vinylidene monomers. 2,941,971, 6-21-60, Cl. 260-29.7.
- Thompson, George L., 1/4 to R. Brown. Means for controlling the exhaust gases from marine engines. 2,935,039, 5-3-60, Cl. 115-5.
- Thompson, George W.: *See*—  
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- Thompson, George W., to American Cyanamid Co. Filtration of titania hydrate. 2,936,073, 5-10-60, Cl. 210-67.
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- Thompson, Harold D., to Piggly Wiggly Corp. Refrigerator display case. 2,955,438, 10-11-60, Cl. 62-256.
- Thompson, Harris, to Nalco Chemical Co. Method and composition for combating slag formation on refractory surfaces. 2,946,703, 7-26-60, Cl. 117-123.
- Thompson, Harry B., and C. Loos, Jr. Electric outlet receptacle. 2,934,590, 4-26-60, Cl. 174-53.
- Thompson, Herbert A., 1/2 to Coastguard Separators Ltd. Separators for liquids having different specific gravities. 2,942,733, 6-28-60, Cl. 210-519.
- Thompson, Herbert E., to International Business Machines Corp. Spine joint. 2,952,145, 9-13-60, Cl. 64-23.
- Thompson, Herbert E., to International Business Machines Corp. Data storage access mechanism. 2,957,690, 10-25-60, Cl. 271-3.
- Thompson, James E.: *See*—  
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- Thompson, James F., deceased, by E. W. Thompson, executrix, to Sterling Drug Inc. Fluorescent coating composition. 2,956,027, 10-11-60, Cl. 252-301.2.
- Thompson, James V., to J. V. Thompson and A. G. Hoyl. Well drilling mud and the method of making the same. 2,944,019, 7-5-60, Cl. 252-8.5.
- Thompson, Job T.: *See*—  
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- Thompson, John W., to Eastman Kodak Co. Colored hydrocarbons. 2,925,333, 2-16-60, Cl. 44-59.
- Thompson, Joseph C. Chiropractic table. 2,926,660, 3-1-60, Cl. 128-70.
- Thompson, Joseph C. Apparatus to aid in determining abnormal positions of spinal vertebrae. 2,930,133, 3-29-60, Cl. 33-174.
- Thompson, Joseph S.: *See*—  
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- Thompson, Kenneth, to Lowe Paper Co. Thermoplastic coating and method for producing same. 2,958,364, 11-1-60, Cl. 154-1.8.
- Thompson, Leland E.: *See—*  
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- Thompson, Murray H.: *See—*  
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- Thompson, Norris J., to Shopping Bag Food Stores. Seat-provided market cart. 2,919,927, 1-5-60, Cl. 280-33.99.
- Thompson, Paige W., and M. D. Tupper, to General Electric Co. Method for determining the end play of a rotatable shaft. 2,958,908, 11-8-60, Cl. 18-59.
- Thompson, Parke H.: *See—*  
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- Thompson, Paul F.: *See—*  
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- Thompson, Paul F., to Kaiser Aluminum & Chemical Corp. Electrical trailing cable. 2,930,837, 3-29-60, Cl. 174-115.
- Thompson, Philip M., to Her Majesty the Queen in right of Canada, as represented by the Minister of National Defense. Diode ring circuit. 2,923,894, 2-2-60, Cl. 332-47.
- Thompson, Philip M., to Her Majesty the Queen in right of Canada, as represented by the Minister of National Defense. Low frequency phase-sensitive detection system. 2,931,984, 4-5-60, Cl. 328-134.
- Thompson, Philip R., and J. C. R. Perecmanas, to S. A. de C. V. Secoterm. Process and apparatus for drying tanned leather. 2,921,381, 1-19-60, Cl. 34-48.
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- Thompson, Ralph B., to Universal Oil Products Co. Method of preventing corrosion. 2,920,030, 1-5-60, Cl. 208-47.
- Thompson, Ralph B., to Universal Oil Products Co. Corrosion inhibitor. 2,939,842, 6-7-60, Cl. 252-34.7.
- Thompson, Ralph B., to Universal Oil Products Co. Separation of hydrocarbon mixtures containing relatively straight-chain components. 2,944,093, 7-5-60, Cl. 260-676.
- Thompson, Ralph B., to Universal Oil Products Co. Stabilization of hydrocarbon oils. 2,953,444, 9-20-60, Cl. 44-63.
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 Raymont, William R. 2,946,680.  
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 Sampietro, Achilles C. 2,928,261.  
 Sampietro, Achilles C. 2,937,218.  
 Sampietro, Achilles C. 2,943,851.  
 Sampietro, Achilles C. 2,944,785.  
 Sampietro, Achilles C. 2,946,513.  
 Sampietro, Achilles C. 2,953,096.  
 Sampietro, Achilles C. 2,954,237.  
 Sampietro, Achilles C., and Heiss. 2,960,825.  
 Schnabel, Julius W. 2,957,463.  
 Schunemann, Carl F., and Jacques. 2,966,637.  
 Shipitalo, William M. 2,961,549.  
 Smith, Frederick E. 2,968,977.  
 Southam, Donald L. 2,946,186.  
 Southam, Donald L., and Bayer. 2,936,715.  
 Stiglic, Paul M., and Mrava. 2,961,166.  
 Tauschek, Max J. 2,949,907.  
 Tauschek, Max J. 2,957,459.  
 Taylor, John E. 2,923,459.  
 Taylor, John E. 2,941,372.  
 Templeton, Herbert W. 2,927,786.  
 Tremba, David E. 2,939,389.  
 Wanlass, Cravens L. 2,965,767.  
 Wanlass, Cravens L. 2,965,768.  
 Wilson, Robert W. 2,944,597.  
 Wise, James C. 2,942,414.
- Thompson, Raymond C.: *See—*  
 Heerlein, William J., and Thompson. 2,960,375.
- Thompson, Raymond C., to General Electric Co. Dishwashing machine with detergent dispenser. 2,939,612, 6-7-60, Cl. 222-181.
- Thompson, Raymond E.: *See—*  
 McClintock, Ross A., Thompson, and Waggener. 2,940,730.
- Thompson, Reynald E.: *See—*  
 Brewster, Franklin C., and Thompson. 2,933,945.
- Thompson, Reynald E., to Motorola, Inc. Safety positioning device. 2,933,946, 4-26-60, Cl. 74-477.
- Thompson, Reynald E., to Motorola, Inc. Selector device for automatic transmission. 2,933,948, 4-26-60, Cl. 74-483.
- Thompson, Richard E.: *See—*  
 Gould, Ira L., and Thompson. 2,945,362.
- Thompson, Robert D. Method and apparatus for making foam-backed materials in broad widths and product thereof. 2,947,346, 8-2-60, Cl. 154-42.3.
- Thompson, Robert D., and R. W. Barton, to Don Baxter, Inc. Flow regulator. 2,935,088, 5-3-60, Cl. 137-613.
- Thompson, Robert E.: *See—*  
 Fisher, Joseph D., Thompson, and Kottemann. 2,944,940.
- Thompson, Robert E., to Armour and Co. Long-acting vitamin B<sub>12</sub>. 2,920,015, 1-5-60, Cl. 167-81.
- Thompson, Robert E. S., and K. Y. Messick, to Thompson Trailer Corp. Road vehicles having vertically adjustable frames. 2,940,768, 6-14-60, Cl. 280-43.18.
- Thompson, Robert H., to Harris-Intertype Corp. Plate cylinder register mechanism. 2,948,216, 8-9-60, Cl. 101-248.
- Thompson, Robert N., to Thompson Boat Co. of New York, Inc. Lap-chine boat construction. 2,942,282, 6-28-60, Cl. 9-8.
- Thompson, Roger D.: *See—*  
 Schwartz, James W., and Thompson. 2,934,600.
- Thompson, Roger D., to Radio Corp. of America. Color television indexing apparatus. 2,962,546, 11-29-60, Cl. 178-5.4.
- Thompson, Russell A., Jr.: *See—*  
 Richards, John F., and Thompson. 2,962,440.
- Thompson, Russell G.: *See—*  
 Hunt, Clayton E., Jr., and Thompson. 2,957,162.
- Thompson, Selmar R. Defrosting control. 2,940,278, 6-14-60, Cl. 62-163.
- Thompson, Stanley G.: *See—*  
 Choppin, Gregory R., Thompson, and Harvey. 2,925,431.  
 Knox, William J., and Thompson. 2,938,768.  
 Seaborg, Glenn T., and Thompson. 2,940,819.  
 Seaborg, Glenn T., and Thompson. 2,950,168.



- Thompson, Stanley G., to United States of America, Atomic Energy Commission. Precipitation method for the separation of plutonium and rare earths. 2,934,402, 4-26-60, Cl. 23-14.5.
- Thompson, Thalmer J. Skin plaster. 2,943,623, 7-5-60, Cl. 128-153.
- Thompson, Theodore F., 1/2 to H. H. Hartuppee. Draw bar pin having a spring operated abutment element. 2,945,411, 7-19-60, Cl. 85-7.
- Thompson, Tom H., to Sabre Research Corp. Friction and fluid shock absorber. 2,928,507, 3-15-60, Cl. 188-86.
- Thompson, Tom H. Fuel injection systems for internal combustion and other engines. 2,942,551, 6-28-60, Cl. 103-44.
- Thompson Tool and Mfg. Co.: See—
- Thompson, Arnold M. 2,941,098.
- Thompson Trailer Corp.: See—
- Thompson, Robert E. S., and Messick. 2,940,768.
- Thompson, Wallace M., to Harris Foundry & Machine Co. Charging box for a machine for operating on metal scrap. 2,932,247, 4-12-60, Cl. 100-232.
- Thompson, Walter V. E. Non-spill anti-siphon shut off valve. 2,927,598, 3-8-60, Cl. 137-218.
- Thompson, William B.: See—
- Levensteins, Aleksanders V., and Thompson. 2,936,739.
- Thompson, William B., to General Motors Corp. Air compressor. 2,946,503, 7-26-60, Cl. 230-190.
- Thompson, William E., D. M. Albright, and A. P. Stuart, to Sun Oil Co. Process for blending polypropylene and oxygenated polypropylene. 2,950,267, 8-23-60, Cl. 260-45.5.
- Thompson, William F. Automobile crash absorbing construction. 2,959,446, 11-8-60, Cl. 296-65.
- Thompson, William H.: See—
- Alexander, Nelson E., Thompson, and McNally. 2,959,052.
- Thompson, William M., Jr., M. Kron, and D. S. Smith, to Eastman Kodak Co. Film perforating machine. 2,944,457, 7-12-60, Cl. 83-221.
- Thompson, William S.: See—
- Lauderback, William H., and Thompson. 2,928,611.
- Thompson, William S., to Elkhart Brass Mfg. Co., Inc. Combination adjustable straight stream and fog nozzle. 2,936,960, 5-17-60, Cl. 239-458.
- Thompson, Willie E., and L. E. Taylor, to Ekco Electronics Ltd. Thickness measuring gauges using radioactive material. 2,945,130, 7-12-60, Cl. 250-83.6.
- Thomsen, Alfred M. Method of processing magnesium bearing brines. 2,921,835, 1-19-60, Cl. 23-67.
- Thomsen, Alfred M. Method of de-sugaring molasses. 2,938,817, 5-31-60, Cl. 127-47.
- Thomsen, Alfred M. Method of producing sodium and potassium sulphate from pegmatite. 2,949,342, 8-16-60, Cl. 23-121.
- Thomsen, Alfred M. Method of processing mineral oils with alkali metals or their compounds. 2,950,245, 8-23-60, Cl. 208-348.
- Thomsen, Alfred M. Method of processing magnesium chlorides. 2,954,277, 9-27-60, Cl. 23-201.
- Thomsen, Alfred M. Method of processing lignified cellulose. 2,964,449, 12-13-60, Cl. 195-45.
- Thomson, Alexander G., to General Railway Signal Co. Cab signalling system for railroads. 2,959,669, 11-8-60, Cl. 246-34.
- Thomson, Edward. Harvesting machine for row crops. 2,949,716, 8-23-60, Cl. 56-15.
- Thomson, Graham S.: See—
- Schuerch, Hans U., and Thomson. 2,942,814.
- Thomson, Harry C.: See—
- Hecht, Herbert, and Thomson. 2,951,213.
- Thomson, James K., to Westinghouse Electric Corp. Electrophoretic insulating coating. 2,956,937, 10-18-60, Cl. 204-18.
- Thomson, John B. Relatively reciprocable shaft and bearing. 2,950,149, 8-23-60, Cl. 308-4.
- Thomson, John R.: See—
- Giesler, Ralph H., Jr., and Thomson. 2,940,064.
- Thomson, John W., Jr., to Owens-Illinois Glass Co. Sealing means for empty glass containers. 2,950,814, 8-30-60, Cl. 206-65.
- Thomson, Lloyd G. Sanitary napkin. 2,940,449, 6-14-60, Cl. 128-290.
- Thomson, Marvin G.: See—
- Musschoot, Albert, Schroeder, and Thomson. 2,945,606.
- Thomson, Meredith C., to Kusel Dairy Equipment Co. Plate heat exchanger. 2,937,856, 5-24-60, Cl. 257-245.
- Thomson, Robert F.: See—
- White, Philip R., Thomson, and Joseph. 2,943,932.
- Thomson, Robert F., to General Motors Corp. Self-lubricating shell molds. 2,923,989, 2-9-60, Cl. 22-193.
- Thomson, Robert F., and J. C. Holzwarth. Copper base pre-alloy for addition to zinc. 2,924,517, 2-9-60, Cl. 75-162.
- Thomson, William L., to Edwin L. Wiegand Co. Control system. 2,924,697, 2-9-60, Cl. 219-39.
- Thomson, William P., to Standard Oil Co. Platinum-alumina catalyst regeneration procedure. 2,923,679, 2-2-60, Cl. 208-140.
- Thon, William H., to Sylvania Electric Products Inc. Microwave oscillator. 2,928,020, 3-8-60, Cl. 215-3.5.
- Thonbo, Bendt Ib and G., to A/S Gubin. Separable brushes. 2,963,729, 12-13-60, Cl. 15-176.
- Thonbo, Gunnar: See—
- Thonbo, Bendt Ib and G. 2,963,729.
- Thonet Industries, Inc.: See—
- Weill, Bruno R. 2,941,855.
- Thor Power Tool Co.: See—
- De Voe, Paul K., and Nussbaum. 2,954,492.
- Fuehrer, George H. 2,958,534.
- Mitchell, Walter G. 2,923,306.
- Mitchell, Walter G. 2,958,509.
- Rangus, Ernest C. 2,965,774.
- Sandvig, Robert L. 2,919,901.
- Skoog, Donald K., and Kramer. 2,953,903.
- Vonhoff, William, Jr., and Patterson. 2,960,767.
- Thorberg, Arne S. T-slot bolt with set screw holding means. 2,936,667, 5-17-60, Cl. 85-9.
- Thorburn, David H., to The Powers Regulator Co. Variable constant flow device. 2,948,296, 8-9-60, Cl. 137-517.
- Thorburn, David H., to The Powers Regulator Co. Reversible automatic thermostat. 2,961,162, 11-22-60, Cl. 236-1.
- Thordson, Clifford: See—
- Willard, Paul V. 2,940,652.
- Thordson, Clifford, and D. W. Barrows. Fishing tip-up. 2,931,122, 4-5-60, Cl. 43-17.
- Thore, Thomas J., to Fidelity Machine Co., Inc. Splicing mechanism for circular knitting machines. 2,930,214, 3-29-60, Cl. 66-134.
- Thore, Thomas J., to Fidelity Machine Co., Inc. Salvage clipper. 2,933,908, 4-26-60, Cl. 66-147.
- Thore, Thomas J., to Fidelity Machine Co., Inc. Dial shogging mechanism for circular knitting machines. 2,943,467, 7-5-60, Cl. 66-15.
- Thoren, Robert E. Container cover applying apparatus. 2,942,395, 6-28-60, Cl. 53-316.
- Thorens S.A.: See—
- Bajulaz, Roger. 2,946,596.
- Zahner, Adrien. 2,934,187.
- Thorensen, Ragnar, W. R. Arsenault, and B. F. Ambrosio, to United States of America, Commerce. Magnetic drum memory for electronic computers. 2,925,587, 2-16-60, Cl. 340-174.
- Thoresen, Carl B. Cyclone syphon system for granulating substances. 2,956,838, 10-18-60, Cl. 302-17.
- Thoresen, John C., to B-I-F Industries, Inc. Electrical position-indicating apparatus. 2,932,014, 4-5-60, Cl. 340-177.
- Thorington, Luke, to Duro-Test Corp. Electric lamp. 2,920,222, 1-5-60, Cl. 313-109.
- Thorington, Luke, to Duro-Test Corp. Cold cathode light source. 2,955,221, 10-4-60, Cl. 313-108.
- Thorington, Luke, to Duro-Test Corp. Electric lamp and method of producing. 2,963,612, 12-6-60, Cl. 313-116.
- Thorkildsen, Per. Barrels. 2,963,190, 12-6-60, Cl. 217-76.
- Thorley, Thomas: See—
- Hobbs, John F., and Thorley. 2,949,652.
- Thorn Electrical Industries Ltd.: See—
- Mash, Derek H. 2,928,974.
- Ranby, Peter W. 2,920,046.
- Thorn, John A.: See—
- Peppler, Henry J., and Thorn. 2,922,748.
- Thorn, Robert J.: See—
- Reynolds, Donald S., and Thorn. 2,957,420.
- Reynolds, Donald S., and Thorn. 2,961,127.
- Reynolds, Donald S., and Thorn. 2,965,396.
- Thornbery, John H., to Baso Inc. Flow interrupter for thermoelectrically powered control devices. 2,920,693, 1-12-60, Cl. 153-131.
- Thornbery, John H., to Baso Inc. Control apparatus. 2,962,092, 11-29-60, Cl. 158-128.
- Thornbery, John H., and R. B. Matthews, to Baso Inc. Multiple burner control system or the like. 2,946,376, 7-26-60, Cl. 153-131.
- Thornburg, Harold A., W. R. Epes, and W. G. Jones, to United States Rubber Co. Apparatus for expanding tubular bodies. 2,936,020, 5-10-60, Cl. 153-81.
- Thornburgh, Roy S., C. H. Holtslander, and J. C. Jurk, to General Motors Corp. Indicator mechanism. 2,925,061, 2-16-60, Cl. 116-124.
- Thornburgh, William F., to General Motors Corp. Filter element. 2,941,620, 6-21-60, Cl. 183-71.
- Thornburgh, William F., to General Motors Corp. Air cleaner and silencer assembly. 2,943,699, 7-5-60, Cl. 183-71.
- Thornburgh, William F., to General Motors Corp. Air cleaning and induction system inlet means. 2,959,248, 11-8-60, Cl. 183-73.
- Thorne, Harold. Door locks or latches. 2,940,788, 6-14-60, Cl. 292-1.
- Thornor, Robert H. Bellows mechanism. 2,925,066, 2-16-60, Cl. 121-43.
- Thornor, Robert H. Defrosting control means for refrigeration apparatus. 2,949,016, 8-16-60, Cl. 62-153.
- Thorness, Rudolph B.: See—
- Bohl, Leland S., Maas, and Thorness. 2,924,147.
- Thorness, Rudolph B., to United States of America, Navy. Safety explosive line cutter. 2,926,565, 3-1-60, Cl. 89-1.
- Thorness, Rudolph B., to United States of America, Navy. Balloon and method of making the same. 2,961,194, 11-22-60, Cl. 244-31.
- Thornhill-Craver Co., Inc.: See—
- Nordin, Obed L. 2,937,484.
- Thornhill, Fred S., to Columbia-Southern Chemical Corp. Method of preparing silica pigments. 2,940,830, 6-14-60, Cl. 23-182.
- Thornhill, Peter W., to Oleo-Pneumatics Ltd. Buffers for railway, tramway and like vehicles. 2,963,175, 12-6-60, Cl. 213-223.



- Thornhill, Philip G., to Falconbridge Nickel Mines Ltd. Fluidized bed roasting of metal sulfide concentrates. 2,930,604, 3-29-60, Cl. 266-20.
- Thornhill, Philip G., and J. M. MacKay, to Falconbridge Nickel Mines Ltd. Roasting of ores. 2,930,687, 3-29-60, Cl. 75-9.
- Thornton, Francis J., and J. R. Conway, to The Bendix Corp. Indication system. 2,958,953, 11-8-60, Cl. 33-204.
- Thornton, Jesse, to Hickson's Timber Impregnation Co. (G.B.) Ltd. Impregnation process. 2,931,737, 4-5-60, Cl. 117-116.
- Thornton, Joseph H. Child's toy and exerciser. 2,953,376, 9-20-60, Cl. 272-55.
- Thornton, Marshall B.: *See—*  
 Luiz, Edward A., and Thornton. 2,943,686.  
 Van Alstyne, Harold L., and Thornton. 2,940,527.
- Thornton-Trump, Walter E. Mobile boom-supported platform. 2,954,092, 9-27-60, Cl. 182-2.
- Thornton, William E., to Del Mar Engineering Laboratories. Scoring system. 2,938,201, 5-24-60, Cl. 343-5.
- Thorp, Jeffrey M.: *See—*  
 Jones, William G. M., and Thorp. 2,938,833.
- Thorp, Charles L., R. L. Heinrich, E. J. Hoffman, and J. A. Anderson, Jr., to Esso Research and Engineering Co. Asphalt hydrogenation process. 2,950,242, 8-23-60, Cl. 208-108.
- Thorp, Ernest, to E. I. du Pont de Nemours and Co. Spinning. 2,923,969, 2-9-60, Cl. 18-8.
- Thorp Insulation Co.: *See—*  
 Glasoe, Karl M., Jr. 2,928,565.
- Thorp, Merle L., to Plasma Flame Corp. Plasma flame generator. 2,960,594, 11-15-60, Cl. 219-75.
- Thorp, Robert J., and D. F. Winters, to Westinghouse Electric Corp. Speed responsive fuel control for gas turbine engine with acceleration and compressor output pressure modification. 2,942,418, 6-28-60, Cl. 60-39.28.
- Thorp, Ronald J., to Allen & Hanburys Ltd. Wheeled trolleys. 2,952,471, 9-13-60, Cl. 280-43.13.
- Thorp, Roy E., and A. C. Nixon, to Shell Oil Co. Operation of radiation emitting apparatus. 2,943,986, 7-5-60, Cl. 204-154.
- Thorp, Thomas G. Apparatus for filling bottles and jars. 2,939,495, 6-7-60, Cl. 141-75.
- Thorsen, Jarl M., to Telefonaktiebolaget L M Ericsson. Pulse-echo system for recording the location of remote objects. 2,955,284, 10-4-60, Cl. 343-11.
- Thorsen, Jarl M., to Telefonaktiebolaget L M Ericsson. Device for separating and transforming time phase modulated pulse trains. 2,956,154, 10-11-60, Cl. 250-27.
- Thorsen, Alvin E. Door assembly. 2,929,622, 3-22-60, Cl. 268-48.
- Thorsen, John R., J. G. Black, Jr., and C. C. Rayburn, to Illinois Tool Works. Capacitor winder. 2,950,070, 8-23-60, Cl. 242-56.1.
- Thorsen, Roy M. Key rack. 2,943,743, 7-5-60, Cl. 211-59.
- Thorsen, Warren K., and A. R. McLerran, to Ideco Inc. Hoisting apparatus. 2,946,561, 7-26-60, Cl. 254-145.
- Thorsson, Matthew T.: *See—*  
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- Thorsson, Matthew T., to Fairbanks, Morse & Co. Digital balancing high speed scale system. 2,936,165, 5-10-60, Cl. 265-70.
- Thorsson, Matthew T., and L. J. Lauer, to Fairbanks, Morse & Co. Batch weighing automatic weighing systems. 2,938,701, 5-31-60, Cl. 249-14.
- Thorstensen, Thomas C., to Tanners' Council of America, Inc. Method of dehairing hides. 2,945,737, 7-19-60, Cl. 8-94.16.
- Thourel, Leo, to Compagnie Generale de Telegraphie Sans Fil. Monopulse transmitting and receiving systems. 2,925,595, 2-16-60, Cl. 343-16.
- Thouret, Wolfgang E., to Duro-Test Corp. High pressure short arc lamps and method of making same. 2,966,607, 12-27-60, Cl. 313-113.
- Thourston, Thomas L., and A. T. Wilson, to Standard Oil Co. Metal determination by radiation absorption. 2,937,275, 5-17-60, Cl. 250-43.5.
- Thourston, Thomas L., to Standard Oil Co. Quantitative determination of metals. 2,937,276, 5-17-60, Cl. 250-43.5.
- 3-D Weaving Co.: *See—*  
 Koppelman, Edward. 2,954,749.
- Threewit, Donald M., L. J. Stevenson, and G. F. Kasson, to Northrop Corp. Captive screw and sleeve having mating threaded stop shoulders. 2,921,616, 1-19-60, Cl. 151-69.
- Thrissell Engineering Co. Ltd., The: *See—*  
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- Throckmorton, John W.: *See—*  
 Wallis, John S., and Throckmorton. 2,930,363.  
 Wallis, John S., and Throckmorton. 2,931,324.  
 Wallis, John S., and Throckmorton. 2,965,080.
- Throckmorton, John W., and J. S. Wallis, to Yuba Consolidated Industries, Inc. Furnace structure. 2,936,752, 5-17-60, Cl. 126-109.
- Throckmorton, John W., and J. S. Wallis, to Yuba Consolidated Industries, Inc. Vertical tube heater. 2,964,033, 12-13-60, Cl. 126-109.
- Throssel, Lew W., to Infansea Co., Inc. Disposable seat for infants. 2,960,149, 11-15-60, Cl. 155-131.
- Thrower, Cleo V., to United States of America, Navy. Electrical test circuit. 2,921,256, 1-12-60, Cl. 324-57.
- Thrower, Elizabeth V.: *See—*  
 Thrower, Frank J. and E. V. 2,941,659.
- Thrower, Frank J. and E. V. Furniture for storing shoes and the like. 2,941,659, 6-21-60, Cl. 206-7.
- Therwachter, Walter C., to Giddings & Lewis Machine Tool Co. Method for cutting metal. 2,936,679, 5-17-60, Cl. 90-24.
- Thuilleir, Marie C. A. Soldering bits. 2,935,592, 5-3-60, Cl. 219-26.
- Thulin, Elmer C.: *See—*  
 Stryker, Edwin M., Jr., and Thulin. 2,962,664.
- Thumim, Carl, to E. P. Lawson Co., Inc. Crank drive for paper cutter knives. 2,943,506, 7-5-60, Cl. 74-414.
- Thumim, Carl, to E. P. Lawson Co., Inc. Cutting machine and table therefor. 2,945,600, 7-19-60, Cl. 214-1.
- Thumim, Carl, to E. P. Lawson Co., Inc. Safety pin mechanism for guillotine type paper cutters. 2,954,848, 10-4-60, Cl. 188-68.
- Thumim, Carl, to The Lawson Co., Division of Michle-Goss-Dexter, Inc. Electric hydraulic clutch and brake for paper cutters. 2,957,563, 10-25-60, Cl. 192-18.
- Thumm, Byron A., to American Viscose Corp. Preparing viscose rayon. 2,920,973, 1-12-60, Cl. 106-165.
- Thumm, Byron A., to American Viscose Corp. Viscose solution. 2,923,637, 2-2-60, Cl. 106-165.
- Thumm, Byron A., to American Viscose Corp. Method of producing all skin rayon. 2,932,578, 4-12-60, Cl. 106-165.
- Thumm, Byron A., to American Viscose Corp. Process of producing viscose rayon. 2,962,342, 11-29-60, Cl. 18-54.
- Thumm, Byron A.: *See—*  
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- Thunberg, Frank W., Jr., to North American Aviation, Inc. Anticipator compensator thermostat. 2,935,657, 5-3-60, Cl. 317-132.
- Thurber, William C.: *See—*  
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- Thuresson Af Ekenstam, Bo: *See—*  
 Furendal, Allan R. B., Thuresson Af Ekenstam, and von Fieandt. 2,948,634.
- Thuresson Af Ekenstam, Bo, and B. G. Petersson, to Aktiebolaget Bofors. Synthesis of N-alkyl-piperidine and N-alkyl-pyrrolidine- $\alpha$ -carboxylic acid amides. 2,955,111, 10-4-60, Cl. 260-294.
- Thurman, Benjamin H., to B. Clayton, d.b.a. Refining, Unincorporated. Apparatus for mixing fluids. 2,937,857, 5-24-60, Cl. 259-9.
- Thurman, Benjamin H., to B. Clayton, d.b.a. Refining Unincorporated. Animal feeds and methods of producing same. 2,958,600, 11-1-60, Cl. 99-2.
- Thurman, George E. Nail puller. 2,966,334, 12-27-60, Cl. 254-26.
- Thurman, James W.: *See—*  
 Batz, Walter, and Thurman. 2,965,963.
- Thurman, Tandy B., to E. and R. W. Saunders. Door and operating structure therefor. 2,947,355, 8-2-60, Cl. 160-191.
- Thurnheer, Jakob, to Wild Heerbrugg Aktiengesellschaft. Means for influencing the path of rays in optical devices. 2,921,496, 1-19-60, Cl. 88-1.
- Thurrow, James E., to General Motors Corp. Aerial gunsight. 2,949,808, 8-23-60, Cl. 88-1.
- Thurrow, Raymond C. Focusing apparatus for camera. 2,940,371, 6-14-60, Cl. 95-44.
- Thurston, Arthur L., to Revere Corp. of America. Vehicle load detector. 2,962,274, 11-29-60, Cl. 265-27.
- Thurston, Arthur L., to Revere Corp. of America. Platform weighing apparatus. 2,962,275, 11-29-60, Cl. 265-71.
- Thurston, Arthur L., to Revere Corp. of America. Portable vehicle weighing apparatus. 2,962,276, 11-29-60, Cl. 265-71.
- Thurston, Emerson W. Golf target. 2,936,179, 5-10-60, Cl. 273-182.
- Thurston, Gerald E. Package. 2,959,338, 11-8-60, Cl. 229-27.
- Thurston, Vinal D.: *See—*  
 Marmo, Anthony B., and Thurston. 2,943,633.
- Thut, Paul J., and R. W. Beachner, to Burroughs Corp. Code recording apparatus. 2,933,038, 4-19-60, Cl. 101-91.
- Thyer, John. Window unit construction and method of making same. 2,934,798, 5-3-60, Cl. 20-11.
- Thylefors, Henric W., to Aktiebolaget Separator. Regulating device for a flow medium. 2,951,501, 9-8-60, Cl. 137-501.
- Thysk, Rune N. A.: *See—*  
 Jorgensen, Anders O., Skoldberg, and Thysk. 2,961,752.
- Tibbals, Charles E., to Wood Products Development Co., Inc. Method of and apparatus for making parquet flooring blocks. 2,961,021, 11-22-60, Cl. 144-318.
- Tibbling, Stig B., to International Business Machines Corp. Copyholder. 2,949,886, 8-23-60, Cl. 120-32.
- Tibbits, Duane, Jr. Ditching machine. 2,934,841, 5-3-60, Cl. 37-94.
- Tibbs, Christopher E. M., to Radio Heaters Ltd. Radio frequency dielectric heating apparatus. 2,944,133, 7-5-60, Cl. 219-10.55.
- Tiberg, Magnus G., and S. A. Kjellberg, to Aktiebolaget Svenska Kullagerfabriken. Machine for making hot tops for ingot moulds. 2,961,721, 11-29-60, Cl. 22-49.
- Tiberlis, Dennis E., to Dennan Mfg. Co. Spreader for clothes line of the twisted type. 2,936,903, 5-17-60, Cl. 211-119.13.
- Tice, Mary E. Cassette holder. 2,919,873, 1-5-60, Cl. 248-33.



- Tice, Reuben S.: *See*—  
Pickles, Sidney, and Tice. 2,947,841.
- Tice, Richard R.: *See*—  
Flint, Richard W., and Tice. 2,940,016.
- Tice, Robert R.: *See*—  
Shawley, George C., and Tice. 2,933,947.
- Tice, Virgil E., to National Automatic Tool Co., Inc. Feed rate indicator for machine tools. 2,921,259, 1-12-60, Cl. 324-70.
- Tichenor, Robert L.: *See*—  
Euler, Robert D., and Tichenor. 2,948,584.
- Tidd, Edwin T. Resilient bushing for connecting machine elements. 2,962,311, 11-29-60, Cl. 287-85.
- Tidd, Elbert D., to Bell Telephone Laboratories, Inc. High pressure hermetically sealed terminal. 2,944,102, 7-5-60, Cl. 174-152.
- Tidd, George W.: *See*—  
Frisch, Martin, Cartinhour, Tinbergen, Stern, and Tidd. 2,944,532.
- Tidewater Oil Co.: *See*—  
Ammer, Edward J., and Viland. 2,938,853.  
Banigan, Thomas F., Jr. 2,938,777.  
Bisso, Louis A., and Hall. 2,939,011.  
Galstaun, Lionel S., Rampino, and Vandenburg. 2,932,612.  
Miller, Walter M. 2,946,741.  
Rampino, Louis D., and Gorham. 2,946,742.  
Viland, Clare K. 2,934,574.
- Tidland, Charles R.: *See*—  
Williams, Arthur T., and Tidland. 2,919,673.
- Tidland, Charles R., 1/2 to A. T. Williams. Expansible shaft. 2,950,071, 8-23-60, Cl. 242-72.
- Tidwell, Hubert. Dump truck endgate and loading device. 2,933,209, 4-19-60, Cl. 214-78.
- Tiede, Leo G. Fishing bobber. 2,937,469, 5-24-60, Cl. 43-44.88.
- Tiede, Roy C. Mug cooler and refrigeration system therefor. 2,923,136, 2-2-60, Cl. 62-225.
- Tiedeman, Robert K.: *See*—  
Mergen, Joseph M., and Tiedeman. 2,924,281.
- Tiedeman, Richard A., to A. O. Smith Corp. Weld head positioning apparatus. 2,920,856, 1-12-60, Cl. 248-284.
- Tiefenbach, Hermann. Pressure medium monitoring device. 2,965,729, 12-20-60, Cl. 200-81.9.
- Tiefenbrunner, Alfred H.: *See*—  
Fagan, Gordon E., and Tiefenbrunner. 2,941,670.
- Tiefenthaler, Robert R.: *See*—  
Douglas, Henry H., Follwell, and Tiefenthaler. 2,944,626.
- Tiefenthaler, Robert R., to Pittsburgh Plate Glass Co. Safety circuit for manifold valves. 2,920,642, 1-12-60, Cl. 137-266.
- Tiegel, Ernest G. Aerial tramways. 2,938,472, 5-31-60, Cl. 104-178.
- Tieman, James E. Cotton harvester with forward gathering means. 2,938,321, 5-31-60, Cl. 56-12.
- Tieman, Lloyd E., to Ohse Meat Products of Oklahoma, Inc. Cheese cubing apparatus. 2,953,853, 9-27-60, Cl. 31-8.
- Tien, Jack M. Thermotransfer duplicating process. 2,939,009, 5-31-60, Cl. 250-65.
- Tien, Ping K., to Bell Telephone Laboratories, Inc. Traveling wave tube amplifier. 2,921,224, 1-12-60, Cl. 315-3.6.
- Tieri, Arthur J. Ophthalmic mounting hinges. 2,963,733, 12-13-60, Cl. 16-169.
- Tierney, John B. Device for making pair comparisons. 2,952,924, 9-20-60, Cl. 35-48.
- Tierney, Marcus M. Peg board bracket. 2,943,835, 7-5-60, Cl. 248-216.
- Tierney, Raymond B., to Texaco Inc. High temperature lubricant composition. 2,922,763, 1-26-60, Cl. 252-47.5.
- Tierney, Raymond B., R. H. Krug, and R. P. Chesluk, to Texaco Inc. Ester-base lubricant containing anti-oxidant mixtures. 2,930,758, 3-29-60, Cl. 252-46.7.
- Tierney, Raymond B., R. K. Meyers, and R. H. Krug, to Texaco Inc. Fire resistant hydraulic fluid. 2,965,574, 12-20-60, Cl. 252-78.
- Tierney, Robert J. Emergency chain attaching unit. 2,963,065, 12-6-60, Cl. 152-241.
- Tiers, George V. D., to Minnesota Mining and Mfg. Co. Perfluoro-substituted aliphatic acids and derivatives thereof. 2,951,051, 8-30-60, Cl. 260-23.
- Tiers, George V. D., to Minnesota Mining & Mfg. Co. Preparation of fluorine containing organic compounds. 2,965,659, 12-20-60, Cl. 260-408.
- Tietze, Hermann, and G. Stampe, to O. H. Drager. Filter material support. 2,945,555, 7-19-60, Cl. 183-49.
- Tietze, Hermann, and G. Stampe, to O. H. Drager. Filter material support. 2,945,556, 7-19-60, Cl. 183-49.
- Tiffany, Carter, to Weems System of Navigation, Inc. Angular bearing instrument and mechanism for angular adjustment. 2,946,256, 7-26-60, Cl. 88-2.4.
- Tift, Alice L.: *See*—  
Tift, Harold C. 2,936,523.
- Tift, Harold C. Portable shield. 2,921,317, 1-19-60, Cl. 2-2.5.
- Tift, Harold C., to A. L. Tift, and State Bank of Albany. Denture connecting device. 2,936,523, 5-17-60, Cl. 32-4.
- Tigerman, Louis, to Western Leather Co. Drive coupling. 2,953,911, 9-27-60, Cl. 64-30.
- Tigges, Gerhard. Yarn supporting reel. 2,936,964, 5-17-60, Cl. 242-118.1.
- Tiikkainen, Veikko V. Calendar device. 2,933,840, 4-26-60, Cl. 40-111.
- Tiikkainen, Veikko V. Safety cover for electrical outlet fixture. 2,934,591, 4-26-60, Cl. 174-67.
- Tikkanen, Matti H. A., to Nils K. G. Tholand. Extraction of iron from iron-bearing titaniferous raw materials. 2,961,298, 11-22-60, Cl. 23-202.
- Tiktin, Abraham. Expansion band for wrist watches. 2,937,797, 5-24-60, Cl. 224-4.
- Tilden, Carl V., to The Village of Deming. Core drill. 2,951,683, 9-6-60, Cl. 255-72.
- Tile Council of America, Inc.: *See*—  
Wagner, Herman B. 2,934,932.  
Wagner, Herman B. 2,959,489.  
Wagner, Herman B. 2,962,467.
- Tiley, Gerald L.: *See*—  
Zucker, Ernest, Oldfield, and Tiley. 2,963,114.
- Tiley, John W.: *See*—  
Bradley, William E., and Tiley. 2,929,999.
- Tilgner, Ilse. Curtain hanger. 2,924,842, 2-16-60, Cl. 16-87.8.
- Tillack, Werner: *See*—  
Larché, Kurt, and Tillack. 2,940,009.
- Tillequin, Jean F.: *See*—  
Pacault, Pierre H., and Tillequin. 2,957,815.
- Tillery, Hubert J.: *See*—  
Cavender, John G. 2,960,262.
- Tilley, Aubra E.: *See*—  
Gray, Norman E., and Tilley. 2,934,741.
- Tilley, Aubra E., to California Research Corp. Apparatus for resistivity surveying of the earth. 2,931,972, 4-5-60, Cl. 324-1.
- Tilley, Claude W.: *See*—  
Roth, Otto W., and Tilley. 2,954,659.  
Roth, Otto W., and Tilley. 2,954,660.
- Tilley, Colin G.: *See*—  
Stephen, William E., and Tilley. 2,951,070.
- Tilley, Colin G., to Imperial Chemical Industries Ltd. New Monoazo dyestuffs. 2,951,071, 8-30-60, Cl. 260-153.
- Tilley, Colin G., and F. A. Waite, to Imperial Chemical Industries Ltd. Monoazo dyestuffs of the azo naphthalene series containing a monohalogeno-S-triazine nucleus. 2,951,072, 8-30-60, Cl. 260-153.
- Tillman, Reuel Q., and A. G. Pieper, to United States of America, Navy. Voltage measuring device. 2,951,203, 8-30-60, Cl. 324-111.
- Tillman, Richard M., to Continental Oil Co. Thixotropic treating composition and a method of treating concrete pouring forms therewith. 2,937,950, 5-24-60, Cl. 106-38.24.
- Tillman, Richard M., to Continental Oil Co. Method of curing concrete. 2,952,062, 9-13-60, Cl. 25-154.
- Tillman, Richard M., to Continental Oil Co. Method of curing concrete. 2,963,765, 12-13-60, Cl. 25-154.
- Tillotson, Jerry A.: *See*—  
Schlenk, Hermann, Sand, and Tillotson. 2,959,580.
- Tillotson Mfg. Co., The: *See*—  
Phillips, Bernard C. 2,953,347.
- Tillotson, Wesley T., and F. W. Easterday, to United States Gypsum Co. Binder distribution and atomizing system for fiberizing apparatus. 2,944,284, 7-12-60, Cl. 18-2.5.
- Tillson, Edwin D., W. E. Janness, and D. W. Davis, to Lighting Products, Inc. Electric lighting fixtures. 2,951,611, 9-6-60, Cl. 220-34.
- Tilok Corp.: *See*—  
Harper, Charles E., and McGraw. 2,940,264.
- Tilt-A-Door Corp.: *See*—  
Smith, Wesley A. 2,922,474.  
Smith, Wesley A. 2,930,435.  
Smith, Wesley A., and Ginther. 2,945,536.
- Tilton, Russell G., to Multiscope, Inc. Moving stairway hand rails. 2,919,786, 1-5-60, Cl. 198-16.
- Timax Corp.: *See*—  
Slatin, Harvey L. 2,961,387.
- Timberline Equipment Co.: *See*—  
Hoadley, Cyrus E. 2,955,631.
- Time, Inc.: *See*—  
Brink, Robert M. 2,962,550.  
Faerber, Harry W. 2,925,271.  
Faerber, Harry W. 2,928,342.  
Faerber, Harry W. 2,944,349.  
Faerber, Harry W. 2,947,234.  
Faerber, Harry W. 2,947,235.  
Galer, Merrill F. 2,933,061.  
Klyce, Battle H. 2,962,147.  
McNeil, Kay B. 2,929,146.  
Moe, William W., and Jordan. 2,947,805.  
Parks, Herman D. 2,943,505.  
Yule, John A. C. 2,932,691.
- Timefax Corp.: *See*—  
Dalton, Harold R. 2,940,941.  
Wolf, Murray, and Dalton. 2,951,441.
- Times Facsimile Corp.: *See*—  
Luskin, Bernard. 2,958,846.  
McConnell, Kenneth R. 2,921,977.  
Strickholm, Harry. 2,933,557.
- Timken Roller Bearing Co., The: *See*—  
Eastburg, Clifford L. 2,950,002.  
Edwards, Herbert C. 2,920,386.  
Stevens, Samuel N. 2,944,667.  
Weckstein, Samson M. 2,939,750.
- Timm, Paul W., to Paragon Electric Co. Electric clock motorized switch apparatus for outlet box mounting. 2,943,160, 6-28-60, Cl. 200-35.



- Timmerman, Julius W., and E. R. Perry, to Allis-Chalmers Mfg. Co. High pressure valve employing engaging inlet and exhaust valve elements. 2,941,545, 6-21-60, Cl. 137-620.
- Timmerman, Julius W., to Allis-Chalmers Mfg. Co. Current conductive spring bearing for vacuum switch contacts. 2,965,734, 12-20-60, Cl. 200-144.
- Timmerman, Robert: *See*—  
Hodgins, George R., Di Cyan, and Timmerman. 2,950,195.
- Timmons, A. D.: *See*—  
Young, Furman, N. B. 2,953,406.
- Timmons, George A., and M. Semchyshen, to American Metal Climax, Inc. Molybdenum-base alloys. 2,960,403, 11-15-60, Cl. 75-176.
- Timms, Ross L.: *See*—  
Burtner, Richard L., and Timms. 2,932,392.
- Timms, Ross L., 50% to A. Foster, 5% to A. H. Oldham and 5% to V. L. Oldham. Apparatus for identifying paper money, or the like, as genuine, and for making change or the like. 2,950,799, 8-30-60, Cl. 194-4.
- Timms, Ross L., 50% to A. Foster, 5% to A. H. Oldham and 5% to V. L. Oldham. Apparatus for identifying paper money or the like, as genuine, and for making change or the like. 2,951,164, 8-30-60, Cl. 250-219.
- Timoff, George T., and G. E. McGill, to General Motors Corp. Vehicle dome light. 2,920,186, 1-5-60, Cl. 240-735.
- Timothy, Keith O.: *See*—  
Wilson, Gardner P., and Timothy. 2,924,781.
- Timreck, Albert E.: *See*—  
Bavley, Abraham, and Timreck. 2,935,449.
- Timron Development and Mfg. Corp.: *See*—  
Kessler, Theodore P. 2,922,516.
- Timson, William J. Tire chain fastener. 2,946,365, 7-26-60, Cl. 152-213.
- Timbergen, William: *See*—  
Frisch, Martin, Carthinour, Timbergen, Stern, and Tidd. 2,944,532.
- Tindall, John B., to Commercial Solvents Corp. Cyclic process for the production of lower nitrosodialkylamines. 2,947,785, 8-2-60, Cl. 260-583.
- Tinder, David V., and J. C. McMurdie, to Moto-Mower, Inc. Detachable handle construction for lawnmowers. 2,922,659, 1-26-60, Cl. 280-4737.
- Tingley, Loyal H., Jr. Clothes treating liquid dispenser for automatic washing machines. 2,949,025, 8-16-60, Cl. 68-207.
- Tingley, Loyal H., Jr. Clothes treating material dispenser for automatic washers of the reversible tumbler type. 2,955,450, 10-11-60, Cl. 68-24.
- Tingley Rubber Corp.: *See*—  
Le Compte, Frank M. 2,933,831.
- Tingley, William E. to American Can Co. Tapered carton with handle. 2,923,455, 2-2-60, Cl. 229-52.
- Tingskog, Lennart, to Allmanna Svenska Elektriska Aktiebolaget. Crane having governing means for steering the crane frame travelling along the track. 2,935,032, 5-3-60, Cl. 105-163.
- Tinius Olsen Testing Machine Co.: *See*—  
Karnchuk, Sylvester. 2,946,218.
- Tinker, Townsend, to American Radiator & Standard Sanitary Corp. Method of combustion for low-grade fuel and apparatus therefor. 2,920,689, 1-12-60, Cl. 158-7.
- Tinker, Townsend, to American Radiator & Standard Sanitary Corp. High pressure closure. 2,920,789, 1-12-60, Cl. 220-46.
- Tinker, Townsend, to American Radiator & Standard Sanitary Corp. Flanged pipe coupling for pressure vessels having stress compensating means. 2,956,821, 10-18-60, Cl. 285-114.
- Tinker, Walter H. Hydraulic jet propulsion units for boats. 2,965,065, 12-20-60, Cl. 115-42.
- Tinnerman, George A.: *See*—  
MacRae, Ralph. 2,953,830.
- Tinnerman, George A. Retainers. 2,923,385, 2-2-60, Cl. 189-35.
- Tinnerman, George A. Clamps. 2,929,121, 3-22-60, Cl. 24-81.
- Tinnerman, George A. Method of forming a self-clenching and sealing fastener. 2,948,062, 8-9-60, Cl. 29-513.
- Tinnerman Products, Inc.: *See*—  
Flora, Laurence H. 2,948,958.  
Holton, Robert J. 2,924,864.  
Holton, Robert J. 2,948,938.  
Holton, Robert J. 2,949,627.  
Strange, John. 2,950,134.
- Tino, Ovid. Sustaining airfoil with retractable cylindrical rotor. 2,928,626, 3-15-60, Cl. 244-10.
- Tinsley, Antony B., and K. Guest, to Imperial Chemical Industries Ltd. Submerged-arc welding. 2,945,937, 7-19-60, Cl. 219-73.
- Tinsley, John S., to Hercules Powder Co. Method of chlorination of polyolefins. 2,926,159, 2-23-60, Cl. 260-88.2.
- Tinsley, John S., to Hercules Powder Co. Molding composition comprising ethyl cellulose, epoxy compound and phenolic compound and process of preparing. 2,928,795, 3-15-60, Cl. 260-13.
- Tinsley, Samuel W., and J. T. Fitzpatrick, to Union Carbide Corp. Arylaminoaceneaphthenes as antioxidants for polyalkylene glycol compositions. 2,938,058, 5-24-60, Cl. 260-611.5.
- Tinsley, Samuel W., P. S. Starcher, and J. P. Henry, to Union Carbide Corp. Epoxypolytrifluoromethylbenzenes. 2,946,808, 7-26-60, Cl. 260-348.
- Tinus, William C., to Bell Telephone Laboratories, Inc. Electrical impulse transmitter. 2,921,142, 1-12-60, Cl. 179-90.
- Tipping, William F., to Simplus Products Ltd. Ironing boards. 2,923,077, 2-2-60, Cl. 38-104.
- Tipple, Peter M., to English Electric Valve Co. Ltd. Semiconductor rectifier assemblies. 2,960,639, 11-15-60, Cl. 317-234.
- Tippling, William F., to Simplus Products Ltd. Ironing board. 2,955,370, 10-11-60, Cl. 38-135.
- Tipton, Jessie E.: *See*—  
Schrieber, Charles F., Patrick, and Tipton. 2,960,394.
- Tip-Top Products Co.: *See*—  
Gresham, Claude D., and Hoffmann. 2,937,649.
- Tiraspolksy, Wladimir. Turbine for well drilling. 2,920,863, 1-12-60, Cl. 253-3.
- Tiraspolksy, Wladimir, R. F. Rouviere, and J. Chare. Well-drilling turbines. 2,952,440, 9-13-60, Cl. 253-3.
- Tiraspolksy, Wladimir, and R. F. Rouviere. Revolvable engines and motor for subterranean drilling. 2,952,494, 9-13-60, Cl. 308-9.
- Tirico, Arthur L., to Texaco Inc. Continuously readable dosimeters. 2,935,613, 5-3-60, Cl. 250-83.3.
- Tirloni, Emilio. Fuel supply system for an internal combustion engine. 2,964,029, 12-13-60, Cl. 123-139.
- Tirrell, Charles E., to Ionics, Inc. Self-rectifying electro-dialysis unit. 2,955,999, 10-11-60, Cl. 204-180.
- Tisch, Richard E., and G. E. Carlson, to A-P-D Co. Sealing ring. 2,954,264, 9-27-60, Cl. 309-23.
- Tischbein, Wilhelm, 1/2 to Farbenfabriken Bayer Aktiengesellschaft and 1/2 to Mobay Chemical Co. Coated textiles and method of producing the same. 2,929,737, 3-22-60, Cl. 117-76.
- Tischbirek, Gunther: *See*—  
Blaser, Bruno, and Tischbirek. 2,964,564.
- Tischbirek, Gunther, to Henkel & Cie, G.m.b.H. Process and apparatus for the continuous production of sulfuric acid esters. 2,931,822, 4-5-60, Cl. 260-459.
- Tischler, Edward J., to Union Tank Car Co. Controls for brine supply systems. 2,955,795, 10-4-60, Cl. 137-103.
- Tischler, Henry J., and A. Ciesielski, to L. A. Young Spring & Wire Corp. Reclining seat. 2,941,583, 6-21-60, Cl. 155-160.
- Tishler, Max: *See*—  
Wilson, Evelyn H., and Tishler. 2,933,515.  
Wilson, Evelyn H., and Tishler. 2,957,892.
- Tisinai, George F.: *See*—  
Stanley, James K., and Tisinai. 2,940,880.
- Tisinai, George F., J. K. Stanley, and C. H. Samans, to Standard Oil Co. Production of austenitic steel alloys. 2,940,879, 6-14-60, Cl. 148-3.
- Tisler, Marshall S.: *See*—  
Kirkman, Peter J., and Tisler. 2,923,108.
- Tissomat A. G.: *See*—  
Schwabe, Kurt. 2,955,620.
- Tissot, Germain, and E. Teissier, to Societe de Constructions Mecaniques de Stains. Production of twistless staple fiber yarns by sizing untwisted bundles, false twisting and winding. 2,946,180, 7-26-60, Cl. 57-156.
- Tissot, Germain, and E. Teissier, to Societe de Constructions Mecaniques de Stains. Production of twistless yarns by direct spinning to tow, sizing the tow, false twisting and winding. 2,946,181, 7-26-60, Cl. 57-157.
- Titanium Metals Corp. of America: *See*—  
Beck, Kenneth O. 2,949,411.  
Bennett, Sterling J., and Dilling. 2,964,389.  
Dilling, Elmer D. 2,922,872.  
Dilling, Elmer D. 2,963,785.  
Love, Frank E., Lyons, and Priscu. 2,933,373.  
Lyons, Leland R. 2,964,399.  
Richards, Raymond S., and Wheelon. 2,919,575.  
Tao, Luh C. 2,934,427.
- Titanium Zirconium Co., Inc.: *See*—  
Harris, William M., Linnell, and Meredith. 2,934,416.
- Titchenal, Oliver R., to St. Regis Paper Co. Valve bag filling machines. 2,955,796, 10-11-60, Cl. 249-60.
- Titcomb, Stanley C., to International Business Machines Corp. Hydraulic drive and control apparatus. 2,938,501, 5-31-60, Cl. 121-38.
- Titeflex, Inc.: *See*—  
Ramberg, Einar M., and Balogh. 2,962,303.  
Ramberg, Einar M., and Goldenberg. 2,962,050.  
Richards, Brinley T. 2,929,595.
- Titmus Optical Co., Inc.: *See*—  
Sarofeen, George M. J. 2,964,501.
- Titsworth, Harvey R.: *See*—  
Martin, Eugene C., and Titsworth. 2,919,979.
- Titsworth, Harvey R., and E. C. Martin, to The American Oil Co. Rust inhibited mineral oil compositions. 2,935,389, 5-3-60, Cl. 44-66.
- Titterton, William A., to General Electric Co. Temperature compensated butterfly valve. 2,924,424, 2-9-60, Cl. 251-306.
- Tittle, Charles W., to Gulf Research & Development Co. Logging of energy distribution. 2,922,885, 1-26-60, Cl. 250-71.
- Tittman, Jay: *See*—  
Johnson, Frank F., and Tittman. 2,944,148.



- Titus, Albert C., to General Electric Co. Instant filming brush. 2,946,907, 7-26-60, Cl. 310-228.
- Titus, Albert C., to General Electric Co. Laminated carbon brush. 2,959,698, 11-8-60, Cl. 310-248.
- Titus Mfg. Corp.: See—  
Averill, Eugene F. 2,928,331.
- Titus, Robert W., and Coates. 2,958,272.
- Titus, Paul V., and R. M. Crone, to North American Aviation, Inc. Aircraft flap structure. 2,924,399, 2-9-60, Cl. 244-42.
- Titus, Richard K.: See—  
Schindler, Frank S., and Titus. 2,965,961.
- Titus, Robert W., and F. J. Coates, to Titus Mfg. Corp. Adjustable air distribution units. 2,958,272, 11-1-60, Cl. 98-40.
- Titze, Hans, to Aktiengesellschaft Brown, Boveri & Cie. Protective device. 2,925,535, 2-16-60, Cl. 317-36.
- Tjepkema, Jacobus J.: See—  
Van Der Waarden, Mathijs, Tjepkema, Huyser, Hartstra, and Reman. 2,938,828.
- Tobacco Machine Supply Co., Inc.: See—  
Long, Benjamin H. 2,949,118.
- Tobeler, Paul O.: See—  
Flechsig, Alfred. 2,940,858.  
Fleissner, Heinrich. 2,939,648.  
Von Reppert, Rüdiger L. 2,939,172.
- Toben, Bernard E.: See—  
Perkins, Norwood K., Toben, and Beattie. 2,937,455.
- Toben, Gregory J.: See—  
Woodbury, William W., Toben, and Vogel. 2,951,534.
- Tober, Lawrence C., to The Vendo Co. Drive mechanism. 2,942,707, 6-28-60, Cl. 192-15.
- Tobey, Russell J. Method of making steel rule blanking dies and punches. 2,939,347, 6-7-60, Cl. 76-107.
- Tobey, William A., to Manistee Engineering Co. Multi-blade circulator and evaporator construction. 2,944,600, 7-12-60, Cl. 159-25.
- Tobias, Stephen J., and W. Kaufman. Spiral stitching device for sewing machines. 2,955,551, 10-11-60, Cl. 112-2.
- Tobin, Arthur. Guard and shelf for shower handles. 2,957,587, 10-25-60, Cl. 211-90.
- Tobin, Frank H.: See—  
Cohen, Gene, and Tobin. 2,960,641.
- Tobin, Kenneth J., to Evans Products Co. Cargo loading and storage apparatus. 2,919,662, 1-5-60, Cl. 105-369.
- Tochihara, Shigezo: See—  
Hoshino, Yasushi, Namikawa, and Tochihara. 2,965,723.  
Hoshino, Yasushi, Sato, Namikawa, and Tochihara. 2,924,668.
- Tochikura, Tatsurokuro: See—  
Katagiri, Hideo, and Tochikura. 2,953,499.
- Tochilin, Eugene: See—  
Ross, Steven W., and Tochilin. 2,933,605.
- Todd, Charles W., to E. I. du Pont de Nemours and Co. Method and composition for the control of undesired vegetation. 2,949,354, 8-16-60, Cl. 71-2.7.
- Todd, Edward F., and S. Malczewski, to The Imperial Brass Mfg. Co. Display merchandiser. 2,964,371, 12-13-60, Cl. 312-234.5.
- Todd, Francis C.: See—  
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- Todd, Harold E.: See—  
Woodward, Myrnesth L., Todd, and Onksen. 2,965,813.
- Todd, Hoyt H., to Superweld Corp. Liquid suspension of high density particles. 2,923,649, 2-2-60, Cl. 148-24.
- Todd, Hoyt H., to Western Carbide Corp. Method of and apparatus for feeding magnetic welding powder to welding wire. 2,934,632, 4-26-60, Cl. 219-130.
- Todd, Max E.: See—  
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- Todd, Robert A.: See—  
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- Todd, Robert W.: See—  
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Proell, Wayne A., Morello, Stanley, and Todd. 2,938,780.
- Todd, William E., to Swift & Co. Screw conveyor apparatus. 2,948,385, 8-9-60, Cl. 198-213.
- Todd, William H.: See—  
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- Toddy, Clayton J., to The Goodyear Tire & Rubber Co. Fluid pressure core. 2,937,406, 5-24-60, Cl. 18-45.
- Todish, Walter D., R. E. McFadden, and R. W. Johnson, to Scott-Arwater Foundry, Division of S & A Co., Inc. Outboard motor stand. 2,966,319, 12-27-60, Cl. 248-13.
- Todoroff, Alexander N.: See—  
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- Todoroff, Alexander N., to Western Electric Co., Inc. Apparatus for sequentially advancing work pieces through a series of fabricating machines. 2,935,172, 5-3-60, Cl. 198-19.
- Todorovic, Cedimir. Convertible article of furniture such as a sofa, settee and chair. 2,931,052, 4-5-60, Cl. 5-29.
- Todten, Ernst: See—  
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- Toedtmann, John A., to Jasper Blackburn Corp. Electrical connectors. 2,948,878, 8-9-60, Cl. 339-265.
- Toedtmann, John A., and W. E. Wilton, to Jasper Blackburn Corp. Compression type electrical connectors. 2,938,069, 5-24-60, Cl. 174-94.
- Toegel, Adolph, to Parsons Corp. Method of making mandrel sets for molded airfoils. 2,951,781, 9-6-60, Cl. 154-75.
- Toelkelt, Walter G., to Universal Oil Products Co. Water-soluble corrosion inhibitors. 2,923,599, 2-2-60, Cl. 21-2.7.
- Toelke, Lester W., to Great Lakes Carbon Corp. Dump bailer. 2,956,624, 10-18-60, Cl. 166-63.
- Toelke, Lester W., to Great Lakes Carbon Corp. Dump bailer. 2,956,625, 10-18-60, Cl. 166-63.
- Toeniskoetter, Richard H., and G. W. Schaeffer, to Olin Mathieson Chemical Corp. Sodium decaborane and method for its preparation. 2,921,833, 1-19-60, Cl. 23-14.
- Toepel, Florian C. Revolving hearth for a combustion chamber. 2,948,237, 8-9-60, Cl. 110-13.
- Toepfer, Edwin F. Identification band. 2,961,785, 11-29-60, Cl. 40-21.
- Toeppen, Thurston H.: See—  
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- Toeppen, Thurston H., to International Business Machines Corp. Decimal tabulation device. 2,926,769, 3-1-60, Cl. 197-178.
- Toews, Harvey R. Scraper blade attachment for a tractor. 2,947,097, 8-2-60, Cl. 37-155.
- Tofflemire, Benjamin F. Combination dental appliance defining a traction instrument and detachable clamping blocks for matrix bands. 2,964,847, 12-20-60, Cl. 32-63.
- Toggenburger, John, to Underwood Corp. Varied-feed escapement and adjunct mechanisms. 2,941,645, 6-21-60, Cl. 197-84.
- Toggenburger, John, to Underwood Corp. Carriage return and tabulating mechanism. 2,965,211, 12-20-60, Cl. 197-66.
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- Tognola, Tullio, to Bendix Aviation Corp. Electrical vibrator and method of making same. 2,946,874, 7-26-60, Cl. 200-90.
- Tohir, Anthony M., to United States Steel Corp. Carbon-faced conveyor roll for silicon steel strip. 2,950,097, 8-23-60, Cl. 263-6.
- Tohir, Anthony M., to United States Steel Corp. High temperature coil annealing furnace. 2,958,521, 11-1-60, Cl. 263-36.
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- Tokyo Shibaura Denki Kabushiki Kaisha: See—  
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- Toland, Wayne G., and K. M. Welch, to International Harvester Co. Ground wheel for implement. 2,923,362, 2-2-60, Cl. 172-212.
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- Tolin, Ernest D., to Phillips Petroleum Co. Indicating and control apparatus. 2,924,756, 2-9-60, Cl. 317—146.
- Tolins, Irwin S.: *See*—  
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- Tolkin, Morris. Device for winding cloth. 2,921,754, 1-19-60, Cl. 242—67.1.
- Tolkmath, Henry, to The Dow Chemical Co. Method for the manufacture of phosphorodichloridothioates. 2,922,814, 1-26-60, Cl. 260—461.
- Tolkmath, Henry, to The Dow Chemical Co. Organic compounds containing phosphorus and sulphur. 2,945,055, 7-12-60, Cl. 260—461.
- Tolkmath, Henry, to The Dow Chemical Co. O,O,O,O-tetraalkyl hexahydro-3,6-dioxo-s-tetrazine-1,4-ylene diphosphonothioate. 2,964,524, 12-13-60, Cl. 260—241.
- Tolkmath, Henry, to The Dow Chemical Co. Phosphorohydrazidothioates. 2,965,667, 12-20-60, Cl. 260—461.
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- Tollar, James E.: *See*—  
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- Tölle, Hans G.: *See*—  
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- Tolle, Karl: *See*—  
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- Tollefson, Robert D., to Collins Radio Co. Cooperative doppler frequency measuring system. 2,939,132, 5-31-60, Cl. 343—8.
- Tollefson, Tolkak. Fish lure guide. 2,933,848, 4-26-60, Cl. 43—43.13.
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- Tollison, Paul L., and C. L. Ricards, to Wood Newspaper Machinery Corp. Machine for casting printing plates. 2,944,306, 7-12-60, Cl. 22—3.
- Tolman, Edgar B., to United Conveyor Corp. Ash hopper. 2,955,878, 10-11-60, Cl. 302—52.
- Tolman, Edgar B., to United Conveyor Corp. Ash feed control. 2,955,879, 10-11-60, Cl. 302—52.
- Tolman, Edgar B., to United Conveyor Corp. Apparatus for feeding pulverulent material. 2,965,417, 12-20-60, Cl. 302—17.
- Tolsma, William A. Drum grabs. 2,924,484, 2-9-60, Cl. 294—87.
- Tolson, Clyde A. Sealing closure for bottles and other containers. 2,921,709, 1-19-60, Cl. 215—87.
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- Toman, James T.,  $\frac{1}{2}$  to D. H. Lipsey. Fluid pressure actuated reciprocating mechanism. 2,945,480, 7-19-60, Cl. 121—164.
- Tomaselli, Dominick S. Rectilinear guide mechanism for phonograph pickup arms. 2,948,538, 8-9-60, Cl. 274—23.
- Tomaszek, Edward P.: *See*—  
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- Tomat, August. Folding seat. 2,941,582, 6-21-60, Cl. 155—149.
- Tombu, Georges A. V. Apparatus for plastering walls by means of compressed air. 2,964,302, 12-13-60, Cl. 259—151.
- Tomek, John W. Portable collapsible shelter. 2,957,482, 10-25-60, Cl. 135—1.
- Tomek, Rudolph C. Boat fender. 2,960,055, 11-15-60, Cl. 114—219.
- Tomenceak, Arthur A.: *See*—  
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- Tomino, Koichi: *See*—  
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- Tomkins, David E., to Shenango China, Inc. Modular circuit segment structure. 2,948,301, 8-9-60, Cl. 138—81.
- Tomkins, David E., to Shenango China, Inc. Process for the manufacture of ceramic objects. 2,964,822, 12-20-60, Cl. 25—156.
- Tomkins, Josiah W. Trailer hitches. 2,933,332, 4-19-60, Cl. 230—475.
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- Tomko, Donald R., to Curtiss-Wright Corp. Engine starter mechanisms. 2,927,466, 3-8-60, Cl. 74—6.
- Tomkowiak, Sylvester A., to The Vilter Mfg. Co. Reciprocable piston gas compressor. 2,955,749, 10-11-60, Cl. 230—172.
- Tomlan, John G.: *See*—  
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- Tomlin, George M.: *See*—  
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- Tomlinson, Barnard E. Milkshake art. 2,941,885, 6-21-60, Cl. 99—54.
- Tomlinson, Horace, to General Motors Corp. Sewing machine attachment. 2,949,872, 8-23-60, Cl. 112—18.
- Tomlinson, Joseph R., and T. J. Kurtzweil, to Union Carbide Corp. Controlled loading electric switch. 2,952,754, 9-13-60, Cl. 200—86.
- Tomlinson, Terence B., to The General Electric Co. Ltd. Electrical switching arrangements. 2,947,874, 8-2-60, Cl. 250—208.
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- Tomlinson, William F., to The Stepan Chemical Co. Gas recovery. 2,938,927, 5-31-60, Cl. 260—607.
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- Tompkins, Edwin H. Therapeutic structure. 2,951,478, 9-8-60, Cl. 128—33.
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- Toms, Robert U., and A. J. Grose, to Johns-Manville Corp. Apparatus for and method of assuring the surface of a moving layer of wet fibrous mix capable of having fissures formed therein. 2,964,819, 12-20-60, Cl. 25—42.
- Tondreau, Albert W., to Warner Bros. Pictures, Inc. Travelling matte optical and contact printer. 2,964,995, 12-20-60, Cl. 88—24.
- Tonelli, Roger, to Radio Steel & Mfg. Co. Article conveyor and transfer mechanism. 2,949,996, 8-23-60, Cl. 198—25.
- Tonelli, Roger, and R. Chiaruttini, to Radio Steel & Mfg. Co. Mechanism for feeding steel disks or the like. 2,929,532, 3-22-60, Cl. 221—11.
- Toner, James W.: *See*—  
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- Toni, Pierre: *See*—  
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- Toniolo, Luciano, and G. Garbin. Pipe making machines. 2,937,701, 5-24-60, Cl. 162—284.
- Tonjes, Burl D., and R. A. Cline, to The Gilson Screen Co. Screening device and clamp means therefor. 2,959,285, 11-8-60, Cl. 209—319.
- Tonna, Arthur J.: *See*—  
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- Tonna, Arthur J., to Burgermeister Brewing Corp. Piggy-back carton stacker. 2,934,221, 4-26-60, Cl. 214—6.
- Toohig, Michael F., to International Telephone and Telegraph Corp. Method of increasing the thickness of fine mesh metal screens. 2,940,873, 6-14-60, Cl. 117—99.
- Toohig, Michael F., to International Telephone and Telegraph Corp. Method of making storage electrode for charge storage tube. 2,947,651, 8-2-60, Cl. 117—222.
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- Toomey, John A., and L. T. Clerical collar. 2,934,769, 5-3-60, Cl. 2—129.
- Toomey, John F., and E. M. Brown. Mine firing mechanism. 2,920,562, 1-12-60, Cl. 102—18.
- Toomey, John F., and E. M. Brown. Thermal controlled arming device for a mine. 2,961,958, 11-29-60, Cl. 102—16.
- Toomey, Lawrence T.: *See*—  
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- Toon, Ernest A.: *See*—  
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- Toone, Brian, to Rolls-Royce Ltd. Combustion stabilising device for combustion equipment. 2,964,907, 12-20-60, Cl. 60—39.72.
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- Tootelian, George D.: See—  
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- Tootle, James N., to General Motors Corp. Twin rotary actuator. 2,932,206, 4-12-60, Cl. 74-89.
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- Töpfer, Herbert, to Siemens and Halske Aktiengesellschaft Berlin and Munich. Control of the operation of switches in communication systems. 2,952,743, 9-13-60, Cl. 179-18.
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- Toplansky, John J. Neckties. 2,943,331, 7-5-60, Cl. 2-150.
- Topol, George J., to Bowser, Inc. Filter and vacuum dehydrator. 2,937,977, 5-24-60, Cl. 196-46.1.
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- Toppel, Otmar, to Firma Aschaffenburg Zellstoffwerke A.G. Neutralizing lignin-containing liquors. 2,949,448, 8-16-60, Cl. 260-124.
- Topsoe, Haldor F. A. Method of carrying out chemical reactions in the gaseous phase at high temperature by interaction with freely falling contact bodies present in the gaseous phase. 2,954,415, 9-27-60, Cl. 260-679.
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- Torbett, Hugh L. Automatic fishing reel. 2,942,800, 6-28-60, Cl. 242-84.3.
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- Torkildsen, Robert A., to General Electric Co. Voltage regulator. 2,956,172, 10-11-60, Cl. 307-31.
- Torn, Lawrence J., and J. P. Philbin, to Cutler-Hammer, Inc. Machine tool gaging and control. 2,932,134, 4-12-60, Cl. 51-165.
- Tornado-Ramset G.m.b.H. & Co.: See—  
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- Tornblom, Harald J. L., K. O. A. Pihl, and E. G. M. Hackzell, to Aktiebolaget Svenska Metallverken. Arrangement for the removal of the ingot surplus in indirectly operating extrusion presses. 2,925,908, 2-23-60, Cl. 207-1.
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- Torney, Franklin L., Jr.: See—  
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- Tornvall, Anton E. Hair-trimming implements. 2,955,355, 10-11-60, Cl. 30-30.
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- Torre, Alton J., to Radio Corp. of America. Color television matrix amplifier system. 2,927,957, 3-8-60, Cl. 178-5.4.
- Torre, Alton J., and J. L. Miller, to Radio Corp. of America. Current-stabilized, push-pull synchronous demodulator. 2,922,838, 1-26-60, Cl. 178-5.4.
- Torre, Pierluigi, and B. Primetti, to Innocenti Societe Generale per l'Industria Metallurgica e Meccanica. Battery charge regulator. 2,942,170, 6-21-60, Cl. 320-23.
- Torrelli, Frank. Tie bars for spacing curb forms. 2,948,943, 8-16-60, Cl. 25-118.
- Torres, Jorge U., to E. B. Wiggins Oil Tool Co., Inc. Coupling with automatically actuated cam sleeve. 2,952,482, 9-13-60, Cl. 285-313.
- Torres, Joseph H., to Hamilton Watch Co. Wire drawing machine. 2,940,588, 6-14-60, Cl. 205-16.
- Torrey, Robert D., to Sperry Rand Corp. Magnetic amplifiers. 2,929,938, 3-22-60, Cl. 307-88.
- Torrey, Robert D., to Sperry Rand Corp. Shift register. 2,958,075, 10-25-60, Cl. 340-174.
- Torrey, Samuel E.: See—  
Roffman, Eugene, Torrey, and Stryker. 2,938,162.
- Torrez, Adolfo L. Portable infra red ray cooking device. 2,957,973, 10-25-60, Cl. 219-35.
- Torrington Mfg. Co., The: See—  
Clark, Sidney F., Cowles, Marola, and White. 2,950,151.  
Franks, Edward E., Jr. 2,923,343.  
Franks, Edward E., Jr. 2,925,115.  
Froelich, Gustave H. 2,946,536.  
Hathaway, Charles A. 2,932,445.  
Hathaway, Charles A., and Klonoski. 2,929,549.
- Torsion Balance Co., The: See—  
Sklar, David P. 2,938,377.
- Torstenson, Stig A., and E. G. Emmert, to The Standard Register Co. Apparatus for determining absorption and liquid penetration of paper. 2,931,977, 4-5-60, Cl. 324-65.
- Tortli, Maurice L., Jr., National Research Corp. Carbide coated tungsten electrode. 2,952,573, 9-13-60, Cl. 148-31.5.
- Tortorella, Frank J., to The Merit Co. Portable spot welder. 2,961,527, 11-22-60, Cl. 219-90.
- Toruk, Nicholas: See—  
Meyer, Barthold F., and Toruk. 2,950,138.  
Tanaka, Akira, and Toruk. 2,959,208.
- Torwegge, Franz: See—  
Palm, Hermann. 2,936,007.
- Toscano, Charles P.: See—  
Moon, Edward W., 3rd, and Toscano. 2,942,517.
- Toscher, Sol, to General Electric Co. Method of forming integral finned sheathed heaters. 2,958,121, 11-1-60, Cl. 29-155.64.
- Toscony, Inc.: See—  
Jerothe, Rudolph A. 2,965,018.
- Tosswill, Christopher H.: See—  
Calder, Nigel D. R., Schagen, and Tosswill. 2,957,044.
- Totah, Nadim P., and F. M. Fulton, to United States of America, Navy. Methods and means for forming high-strength joints. 2,954,246, 9-27-60, Cl. 285-330.
- Totaro, Thomas C., and J. G. Sand, to Hercules Galion Products, Inc. Latch assembly for tall gates and the like. 2,949,327, 8-16-60, Cl. 292-26.
- Tote-Cart Co.: See—  
Welter, George I. 2,936,905.
- Toth, Louis. Wall facing. 2,960,195, 11-15-60, Cl. 189-34.
- Toth, Louis C., to International Harvester Co. Track roller mounting means for endless track vehicles. 2,926,968, 3-1-60, Cl. 305-1.
- Tothill, Gordon R. Variable pitch impellers and closure seals therefor. 2,956,739, 10-18-60, Cl. 230-270.
- Toton, Edward J., and A. S. Strzelewicz, to General Motors Corp. Apparatus for evaluating quenching media. 2,937,335, 5-17-60, Cl. 324-34.
- Totten, John A., to Industrial Vendors, Inc. Coffee-brewing apparatus. 2,931,288, 4-5-60, Cl. 99-289.
- Totten, John A., to Trilux Engineering, Inc. Liquid dispensing device. 2,962,193, 11-29-60, Cl. 222-145.
- Totten, Robert. Retractable landing gear for a boat. 2,929,079, 3-22-60, Cl. 9-1.
- Tottle, Charles R.: See—  
Kendall, James W., and Tottle. 2,956,000.
- Totzek, Friedrich, to Koppers Co., Inc. Processes for the production of combustible gases. 2,920,945, 1-12-60, Cl. 48-206.
- Totzek, Friedrich. Process of thermally cracking liquid hydrocarbons. 2,926,077, 2-23-60, Cl. 48-213.
- Touey, George P., to Eastman Kodak Co. Fibrous tobacco smoke filter. 2,928,399, 3-15-60, Cl. 131-208.
- Touey, George P., to Eastman Kodak Co. Fibrous tobacco smoke filters. 2,928,400, 3-15-60, Cl. 131-208.
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- Touey, George P., to Eastman Kodak Co. Manufacture of filamentary tobacco smoke filter. 2,956,329, 10-18-60, Cl. 28-72.
- Touey, George P., and H. E. Davis, to Eastman Kodak Co. Mixed esters of glucose and sucrose. 2,931,802, 4-5-60, Cl. 260-234.



- Touey, George P., and R. C. Mumpower, II., to Eastman Kodak Co. Polyolefin tobacco smoke filters. 2,966,157, 12-27-60, Cl. 131-208.
- Toulemonde, Jacques: *See*—  
Boulet, Francis, and Toulemonde, 2,943,231.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Sterilizer for septic tank effluents. 2,921,681, 1-19-60, Cl. 210-71.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Rocket press. 2,930,315, 3-29-60, Cl. 100-264.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Magnetic pump. 2,930,324, 3-29-60, Cl. 103-53.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Method and apparatus for pumping. 2,933,051, 4-19-60, Cl. 103-262.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Printing pastes. 2,933,403, 4-19-60, Cl. 106-22.
- Toulmin, Harry A., Jr., to Union Carbide Corp. Method and apparatus for utilizing hot and cold side of refrigeration for the dehydration of heat sensitive materials. 2,937,507, 5-24-60, Cl. 62-123.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Apparatus for forming solid structural members of glass fiber reinforced resin. 2,938,566, 5-31-60, Cl. 154-1.8.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Corp. Method and operation of blast furnaces and metallurgical fuels therefor. 2,938,782, 5-31-60, Cl. 75-41.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Gum confections and manufacture thereof. 2,938,797, 5-31-60, Cl. 99-134.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Icing composition. 2,938,798, 5-31-60, Cl. 99-139.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Dry pudding composition. 2,938,799, 5-31-60, Cl. 99-139.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Fuel comprising a mixture of ammonium nitrate and metal particles. 2,954,284, 9-27-60, Cl. 52-5.
- Toulmin, Harry A., Jr., to Union Carbide Corp. Method and apparatus for crystal production. 2,957,773, 10-25-60, Cl. 99-206.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Fire prevention system. 2,961,049, 11-22-60, Cl. 169-2.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Apparatus for making spherical pellets of magnesium. 2,965,922, 12-27-60, Cl. 18-2.5.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Machine for conditioning soil. 2,966,128, 12-27-60, Cl. 111-10.
- Toulmin and Toulmin: *See*—  
De Domenico, Michelangelo and G.-B. R., 2,965,436.
- Toulon, Pierre M. G., to Westinghouse Electric Corp. Solid state display screens. 2,938,135, 5-24-60, Cl. 313-108.
- Toulon, Pierre M. G., to Moore and Hall. Variable discontinuous interlaced scanning system. 2,940,005, 6-7-60, Cl. 315-21.
- Toulon, Pierre M. G., to Moore & Hall. Systems for separating and combining monochrome pictures. 2,951,895, 9-6-60, Cl. 178-5.4.
- Toulon, Pierre M. G. and F. T. Thompson, to Westinghouse Electric Corp. Image reproduction device. 2,921,211, 1-12-60, Cl. 313-70.
- Toulon, Pierre M. G., and F. T. Thompson, to Westinghouse Electric Corp. Television system. 2,939,909, 6-7-60, Cl. 178-6.8.
- Tour, Sam: *See*—  
Burgess, Louis, 2,956,868.
- Tour, Sam, to Sam Tour & Co., Inc. Radiography cassette. 2,922,047, 1-19-60, Cl. 250-88.
- Tour, Sam, & Co., Inc.: *See*—  
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- Touré, Kléber: *See*—  
Lauzely, Jean R., and Touré, 2,936,580.
- Tourre, Louis, and R. Mazoyer, to Vve Tourre et Cie. Closure caps for bottles and like containers. 2,963,189, 12-6-60, Cl. 215-39.
- Tousignant, William F.: *See*—  
Bakke, William W., and Tousignant, 2,930,716.  
Walles, Wilhelm E., and Tousignant, 2,946,772.  
Walles, Wilhelm E., and Tousignant, 2,946,773.  
Walles, Wilhelm E., and Tousignant, 2,948,708.
- Tousignant, William F., to The Dow Chemical Co. Pyrimidinone synthesis. 2,937,174, 5-17-60, Cl. 260-251.
- Tousignant, William F., and W. E. Wallis, to The Dow Chemical Co. Tobacco compositions. 2,941,907, 6-21-60, Cl. 131-17.
- Tousignant, William F., W. E. Wallis, and T. Houtman, Jr., to The Dow Chemical Co. Hair setting composition containing a ring substituted N-vinyl-2-oxazolidinone polymer. 2,948,656, 8-9-60, Cl. 167-87.1.
- Touson, Isaac. Earpiece. 2,934,160, 4-26-60, Cl. 181-23.
- Toussaint, Norbert F., and T. J. Agnostou, to T. F. Washburn Co. Method for determining end point of polyamide modified vehicle cooks. 2,962,461, 11-29-60, Cl. 260-22.
- Toussaint, Yves, to Shell Development Co. Production of controlled atmospheres and gas generator therefor. 2,924,577, 2-9-60, Cl. 252-373.
- Tout, John R., and E. Abby. Self-propelled curb finishing machine. 2,962,948, 12-6-60, Cl. 94-45.
- Toutant, William T., to Dravo Corp. Rotary hydraulic booster. 2,933,897, 4-26-60, Cl. 60-53.
- Touvay, Robert, to Sté Anonyme des Manufactures des Glaces et Produits Chimiques de St-Gobain. Grinding and polishing of glass sheets. 2,921,419, 1-19-60, Cl. 51-283.
- Touvay, Robert, and P. Tommy Martin, to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. Method and apparatus for polishing. 2,945,333, 7-19-60, Cl. 51-283.
- Towa Trading Co., Ltd.: *See*—  
Lipsitz, Robert J., 2,960,137.
- Tower, Henry M., to Worthington Corp. Enclosed motor-compressor unit. 2,963,218, 12-6-60, Cl. 230-206.
- Tower, Hubert L., to American Roller Die Corp. Induction welder. 2,933,582, 4-19-60, Cl. 219-8.5.
- Tower, Pierce, to Pierce Metal Products, Inc. Universal pick-up truck rack. 2,947,566, 8-2-60, Cl. 296-10.
- Towery, Jack D.: *See*—  
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- Towle, Allistair M.: *See*—  
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- Towle, Elton L.: *See*—  
Leopold, Wilbur R., and Towle, 2,950,683.
- Towle, George B.: *See*—  
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- Towle, George B., and J. W. Davis, to United Aircraft Corp. Jet silencer. 2,926,744, 3-1-60, Cl. 181-55.
- Towle, Robert E., Jr. Game. 2,954,978, 10-4-60, Cl. 273-126.
- Towler, Frank H., and J. M. Towler, deceased (F. H. Towler, executor), to Electraulic Presses Ltd. Unloading valves for hydraulic pumps. 2,947,317, 8-2-60, Cl. 137-108.
- Towler, John M.: *See*—  
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- Towles, Thomas, to Comoy's of London, Inc. Airtight tobacco pouch. 2,962,070, 11-29-60, Cl. 150-3.
- Towmotor Corp.: *See*—  
Farhi, Victor N., 2,961,075.  
Shaffer, Walter M., and Norris, 2,927,422.
- Towne, Allen N., to General Electric Co. Encapsulated stator and method of making the same. 2,961,555, 11-22-60, Cl. 310-43.
- Towne, Claude M., to General Metals Corp. Clutched handle for tool shanks. 2,950,746, 8-30-60, Cl. 145-77.
- Townend, Gordon H., and W. Horton, to G.K.N. Groups Services Ltd. Counter devices. 2,949,227, 8-16-60, Cl. 235-91.
- Townend, Robert V., and R. F. H. Stahl, to Allied Chemical Corp. Purification of UF<sub>6</sub>. 2,953,431, 9-20-60, Cl. 23-14.5.
- Towner, George H., to Northrop Corp. Signal frequency converter. 2,963,660, 12-6-60, Cl. 332-52.
- Towner, Raymond J.: *See*—  
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- Townes, Charles H.: *See*—  
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- Townley, Charles O., to Zimmer Mfg. Co. Femoral intramedullary prosthesis. 2,934,065, 4-26-60, Cl. 128-92.
- Townley, Edward R., to Schering Corp. Novel steroid intermediates. 2,954,374, 9-27-60, Cl. 260-239.55.
- Townley, Eustace R.: *See*—  
Tyler, Frank, Townley, and Wikkenhauser, 2,956,494.
- Townley, Eustace R., and H. L. Frost, to Kelvin & Hughes Ltd. Processing of photographic material. 2,961,938, 11-29-60, Cl. 95-89.
- Towns, Edward J., to Minnesota Mining and Mfg. Co. Container caps and methods for making them. 2,942,747, Cl. 6-28-60, Cl. 215-46.
- Towns, Edward J., to B. W. Griffin. Closure for poison bottles. 2,964,207, 12-13-60, Cl. 215-9.
- Townsend Co.: *See*—  
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- Townsend Corp.: *See*—  
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- Townsend, Elmer D., Jr., and R. A. Hoffmann, to Gibson Art Co. Display mount sheet for greeting cards. 2,935,807, 5-10-60, Cl. 40-158.
- Townsend Engineered Products, Inc.: *See*—  
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- Townsend, Franklin L., to Barber-Colman Co. Skewer for winding machine. 2,954,183, 9-27-60, Cl. 242-129.7.
- Townsend, John P.: *See*—  
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- Townsend, Jonathan, to Radiation Dynamics, Inc. Cathode heating apparatus. 2,953,717, 9-20-60, Cl. 315-97.
- Townsend, Richard W. Arming mechanism for a depth charge. 2,961,956, 11-29-60, Cl. 102-7.
- Townsend, Samuel J., to Chance Vought Aircraft, Inc. Means for improving total pressure distribution and value in air supplied to a jet engine. 2,925,711, 2-23-60, Cl. 60-35.6.
- Townsend, Stephen E., to General Dynamics Corp. Reversible magnetic shift register. 2,946,987, 7-26-60, Cl. 340-174.
- Townsend, Stephen E., and R. H. Rugaber, to General Dynamics Corp. Multiple delay circuit. 2,933,625, 4-19-60, Cl. 307-88.5.
- Townsend, William C., and J. L. Upp. Automatic pivotal weighing scale. 2,924,443, 2-9-60, Cl. 265-27.



- Townshend, Henry H., Jr., to J. T. Henry Mfg. Co., Inc. Crimper with full stroke compelling ratchet mechanism. 2,931,280, 4-5-60, Cl. 81-15.
- Townshend, Stanley C.: See—
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- West, De Witt H., Townshend, and Simpson. 2,948,525.
- Townsley, Malcolm G., to Bell & Howell Co. Slide holder. 2,958,970, 11-8-60, Cl. 40-152.
- Towse, Ellsworth M. Combination chair and table. 2,964,098, 12-13-60, Cl. 155-123.
- Towt, Donald G. Pendulum cultivating tool. 2,943,690, 7-5-60, Cl. 172-376.
- Toy, Arthur D. F., and K. H. Rattenbury, to Victor Chemical Works. Chloromethanephosphonic acid esters. 2,922,810, 1-26-60, Cl. 260-461.
- Toy, Arthur D. F., K. H. Rattenbury, and T. M. Hinkes, to Victor Chemical Works. Heat stabilized vinyl chloride resin plastisols. 2,946,764, 7-26-60, Cl. 260-457.
- Toy, Arthur D. F., and K. H. Rattenbury, to Victor Chemical Works. Dicyesyl monochloromethanephosphonate. 2,960,522, 11-15-60, Cl. 260-461.
- Toy Ideas, Inc.: See—
- Beebe, Herbert R. 2,942,377.
- Toyad Corp.: See—
- Morris, Harold B. 2,933,768.
- Toye, Trevor C., to The British Iron & Steel Research Association. Method of tinning steel strip. 2,937,108, 5-17-60, Cl. 117-51.
- Toyo Boseki Kabushiki Kaisha: See—
- Aono, Hideo, and Isono. 2,964,802.
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- Traben, Josef. Common drive for raising the top feed rollers and advancing the rollers of frame saws. 2,961,017, 11-22-60, Cl. 143-84.
- Trace, Herbert D. Surgical drainage apparatus. 2,936,757, 5-17-60, Cl. 128-276.
- Tracerlab, Inc.: See—
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- Faulkner, William H., Jr., and Ellis. 2,966,587.
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- Harris, Sigmund P. 2,964,634.
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- Tracey, John E., and E. L. Wheeler, to Bendix Aviation Corp. Adjustable machine tool fixture for welding electrodes and the like. 2,938,995, 5-31-60, Cl. 219-82.
- Tracey, Richard D. Detachable low bed trailer. 2,934,230, 4-26-60, Cl. 214-506.
- Tracht, Joseph H., and J. K. Rodgers, to Gulf Research & Development Co. Variable volume cell. 2,966,055, 12-27-60, Cl. 73-17.
- Trachtman, Eugene. Panoramic camera. 2,927,517, 3-8-60, Cl. 95-15.
- Tracy, Dwight A., 1/4 to A. F. Katzentine. Bathing enclosure. 2,936,463, 5-17-60, Cl. 4-149.
- Tracy, George W. String powered vehicle toy. 2,941,332, 6-21-60, Cl. 46-202.
- Tracy, Glen M., to Swance Paper Corp. Apparatus for perforating sheets. 2,939,356, 6-7-60, Cl. 83-337.
- Tracy, Herbert E., to Borg-Warner Corp. Packing means for high pressure mechanical seals. 2,928,685, 3-15-60, Cl. 286-114.
- Tracy, Herbert E., to Borg-Warner Corp. Self-adjusting seal. 2,930,636, 3-29-60, Cl. 286-114.
- Tracy, Herbert E., to Borg-Warner Corp. Mechanical seal for liquid oxygen pump. 2,949,321, 8-16-60, Cl. 286-9.
- Tracy, Herbert E., to Borg-Warner Corp. Mechanical seal assembly. 2,963,306, 12-6-60, Cl. 286-8.
- Tracy, James F., to General Electric Co. Electric capacitor and dielectric material therefor. 2,947,927, 8-2-60, Cl. 317-258.
- Tracy, John A., to The Loewy Engineering Co. Ltd. Coiling or de-coiling apparatus for metal strip with collapsible drum. 2,936,132, 5-10-60, Cl. 242-78.1.
- Tracy, Michael J. Closure-operators. 2,945,267, 7-19-60, Cl. 20-42.
- Tracy, Oliver H.: See—
- Jones, Eynon, and Tracy. 2,950,200.
- Tracy, Ward D., and C. A. Dasney, to Southwest Products Co. Articulated conduit. 2,921,803, 1-19-60, Cl. 285-262.
- Trademan, Leo, M. A. Malina, and L. P. Wilks, to Velsicol Chemical Corp. Insecticide formulations and method of making same. 2,927,882, 3-8-60, Cl. 167-22.
- Traeger, William V., to Otis Engineering Corp. Method for the production of animated pictures. 2,958,257, 11-1-60, Cl. 88-16.
- Traffic and Street Sign Co.: See—
- Pfaff, Henry C., Jr., and Siver. 2,942,366.
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- Träger, Heinrich: See—
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- Trailerack Transit, Inc.: See—
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- Black, James J. 2,936,912.
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- Trainer, Richard P., to Shell Oil Co. Production of high octane motor fuel with an alkyl ether additive. 2,952,612, 9-13-60, Cl. 208-67.
- Traise, Thornton, W. L. Hayne, Jr., and K. R. Bunting, to Standard Oil Co. Method of preparing ureido grease-thickener concentrate and lubricating greases containing same. 2,925,387, 2-16-60, Cl. 252-51.5.
- Traise, Thornton P., and E. N. Walsh, to Victor Chemical Works. Method of making trichloromethylphosphonic dichloride. 2,924,560, 2-9-60, Cl. 204-158.
- Traite, Max, W. W. O'Hara, and W. Lakatos, to Gulton Industries, Inc. Catheter pressure gauge. 2,959,056, 11-8-60, Cl. 73-398.
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- Leitner, Murray L., and Traksel. 2,958,188.
- Traksel, Johan, to Lockheed Aircraft Corp. Air speed measuring device for aircraft. 2,952,154, 9-13-60, Cl. 73-182.
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- Smith, Kenneth F., and Trame. 2,956,359.
- Trammell, Earl M., Jr. Protective device for latch-conditioning elements. 2,939,307, 6-7-60, Cl. 70-181.
- Trammell, Earl M., Jr. Safety door locks. 2,939,308, 6-7-60, Cl. 70-210.
- Trammell, Earl M., Jr. Devices for guarding latch conditioning elements. 2,955,858, 10-11-60, Cl. 292-1.
- Trampier, Charles R.: See—
- Rodgers, Warren, and Trampier. 2,956,859.
- Trane Co., The: See—
- Butt, Alan G. 2,961,222.
- Coe, Robert B. 2,926,837.
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- Westcott, Vernon C., and Williams. 2,955,172.
- Traphagen, Peter A. Hand stamp for cancelling postage stamps and the like. 2,957,410, 10-25-60, Cl. 101-110.
- Trapp, Carl A. Load supporting pallet. 2,942,825, 6-28-60, Cl. 248-120.
- Trapp, Robert L., to Outboard Marine Corp. Starter-controlled engine compression relief. 2,947,300, 8-2-60, Cl. 123-182.
- Trask, Allen, to International Heater Co. Air cooled condensing unit. 2,920,464, 1-12-60, Cl. 62-428.
- Traub, Eberhardt: See—
- Maylandt, Helmut, and Traub. 2,934,687.
- Traulsen, Harry. Portable sectional skating rinks. 2,957,319, 10-25-60, Cl. 62-235.
- Trautman, Charles E.: See—
- Rocchini, Albert G., and Trautman. 2,949,008.
- Rocchini, Albert G., and Trautman. 2,966,029.
- Trautman, De Forest L., A. Rosenbloom, and J. Heilfron, to The Regents of the University of California. Continuous-variable electronic traffic simulator. 2,951,295, 9-6-60, Cl. 35-10.2.
- Trautman, William H.: See—
- Kaufman, Charles E., and Trautman. 2,964,024.
- Trautmann, Herbert L.: See—
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- Sandler, Jack. 2,930,150.
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- Dubois, Jacques. 2,951,914.
- Travers Welding Co., Inc.: See—
- Kuniholm, Hugo M. 2,928,146.



- Traverso, Nello R., to Monsanto Chemical Co. Protective coating composition containing (1) a volatile nitrogenous base salt of an interpolymers of conjugated 1,3-diene and acrylic or methacrylic acid and (2) a water-soluble amino-plast resin and method of protecting steel therewith. 2,952,564, 9-13-60, Cl. 117-75.
- Travilla, James C., to General Steel Castings Corp. Railway vehicle truck. 2,931,318, 4-5-60, Cl. 105-194.
- Travilla, James C., to General Steel Castings Corp. Railway vehicle structure. 2,934,028, 4-26-60, Cl. 105-199.
- Travilla, James C., and J. J. Zach, to General Steel Castings Corp. Railway motor trucks. 2,945,456, 7-19-60, Cl. 105-188.
- Travis, Dexter D., Sr. Conversion unit for inboard motor boats. 2,923,270, 2-2-60, Cl. 115-41.
- Travis, Orland B.: See—  
Weide, Ralph L., Maxwell, and Travis. 2,956,778.
- Traylor, Charles H., Jr. Rocket and satellite toy apparatus. 2,946,151, 7-26-60, Cl. 46-74.
- Traylor, Teddy G.: See—  
Stanton, George W., and Traylor. 2,959,565.
- Traynor, Edward J., Jr., to Westinghouse Electric Corp. Flexible bonded mica insulation. 2,949,150, 8-16-60, Cl. 154-26.
- Trbojevic, Nikola J. Method of gear shaving. 2,936,678, 5-17-60, Cl. 90-1.6.
- Trea-Boye Corporation, The: See—  
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- Treadwell, Cyril G., to International Standard Electric Corp. Electric pulse code modulation systems. 2,960,574, 11-15-60, Cl. 179-15.6.
- Treanor, Edward D., to General Electric Co. Method of making magnetic cores. 2,960,756, 11-22-60, Cl. 29-155.58.
- Treat, John W., Jr., to Olin Mathieson Chemical Corp. Projectile propelling system. 2,922,341, 1-26-60, Cl. 89-7.
- Treat, Lyle G., and D. J. Levy, to The Dow Chemical Co. Prevention of discoloration of magnesium in high temperature wrought operation. 2,929,752, 3-22-60, Cl. 148-4.
- Treiblock, Anna E. Infant's swivel chair. 2,920,685, 1-12-60, Cl. 155-69.
- Treibitsch, Guido. Punch press. 2,953,043, 9-20-60, Cl. 76-12.
- Trechsel, Hans W., to Gisholt Machine Co. Analog simulator. 2,952,500, 9-13-60, Cl. 346-17.
- Treclokas, Jacob P., to Scovill Mfg. Co. Synchro-centering automatic table or gauge. 2,951,607, 9-6-60, Cl. 218-6.
- Treclokas, Jacob P., to Scovill Mfg. Co. Envelop fastener machine. 2,953,275, 9-20-60, Cl. 218-6.
- Treclokas, Jacob P., to Scovill Mfg. Co. Machine for setting fasteners. 2,961,660, 11-29-60, Cl. 1-108.
- Tredwell, Gilman, to George Koch Sons, Inc. Conveyor systems. 2,928,356, 3-15-60, Cl. 104-89.
- Treff, Conrad C., and R. Z. Hague, to Rockwell Mfg. Co. Meters. 2,921,468, 1-19-60, Cl. 73-258.
- Treffelsen, Donal R.: See—  
Clement, Warren F., and Treffelsen. 2,953,327.
- Tregay, John L.: See—  
Fowle, Wallace R., Tregay, and Du Bois. 2,942,877.
- Tregilgas, Harold R. Pill dispenser. 2,943,730, 7-5-60, Cl. 206-42.
- Treiber, Kenneth L. Carrying device. 2,937,832, 5-24-60, Cl. 248-19.
- Trela, Joseph F. Detachable top lift. 2,937,461, 5-24-60, Cl. 36-36.
- Tremba, David E., to Thompson Ramo Wooldridge Inc. Marking device. 2,939,389, 8-7-60, Cl. 101-232.
- Tremco Mfg. Co., The: See—  
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- Trench, Anthony B.: See—  
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- Trent, Daniel V., to International Harvester Co. Pallet construction with wire strap stringer ties. 2,931,610, 4-5-60, Cl. 248-120.
- Trentacosti, Joseph J. Concrete construction form. 2,937,430, 5-24-60, Cl. 25-118.
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- Trenton Corp., The: See—  
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- Trenton Times Corp.: See—  
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- Trepp, Christian, to Sulzer Freres, S.A. Gas purification method. 2,958,203, 11-1-60, Cl. 62-12.
- Treshow, Michael, to United States of America, Atomic Energy Commission. Superheating in a boiling water reactor. 2,938,845, 5-31-60, Cl. 204-154.2.
- Treshow, Michael, to United States of America, Atomic Energy Commission. Loading and unloading device. 2,949,202, 8-16-60, Cl. 214-658.
- Tress, John J.: See—  
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- Trevaskis, Henry W., to Dunlop Rubber Co. Ltd. Resilient wheel for railway vehicles. 2,921,811, 1-19-60, Cl. 295-12.
- Trevaskis, Henry W., to Dunlop Tire and Rubber Corp. Apparatus for continuously coating a cord with rubber or other thermoplastic material. 2,928,122, 3-15-60, Cl. 18-13.
- Trevaskis, Henry W., to Dunlop Rubber Co. Ltd. Fluid pressure system and leveling valve for vehicle suspension. 2,964,333, 12-13-60, Cl. 280-124.
- Trevaskis, Henry W., and F. J. Knight, to Dunlop Rubber Co. Ltd. Brake discs. 2,933,162, 4-19-60, Cl. 188-218.
- Trevaskis, Henry W., and J. M. Lowe, to Dunlop Rubber Co. Ltd. Tire building apparatus. 2,943,668, 7-5-60, Cl. 154-10.
- Trevett, John A.: See—  
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- Trevor, Betram A., to Radio Corp. of America. Automatic gain control circuit with double time constant. 2,957,074, 10-18-60, Cl. 250-20.
- Trexler, Harold L. Insect deterrents containing staphasagria. 2,939,816, 6-7-60, Cl. 167-55.
- Trexler, Robert C., to Daystrom, Inc. Directional tachometer generator. 2,962,658, 11-29-60, Cl. 324-70.
- Triad Transformer Corp.: See—  
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- Triangle Conduit & Cable Co., Inc.: See—  
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- Tribbett, Murray C.: See—  
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- Tribble, Talmadge B. Flavored sweetener for livestock feed products. 2,932,571, 4-12-60, Cl. 99-2.
- Tribe, Thomas F., to British Federal Welder and Machine Co. Ltd. Welding cables. 2,941,023, 6-14-60, Cl. 174-15.
- Tribken, Everett R.: See—  
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- Tri-Chem, Inc.: See—  
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- Trick, Kuno. Setting gear for an alarm watch. 2,958,996, 11-8-60, Cl. 58-57.5.
- Trick, Wilkins M., Jr. Book and pamphlet holder. 2,921,402, 1-19-60, Cl. 45-57.
- Trickett, Marion C. 4% to L. V. Bryant, 8% to G. Rottner, 8% to R. W. Hoffman, 16% to N. F. Thomas, and 4% to E. Bochinski. Pistol grip operating device for a motion picture camera. 2,933,976, 4-26-60, Cl. 88-16.
- Tricent Hosiery Mills, Inc.: See—  
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- Trico Machine Products Corp.: See—  
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- Olshei, John R. 2,927,337.
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- Triebwasser, Sol, to International Business Machines Corp. Method of preparation of single crystal ferroelectrics. 2,954,300, 9-27-60, Cl. 106-39.
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- Trifonoff, George T., to Boeing Airplane Co. Aircraft flap mechanism. 2,948,493, 8-9-60, Cl. 244-42.
- Trifunovic, Alexander L.: See—  
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- Trillex Engineering, Inc.: See—  
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- Triller, Ralph E.: See—  
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- Trimman, Eugene L., and W. Hochwald, to North American Aviation, Inc. Binary-to-decimal converter and adder. 2,923,471, 2-2-60, Cl. 235-153.
- Trimble, Ceborn B., to The National Cash Register Co. Reversible electronic accumulators. 2,919,855, 1-5-60, Cl. 235-173.
- Trimble, Ceborn B., to The National Cash Register Co. Magnetic storage of multiple totals. 2,931,571, 4-5-60, Cl. 235-173.
- Trimble, Ceborn B., to The National Cash Register Co. Record tape supply means. 2,943,853, 7-5-60, Cl. 271-2.17.
- Trimble, Ceborn B., to The National Cash Register Co. Record tape take-up means. 2,946,530, 7-26-60, Cl. 242-55.11.
- Trimble, Richard H., to Northrop Corp. Dual field optical system. 2,923,202, 2-2-60, Cl. 88-57.
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- Tripp Research Corp.: *See*—  
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- Tripp, Robert W., to Inductosyn Corp. Tool radius correction computer utilizing a resolver. 2,933,244, 4-19-60, Cl. 235-61.
- Tripp, Robert W., to Inductosyn Corp. Zero offset for machine tool control. 2,950,427, 8-23-60, Cl. 318-19.
- Tripp, Robert W., to Inductosyn Corp. Rotary position measuring transformer. 2,964,721, 12-13-60, Cl. 336-30.
- Tripp, Roland A.: *See*—  
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- Tripp, Russell M., to Tripp Research Corp. Method of beneficiating uranium ores by forming ferromagnetic uranium values and magnetically separating same. 2,965,440, 12-20-60, Cl. 23-14.5.
- Trippensee, Herbert O. and R. E., to Trippensee Planetarium Co. Planetarium. 2,963,798, 12-13-60, Cl. 35-45.
- Trippensee Planetarium Co.: *See*—  
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- Tripplehorn, James C. Opposed slot scraper and guide. 2,928,472, 3-15-60, Cl. 166-176.
- Tripplehorn, James C. Opposed-slot spiral scrapers. 2,928,473, 3-15-60, Cl. 166-176.
- Trischka, John W., to United States of America, Navy. Electric resonance voltage standard. 2,959,683, 11-8-60, Cl. 307-63.
- Triscoll, Louis R., H. L. Muller, Jr., and T. Q. Ciccone, to United States of America, Army. Explosive cartridge. 2,946,284, 7-26-60, Cl. 102-39.
- Triteline, Charles F.: *See*—  
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- Troche, Herman J., to J. H. Holan Corp. Earth-boring apparatus. 2,959,398, 11-8-60, Cl. 255-19.
- Troche, Herman J., to J. H. Holan Corp. Ladder operating apparatus. 2,966,227, 12-27-60, Cl. 182-66.
- Troche, Herman J., and W. C. Webb, to J. H. Holan Corp. Mobile aerial tower and control. 2,949,741, 8-23-60, Cl. 60-97.
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- Troha, Louis J. Racing toy. 2,952,942, 9-20-60, Cl. 46-243.
- Trojan Powder Co.: *See*—  
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- Trojanowski, George, and L. Brandt, to Oceana International, Inc. Process for the manufacture of molded articles. 2,962,764, 12-6-60, Cl. 18-55.
- Trojanowski, George, and L. Brandt, to Oceana International, Inc. Molding process. 2,962,767, 12-6-60, Cl. 18-58.
- Troland, Edwin P., to Bird Machine Co. Centrifugal separator. 2,925,177, 2-16-60, Cl. 209-211.
- Troland, Edwin P., to Bird Machine Co. Centrifugal separator. 2,931,504, 4-5-60, Cl. 209-211.
- Troland, Edwin P., to Bird Machine Co. Apparatus for clearing restricted orifice. 2,953,248, 9-20-60, Cl. 210-251.
- Troll, William A., to Emsig Mfg. Co. Methods for holding buttons for sewing and holding means therefor. 2,934,032, 4-26-60, Cl. 112-262.
- Troller, Robert J.: *See*—  
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- Tronnier, Albrecht W., to Voigtlander, A.G. Viewfinder for photographic cameras. 2,919,623, 1-5-60, Cl. 88-1.5.
- Tronnier, Albrecht W., to Farrand Optical Co., Inc. High speed photographic objective with large field of view. 2,923,203, 2-2-60, Cl. 88-57.
- Tronnier, Albrecht W., to Farrand Optical Co., Inc. Photographic objective lens of high speed with wide field of view. 2,955,513, 10-11-60, Cl. 88-57.
- Tronslin, Cyril B., to Ampex Corp. Tape reel mounting. 2,960,278, 11-15-60, Cl. 242-68.3.
- Troost, Albert, to Telefunken G.m.b.H. Directional antenna systems. 2,939,140, 5-31-60, Cl. 343-724.
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- Trosin, Albinus A.: *See*—  
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- Trost, Eugen. Cultivating tool. 2,928,483, 3-15-60, Cl. 172-378.
- Trostler, Richard M., to General Dynamics Corp. Gas tube switch. 2,947,913, 8-2-60, Cl. 315-238.
- Trott, Arthur R. Flat tire signaling system for use on wheel trucks or trailer houses. 2,957,058, 10-18-60, Cl. 200-61.22.
- Trott, Arthur R. Trailer skirts. 2,961,255, 11-22-60, Cl. 280-150.
- Trott, Frank R., to Electric & Musical Industries Ltd. Pick-up devices for colour television. 2,938,074, 5-24-60, Cl. 178-5.4.
- Trott, Robert O.: *See*—  
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- Trott, William A. Illuminated bathroom fixture. 2,927,198, 3-1-60, Cl. 240-4.1.
- Trott, Winfield J., to United States of America, Navy. Low-frequency underwater sound flexure mode ring drive transducer. 2,961,635, 11-22-60, Cl. 340-8.
- Trotta, Francis D., to General Electric Co. Automatic coil winding machine. 2,947,488, 8-2-60, Cl. 242-9.
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- Trotter, Frederick J., R. B. Montgomery, L. T. Work, and G. Naeser, 1/2 to Mannesmann Aktiengesellschaft, and 1/2 to Chemetals Corp. Hot rolling of metal powder. 2,935,402, 5-3-60, Cl. 75-221.
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- Troutman, Louis G., to The Babcock & Wilcox Co. Gas recirculation method and apparatus for superheat control with cold air fan static control. 2,936,742, 5-17-60, Cl. 122-479.
- Trovato, Charles. Yieldable detachable fastener. 2,925,672, 2-23-60, Cl. 36-50.
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- Troxel Mfg. Co.: *See*—  
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- Troyer, William J., to Schwitzer Corp. Tuned viscous vibration damper. 2,939,338, 6-7-60, Cl. 74-574.
- Troyer, William J., to Schwitzer Corp. Elliptical vibration damper. 2,948,129, 8-9-60, Cl. 64-11.
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- Trudeau, Urban P., to Owens-Illinois Glass Co. Apparatus for delivering mold charges to a forming machine. 2,926,457, 3-1-60, Cl. 49—5.
- Trudnak, Michael J., Jr., and K. P. Branscombe. Motor vehicle radio antenna. 2,964,746, 12-13-60, Cl. 343—713.
- True, Augustus S., to Sealectro Corp. Coupling for coaxial cables. 2,937,360, 5-17-60, Cl. 339—177.
- True, Charles H., Jr., to Spotnails, Inc. Staple or like fastener driving machine. 2,921,314, 1-19-60, Cl. 1—49.
- True, Harris G.: *See*—  
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- True, Martin E., to Jersey Production Research Co. Well logging tool fluid displacer. 2,935,615, 5-3-60, Cl. 250—83.6.
- True, Martin E., to Jersey Production Research Co. Fluid meter. 2,959,055, 11-8-60, Cl. 73—224.
- True, Martin B., and G. Boer, to Jersey Production Research Co. Wireline plugging device. 2,942,666, 6-28-60, Cl. 166—135.
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Cavagnaro, William A., Judd, Krystyniak, and Truesdell. 2,958,016.
- Truesdell, Francis W., and G. O. Baker, to General Electric Co. Time switch with omitting mechanism. 2,922,853, 1-26-60, Cl. 200—38.
- Truesdell, Robert E., and B. S. Jones, to T & J Corp. Finishing beading or molding. 2,954,310, 9-27-60, Cl. 154—43.
- Truesdell, Stanley E., and N. Kerimly, to Dura-Vent Corp. Multiple wall pipe. 2,959,196, 11-8-60, Cl. 138—63.
- Truett, William L.: *See*—  
Robinson, Ivan M., Rombach, and Truett. 2,932,630.
- Trufanoff, Dorie I., to Burroughs Corp. Aircraft landing aid. 2,958,847, 11-1-60, Cl. 340—26.
- Tru-Fit Screw Products Corp.: *See*—  
Becka, Paul N. 2,921,164.
- Trujillo Valdespino, Jose O. Feeding control for cigar machines. 2,945,498, 7-19-60, Cl. 131—21.
- Trulaske, Frank R. Bottle vending machines. 2,922,546, 1-26-60, Cl. 221—133.
- Trulsson, Sven I.: *See*—  
Munck af Rosenschöld, John R., and Trulsson. 2,963,884.
- Trulsson, Sven I., to Atlas Copco Aktiebolag. Screw-rotor compressor. 2,935,247, 5-3-60, Cl. 230—143.
- Trum, Franz, W. Seifert, and F. Faulhaber, to Voigtlander A.G. Adjusting device for photographic cameras. 2,929,307, 3-22-60, Cl. 95—64.
- Trump, Frederic L., to Republic Aviation Corp. Retractable receptacle for flight refueling. 2,938,688, 5-31-60, Cl. 244—135.
- Trump, Frederick O., to Tecnifax Corp. Dry type printer developer apparatus. 2,933,997, 4-26-60, Cl. 45—77.5.
- Trump, John G.: *See*—  
Cloud, Robert W., and Trump. 2,925,504.
- Van de Graaff, Robert J., and Trump. 2,931,903.
- Van de Graaff, Robert J., and Trump. 2,945,141.
- Trümper, Konrad, to Siegner Eisenbahnbedarf Aktiengesellschaft. Hydro-pneumatic suspensions for vehicles, particularly railway rolling stock. 2,930,606, 3-29-60, Cl. 267—3.
- Trümper, Konrad, and F. Schneider, to Rhein Stahl Siegner Eisenbahnbedarf A.G. Double-acting hydraulic jack. 2,933,070, 4-19-60, Cl. 121—46.
- Trumpio, Frank P., to Textile Machine Works. Yarn tensioning means for knitting machines. 2,929,233, 3-22-60, Cl. 66—86.
- Trumpio, Frank P., to Textile Machine Works. Fabric tensioning means for knitting machines. 2,941,387, 6-21-60, Cl. 66—147.
- Trumpler, Henry A., to General Electric Co. Interlocking mechanism for enclosed circuit control. 2,930,940, 3-29-60, Cl. 317—99.
- Trurnit, Hans J., L. P. Zill, and G. Colmano, to The Martin Co. Method for isolating and crystallizing chlorophyll. 2,940,981, 6-14-60, Cl. 260—314.
- Tru-Scal, Inc.: *See*—  
Pelley, Perry H. 2,923,109.
- Trusler, Frederick W.: *See*—  
Hearn, William R., MacLean, and Trusler. 2,920,045.
- Truslow, James L.: *See*—  
Ingraham, Garfield B., and Truslow. 2,934,796.
- Trussell, Alec: *See*—  
Knight, Lorin, and Trussell. 2,932,450.
- Truth Tool Co.: *See*—  
Stavenau, Harold L. 2,950,509.
- Trylon Chemicals, Inc.: *See*—  
Pedlow, George W., Jr., and Thompson. 2,922,380.
- Tryon, David H., 9½% to E. E. Lonabaugh, 9% to L. Kirkland, 5% to G. S. Gwinn, 7% to R. Jurosek, 7% to M. G. Jurosek, 5% to B. Nelson, and 6% to M. E. and B. E. Krohn. Multi-stage centrifugal compressor. 2,947,468, 8-2-60, Cl. 230—119.
- Tryon, John G., to Bell Telephone Laboratories, Inc. Redundant logic circuitry. 2,942,193, 6-21-60, Cl. 328—92.
- Tryon, John G., to Bell Telephone Laboratories, Inc. Switching circuits. 2,950,461, 8-23-60, Cl. 340—147.
- Tsai, Hong-Ji: *See*—  
Hahn, Emil H., and Tsai. 2,928,504.
- Kershner, Osborn A., and Tsai. 2,938,607.
- Tsang, Sien M., and A. W. Joyce, to American Cyanamid Co. Certain 4-(4-alkylamino-1-anthraquinonylamino)-1-alkylpyridinium salts and corresponding quinolinium compounds. 2,930,793, 3-29-60, Cl. 260—272.
- Tsang, Sien M., C. E. Lewis, and A. P. Paul, to American Cyanamid Co. Aryl-hydrazino-pyridines. 2,938,908, 5-31-60, Cl. 260—295.
- Tschermak, Manfred: *See*—  
Siehling, Georg, Tschermak, and Kafka. 2,924,633.
- Tscherne, Alois. Embroidery cutting machine with means for varying the tension on the web. 2,959,079, 11-8-60, Cl. 83—72.
- Tschiegg, Carroll E., to United States of America, Commerce. Gated beam tube relaxation oscillator. 2,922,121, 1-19-60, Cl. 331—152.
- Tschirner, Henry J.: *See*—  
Redemann, C. Ernst, and Tschirner. 2,923,618.
- Tschmelitsch, Florian. Portable flexible sluice box. 2,923,410, 2-2-60, Cl. 209—506.
- Tschudy, Donald B., to Goodyear Aircraft Corp. Thrust reverser nozzle. 2,919,545, 1-5-60, Cl. 60—35.54.
- Tsiang, Sih H.: *See*—  
Mishelevich, Benjamin, and Tsiang. 2,964,617.
- Tsiguloff, George N., to Tokheim Corp. Submerged motor pump. 2,921,532, 1-19-60, Cl. 103—103.
- Tsu, Ignatius: *See*—  
Fischer, Robert D., Sallo, and Tsu. 2,945,217.
- Tsuchiya, Takuzo: *See*—  
Long, George, and Tsuchiya. 2,951,581.
- Tsuji, Shigeru: *See*—  
Kusama, Hidetoshi, and Tsuji. 2,955,743.
- Tsukada, Yasuzo: *See*—  
Nagasawa, Fujio, Takagi, Yokoi, Sato, Mangyo, Ensake, Okamoto, and Tsukada. 2,939,817.
- Tsunoda, Kenneth, to American Messer Corp. Process and apparatus for producing liquid oxygen. 2,924,078, 2-9-60, Cl. 62—38.
- Tsunoda, Toshinao: *See*—  
Ogawa, Tetsuo, Tsunoda, Aoki, Kinoshita, Okumara, and Kondo. 2,940,903.
- Tsutsumi, Shigeru. Process for producing polyethylene. 2,965,628, 12-20-60, Cl. 260—94.9.
- Tubbs, Bernard H.: *See*—  
Roche, Arthur F., Tubbs, and Jones. 2,941,977.
- Tubbs, Irl. Multiple chamber pneumatic tire and inflating means therefor. 2,964,084, 12-13-60, Cl. 152—341.
- Tube Products Ltd.: *See*—  
Siebel, Mathias P. L. 2,938,098.
- Tubering, William W., to Draper Corp. File for saw chain. 2,956,333, 10-18-60, Cl. 29—78.
- Tubinis, Matthew P.: *See*—  
Brightman, Barrie, Pearce, and Tubinis. 2,947,819.
- Pearce, James G., and Tubinis. 2,933,564.
- Tubinis, Matthew P., to General Dynamics Corp. Electronic ring counter having sequentially triggered bistable stages. 2,931,922, 4-5-60, Cl. 307—83.5.
- Tuche, Hans H., B. D. Pfoutz, and J. S. Lagarias, to Koppers Co., Inc. Electrical precipitators. 2,956,640, 10-18-60, Cl. 183—7.
- Tuchel, Ulrich. Couplings for electric conductors. 2,946,035, 7-19-60, Cl. 339—89.
- Tuchyner, Harold J.: *See*—  
Cazier, John M., and Tuchyner. 2,926,051.
- Tuck, Robert M.: *See*—  
Fisher, Mark E., Tuck, and Schaefer. 2,933,172.



- Tuck, Robert M., and J. J. Mooney, Jr., to General Motors Corp. Transmission. 2,929,270, 3-22-60, Cl. 74-688.
- Tuck, Robert M., and M. E. Fisher, to General Motors Corp. Transmission control system. 2,929,478, 3-22-60, Cl. 192-87.
- Tuck, Robert M., and F. Snoy, to General Motors Corp. Transmission and control system. 2,936,865, 5-17-60, Cl. 192-96.
- Tucker, Don R.: See—
- Zoeller, Richard J., Tucker, Putnam, Cook, and Brown. 2,929,341.
- Tucker, Emmitt M., Sr., to Tucker & Sons. Tractor-track link pin and mounting unit. 2,939,747, 6-7-60, Cl. 305-57.
- Tucker, George K.: See—
- Snitzer, Elias, and Tucker. 2,934,941.
- Tucker, Henry V.: See—
- Ghalib, Selchouck A., Kelsall, Tucker, and Bowen. 2,961,589.
- Tucker, John L.: See—
- Cornell, John A., and Tucker. 2,947,716.
- Tucker, Lawrence E., to Nautallay Products, Inc. Conversion kit for bottled drink vending machine. 2,940,808, 6-14-60, Cl. 312-36.
- Tucker, Linwood G., Jr., and A. J. Kantor, to Koppers Co., Inc. Process of producing light weight aggregate. 2,946,112, 7-26-60, Cl. 25-157.
- Tucker, Morton. Vent locking means for awning type windows. 2,950,510, 8-30-60, Cl. 20-42.
- Tucker, Norman A.: See—
- Walter, Derek O., Tucker, and Ing. 2,953,247.
- Tucker, Robert L., and E. C. Hopkinson, to Well Surveys Inc. Temperature stabilization of electronic tubes. 2,964,677, 12-13-60, Cl. 315-107.
- Tucker & Sons: See—
- Tucker, Emmitt M., Sr. 2,939,747.
- Tucker, Stanley J.: See—
- Nicholson, Arnold E., and Tucker. 2,925,365.
- Tucker, Thomas A., to Sparkle-Lite, Inc. Lens bulb. 2,954,461, 9-27-60, Cl. 240-106.
- Tucker, Warren R., to Parker-Hannifin Corp. Packing arrangement for valves or the like. 2,933,285, 4-19-60, Cl. 251-324.
- Tucker, Walter D.: See—
- Greene, Margaret W., Sames, and Tucker. 2,942,943.
- Tucker, William H., to Tumaco Equipment. Earth digging scoop. 2,923,074, 2-2-60, Cl. 37-129.
- Tuckerman, Edward M.: See—
- Granahan, Leon E., Schnitzler, and Tuckerman. 2,937,976.
- Tuczek, Franz. Telescopic hydraulic shock dampers. 2,939,696, 6-7-60, Cl. 267-64.
- Tuczek, Franz E. Sealing rings. 2,927,831, 3-8-60, Cl. 309-44.
- Tudbury, Chester A., to The Ohio Crankshaft Co. Core type muffler furnace for heat treating small work pieces. 2,953,669, 9-20-60, Cl. 219-10.69.
- Tudge, Joseph: See—
- Kilner, William N., and Tudge. 2,950,403.
- Tudor, Sidney: See—
- Geld, Isidore, and Tudor. 2,937,930.
- Miller, Walter L., Preiser, and Tudor. 2,941,935.
- Tuerck, Paul A.: See—
- Carkhoff, Edwin D., and Tuerck. 2,944,938.
- Tuft, Miles H., to Ford Motor Co. Rake tooth mounting assembly. 2,928,227, 3-15-60, Cl. 56-400.
- Tuffy, Harold G., to Wood Associates, Inc. Apparatus for heating agglutinating coal. 2,955,991, 10-11-60, Cl. 202-117.
- Tuites, Donald E., to E. I. du Pont de Nemours and Co. Preparation of lysine. 2,934,541, 4-26-60, Cl. 260-309.5.
- Tulacz, Piotr. Plant for the production of oxygen. 2,941,375, 6-21-60, Cl. 62-37.
- Tulagin, Vsevolod, and R. D. Jackson, to General Aniline & Film Corp. Mixed packet photographic emulsions. 2,965,484, 12-20-60, Cl. 96-55.
- Tull, Alan G., to Technicolor Corp. Planographic dye-absorptive film and method of making same. 2,930,691, 3-29-60, Cl. 96-33.
- Tull, Roger J.: See—
- Chemerda, John M., Tull, and Fisher. 2,939,873.
- Kollonitsch, Janos, Tull, and Weinstock. 2,944,070.
- Tull, Victor F. G.: See—
- Burger, Francis J. P. J., and Tull. 2,930,741.
- Tullgren, Ralph R.: See—
- Basile, Carmen L., Terry, Tullgren, and Kaufmann. 2,935,786.
- Tullis, James L., to Protein Foundation, Inc. Separation centrifuge. 2,948,462, 8-9-60, Cl. 233-15.
- Tulloch, Charles W., to E. I. du Pont de Nemours and Co. Method of preparing oxyfluorides and thiofluorides. 2,928,720, 3-15-60, Cl. 23-14.
- Tullosh, Joseph C., to Western Electric Co., Inc. Cable clamp for reel attachment. 2,920,364, 1-12-60, Cl. 24-126.
- Tully, John A., to Hobourn Aero Components Ltd. Apparatus for imparting twists to yarns. 2,923,121, 2-2-60, Cl. 57-77.4.
- Tully, William F.: See—
- Von Dohlen, Werner C., and Tully. 2,924,602.
- Tulp, Theodor J., and H. A. R. De Miranda, to North American Phillips Co., Inc. Transistor circuit for producing current pulses through a variable impedance. 2,956,174, 10-11-60, Cl. 307-88.
- Tumaco Equipment: See—
- Tucker, William H. 2,923,074.
- Tumath, Jack L., 1/3 to G. E. Noakes, and 1/3 to W. Pahl. Selective dispensers for crayons or the like. 2,950,025, 8-23-60, Cl. 221-90.
- Tumavicus, Julius W., to United States of America, Air Force. Method of blade construction. 2,947,066, 8-2-60, Cl. 29-156.8.
- Tung, Ching C.: See—
- D'Amico, John J., Leeper, and Tung. 2,922,780.
- D'Amico, John J., and Tung. 2,955,978.
- Tung, Ching C., to Monsanto Chemical Co. N-nitroso-N-aryl arylenediamines. 2,938,922, 5-31-60, Cl. 260-576.
- Tung-Sol Electric Inc.: See—
- Atkins, Carl E. 2,923,829.
- Chamberlin, Raymond G., and Evander. 2,941,688.
- Firth, Bernard G. 2,943,217.
- Firth, Bernard G. 2,945,151.
- Firth, Bernard G. 2,950,994.
- Firth, Bernard G., and Skellett. 2,943,225.
- Grimm, John F. 2,934,664.
- Grosso, John S., and Wegener. 2,957,385.
- Kennett, Ralph B. 2,957,158.
- Leinkram, Charles Z. 2,955,386.
- Mayer, Donald W., and Skellett. 2,922,062.
- Mitchell, Alex V. 2,942,188.
- Mozeck, George J. 2,951,279.
- Quinn, Halsey P. 2,948,812.
- Silver, Marvin N. 2,925,007.
- Skellett, Albert M. 2,925,511.
- Skellett, Albert M. 2,926,286.
- Skellett, Albert M., and Firth. 2,942,146.
- Steiger, Benjamin F., and Yarnovsky. 2,928,061.
- Watrous, Ward W., Jr. 2,951,960.
- Tunkl, Julius: See—
- Hills, Elmer G., and Tunkl. 2,932,822.
- Tunney, William T.: See—
- Runci, Richard A. 2,919,494.
- Tunstead, Charles W. Folding boarding ladder. 2,924,291, 2-9-60, Cl. 182-156.
- Tuomala, Leon A., and L. J. Borba. Disposable cigarette case. 2,947,413, 8-2-60, Cl. 206-41.1.
- Tuppach, Hans-Joachim, and G. Schrader, to Farbenfabriken Bayer Aktiengesellschaft. Phosphonic acid ester fluorides and a process for their manufacture. 2,962,517, 11-29-60, Cl. 260-461.
- Tupper Corp.: See—
- Tupper, Earl S. Re. 24,889.
- Tupper, Earl S. 2,938,267.
- Tupper, Earl S. 2,941,660.
- Tupper, Earl S. 2,947,412.
- Tupper, Earl S. 2,950,847.
- Tupper, Earl S. 2,955,044.
- Tupper, Earl S. 2,961,850.
- Tupper, Earl S., to Tupper Corp. Container and cover therefor. Re. 24,889, 10-18-60, Cl. 150-5.
- Tupper, Earl S., to Tupper Corp. Combined kitchen utensil. 2,938,267, 5-31-60, Cl. 30-142.
- Tupper, Earl S., to Tupper Corp. Process of packaging and packaging structure. 2,941,660, 6-21-60, Cl. 206-46.
- Tupper, Earl S., to Tupper Corp. Brush holder and shaper. 2,947,412, 8-2-60, Cl. 206-15.1.
- Tupper, Earl S., to Tupper Corp. Pitcher and seal therefor. 2,950,847, 8-30-60, Cl. 222-465.
- Tupper, Earl S., to Tupper Corp. Membranous shape-sustaining receptacles. 2,955,044, 10-4-60, Cl. 99-171.
- Tupper, Earl S., to Tupper Corp. Individualized ice mold. 2,961,850, 11-29-60, Cl. 62-370.
- Tupper, Myron D.: See—
- Thompson, Paige W., and Tupper. 2,958,908.
- Tupper, Myron D., and K. M. Feiertag, to General Electric Co. Bearing assembly. 2,959,696, 11-8-60, Cl. 310-90.
- Tuhta, Frank A. Chuck and driver for holding and driving a tack. 2,929,067, 3-22-60, Cl. 1-47.
- Turansky, Clement J.: See—
- Prybylski, John R., and Turansky. 2,922,434.
- Prybylski, John R., and Turansky. 2,926,883.
- Turati, Enrico A. Parachutes. 2,922,605, 1-26-60, Cl. 244-149.
- Turbett, Forrest L. Alkali metal cyanide process. 2,965,442, 12-20-60, Cl. 23-81.
- Turbyfill, Dewey S. Non-binding caster. 2,923,017, 2-2-60, Cl. 15-49.
- Turck, Jean. Frequency modulation goniometers and gyrogoniometers. 2,965,762, 12-20-60, Cl. 250-203.
- Turck, Joseph A. V., Jr., to Curtiss-Wright Corp. Cushions. 2,953,195, 9-20-60, Cl. 155-179.
- Turco Products, Inc.: See—
- Bland, Marshall R. 2,960,991.
- Bland, Marshall R. 2,964,429.
- Newman, Kenneth W., Atkins, and Douglas. 2,939,772.
- Pimbley, George H. 2,927,874.
- Pimbley, George H. 2,948,643.
- Turecki, Anatole: See—
- Ghose, Rabindra N., and Turecki. 2,948,895.
- Turek, Robert F., and F. P. Schierberl, to United Aircraft Corp. Positive feedback abatement means. 2,936,583, 5-17-60, Cl. 60-39.28.



- Turek, Thomas J., to Bendix-Westinghouse Automotive Air Brake Co. Fluid pressure switch. 2,927,984, 3-8-60, Cl. 200-82.
- Turek, Thomas J., to Bendix-Westinghouse Automotive Air Brake Co. Automatically adjusted actuator. 2,939,553, 6-7-60, Cl. 188-196.
- Turinetti, Henri: *See*—  
Bertin, Jean H., Turinetti, Meulien, and Bauger. 2,949,734.
- Turk, James R., to V. K. Smith. Insulating machine. 2,958,122, 11-1-60, Cl. 29-205.
- Turk, Stanley D., and M. F. Potts, to Phillips Petroleum Co. Stabilization of certain vinyl pyridines and compositions. 2,965,645, 12-20-60, Cl. 260-290.
- Turk, Walter E., and E. D. Hendry, to English Electric Valve Co. Ltd. Cathode ray tubes. 2,923,843, 2-2-60, Cl. 313-68.
- Turlay, Joseph D., to General Motors Corp. Combustion chamber. 2,942,594, 6-28-60 Cl. 123-55.
- Turlay, Joseph D. Depth charge firing mechanism. 2,958,273, 11-1-60, Cl. 102-7.
- Turlay, Joseph D., and N. W. Kunz, to General Motors Corp. Charge forming apparatus. 2,927,564, 3-8-60, Cl. 123-52.
- Turman, O. A.: *See*—  
Collins, James L. and E. J. 2,955,527.
- Turman, Thomas B. Individual string tone changer for guitars. 2,949,806, 8-23-60, Cl. 84-297.
- Turn-A-Bore Equipment Co.: *See*—  
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- Turnage, Richard W.: *See*—  
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- Turnblade, Charles R., to Douglas Aircraft Co., Inc. Stretch wrap forming machine. 2,920,676, 1-12-60, Cl. 153-32.
- Turnbull, Norman K.: *See*—  
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- Turnbull, Norman L., to United Aircraft Corp. Blade locking means. 2,928,651, 3-15-60, Cl. 253-77.
- Turnbull, Roger F., and G. E. Lamb, to Lamb Grays Harbor Co., Inc. Roll crimping machines. 2,927,413, 3-8-60, Cl. 53-380.
- Turner, Archibald J., to Wilson Athletic Goods Mfg. Co., Inc. Shoulder pad. 2,957,177, 10-25-60, Cl. 2-2.
- Turner, Charles A., to Selas Corp. of America. Method for heat treating steel piercer points. 2,941,910, 6-21-60, Cl. 148-134.
- Turner, Charles A., Jr., to Selas Corp. of America. Method of spheroidizing steel by rapid heating. 2,938,820, 5-31-60, Cl. 148-134.
- Turner Co., The: *See*—  
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- Turner Corp.: *See*—  
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- Turner, Delber W., to Petrolite Corp. Insulator structure. 2,924,637, 2-9-60, Cl. 174-31.
- Turner, Donald P.: *See*—  
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- Turner, Edgar P.: *See*—  
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- Turner, Edgar P. Safety type swimming pools. 2,928,103, 3-15-60, Cl. 4-172.
- Turner, Edward, to E. T. Developments Ltd. Valve operated mechanism for internal combustion engines. 2,927,565, 3-8-60, Cl. 123-55.
- Turner, Edward, to Triumph Engineering Co. Ltd. Motorcycle front wheel suspension. 2,953,395, 9-20-60, Cl. 280-276.
- Turner, Edward H., to Bell Telephone Laboratories, Inc. Nonreciprocal wave transmission. 2,922,964, 1-26-60, Cl. 333-24.
- Turner, Edward H., to Bell Telephone Laboratories, Inc. Non-reciprocal wave transmission. 2,937,345, 5-17-60, Cl. 333-10.
- Turner, Fnis, and E. T. Dillon, to Magnet Cove Barium Corp. Beneficiated clay compositions and method of beneficiating clay. 2,948,678, 8-9-60, Cl. 252-85.
- Turner, Frank T.: *See*—  
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- Turner, Frank W. Rod weeder drive. 2,920,706, 1-12-60, Cl. 172-44.
- Turner, Frederick J. L.: *See*—  
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- Turner, George K., to North American Aviation, Inc. Low frequency angular accelerometer. 2,942,476, 6-28-60, Cl. 73-517.
- Turner, Gerald W.: *See*—  
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- Turner, Gordon L.: *See*—  
Hathorn, Roy C., and Turner. 2,956,318.
- Turner, Harold D. Air-supported building. 2,948,286, 8-9-60, Cl. 135-1.
- Turner, Harold H., to The Ingersoll Milling Machine Co. Positioning mechanism. 2,927,483, 3-8-60, Cl. 74-821.
- Turner, Harold H., to The Ingersoll Milling Machine Co. Method of preparing and mounting measuring strips. 2,958,939, 11-8-60, Cl. 29-407.
- Turner, Harvey M., and D. K. Anderson, to Donaldson Co., Inc. Wet type air cleaner with optionally usable auxiliary filter. 2,953,217, 9-20-60, Cl. 183-15.
- Turner, Henry C.: *See*—  
Lord, William B. H., Tomlin, and Turner. 2,931,300.
- Turner, Jesse L.: *See*—  
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- Turner, Luther B.: *See*—  
McCulloch, William J. G., and Turner. 2,944,043.
- Turner, Peter J. A., and E. H. Cardiff, to Kelvin & Hughes Ltd. Transmitting magnetic compass systems. 2,922,227, 1-26-60, Cl. 33-223.
- Turner, Peter J. A., and T. G. Brown, to Kelvin & Hughes Ltd. Light sensitive devices. 2,922,891, 1-26-60, Cl. 250-203.
- Turner, Ralph R., to United Wire & Supply Corp. Mandrel manipulation apparatus. 2,929,499, 3-22-60, Cl. 207-1.
- Turner, Roland J., to Philco Corp. Polarizing semiconductor apparatus. 2,927,222, 3-1-60, Cl. 307-88.5.
- Turner, Roscoe S. Bowl and urinal cleaning mop. 2,919,455, 1-5-60, Cl. 15-136.
- Turner, Roy: *See*—  
Porter, Frederick W. B., Turner, and Housam. 2,963,446.
- Turner, Russell B.: *See*—  
Palmer, James F., and Turner. 2,947,166.
- Turner, Stanley E.: *See*—  
Caldwell, Richard L., and Turner. 2,948,810.
- Turner, Sumpter. Filler and liquid level indicator for tanks. 2,920,601, 1-12-60, Cl. 116-118.
- Turner, Thomas, to Republic Aviation Corp. Stabilizing and protective attachment for aircraft ejection seats. 2,959,382, 11-8-60, Cl. 244-122.
- Turner, Wheeler M., to Arnoux Corp. Peak amplitude detector. 2,961,537, 11-22-60, Cl. 250-27.
- Turner, William E., to California Zucca Melon Products. Rotary dicing machine with water-lubricated cutting dies and ejector. 2,919,734, 1-5-60, Cl. 146-78.
- Turner, Wilson R., to General Electric Co. Magnetic structures for high frequency energy interchange apparatus. 2,966,609, 12-27-60, Cl. 315-3.5.
- Turney, Eric J., to General Motors Corp. Electric horns. 2,941,198, 6-14-60, Cl. 340-388.
- Turnquist, Thomas L.: *See*—  
Dulebohn, David H., Turnquist, and Wennes. 2,927,190.
- Turnwald, Wolfgang, to Automatic Power, Inc. Compressor head assembly. 2,957,620, 10-25-60, Cl. 230-231.
- Turobinski, Thaddeus J.: *See*—  
Jaffe, Hans, and Turobinski. 2,923,605.
- Turobinski, Thaddeus J., to Clevite Corp. Method of growing synthetic quartz. 2,931,712, 4-5-60, Cl. 23-301.
- Turpin, Geoffrey E., to The Steel Co. of Wales Ltd. Sealing devices for rotating members. 2,939,730, 6-7-60, Cl. 286-11.
- Turre, George J., Jr., to Minneapolis-Honeywell Regulator Co. Tubular galvanometer structure. 2,923,885, 2-2-60, Cl. 324-97.
- Tursky, Charles M. Fluid separators. 2,946,445, 7-26-60, Cl. 210-232.
- Turtle Back Pipe Co.: *See*—  
McGinnis, Thomas D., Mohle, and Nichols. 2,929,125.
- Turton, Cecil B.: *See*—  
Cutler, Myron A., and Turton. 2,938,096.  
Meacham, John W., and Turton. 2,938,971.
- Turula, Eugene, and G. B. Lynch, to Wollensak Optical Co. Variable focal length lens. 2,925,010, 2-16-60, Cl. 88-57.
- Turunen, William A.: *See*—  
Collman, John S., Turunen, and Vickers. 2,937,010.
- Turvey, Charles R.: *See*—  
Helmets, Carl J., and Turvey. 2,921,018.
- Turvey, Frank P.: *See*—  
Luongo, Joseph, Rymer, and Turvey. 2,958,861.
- Turvey, Frank P., Jr., to International Telephone and Telegraph Corp. Gated trigger predetermined binary counter. 2,947,944, 8-2-60, Cl. 328-42.
- Tury, Pal, and T. Millner, to Egvesult Izzolampa es Villamossagi Reszvenytarsasag. Method of producing thoriated metallic tungsten bodies. 2,962,400, 11-29-60, Cl. 148-11.5.
- Tuschhoff, John V.: *See*—  
Smith, Clifford E., and Tuschhoff. 2,928,828.
- Tuson, Margaret: *See*—  
Haycock, Peter H., Ryan, and Tuson. 2,962,392.
- Tussing, Denton E. Fishing pole attachment. 2,943,414, 7-5-60, Cl. 43-25.2.
- Tutchings, Alec, to W. H. Sanders (Electronics) Ltd. Magnetic recording and reproducing unit. 2,938,965, 5-31-60, Cl. 179-100.2.
- Tuthill, John B. Dishwashing method. 2,930,721, 3-29-60, Cl. 134-25.
- Tuthill, Roger W., to Air Reduction Co., Inc. Slide closure for welding. 2,950,378, 8-23-60, Cl. 219-74.
- Tuthill, Roger W., to Air Reduction Co., Inc. Arc welding. 2,959,666, 11-8-60, Cl. 219-74.
- Tuthill, William A., to Flanders Mill, Inc. Actuating and controlling means for expansible filters. 2,949,976, 8-22-60, Cl. 183-52.
- Tutrone, David A. Surgical drainage attachment. 2,945,731, 7-19-60, Cl. 311-9.
- Tutthill, Fred E., to Kenco Pump Division of The American Crucible Products Co. Pressure sensitive pump control. 2,933,570, 4-19-60, Cl. 200-83.
- Tuttle, Alfred C. Grating for running boards. 2,927,514, 3-8-60, Cl. 94-30.



- Tuttle, Charles D.: *See—*  
Croskey, Frank A., and Tuttle. 2,959,353.  
Croskey, Frank A., and Tuttle. 2,960,273.
- Tuttle, Clifton M., to Specialties, Inc. Processing of photographic film. 2,930,302, 3-29-60, Cl. 95-14.
- Tuttle, Clifton M. and N. K., and F. M. Brown, to Specialties, Inc. Rapid pressing of photographic film. 2,922,352, 1-26-60, Cl. 95-89.
- Tuttle Electric Products, Inc.: *See—*  
Hackman, Amos W. 2,921,172.
- Tuttle, Henry A.: *See—*  
Ireland, Max J., and Tuttle. 2,963,938.
- Tuttle, Neil R.: *See—*  
Tuttle, Clifton M. and N. R., and Brown. 2,922,352.
- Tuttle, Raymond E.: *See—*  
Smalter, Donald J., and Tuttle. 2,948,590.
- Tuttle, Thomas S. Tank with proportioning means. 2,945,509, 7-19-60, Cl. 137-576.
- Tuttle, Thomas S., and A. P. Fenton, to Tecumseh Products Co. Air filter. 2,920,717, 1-12-60, Cl. 183-44.
- Tutwiler, Thomas S., and W. C. Hollyday, Jr., to Esso Research and Engineering Co. Copolymers of vinyl acetate and fumarate. 2,936,300, 5-10-60, Cl. 260-78.5.
- Tuve, Merle A., and J. A. Van Allen, to United States of America, Navy. Radiosonde. 2,931,897, 4-5-60, Cl. 250-17.
- Tuxen, Ottar: *See—*  
Kotila, James J., Tuxen, and Wallis. 2,929,366.
- Lafferty, Hugh C., and Tuxen. 2,927,562.
- Tveter, Einar. Sash assembly for mounting glass or other transparencies. 2,947,042, 8-2-60, Cl. 20-55.
- Twaddell, Russell W., and S. E. Gregoire, to Bendix Aviation Corp. Electrical condenser. 2,942,167, 6-21-60, Cl. 317-245.
- Twaddell, Percival G.: *See—*  
Chouings, Leslie C., and Twaddell. 2,957,553.
- Tweit, Robert C.: *See—*  
Dodson, Raymond M., and Tweit. 2,924,611.
- Twiford, Harry G. Bead protector. 2,923,346, 2-2-60, Cl. 157-1.
- Twiford, Harry G. Tire mounting stand with rotatable wheel support. 2,925,837, 2-23-60, Cl. 144-288.
- Twiford, Harry G. Tire bead holding tool. 2,925,857, 2-23-60, Cl. 157-1.
- Twiford, Harry G. Wheel rim holding web. 2,950,744, 8-30-60, Cl. 144-288.
- Twin Disc Clutch Co.: *See—*  
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- Dundore, Marvin W., and Schneider. 2,961,830.
- Twitcheil, E. W., Inc.: *See—*  
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- Twitcheil, Selden J., to E. W. Twitcheil, Inc. Copless loom. 2,927,610, 3-8-60, Cl. 139-126.
- Twitcheit, Harry J.: *See—*  
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- Twomey, Dermot: *See—*  
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- Barry, Vincent C., Belton, Conalty, Twomey, O'Sullivan, and Hodel. 2,946,792.
- Barry, Vincent C., Belton, Conalty, Twomey, O'Sullivan, and Hodel. 2,948,726.
- Twomey, Lee S. Manipulation of nitrogen-contaminated natural gases. 2,959,022, 11-8-60, Cl. 62-30.
- Twyford, Loran C., Jr., to United States of America, Navy. Self operating quizzing and scoring device. 2,922,232, 1-26-60, Cl. 35-9.
- Twyman, L. Raymond. Air cooled clutch-brake. 2,944,647, 7-12-60, Cl. 192-18.
- Tyas, James P. I., to Her Majesty the Queen in right of Canada, as represented by the Minister of National Defence. Recirculating delay line. 2,933,717, 4-19-60, Cl. 340-173.
- Tychota, Kazimierz. Combustion apparatus for a gas turbine of the reaction type. 2,945,348, 7-19-60, Cl. 60-39.34.
- Tyce Engineering Corp.: *See—*  
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- Tyce, Roland, and W. T. Czuba, to Tyce Engineering Corp. Hydrodynamic rotary shaft seals. 2,960,356, 11-15-60, Cl. 286-10.
- Tydings, William F.: *See—*  
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- Tye, Joseph F.: *See—*  
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- Tyer and Co. Ltd.: *See—*  
Saw, Peter D. 2,920,270.
- Tyer Rubber Co.: *See—*  
Bushway, George F., and Buscema. 2,942,359.
- Tykeson, Julius W. Spring door hinges. 2,924,843, 2-16-60, Cl. 16-182.
- Tykol, William J. False ceiling with removable sections. 2,957,558, 10-25-60, Cl. 189-85.
- Tyler, Carl P., to Esso Research and Engineering Co. Polarographic apparatus. 2,962,432, 11-29-60, Cl. 204-195.
- Tyler, Frank, and P. Dowding, to Kelvin & Hughes Ltd. Photographic film-advancing mechanisms. 2,927,790, 3-8-60, Cl. 271-24.
- Tyler, Frank, E. R. Townley, and G. Wikkenhauser, to Kelvin & Hughes Ltd. Application of liquid to surfaces. 2,956,494, 10-18-60, Cl. 95-94.
- Tyler, Harold R.: *See—*  
Smith, Loren C., and Tyler. 2,959,957.
- Tyler, Howard J.: *See—*  
MacLeod, David E., and Tyler. 2,945,358.
- Mehalick, John R., and Tyler. 2,959,037.
- Tyler, Howard J., to Carrier Corp. Air conditioning units including filter mounting means. 2,945,360, 7-19-60, Cl. 62-317.
- Tyler, Hugh J., to Robertshaw-Fulton Controls Co. Snap acting switch. 2,929,891, 3-22-60, Cl. 200-67.
- Tyler, Hugh J., to Robertshaw-Fulton Controls Co. Electromagnets. 2,943,247, 6-28-60, Cl. 317-165.
- Tyler, John M.: *See—*  
Highberg, Axel L., and Tyler. 2,935,842.
- Tyler, John M., to United Aircraft Corp. Exhaust noise silencer. 2,930,185, 3-29-60, Cl. 60-35.6.
- Tyler, John M., to United Aircraft Corp. Hollow vane exhaust silencer effecting thrust generation. 2,944,392, 7-12-60, Cl. 60-35.6.
- Tyler, John M., E. S. Hope, and M. A. Logsdon, to United Aircraft Corp. Combination noise suppressor and thrust reverser. 2,931,171, 4-5-60, Cl. 60-35.54.
- Tyler, John M., and G. B. Towle, to United Aircraft Corp. Ground exhaust noise suppressors. 2,936,846, 5-17-60, Cl. 181-60.
- Tyler, Max C.: *See—*  
Birdseye, Sidney H., and Tyler. 2,961,772.
- Tyler, Orville A.: *See—*  
Fox, Alden E., Maxwell, and Tyler. 2,966,436.
- Tyler Refrigeration Corp.: *See—*  
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- Hennion, Joseph B. 2,950,605.
- Hennion, Joseph B. 2,961,283.
- Kennedy, Thomas E. 2,961,845.
- Swanson, Sven V. 2,923,137.
- Swanson, Sven V. 2,949,017.
- Tyler, Russell D., and J. M. Whitmore, to General Motors Corp. Torquemeter and control means. 2,922,931, 1-26-60, Cl. 317-149.
- Tyler, Stanley R.: *See—*  
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- Tyler, Victor J., to Marconi's Wireless Telegraph Co. Ltd. Electron discharge device circuit arrangements. 2,936,420, 5-10-60, Cl. 328-27.
- Tyler, W. S., Co., The: *See—*  
Parks, Walter J. 2,925,911.
- Parks, Walter J. 2,962,254.
- Tyler, Walter H., and A. A. Trosin. Wall clamp for temporary structures. 2,929,422, 3-22-60, Cl. 144-293.
- Tylle, John A., to G. Miller. Repeater peashooter. 2,962,018, 11-29-60, Cl. 124-50.
- Tylman, Florian J., to The Oscar C. Rixson Co. Pivot pin adjusting means for center-hung doors. 2,955,314, 10-11-60, Cl. 16-176.
- Tyma, Louis S., Jr., and P. E. F. Loew, to Miehe-Goss-Dexter, Inc. Constant backlash gearing for a printing couple. 2,948,215, 8-9-60, Cl. 101-216.
- Tynan, Donald E.: *See—*  
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- Tyner Corp.: *See—*  
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- Tyner, David A., to G. D. Searle & Co. 16-alkylestratriene-3,16,17-triols and derivatives thereof. 2,949,476, 8-16-60, Cl. 260-397.5.
- Tyner, David A., to G. D. Searle & Co. 3-alkoxy-16-alkyl-16-hydroxy-1,3,5(10)-estratrien-17-ones, their ethers and esters. 2,950,292, 8-23-60, Cl. 260-397.4.
- Typaldos, Zissimos A., to Crane Co. Vehicle air conditioning and accessory drive system. 2,961,939, 11-29-60, Cl. 98-15.
- Tyrlick, William V., to General Dynamics Corp. Character sequence detector. 2,941,191, 6-14-60, Cl. 340-174.
- Tyrwhitt, Norman H., and C. E. Williams, to The General Electric Co. Ltd. Electric circuit arrangements for operating one or more electric lamps. 2,933,650, 4-19-60, Cl. 315-232.
- Tyrwhitt, Norman H., and C. E. Williams, to The General Electric Co. Ltd. Electric circuit arrangements comprising one or more primary loads and one or more secondary loads. 2,934,742, 4-26-60, Cl. 340-25.
- Ty-Sa-Man Machine Co.: *See—*  
Hensley, James L. 2,925,005.
- Knoph, Nic L., and Jones. 2,958,323.
- Wayland, Hubert E. 2,951,474.
- Tysdal, Elmer B.: *See—*  
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- Tyson Bearing Corp.: *See—*  
Murray, Alfred S., and Brusca. 2,945,730.
- Tyson, Charles H., to Sylvania Electric Products Inc. Sealing mechanism for evacuated vessels. 2,923,113, 2-2-60, Cl. 53-79.
- Tyson, Thomas L., to Experiment Inc. Positive displacement pump and control means therefor. 2,927,557, 3-8-60, Cl. 121-41.
- Tytgat, Dents: *See—*  
Decroly, Claude, Tytgat, and Gerard. 2,929,691.
- Tyzack, Harold: *See—*  
Parmet, Bernard S., and Tyzack. 2,920,198.
- Tyzzer, Howard J., to Ferris Instrument Co. Tuning dial for electronic instruments. 2,941,497, 6-21-60, Cl. 116-124.1.
- UARCO Inc.: *See—*  
Schlossberger, Frederick V., Werle, and Michalchik. 2,939,804.
- Werle, Donald K., and Michalchik. 2,939,802.



- UCLAF: *See*—  
 Amiard, Gaston, and Heymes. 2,927,118.  
 Amiard, Gaston, Heymes, Goffinet, and Velluz. 2,932,635.  
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 Amiard, Gaston, Heymes, and Velluz. 2,932,634.  
 Amiard, Gaston, Heymes, and Velluz. 2,933,487.  
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 Muller, Georges, and Bellet. 2,950,311.  
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 Velluz, Leon, Amiard, Bartos, Goffinet, and Heymes. 2,938,891.  
 Vesterman, Anatole. 2,923,655.  
 Vesterman, Anatole, and Allais. 2,944,073.
- U.D. Engineering Co. Ltd.: *See*—  
 Bentley, Lawrence C. 2,943,531.  
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- UDIC Societe Anonyme: *See*—  
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- U M & F Mfg. Corp.: *See*—  
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- U. N. Company, Inc.: *See*—  
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- USCO Power Equipment Corp.: *See*—  
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- U.V. Mfg. Corp.: *See*—  
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- Uarco, Inc.: *See*—  
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 Steidinger, Donald J. 2,960,696.
- Ubbelohde, Leo. Method for crimping swellable filamentary materials. 2,956,393, 10-18-60, Cl. 57-157.
- Uhlenbroek, Jan H., and M. J. Koopmans, to North American Philips Co., Inc. Fungicides. 2,959,518, 11-8-60, Cl. 167-30.
- Ucci, Pompelio A., and A. H. Stroud, to The Chemstrand Corp. Wet-spinning of polyester fibers. 2,924,502, 2-9-60, Cl. 18-54.
- Uchida, Saburo, to Fukuin Denki Kabushiki Kaisha (known as Fukuin Electric Works, Ltd.) Compound electric speaker. 2,922,849, 1-26-60, Cl. 179-115.5.
- Uchiyama, Aiji A., D. R. Stern, and Q. H. McKenna, to American Potash & Chemical Corp. Electrorefining of elemental boron. 2,940,911, 6-14-60, Cl. 204-60.
- Uddeholms Aktiebolag: *See*—  
 Sundblad, Erik. 2,926,039.  
 Wiklundh, Leif S.-E., Persson, and Holm. 2,944,924.
- Udic Societe Anonyme: *See*—  
 Riehm, Theodor. 2,944,923.  
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- Udry, John J., to Borg-Warner Corp. Method and apparatus for perforating wellbores and casings. 2,946,283, 7-26-60, Cl. 102-20.
- Udy, Marvin J., to Strategic-Udy Metallurgical and Chemical Processes, Ltd. Process for the production of ferrochromium products. 2,934,422, 4-26-60, Cl. 75-11.
- Udy, Marvin J., and M. C., to Strategic-Udy Metallurgical & Chemical Processes, Ltd. Metallurgical process. 2,953,451, 9-20-60, Cl. 75-31.
- Udy, Murray C.: *See*—  
 Udy, Marvin J. and M. C. 2,953,451.
- Udylite Corp.: *See*—  
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 Jackson, William H. 2,941,656.  
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- Uebelhardt, Roger. Wrist watch. 2,955,357, 10-11-60, Cl. 33-72.
- Uebelhoer Brothers, Inc.: *See*—  
 Uebelhoer, Burt J. 2,930,070.
- Uebelhoer, Burt J., to Uebelhoer Brothers, Inc. Door closer. 2,930,070, 3-29-60, Cl. 16-51.
- Uebelhoer, Walter, to Morwal Products Corp. Anchor davit. 2,931,331, 4-5-60, Cl. 114-210.
- Ueberwasser, Hellmut: *See*—  
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- Ueberwasser, Hellmut: *See*—  
 Wettstein, Albert, Anner, Heusler, Ueberwasser, Wieland, Schmidlin, and Billeter. 2,957,868.  
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- Uebing, Heinrich, to Friedrich Kochs, G.m.b.H. Knockout axle assembly. 2,950,934, 8-30-60, Cl. 287-53.
- Uecker, Norman C., to Lear, Inc. Flight indicator having pitch trim. 2,941,305, 6-21-60, Cl. 33-204.
- Uecker, Norman C., to Lear, Inc. Roll ring fade mechanism. 2,941,306, 6-21-60, Cl. 33-204.
- Ueda, Masahiro: *See*—  
 Umezawa, Hamao, Maeda, and Ueda. 2,931,798.
- Ueda, Takeo, S. Kato, S. Toyoshima, and T. Wachi, to Dainippon Pharmaceutical Co., Ltd. Acyl derivatives of aminonaphthalene-sulfonamide. 2,949,479, 8-16-60, Cl. 260-401.
- Uehlinger, Hanspeter: *See*—  
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- Ueltz, Herbert F. G.: *See*—  
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 Ervin, Guy, Jr., and Ueltz. 2,947,672.
- Ueltz, Herbert F. G., to Norton Co. Processes and anodes for the electrolytic extraction of the metals Ti, V, Cr, Zr, Nb, Mo, Hf, Ta and W from their carbides. 2,920,021, 1-5-60, Cl. 204-64.
- Ueltz, Herbert F. G., to Norton Co. Castable aluminum oxide mixture and articles made therefrom. 2,965,506, 12-20-60, Cl. 106-64.
- Ueno, Yoshio: *See*—  
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- Ufert, Otto, to Schiess Aktiengesellschaft. Gear-hobbing machine. 2,924,151, 2-9-60, Cl. 90-4.
- Ufert, Otto W., to Schiess Aktiengesellschaft. Machine for generating gears. 2,953,087, 9-20-60, Cl. 90-1.6.
- Uglietto, Salvatore R. Interlocking siding. 2,948,367, 8-9-60, Cl. 189-36.
- Uhde, Friedrich, G.m.b.H.: *See*—  
 Sälzer, Albert. 2,938,968.
- Uher, Edmond. Differential V-belt transmission drive. 2,938,408, 5-31-60, Cl. 74-722.
- Uhing, Joachim. Rotary translatory motion drive gear. 2,940,322, 6-14-60, Cl. 74-22.
- Uhl, Herbert B. Level switches. 2,927,987, 3-8-60, Cl. 200-152.
- Uhl, Vincent W., and V. Sturman, to Bethlehem Foundry & Machine Co. Incinerator unit. 2,963,996, 12-13-60, Cl. 110-14.
- Uhland, Joseph C.: *See*—  
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- Uhland, Keith L.: *See*—  
 Hammer, George N., and Uhland. 2,928,815.
- Uhlen, Arthur E., to National Steel Corp. Method of hot coating strip materials with paints or enamels. 2,961,336, 11-22-60, Cl. 117-49.
- Uhlenbroek, Jan H., and J. Meltzer, to North American Philips Co., Inc. Method of combating red spider mites by means of a trichloro-diphenylsulphone. 2,954,319, 9-27-60, Cl. 167-30.
- Uhlenhaut, Rudolf E., J. Müller, and H. O. Scherenberg, to Daimler-Benz Aktiengesellschaft. Wheel suspension system with swinging half-axes. 2,942,678, 6-28-60, Cl. 180-73.
- Uhlenkott, John J. Pole-debarking machine. 2,960,128, 11-15-60, Cl. 144-208.
- Uhrus, Lars O.: *See*—  
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- Uityugt, Martin W., to Eaton Mfg. Co. Method of producing turbine blades. 2,959,843, 11-15-60, Cl. 29-156.8.
- Ujejski, Ludwik, and K. M. Gaver, to The Ogilvie Flour Mills Co., Ltd. Preparation of DL-glutamine. 2,951,090, 8-30-60, Cl. 260-534.
- Ukita, Tomizo: *See*—  
 Okunuki, Kazuo, Hagihara, and Ukita. 2,952,586.
- Ulanet, Herman. Temperature control. 2,937,255, 5-17-60, Cl. 200-137.
- Ulary, Russell R., to Radio Corp. of America. Electrophotographic process for making stencil screens. 2,956,875, 10-18-60, Cl. 96-1.
- Ulrich, Gerhard, to Robert Bosch G.m.b.H. Commutator arrangements. 2,946,908, 7-26-60, Cl. 310-234.
- Ulderup, Jürgen: *See*—  
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 Reuter, Franz G., and Ulderup. 2,951,053.
- Ulderup, Jürgen, F. G. Reuter, and F. Jackel, to Mobay Chemical Co. Flexible coupling device. 2,945,365, 7-19-60, Cl. 64-11.
- Ulderup, Jürgen, and F. G. Reuter, to Mobay Chemical Co. Elastic mount. 2,958,526, 11-1-60, Cl. 267-63.
- Ulich, Michael D.: *See*—  
 Armstrong, Alfred, and Ulich. 2,932,178.
- Ulinski, Bronislaus I., to The Yale & Towne Mfg. Co. Steering and traction unit construction. 2,929,460, 3-22-60, Cl. 180-13.
- Ulinski, Bronislaus I., to The Yale & Towne Mfg. Co. Fork mounting construction. 2,940,626, 6-14-60, Cl. 214-750.
- Ulinski, Bronislaus I., to The Yale & Towne Mfg. Co. Power steering mechanism. 2,945,545, 7-19-60, Cl. 180-79.2.
- Ulinski, Bronislaus I., to The Yale & Towne Mfg. Co. Gear drive steering and traction unit. 2,950,773, 8-30-60, Cl. 180-13.
- Ulinski, Bronislaus I., to The Yale & Towne Mfg. Co. Industrial truck. 2,953,264, 9-20-60, Cl. 214-130.
- Ulinski, Bronislaus I., to The Yale & Towne Mfg. Co. Trailer hitch. 2,956,631, 10-18-60, Cl. 180-13.
- Ulinski, Bronislaus I., to The Yale & Towne Mfg. Co. Lifting construction for lift truck. 2,956,776, 10-18-60, Cl. 254-10.
- Ulinski, Bronislaus I., to The Yale & Towne Mfg. Co. Electrical controller for an industrial truck. 2,957,536, 10-25-60, Cl. 180-82.
- Ulinski, Bronislaus I., to The Yale & Towne Mfg. Co. Magnetic coil handler. 2,964,205, 12-13-60, Cl. 214-652.
- Ulinski, Bronislaus I., to The Yale & Towne Mfg. Co. Axle for industrial truck. 2,964,332, 12-13-60, Cl. 280-111.
- Ullery, Fred E. One-way clutch. 2,947,395, 8-2-60, Cl. 192-45.2.



- Ullery, Lee R.: *See*—  
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- Ullery, Lee R., Jr., to Columbia Broadcasting System, Inc. Television picture display apparatus. 2,942,150, 6-21-60, Cl. 315-169.
- Ullger, Joseph W., to William J. Boas and Co. Folding box. 2,934,254, 4-26-60, Cl. 229-41.
- Ullman, Gene C. Latch mechanism for cover equipped cattle and poultry feeders. 2,939,736, 6-7-60, Cl. 292-127.
- Ullman, Robert: *See*—  
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- Ullman, Robert, H. F. Fortna, J. M. Middleton, G. H. Schwalm, and R. L. Tritt, to AMP Inc. Machine for feeding and applying tips to a series of electrical components. 2,961,027, 11-22-60, Cl. 153-1.
- Ullman, Seymour. Coin counter. 2,952,108, 9-13-60, Cl. 53-254.
- Ullmann, Werner, to Agie A.G. fur industrielle Elektronik. Method and arrangement for spark erosion by alternating current. 2,951,142, 8-30-60, Cl. 219-69.
- Ullmann, Werner, and W. Ehrlich, to Agie A.G. fur Industrielle Elektronik. Electroerosive grinding method and device for its performance. 2,920,180, 1-5-60, Cl. 219-69.
- Ulrich, Edward H., and G. F. Klepp, to International Standard Electric Corp. Electric discharge devices. 2,928,976, 3-15-60, Cl. 313-188.
- Ulrich, John P., Jr., to Minneapolis-Honeywell Regulator Co. Time delay mechanism. 2,961,233, 11-22-60, Cl. 267-1.
- Ulrich, Osmar A., Jr.: *See*—  
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- Ulyot, Glenn E., to Smith Kline & French Laboratories. Substituted trifluoromethylphenothiazine derivatives. 2,921,069, 1-12-60, Cl. 260-243.
- Ulm, Ralph E., and A. R. Ficker, to Airtex Products, Inc. Diaphragm for fuel pump. 2,931,311, 4-5-60, Cl. 103-150.
- Ulm, Reign C.: *See*—  
Bodley, Robert W., Ulm, and Wilkin. 2,948,432.
- Ulm, Reign C., to Union Tank Car Co. Seal and scraper arrangement. 2,960,252, 11-15-60, Cl. 220-26.
- Ulm, Robert A.: *See*—  
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- Ulman, Wayne H.: *See*—  
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- Ulmer, Robert M.: *See*—  
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- Ulmes, August B.: *See*—  
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- Ulrich, Erwin W., to Minnesota Mining and Mfg. Co. Pressure-sensitive adhesive sheet material. Re. 24,906, 12-13-60, Cl. 206-59.
- Ulrich, Erwin W., to Minnesota Mining and Mfg. Co. Priming of zinc surfaces. 2,958,611, 11-1-60, Cl. 117-75.
- Ulrich, Glenn A.: *See*—  
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- Ulrich, Werner, to Bell Telephone Laboratories, Inc. Gate circuits. 2,954,483, 9-27-60, Cl. 307-88.5.
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- Umberger, Jacob Q., to E. I. du Pont de Nemours and Co. Treating processes for improving physical properties of phosphors. 2,965,580, 12-20-60, Cl. 252-301.6.
- Umberger, Jacob Q., and J. G. Lofstrom, to E. I. du Pont de Nemours and Co. Zinc pyrophosphate treated phosphors and their preparation. 2,965,512, 12-20-60, Cl. 117-33.5.
- Umberger, Lester. Fence. 2,927,779, 3-8-60, Cl. 256-19.
- Umbreit, Stanton, to Radio Corp. of America. Oxide coated cathodes and method of manufacture. 2,950,993, 8-30-60, Cl. 117-219.
- Umbrecht, Emil, to Ajem Laboratories, Inc. Heat exchange systems for cooling and cleaning contaminated heated gases. 2,940,733, 6-14-60, Cl. 257-1.
- Umbrecht, Emil, D. M. Evans, and W. L. Johnson, to Ajem Laboratories, Inc. Automatic apparatus for washing fabricated parts. 2,925,614, 2-23-60, Cl. 15-21.
- Umbrecht, Emil, and D. Evans, to Ajem Laboratories, Inc. Power washing apparatus. 2,926,674, 3-1-60, Cl. 134-72.
- Umbrecht, Emil, G. Steenhagen, and D. M. Evans, to Ajem Laboratories, Inc. Gas washing apparatus. 2,949,285, 8-16-60, Cl. 261-3.
- Umezawa, Hamao, K. Maeda, and M. Ueda. Kanamycin and processes for the preparation thereof. 2,931,798, 4-5-60, Cl. 260-210.
- Umholtz, Frank: *See*—  
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- Umholtz, Leora: *See*—  
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- Umina, Carmel. Micro-sensitive leakage and heater current checker. 2,928,041, 3-8-60, Cl. 324-20.
- Umstott, Harold F., to The Firestone Tire & Rubber Co. Apparatus for controlling tension in sheet material. 2,947,060, 8-2-60, Cl. 28-1.
- Underhav, George F., J. N. Franklin, and A. H. Wells, to The Bowater Research and Development Co. Ltd. Process of papermaking. 2,919,495, 1-5-60, Cl. 34-114.
- Underhill, Denton W. Holding fixture. 2,921,783, 1-19-60, Cl. 269-140.
- Underhill, Denton W. Compact adjustable length tubing cutter. 2,953,955, 9-27-60, Cl. 83-355.
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- Underwood, George W., and H. La Tour, to Armco Steel Corp. High frequency electric welding without rough and excessive inside flash. 2,931,885, 4-5-60, Cl. 219-67.
- Underwood, Herbert N., R. A. Olsen, and F. G. Lussky, to Borg-Warner Corp. Power hydraulic hoist. 2,940,608, 6-14-60, Cl. 212-124.
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- Underwood, Robert L. Freeze package caser. 2,956,384, 10-18-60, Cl. 53-154.
- Underwood, William F., and E. D. Fuller, to Union Carbide Corp. Film forming compositions of polyethylene and polypropylene, film thereof, and method of making same. 2,956,042, 10-11-60, Cl. 260-45.5.
- Underwood, William F., and R. J. Signer, to Union Carbide Corp. Casings and method of making same. 2,961,323, 11-22-60, Cl. 99-176.
- Underwriters Safety Device Co.: *See*—  
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- Undesser, Karl, to General Dynamics Corp. Radar system. 2,927,318, 3-1-60, Cl. 343-16.
- Undy, Gustav E., to Multi-Products Co. Dual channel receiver and transmitter. 2,921,292, 1-12-60, Cl. 340-175.
- Unetic, Andrew J., to The Yale and Towne Mfg. Co. Bathroom fixture mount. 2,956,767, 10-18-60, Cl. 248-251.
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- Unger, Hans-Georg, to Bell Telephone Laboratories, Inc. Variable tapered waveguide transition section. 2,938,179, 5-24-60, Cl. 333-34.
- Unger, Hans-Georg, to Bell Telephone Laboratories, Inc. Helix wave guide. 2,950,454, 8-23-60, Cl. 333-95.
- Unger, Harold W.: *See*—  
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 Phillips, Benjamin, Starcher, McGary, and Patrick. 2,935,488.  
 Pierce, Russell F. 2,937,402.  
 Pike, Ronald M., and Lisanke. 2,942,019.  
 Pike, Roscoe A. 2,953,543.  
 Pike, Roscoe A. 2,955,127.  
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 Pilloton, Roger L. 2,951,091.  
 Pilloton, Roger L. 2,963,363.  
 Pilloton, Roger L., and Crayton. 2,963,342.  
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 Poorman, Richard M., Sargent, and Lamprey. 2,964,420.  
 Privette, Walter R., Schulz, and Young. 2,920,081.  
 Pruett, Roy L. 2,947,769.  
 Ramadanoff, Dmitri. 2,934,460.  
 Rath, Howard G., Miller, and Kratz. 2,925,170.  
 Raub, Samuel H. S. 2,956,787.  
 Raub, Samuel H. S., and Gaylord. 2,956,641.  
 Reding, Frederick P. 2,935,502.  
 Reinking, Norman H. 2,943,096.  
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 Reinking, Norman H., Barth, and Castner. 2,951,825.  
 Rice, Philip K., and Houvener. 2,966,038.  
 Rife, Howard K., and Walker. 2,922,778.  
 Riley, David W., and Mixer. 2,954,391.  
 Rockefeller, Harry E., and Wilson. 2,920,181.  
 Rose, Julian K., and Schulz. 2,946,769.  
 Rosenthal, Louis A. 2,940,040.  
 Royer, Stanley H., Miller, and Calaman. 2,935,303.  
 Rugg, Frank M., and Potts. 2,947,718.  
 Rugg, Frank M., and Potts. 2,947,719.  
 Ruskin, Simon L. 2,933,381.  
 Ruskin, Simon L. 2,934,481.  
 Ruskin, Simon L. 2,940,951.  
 Ruskin, Simon L. 2,944,881.  
 Ruskin, Simon L. 2,951,796.  
 Ruskin, Simon L. 2,953,509.  
 Sargent, Herbert B., and Poorman. 2,965,474.  
 Sarla, Ralph M., and Schneidersmann. 2,957,816.  
 Saunders, Earle R., and Pope. 2,935,397.  
 Saurwein, Albert G., and Parker. 2,931,005.  
 Schifferli, Leo M., Jr. 2,957,821.  
 Schroeder, Juel P. 2,948,703.  
 Schroeder, Vernon W., and Martino. 2,962,463.  
 Scofield, Howard M. 2,934,907.  
 Shaffer, Lloyd H., and Pines. 2,945,873.  
 Skinner, George M. 2,936,364.  
 Smith, Frederick A., and Welch. 2,940,875.  
 Smith, George H. 2,934,410.  
 Smith, George H., and Mitchell. 2,930,276.  
 Smith, Joseph J., and Reichle. 2,921,920.  
 Smith, Keith L. 2,921,047.  
 Smith, Keith L. 2,934,518.  
 Smythe, William J., Muller, and Weeden. 2,966,469.  
 Spracklen, Stanford B., Martin, Rogers, Capehart, Fertig, and Fellows. 2,933,600.  
 Spry, William J., Jr., and Singer. 2,957,128.  
 Stampa, Guido B., and Farnham. 2,933,482.  
 Stampa, Guido B., and Stanek. 2,953,552.  
 Stansbury, Harry A., and Guest. 2,938,886.  
 Stansbury, Harry A., Jr., and Guest. 2,931,837.  
 Stansbury, Harry A., Jr., and Guest. 2,933,534.  
 Stansbury, Harry A., Jr., and Guest. 2,960,495.  
 Stansbury, Harry A., Jr., and Proops. 2,965,681.  
 Starcher, Paul S., Tinsley, and Mullins. 2,924,583.  
 Steele, Arthur B., O'Neal, and Anderson. 2,932,675.  
 Sullivan, Raymond P. 2,957,977.  
 Thomas, Kenneth L., Wickham, and Skinner. 2,950,377.  
 Tinsley, Samuel W., and Fitzpatrick. 2,938,058.  
 Tinsley, Samuel W., Starcher, and Henry. 2,946,808.  
 Tomlinson, Joseph R., and Kurtzweil. 2,952,754.  
 Toulmin, Harry A., Jr. 2,937,507.  
 Toulmin, Harry A., Jr. 2,957,773.  
 Underwood, William F., and Fuller. 2,956,042.  
 Underwood, William F., and Signer. 2,961,323.  
 Uphoff, Russel L., and Flowers. 2,931,979.  
 Von Dohlen, Werner C., and Tully. 2,924,602.  
 Wagener, Johann C. S. 2,948,607.  
 Weatherly, Merle H., and Conant. 2,939,785.  
 Welch, Frank J., Reding, and Walter. 2,957,225.  
 Westbrook, Russell D., and Shepard. 2,946,835.  
 Whelan, John M., Jr., and Samuels. 2,935,494.  
 White, Wayne G. 2,953,551.  
 Wilson, Benjamin J. 2,965,475.  
 Wilson, Jack L., Rockefeller, and Butler. 2,948,803.  
 Wilson, Joseph E. 2,954,362.  
 Wilson, Thomas P., and Hurley. 2,929,854.  
 Wojciak, Thaddeus J., and Schaefer. 2,933,591.  
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 Leclercq, René, and Paquet. 2,926,157.  
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 Damijonaitis, Alexandra. 2,938,500.  
 Damijonaitis, Alexandra. 2,956,811.  
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 Anderson, W. Carl, and Dewey. 2,940,746.  
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 Schuh, Charles H. 2,929,756.  
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 Deering, Roland F. 2,966,446.  
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 Fleck, Raymond N., and Wight. 2,925,380.  
 Fleck, Raymond N., and Wight. 2,925,381.  
 Fleck, Raymond N., and Wight. 2,935,467.  
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 Fleck, Raymond N., and Wight. 2,952,717.  
 Fleck, Raymond N., and Wight. 2,962,435.  
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 Hines, John E., Jr., and Welsh. 2,958,571.  
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 Webb, Irving D. 2,966,521.  
 Webb, Irving D. 2,966,522.  
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 Worth, Harry J. 2,943,055.  
 Union Rheinische Braunkohlen Kraftstoff Aktiengesellschaft: See—  
 Hubenett, Fritz. 2,935,533.  
 Hubenett, Fritz, and Kelm. 2,935,532.  
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 Union Special Machine Co.: See—  
 Attwood, John G. 2,941,488.  
 Covert, John N. 2,941,490.  
 Hale, Arthur N., and Smith. 2,952,227.  
 Lukins, Richard H. 2,960,050.  
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- Union Spring and Mfg. Co.: *See*—  
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   Averill, Charles C. 2,923,428.  
   Averill, Charles C. 2,950,825.  
   Reed, Linwood L. 2,949,078.  
   Reed, Linwood L., and McKim. 2,927,707.  
   Reed, Margaret W. 2,937,761.  
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   Morrison, Willard L. 2,959,025.  
   Replogle, James B. 2,956,420.  
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   Hagen, Harold F. and W. F. 2,925,723.  
   Morrison, Willard L. 2,926,501.  
   Morrison, Willard L. 2,928,566.  
   Morrison, Willard L. 2,936,548.  
   Morrison, Willard L. 2,947,112.  
 Union Tank Car Co.: *See*—  
   Basore, Cleburne A., and Barham. 2,944,405.  
   Bodley, Robert W., Ulm, and Wilkin. 2,948,432.  
   Hatanaka, Tad. 2,944,701.  
   Kryzer, Benjamin H. 2,935,081.  
   Kryzer, Benjamin H., and Techler. 2,935,198.  
   Kryzer, Benjamin H., and Techler. 2,955,799.  
   Lindsay, Lynn G. 2,962,437.  
   Meyer, Amel R. 2,945,943.  
   Meyer, Amel R. 2,960,053.  
   Smith, Sydney S. 2,948,294.  
   Techler, Thomas W. 2,922,433.  
   Tischler, Edward J. 2,955,795.  
   Ulm, Reign C. 2,960,252.  
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   Lemon, Cecil G. 2,924,370.  
   Pasjack, Steve. Re. 24,789.  
   Richardson, James A. 2,943,762.  
   Richardson, James A. 2,943,763.  
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   Dugger, Ralph L. 2,938,286.  
   Langen, Ole H. 2,933,839.  
   Langen, Ole H. 2,939,228.  
   Maxwell, Ira C., Langen, and Plehal. 2,921,726.  
   Plehal, Dan R. 2,954,908.  
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   Briggs, Donald M. 2,956,798.  
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   Burke, Thomas J., Dandrow, and Schneible. 2,957,625.  
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   Butler, Robert H., and Sundene. 2,937,767.  
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   Lieber, Sidney U. 2,933,677.  
 Unitcast Corp.: *See*—  
   Ingram, Orville, and Wine. 2,962,983.  
   Wine, William E., and Ingram. 2,962,982.  
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   Abild, Robert N. 2,930,520.  
   Abild, Robert N. 2,941,353.  
   Acker, Walter L., and Curkin. 2,940,837.  
   Amelio, Armand F. 2,960,167.  
   Barkalow, Clare E. 2,919,882.  
   Barkalow, Clare E. 2,937,533.  
   Beggs, John C. 2,959,028.  
   Beggs, John C., Carrier, and Farkas. 2,948,475.  
   Beggs, John C., and Rosenbush. 2,963,878.  
   Benson, George R. 2,951,339.  
   Berman, Nelson. 2,930,034.  
   Berman, Nelson. 2,938,199.  
   Berman, Nelson. 2,958,057.  
   Berman, Nelson. 2,964,716.  
   Berman, Nelson, and Girsch. 2,938,198.  
   Best, Stanley G. 2,923,361.  
   Best, Stanley G. 2,941,601.  
   Best, Stanley G. 2,953,078.  
   Best, Stanley G. 2,959,002.  
   Best, Stanley G. 2,959,029.  
   Best, Stanley G. 2,960,020.  
   Best, Stanley G. 2,963,860.  
   Best, Stanley G. 2,966,109.  
   Best, Stanley G., and Brahm. 2,942,417.  
   Billman, Louis S. 2,931,172.  
   Blackman, Arthur W. 2,941,356.  
   Blackman, Arthur W., Jr., and Wetherbee. 2,930,195.  
   Bonnett, Horace W., and Menold. 2,955,662.  
   Brahm, Charles B. 2,937,011.  
   Brahm, Charles B. 2,944,206.  
   Broders, Claude O. 2,943,605.  
   Brook, Niles J. 2,943,894.  
   Brown, William H. 2,928,234.  
   Brown, William H. 2,934,891.  
   Bryant, Paul M. 2,953,156.  
   Bulvid, Michel D. 2,925,130.  
   Carter, Edward S., Jr. 2,955,779.  
   Clark, Lewis R. 2,929,607.  
   Chamberlain, John. 2,936,578.  
   Coar, Richard J. 2,941,602.  
   Coar, Richard J., and Jacobus. 2,936,999.  
   Defenderfer, William E. 2,928,476.  
   Doherty, Thomas E., and Keller. 2,928,475.  
   Dmitroff, George A. 2,957,335.  
   Emmerich, Claude L. 2,937,532.  
   Evans, Frederick P., and Mason. 2,937,656.  
   Evans, Frederick P., and Stearns. 2,934,306.  
   Evers, James D., and Stearns. 2,929,252.  
   Fanti, Roy A. 2,938,585.  
   Farkas, Thomas P. 2,926,494.  
   Farkas, Thomas P. 2,932,176.  
   Farkas, Thomas P. 2,939,280.  
   Farkas, Thomas P. 2,957,488.  
   Farkas, Thomas P. 2,964,287.  
   Fink, Martin R. 2,934,150.  
   Foley, John R. 2,962,260.  
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   Gagarin, Serge S. 2,941,751.  
   Geary, Frederick L., and Taylor. 2,932,161.  
   Gerstenberger, Walter. 2,957,527.  
   Gingras, Richard E. 2,944,787.  
   Girardin, Leon J. 2,936,995.  
   Gluhareff, Eugene M. 2,944,610.  
   Gluhareff, Eugene M. 2,953,319.  
   Gluhareff, Michael E. 2,941,752.  
   Grube, Wallace M., and Torell. 2,924,933.  
   Gunberg, Harry W. 2,932,443.  
   Haines, Lawrence A., and Small. 2,928,648.  
   Hausmann, George F. 2,934,259.  
   Hausmann, George F. 2,947,139.  
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   Highberg, Axel L. 2,939,279.  
   Highberg, Axel L., and Tyler. 2,935,842.  
   Howard, George J., Jr. 2,933,892.  
   Howard, George J., Jr., and Katzenberger. 2,957,648.  
   Jackson, Henry A. 2,965,303.  
   Jenney, David S. 2,934,151.  
   Kearns, Charles M., Jr. 2,939,536.  
   King, Kenneth L. 2,964,662.  
   King, Kenneth L., and Mathiesen. 2,942,119.  
   Kunz, Harold R. 2,962,221.  
   Kurti, Alexander. 2,943,449.  
   Lambeck, Raymond P. 2,928,477.  
   Lambeck, Raymond P., and Pond. 2,927,648.  
   Lauck, Lawrence J. 2,936,978.  
   Lee, John G. 2,920,864.  
   Ledwith, Walter A. 2,937,000.  
   Ledwith, Walter A., and Carr. 2,965,286.  
   Lightfoot, Ralph B. 2,947,365.  
   Lombard, Ralph S. 2,938,754.  
   Luiz, Edward A., and Thornton. 2,943,686.  
   Lysak, Walter W. 2,953,330.  
   Mard, Kenneth C. 2,941,549.  
   Markowski, Stanley J. 2,935,847.  
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   Meier, John W. 2,959,229.  
   Meyer, Robert E., and Barlock. 2,929,211.  
   McLafferty, George H. 2,938,334.  
   Moore, Earl K. 2,924,935.  
   Morgia, James V. 2,959,471.  
   Mrazek, James A. 2,919,714.  
   Newcomb, Philip P. 2,929,328.  
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   Odegaard, Eugene A. 2,934,890.  
   Oickle, Charles, Jr. 2,955,799.  
   Peterson, Charles J. 2,938,336.  
   Porter, Robert D., Harner, and Fortmann. 2,936,584.  
   Poulos, Ernest N. 2,934,889.  
   Quenneville, Raymond N. 2,937,730.  
   Quenneville, Raymond N., and Moore. 2,920,790.  
   Quermann, Thomas R. Re. 24,829.  
   Radtko, Edward W., and Farkas. 2,946,509.  
   Ranard, Elliot D. 2,920,446.  
   Rubel, Herbert J. 2,919,889.  
   Schaefer, Carl F., and Mead. 2,966,063.  
   Schneider, Edgar C. 2,944,857.  
   Shaw, Jacques. 2,936,974.  
   Shaw, Walter C. 2,925,255.  
   Shevchenko, Richard P. 2,921,805.  
   Sikorsky, Igor I. 2,941,605.  
   Sikorsky, Igor I. 2,944,609.  
   Simmons, Wilbur G. 2,919,888.  
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   Smith, Alden F., and Kurti. 2,951,395.  
   Smith, Richard. 2,955,785.  
   Spaeth, Charles E. 2,965,355.  
   Speller, Jack B. 2,920,279.  
   Stevens, Richard M. 2,925,713.  
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   Torell, Bruce N. 2,921,433.  
   Towle, George B., and Davis. 2,926,744.  
   Turck, Robert F., and Schlerberl. 2,936,583.  
   Turnbull, Norman L. 2,928,651.  
   Tyler, John M. 2,930,185.  
   Tyler, John M. 2,944,392.  
   Tyler, John M., Hope, and Logsdon. 2,931,171.  
   Tyler, John M., and Towle. 2,936,846.  
   Van Alstyne, Harold L., and Thornton. 2,940,527.  
   Voymas, James S., and Ambuter. 2,943,443.  
   Wallace, Rudolf N. 2,954,049.  
   Weatherbee, Roger D. 2,925,215.  
   Webster, Stokely, and Barkalow. 2,919,584.  
   Wetherbee, Arthur E., Jr. 2,943,821.  
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 Jeremiah, Earl E. 2,944,688.  
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 Bedford, William A., Jr. 2,950,937.  
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 Bengtson, Richard H., Jr. 2,940,782.  
 Clewes, Antony B. 2,926,354.  
 Clewes, Antony B. 2,953,766.  
 Cochran, Clarence W. 2,950,513.  
 Corcoran, John F. 2,922,136.  
 Coyle, William J. 2,935,665.  
 Del Camp, Scipione M. 2,941,180.  
 Del Camp, Scipione M. 2,963,534.  
 Engel, William J. 2,922,978.  
 Flanagan, William H., Jr. 2,926,328.  
 Fraser, Robert W. 2,925,488.  
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 Hepner, Charles, and Peters. 2,965,247.  
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- Uraneck, Carl A., and A. C. Rothlisberger, to Phillips Petroleum Co. Promoters for emulsion polymerization systems containing oxygen. 2,932,628, 4-12-60, Cl. 260-84.1.
- Uraneck, Carl A., L. A. Mitchell, and R. J. Sonnenfeld, to Phillips Petroleum Co. Production films from carboxylic acid containing conjugated diene polymer and an amine containing conjugated diene polymer. 2,952,043, 9-13-60, Cl. 18-57.
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- Vaes, Petrus J. J., to North American Phillips Co., Inc. Dry-shaver comprising a removable or tiltable cutting head. 2,952,909, 9-20-60, Cl. 30—43.
- Vafiads, Basil C.: *See—*  
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- Vaghi, Joseph. Water screw propeller. 2,962,101, 11-29-60, Cl. 170—159.
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- Vahl, Laszlo: *See—*  
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- Vahle, Raymond, to Continental Can Co., Inc. Molded egg carton. 2,933,227, 4-19-60, Cl. 229—25.
- Vahlstrom, Carl A., to The American Hardware Corp. Means for retaining a lock cylinder in a panel. 2,948,141, 8-9-60, Cl. 70—370.
- Vaida, George J. and T. F. Machine lathe attachment. 2,922,328, 1-26-60, Cl. 82—24.
- Vaida, Theodore F.: *See—*  
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- Vaiden, John C., to Bendix Aviation Corp. Solid propellant engine starter apparatus. 2,939,365, 6-7-60, Cl. 89—1.
- Vaillant, Joh., K.G.: *See—*  
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- Vaillant, Johann: Kommanditgesellschaft: *See—*  
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- Vais, Joseph F. Spare tire rack. 2,936,918, 5-17-60, Cl. 214—454.
- Vaisala, Vilho. Hygrostat apparatus. 2,953,215, 9-20-60, Cl. 183—43.
- Vajda, Peter, S. C. Rooney, S. Kragh-Hansen, and I. B. Kay, to Columbia Engineering Co., Ltd. Felting method and apparatus. 2,951,269, 9-6-60, Cl. 19—155.
- Vakos, Peter, and R. A. Glenn, to Acme Die Casting Corp. Engaging means of starter to gasoline engine. 2,955,584, 10-11-60, Cl. 123—179.
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- Valdettaro, Alarico A., and S. R. Meadows, to Sarkes Tarzian, Inc. Television tuner having common vernier reactance presettable adjustable for each channel. 2,947,866, 8-2-60, Cl. 250—40.
- Valdez, Armando V. Fishing rod holder. 2,952,432, 9-13-60, Cl. 248—42.
- Valdi, Walter J., and E. T. King. Stern tube safety ring assembly. 2,943,874, 7-5-60, Cl. 286—26.
- Valence, Joe: *See—*  
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- Valensi, Georges. Color television systems with coding. 2,920,131, 1-5-60, Cl. 178—52.
- Valensi, Georges. Telegraphic code converting device. 2,929,873, 3-22-60, Cl. 178—26.
- Valensi, Georges. Improvement in high speed telegraphic systems. 2,947,813, 8-2-60, Cl. 178—15.
- Valensi, Georges. Color television receiver with large projection screen. 2,959,635, 11-8-60, Cl. 178—54.
- Valenta, Rudolph. Sanitary marking device for tall cakes. 2,960,770, 11-22-60, Cl. 33—1.
- Valentine, George E., and J. H. Eubanks, to V. & E. Products, Inc. Stoker drive mechanism. 2,932,166, 4-12-60, Cl. 60—52.



- Valentine, Harry M., to Bendix-Westinghouse Automotive Air Brake Co. Motion translating device. 2,943,496, 7-5-60, Cl. 74-56.
- Valentine, Roger E.: *See—*  
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- Valentine, Vaughn E., and M. J. Zoker, to The Sun Rubber Co. Apparatus and method for mold charging. 2,959,816, 11-15-60, Cl. 18-26.
- Valentine, William, to American Cyanamid Co. Stable poliomyelitis live virus vaccine. 2,946,724, 7-26-60, Cl. 167-78.
- Valentyne, Peter H., and C. A. Sundbom, to Baker Perkins Inc. Sanitary glands. 2,963,308, 12-6-60, Cl. 286-11.13.
- Valeron Corp., The: *See—*  
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- Valis, Henrietta. Self supporting collar. 2,964,195, 12-13-60, Cl. 211-11.
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- Vallojera, Jose. Automatic transmission. 2,951,399, 9-6-60, Cl. 74-751.
- Vallone, Salvatore N. Vacuum unit attachment for power mowers. 2,920,435, 1-12-60, Cl. 56-25.4.
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- Valyi, Emery I. Method of making pressure vessel. 2,957,234, 10-25-60, Cl. 29-418.
- Vamvakas, Michael, to The Osborn Mfg. Co. Interengaging belt and pulley. 2,940,586, 6-14-60, Cl. 198-203.
- Vana, Richard V., to Minneapolis-Honeywell Regulator Co. Pneumatic control device. 2,937,655, 5-24-60, Cl. 137-85.
- Van Abbe, Henri H., and J. J. Rongen, to North American Philips Co., Inc. Voltage arrangement. 2,920,258, 1-5-60, Cl. 321-2.
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- Van Ackeren, Joseph, to Koppers Co., Inc. Method and apparatus for producing ammonium sulfate. 2,966,394, 12-27-60, Cl. 23-119.
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- Van Allan, James A.: *See—*  
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- Van Allan, James A., and J. W. Tamblin, to Eastman Kodak Co. 2,2'-dihydroxy-4,4'-dimethoxybenzil as an ultraviolet stabilizer. 2,945,002, 7-12-60, Cl. 260-45.95.
- Van Allen, James A.: *See—*  
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- Van Allen, Roland L. Single quadrant analogue computing means. 2,941,722, 6-21-60, Cl. 235-194.
- Van Alphen, Pieter M., and J. van der Wal, to North American Philips Co., Inc. X-ray image intensifying and viewing device. 2,922,336, 1-26-60, Cl. 88-39.
- Van Alstine, Francis E. Truck steering mechanism for trains. 2,936,720, 5-17-60, Cl. 105-4.
- Van Alstyne, Alvin G., to Gilfillin Bros. Inc. Range and angle tracking of aircraft using angle gated video. 2,961,650, 11-22-60, Cl. 343-7.3.
- Van Alstyne, Harold L., and M. B. Thornton, to United Aircraft Corp. Propeller pitch lock disabling and feather lock mechanism. 2,940,527, 6-14-60, Cl. 170-160.32.
- Vanaman, Frank P., and C. H. Odom, to Television Utilities Corp. Video transducing system employing a flying spot scanner. 2,943,233, 6-28-60, Cl. 355-20.
- Vanaman, Frank P., C. H. Odom, and H. L. Gordon, to Television Utilities Corp. Automatic headlight dimming system. 2,959,709, 11-8-60, Cl. 315-83.
- Van Ameringen-Haebler, Inc.: *See—*  
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- Van Amstel, Johannes J. A. P.: *See—*  
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- Van Amstel, Johannes J. A. P., to North American Philips Co., Inc. Semi-conductive device and method of making. 2,929,971, 3-22-60, Cl. 317-234.
- Van Anrooy, Peter H., to Zenith Radio Corp. Signal-translating networks. 2,934,722, 4-26-60, Cl. 333-76.
- Van Antwerp, Robert L.: *See—*  
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- Van Antwerpen, Lloyd D. Shipping carton for wrap-around rear windows and windshields of automobiles. 2,950,812, 8-30-60, Cl. 206-62.
- Van Antwerpen, Martin. Machine for forming cushioning tongues in shock absorbing strips. 2,931,275, 4-5-60, Cl. 93-1.
- Van Arsdale, Lewis H., to Elliott & Evans, Inc. Regenerative radio receiver for remotely controlled relay. 2,931,956, 4-5-60, Cl. 317-149.
- Van Atta, Chester M., and F. W. Brown, III. Mine firing control device. 2,959,125, 11-8-60, Cl. 102-18.
- Van Atta, Lester C., to United States of America, War. Radio system and method for locating enemy artillery. 2,939,134, 5-31-60, Cl. 343-13.
- Van Atta, Lester C., R. J. Adams, and K. S. Kelleher. Split paraboloidal reflector. 2,922,160, 1-19-60, Cl. 343-835.
- Vanause, Marie E. Skater propelled simulated animal figure. 2,938,725, 5-31-60, Cl. 272-21.
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- Van Billiard, Lewis H., to General Electric Co. Torpedo actuating lanyard seal. 2,961,959, 11-29-60, Cl. 102-16.
- Van Bochove, Cornelis, and H. J. Hueck, to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid Handel en Verkeer. Process for making cellulose materials rotproof. 2,938,815, 5-31-60, Cl. 117-138.5.
- Van Blarcom, James P., Jr., and J. L. Gatto, to Bell & Gossett Co. Centrifugal pump. 2,951,449, 9-6-60, Cl. 103-113.
- Van Blaricom, Lloyd E., and K. R. Gray, to Rayonier Inc. Drilling mud compositions. 2,964,469, 12-13-60, Cl. 252-8.5.
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- Van Brunt, Le Roy C., to Westinghouse Electric Corp. Vending apparatus. 2,932,427, 4-12-60, Cl. 221-154.
- Van Brunt, Le Roy C., to Westinghouse Electric Corp. Dispensing apparatus. 2,943,900, 7-5-60, Cl. 312-45.
- Van Buren, Harold S., Jr., to United-Carr Fastener Corp. Nut with elastic sealing and locking member. 2,928,445, 3-15-60, Cl. 151-7.
- Van Buren, Harold S., Jr., to United-Carr Fastener Corp. Sealing nut having flexible sealing lip. 2,930,424, 3-29-60, Cl. 151-7.
- Van Buren, Harold S., Jr., to United-Carr Fastener Corp. Nut with a washer secured thereto by separable means. 2,949,141, 8-16-60, Cl. 151-38.
- Van Buren, Harold S., Jr., to United-Carr Fastener Corp. Webbing clip. 2,957,219, 10-25-60, Cl. 24-73.
- Van Buren Machine Corp.: *See—*  
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- Van Buskirk & Co., Inc.: *See—*  
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- Van Buskirk, John D., to Van Buskirk & Co., Inc. Vertical printing. 2,945,436, 7-19-60, Cl. 101-350.
- Van Buskirk, Leshur W. Digging teeth for excavating dip-pers, etc. 2,934,842, 5-3-60, Cl. 37-142.
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- Van Campen, John H., to Eastman Kodak Co. Filter and absorbing dyes for use in photographic emulsions. 2,956,879, 10-18-60, Cl. 96-74.
- Van Caneghem, Jack: *See—*  
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- Vance, Arthur W., to Radio Corp. of America. Computing system for electronic resolver. 2,927,734, 3-8-60, Cl. 235-189.
- Vance, Arthur W., to United States of America, Army. Computing systems. 2,947,474, 8-2-60, Cl. 235-61.5.
- Vance, Arthur W., to United States of America, Navy. Trigonometric function resolver. 2,947,481, 8-2-60, Cl. 235-186.
- Vance, Arthur W., to United States of America, Navy. Coincidence sensing device. 2,964,649, 12-13-60, Cl. 307-88.5.
- Vance, Arthur W., and E. A. Goldberg, to United States of America, Navy. Quarter-square multiplier. 2,945,626, 7-19-60, Cl. 235-194.



- Vance, Carl T., Jr.: *See*—  
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- Vance, Henry E., to General Electric Co. Stator core members for dynamoelectric machines. 2,961,556, 11-22-60, Cl. 310-216.
- Vance, Russell W.: *See*—  
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- Vance, Walter. Wrist draw for archers. 2,929,372, 3-22-60, Cl. 124-35.
- Vancheri, Frank J., and J. S. Mackay, to Pittsburgh Coke & Chemical Co. Method of producing cyanogen from cuprous cyanide. 2,957,751, 10-25-60, Cl. 23-151.
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- Van Cleave, John M. Rotating toy. 2,960,793, 11-22-60, Cl. 46-47.
- Van Cleve, Reynolds B. Automatic transmission. 2,962,864, 12-6-60, Cl. 60-53.
- Vandale Corp.: *See*—  
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- Van Dam, Albert and B. E., to The Van Dam Rubber Co., Inc. Balloon toys. 2,922,252, 1-26-60, Cl. 46-88.
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- Vandament, Claude W. Valve keeper tool. 2,944,451, 7-12-60, Cl. 81-5.1.
- Vandaveer, Roscoe F., to Pan American Petroleum Corp. Grid design for fluid bed reactor. 2,951,747, 9-6-60, Cl. 23-284.
- Van de Gent, Maurice L. Apparatus for receiving and stacking bags. 2,948,530, 8-9-60, Cl. 271-68.
- Van de Goor, Johannes A., and K. W. Hinkel, to North American Philips Co., Inc. Magnetron having wave-guide output. 2,932,767, 4-12-60, Cl. 315-39.
- Van De Graaff, Robert J., to High Voltage Engineering Corp. Apparatus for reducing electron loading in positive-ion accelerators. 2,922,905, 1-26-60, Cl. 313-63.
- Van de Graaff, Robert J., and J. G. Trump, to High Voltage Engineering Corp. Acceleration and application of high intensity electron beams for radiation processing. 2,931,903, 4-5-60, Cl. 250-49.5.
- Van de Graaff, Robert J., and J. G. Trump, to High Voltage Engineering Corp. Unidirectional high-voltage generator. 2,945,141, 7-12-60, Cl. 313-62.
- Van De Hey, Roche J., to Manitowoc Engineering Corp. Governor. 2,958,999, 11-8-60, Cl. 60-12.
- Van de Kerke, Kornelis. Method of sterilizing foodstuff. 2,959,488, 11-8-60, Cl. 99-211.
- Vandenbergh, Edwin J., to Hercules Powder Co. 5-benzoyl pentanol-1. 2,950,320, 8-23-60, Cl. 260-592.
- Vandenbergh, Edwin J., to Hercules Powder Co. Process for the polymerization of vinyl hydrocarbons with a two-component catalyst system. 2,954,367, 9-27-60, Cl. 260-88.1.
- Van den Berg, Jacob P. M., A. P. J. van de Ven, and J. H. van den Eynden; said van den Eynden assor, to said van den Berg and van de Ven. Coin operated vending machine. 2,935,829, 5-10-60, Cl. 53-182.
- Van den Berg, Pieter J., to Stamicarbon N.V. Process of preparing compound fertilizer. 2,936,228, 5-10-60, Cl. 71-43.
- Van Den Berg, Pieter J., and J. W. M. Steeman, to Stamicarbon N.V. Process of producing a phosphate fertilizer. 2,944,882, 7-12-60, Cl. 71-39.
- Vanden Berg, Roy, to Hendricks Supply Co., Inc. Self-locking duct take-off. 2,965,397, 12-20-60, Cl. 285-189.
- Van Den Berghe, John: *See*—  
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Dunham, Kenneth R., Van Den Berghe, and Faber. 2,958,687.
- Van den Blink, Willem P., to North American Philips Co., Inc. Slag-forming bodies for electric arc welding. 2,950,380, 8-23-60, Cl. 219-99.
- Vanden Bosch, James. Reflection arrestor. 2,925,302, 2-16-60, Cl. 296-97.
- Vandenburgh, William A.: *See*—  
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- Vandenburgh, Edward C.: *See*—  
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- Van den Bussche, Hendrik K. J., to Shell Oil Co. Prime mover comprising two hydraulic single-cylinder piston engines. 2,965,077, 12-20-60, Cl. 121-149.
- Van den Eynden, Johannes H.: *See*—  
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- Van Der Beck, Roland R., Jr., to The Carborundum Co. Silicon carbide resistor bodies. 2,941,962, 6-21-60, Cl. 252-516.
- Vanderberg, Lawrence J., to Ford Motor Co. Dynamic braking of electric motors. 2,945,998, 7-19-60, Cl. 318-373.
- Vanderbilt, R. T., Co., Inc.: *See*—  
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- Vandercook, Edward O., to Vandercook & Sons, Inc. Proof drying cabinet. 2,959,870, 11-15-60, Cl. 34-151.
- Vandercook & Sons, Inc.: *See*—  
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- Van der Grinten, Willem J., and D. Mohler, to General Electric Co. Solid electrolyte cells and batteries. 2,928,890, 3-15-60, Cl. 136-83.
- Vander Haar, Roy W.: *See*—  
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- Vander Haar, Roy W., to Standard Oil Co. Method of preparing platinum-alumina catalyst. 2,925,395, 2-16-60, Cl. 252-466.
- Van der Heide, Hendrik: *See*—  
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- Van der Heide, Hendrik, to North American Philips Co., Inc. Magnetic switching device. 2,960,685, 11-15-60, Cl. 340-174.
- Van der Hoek, Willem, and W. L. L. Lenders, to North American Philips Co., Inc. Polygonal electric coil. 2,930,014, 3-22-60, Cl. 336-190.
- Van Der Horst Corp. of America: *See*—  
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- Van der Horst, Hajo L., and P. H. G. van Vlodrop, to North American Philips Co., Inc. Control circuit arrangement. 2,956,207, 10-11-60, Cl. 315-241.
- Vander Kaay, Henry A., to The New York Air Brake Co. Flow rate compensated valve. 2,944,527, 7-12-60, Cl. 121-46.5.
- Vander Kaay, Henry A., to The New York Air Brake Co. Five position control valve having power float position. 2,949,097, 8-16-60, Cl. 121-46.5.
- Van Der Kerk, Gerrit J., to North American Philips Co., Inc. Method of treating plants employing dithiocarbamates. 2,943,972, 7-5-60, Cl. 167-22.
- Van der Kerk, Gerrit J. M., to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid, Handel en Verkeer. Process for the manufacture of linear polyurea polymers. 2,963,465, 12-6-60, Cl. 260-77.5.
- Vander Lans, Cornelius J. F., to Vander Lans & Sons. Temporary plug for pipes. 2,927,609, 3-8-60, Cl. 138-93.
- Vander Lans & Sons: *See*—  
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- Van der Lely, Ary: *See*—  
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- Van der Lely, C., Canada Ltd.: *See*—  
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 Van der Lely, Cornelis and A., to C. van der Lely, N.V. Convertible side delivery rake. 2,922,270, 1-26-60, Cl. 56-377.  
 Van der Lely, Cornelis and A., to C. van der Lely, N.V. Side delivery rake with elongated endless raking assemblies. 2,922,271, 1-26-60, Cl. 56-377.  
 Van der Lely, Cornelis and A., to C. van der Lely, N.V. Side delivery rake or tedder. 2,923,118, 2-2-60, Cl. 56-377.  
 Van der Lely, Cornelis and A., to C. van der Lely, N.V. Side delivery raking device with rake wheel positioning means. 2,924,060, 2-9-60, Cl. 56-377.  
 Van der Lely, Cornelis and A., to C. van der Lely, N.V. Method of raking a crop. 2,926,476, 3-1-60, Cl. 56-1.  
 Van der Lely, Cornelis and A., to C. van der Lely, N.V. Devices for lateral displacement of crop lying on the ground. 2,926,481, 3-1-60, Cl. 56-395.  
 Van der Lely, Cornelis and A., to C. van der Lely, N.V. Raking device connected with a tractor. 2,928,226, 3-15-60, Cl. 56-377.  
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 Van der Lely, Cornelis and A., to C. van der Lely, N.V. Side delivery rake with guide means. 2,930,178, 3-29-60, Cl. 56-377.  
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 Van der Lely, Cornelis and A., to C. van der Lely, N.V. Tractor having driven hind-wheels. 2,936,034, 5-10-60, Cl. 180-41.  
 Van der Lely, Cornelis, and A., to C. Van der Lely, N. V. Side delivery raking device. 2,939,265, 6-7-60, Cl. 56-377.  
 Van der Lely, Cornelis and A., to C. van der Lely, N.V. Device for laterally displacing grass, hay, or other material lying on the ground. 2,945,339, 7-19-60, Cl. 56-377.  
 Van der Lely, Cornelis and A., to C. van der Lely, N.V. Implement for laterally displacing material lying on the ground. 2,947,135, 8-2-60, Cl. 56-377.  
 Van der Lely, Cornelis and A., to C. van der Lely. Side delivery rake and mower. 2,949,719, 8-23-60, Cl. 56-193.  
 Van der Lely, Cornelis, and A., to C. van der Lely, N.V. Raking device. 2,951,329, 9-6-60, Cl. 56-377.  
 Van der Lely, Cornelis and A., to C. van der Lely, N.V. Rotary rake wheel. 2,953,891, 9-27-60, Cl. 56-377.  
 Van der Lely, Cornelis and A., to C. van der Lely, N.V. Device for working crop lying on the ground and provided with at least one raking member. 2,953,892, 9-27-60, Cl. 56-377.  
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 Vander Ploeg, Alfred R., C. L. Crawley, and W. P. Ballard, to Texaco Inc. Fluid contact coking of hydrocarbon oils. 2,920,032, 1-5-60, Cl. 208-127.  
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 Vandersteel, William. Ship stabilizer apparatus. 2,937,608, 5-24-60, Cl. 114-126.  
 Vanderstegen-Drake, Stamford R. F., to Plenty and Son Ltd. Pump. 2,961,969, 11-29-60, Cl. 103-120.  
 Van Der Togt, Jan, to Tomado N.V. Articles consisting at least partly of plastic coated metal wire. 2,956,689, 10-18-60, Cl. 211-181.  
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 Vanderveld, Anthony. Retractable step structure. 2,921,643, 1-19-60, Cl. 182-88.  
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 Van Der Waarden, Mathijs, J. J. Tjepkema, H. W. Huyser, L. Hartstra, and G. H. Reman, to Shell Oil Co. Oil-soluble fungicides. 2,938,828, 5-31-60, Cl. 167-30.  
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 Van der Willigen, Paul C., and S. A. Troelstra, to North American Philips Co., Inc. Method of producing a slag-forming mass. 2,966,433, 12-27-60, Cl. 148-26.  
 Van der Willigen, Paul C., L. F. Defize, and J. A. van Bergen, to North American Philips Co., Inc. Electric arc welding apparatus. 2,938,994, 5-31-60, Cl. 219-74.  
 Vander Wilt, Arnold J. Self-locking joint for docks. 2,961,838, 11-29-60, Cl. 61-48.  
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 Van Deussen, William R., Jr., to J. A. Hodock. Photographic printing easel. 2,925,752, 2-23-60, Cl. 88-24.  
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 Van De Veire, Leon A. Ventilator for windows. 2,928,334, 3-15-60, Cl. 98-99.8.  
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 Vandevorde, Jean, to Masurel Mills, Inc. Method of treating crimped synthetic yarn for use in the lace industry. 2,942,408, 6-28-60, Cl. 57-157.  
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 Van Dien, Roland M., to General Electric Co. High frequency energy interchange device. 2,922,067, 1-19-60, Cl. 315-3.5.  
 Van Dijk, Willem J. D., to Shell Oil Co. Method of recording seismograms and of preparing derived seismograms. 2,944,620, 7-12-60, Cl. 181-5.  
 Van Dijk, Christiaan P., F. J. F. Van Der Plas, and A. de Keizer, to Shell Oil Co. Process for polymerizing vinyl chloride in an aqueous emulsion. 2,934,529, 4-26-60, Cl. 260-92.8.  
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- Van Dommelen, Joannes A. W. J., to Shell Oil Co. Disengaging solids from a lift gas. 2,947,577, 8-2-60, Cl. 302-59.
- Van Dongen, Dingeman, to N.V. Bronswerk. Device for operating a door, gate valve or similar closing means. 2,926,013, 2-23-60, Cl. 268-66.
- Van Doorn, Donald W., to Lummus Cotton Gin Co. Door construction for baling presses. 2,961,943, 11-29-60, Cl. 100-255.
- Van Doorn, Donald W., and W. C. Pease, III, to Lummus Cotton Gin Co. Apparatus for baling fibers. 2,963,959, 12-13-60, Cl. 100-50.
- Van Dorn, Horace B., and R. W. Moran, to The Fafnir Bearing Co. Cam-follower construction. 2,947,196, 8-2-60, Cl. 74-569.
- Van Dorn, Horace B., and R. W. Moran, to The Fafnir Bearing Co. Relatively rolling elements. 2,947,581, 8-2-60, Cl. 308-216.
- Van Dorn, Warren G., and O. A. Ullrich, Jr., to Haloid Xerox Inc. Xerographic light-sensitive member and process therefor. 2,937,944, 5-24-60, Cl. 96-1.
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- Van Driest, Edward R., to North American Aviation, Inc. Thermal aerodynamic drag controller. 2,943,828, 7-5-60, Cl. 244-117.
- Van Dusen, Charles A., to Van Dusen Engineering Co. Vacuum cup attachment device. 2,940,713, 6-14-60, Cl. 248-206.
- Van Dusen, Charles H., Jr., and F. R. Howe, to Addressograph-Multigraph Corp. Planographic printing. 2,958,146, 11-1-60, Cl. 41-9.
- Van Dusen, Charles I., and P. G. Olson. Hair setting device. 2,960,091, 11-15-60, Cl. 132-40.
- Van Dusen Engineering Co.: *See*—  
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- Van Dusen, Harold A., Jr., and J. C. Yaeger, to McGraw-Edison Co. Mercury vapor lamp connector construction and starting circuit therefor. 2,952,797, 9-13-60, Cl. 315-187.
- Van Dusen, Laurence W., to Mission Industries. Belt hanger. 2,929,509, 3-22-60, Cl. 211-59.
- Van Duuren, Hendrik C. A., to Staatsbedrijf der Posterijen, Telegrafie en Telefonie. Radio-telegraph system. 2,952,734, 9-13-60, Cl. 178-4.
- Van Duuren, Hendrik C. A., and A. Snijders, to Staatsbedrijf der Posterijen, Telegrafie en Telefonie. Electronic distributor circuit. 2,922,034, 1-19-60, Cl. 250-27.
- Van Dyke, Jacob: *See*—  
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- Van Dyke, John W.: *See*—  
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- Van Dyke, John W., to Thor P. Ulvestad, and D. T. Dickson. Generator control for electro-fishing. 2,951,979, 9-6-60, Cl. 322-37.
- Van Dyke, Lyle H. Telephone pad holder attachment. 2,962,823, 12-6-60, Cl. 40-10.5.
- Van Duyn, Adrianus, to U.S. Slicing Machine Co., Inc. Adjustable inclined guide for slicing machine carriers. 2,929,423, 3-22-60, Cl. 146-102.
- Vane, Zdenek. Centrifugal washer for dissociating industrial gases. 2,931,458, 4-5-60, Cl. 183-7.
- Vane, Zdenek. Centrifugal separation apparatus. 2,963,154, 12-6-60, Cl. 209-211.
- Vane, Zdenek. Centrifugal screen separation apparatus. 2,965,232, 12-20-60, Cl. 209-211.
- Van Egmond, Albert J. L., and P. C. Veenstra, to North American Philips Co., Inc. Mass spectrometer. 2,948,809, 8-9-60, Cl. 250-41.9.
- Van Embden, Hendrik J. M., C. A. Nieuwenhuis, and P. J. Bulsman, to North American Philips Co., Inc. Method of drying wax models. 2,964,810, 12-20-60, Cl. 22-196.
- Vanerstrom, Rodman H. Leak detecting apparatus. 2,930,511, 3-29-60, Cl. 222-3.
- Van Ess, Fred C.: *See*—  
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- Van Ess, Paul R.: *See*—  
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- Van Essen, Bonifacius G. Record player. 2,944,826, 7-12-60, Cl. 274-10.
- Van Essen, Harm: *See*—  
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Beets, Muus G. J., and Van Essen. 2,957,027.
- Van Every, Bliss E., and V. H. Wiley, to Sylvania Electric Products Inc. Headlight dimmer. 2,932,769, 4-12-60, Cl. 315-78.
- Van Gelder, Zeger: *See*—  
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- Van Gerpen, Harlan W., to Deere & Co. Hydraulic pump and motor apparatus with load responsive pump regulating means. 2,936,588, 5-17-60, Cl. 60-52.
- Van Gerpen, Harlan W., to Deere & Co. Variable displacement pump. 2,936,712, 5-17-60, Cl. 103-38.
- Van Gieson, David W. Telephone number indexes. 2,935,805, 5-10-60, Cl. 40-10.5.
- Van Goey, Henry R., and T. C. Campbell, to United States of America, Navy. Gas operated safety and arming mechanism. 2,926,609, 3-1-60, Cl. 102-70.
- Van Gool, Willem, J. G. Van Santen, and H. J. J. Brech, to North American Philips Co., Inc. Radiation-sensitive device and method of making. 2,957,152, 10-18-60, Cl. 338-15.
- Van Gorder, Wilbert E.: *See*—  
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Subach, Albert C., and Betts. 2,937,447.
- Van Haften, Egbert, to Bulova Watch Co., Inc. Rotor for electric razors. 2,929,139, 3-22-60, Cl. 30-43.
- Van Haam, Harry L. Door attached riding toy. 2,943,669, 7-5-60, Cl. 155-2.
- Van Hecke, George J., to Huck Mfg. Co. Fluid motor and control means therefor. 2,951,468, 9-6-60, Cl. 121-21.
- Van Heel, Abraham C. S., G. J. Beernink, and H. J. Raterink, to Nederlandse Organisatie Voor Toegepast-Natuurwetenschappelijk Onderzoek ten Behoeve Van De Rijksverdediging (The National Defence Research Council-T.N.O.). Wide-angle objective lens. 2,947,219, 8-2-60, Cl. 88-57.
- Van Heel, Abraham C. S., G. J. Beernink, and H. J. Raterink, to Nederlandse Organisatie Voor Toegepast-Natuurwetenschappelijk Onderzoek Ten Behoeve Van De Rijksverdediging (The National Defence Research Council T.N.O.). Horizon camera objective lens system. 2,964,997, 12-20-60, Cl. 88-57.
- Van Heel, Frederick H., to Shell Oil Co. Process for the recovery of secondary alcohols. 2,945,891, 7-19-60, Cl. 260-639.
- Van Heerden, Pieter J.: *See*—  
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- Van Helden, Robert: *See*—  
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- Van Hemert, Peter R.: *See*—  
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- Van Hoek, Cornelis: *See*—  
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- Van Hooze, William E., to Pendleton Tool Industries, Inc. Predetermined torque release wrench. 2,962,918, 12-6-60, Cl. 81-52.4.
- Van Horn, Grover P. Casket sealing structure. 2,940,155, 6-14-60, Cl. 27-17.
- Van Horn, John A.: *See*—  
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- Van Horn, John A., P. E. Biemiller, and J. H. Reese, to Hamilton Watch Co. Motor for electric watches. 2,948,821, 8-9-60, Cl. 310-27.
- Van Horn, John A., P. E. Biemiller, and J. H. Reese, to Hamilton Watch Co. Balance wheel. 2,953,896, 9-27-60, Cl. 58-28.
- Van Hook, John O.: *See*—  
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- Van Houten, Jan C.: *See*—  
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- Van Iperen, Bernardus B., to North American Philips Co., Inc. Reflex-klystron. 2,939,999, 6-7-60, Cl. 315-5.22.
- Van Jepmond, Howard: *See*—  
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- Van Jepmond, Howard K., to Zenith Radio Corp. Secrecy communication system. 2,929,865, 3-22-60, Cl. 178-5.1.
- Van Lare, Earl J., to Eastman Kodak Co. Hemioxonol dyes containing a carbocyclic nucleus and photographic emulsions containing them. 2,956,881, 10-18-60, Cl. 96-102.
- Van Leeuwen, Johannes A.: *See*—  
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- Van Lieshout, Loiusus J. A.: *See*—  
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- Van Loenen, William F., to Kaiser Aluminum & Chemical Corp. Method of handling liquors containing scale forming compounds. 2,930,677, 3-29-60, Cl. 23-143.
- Van Lottum, Johannes T. A.: *See*—  
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- Van Lottum, Johannes T. A., J. Domburg, and A. F. Verkruijsen, to North American Philips Co., Inc. Arrangement for automatic signalling system intended for transmitting voice-frequency calling signals. 2,951,911, 9-6-60, Cl. 179-90.
- Van Luik, Frank W., Jr., to General Electric Co. Vapor-liquid phase conversion. 2,962,265, 11-29-60, Cl. 257-43.
- Van Luit, Albert, & Co.: *See*—  
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- Van Marle, Frederick, to N.V. Technische Maatschappij Marchand-Andriessen. Apparatus for bundling a pile of articles, such as letters, newspapers, documents and the like. 2,920,553, 1-12-60, Cl. 100-27.
- Van Marle, Frederick, to N.V. Technische Maatschappij Marchand-Andriessen. Apparatus for attaching a clamping member to binding material. 2,957,408, 10-25-60, Cl. 100-33.
- Van Meter, Morton, to Industrial Brownholst Corp. Wheel suspension and stabilizing means for chassis. 2,928,486, 3-15-60, Cl. 180-401.
- Van Meter, Theodore, to Vickers Inc. Power transmission. 2,962,972, 12-6-60, Cl. 103-136.
- Van Namen, Charles, Jr., to Lear, Inc. Transistor heat sink. 2,935,666, 5-3-60, Cl. 317-234.



- Vanneman, Clinton R., and K. Klager, to Aerojet-General Corp. Geminal dinitro diaza dinitriles. 2,928,866, 3-15-60, Cl. 260-465.5.
- Van Moss, John H., Jr.: *See*—  
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- Van Ness, Hubert W., and W. E. Large, to Westinghouse Electric Corp. Electric discharge apparatus. 2,953,678, 9-20-60, Cl. 250-27.
- Van Nest, Arden L., and M. Wallberg, to Western Electric Co., Inc. Apparatus for feeding articles. 2,934,816, 5-3-60, Cl. 29-200.
- Van Nice, Robert I.: *See*—  
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- Van Nordstrand, Robert A., J. W. Teter, C. D. Keith, and A. P. Haul, to Engelhard Industries, Inc. Reforming catalyst. 2,938,211, 5-24-60, Cl. 252-466.
- Van Norman Industries, Inc.: *See*—  
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Steffes, Milton J. 2,919,902.
- Van Oordt, Adriaan J. V.: *See*—  
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- Van Oosten, Adrianus W. Stoplight. 2,947,970, 8-2-60, Cl. 340-50.
- Van Orden, Harold E.: *See*—  
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Gregor, John R., and Van Orden. 2,940,841.
- Vanous, Paul J.: *See*—  
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- Van Overbeek, Adrianus J. W. M., to North American Philips Co., Inc. Transistor amplifier. 2,920,277, 1-5-60, Cl. 330-19.
- Van Overbeek, Adrianus J. W. M., to North American Philips Co., Inc. Phase difference detector or frequency demodulator. 2,924,723, 2-9-60, Cl. 307-88.5.
- Van Overbeek, Adrianus J. W. M., to North American Philips Co., Inc. Detector circuit arrangement. 2,965,848, 12-20-60, Cl. 329-103.
- Van Overbeek, Adrianus J. W. M., E. Willems, and J. T. A. Van Lottum, to North American Philips Co., Inc. Semiconductor switching device. 2,935,623, 5-3-60, Cl. 307-88.5.
- Van Overbeek, Johannes: *See*—  
Ramey, David E., Hughes, and Van Overbeek. 2,955,929.  
Starre, Gerrit, Vaes, and Van Overbeek. 2,952,908.
- Van Overbeek, Johannes, to Shell Oil Co. Composition comprising a member of the group of tetrahydropyrimidines and glyoxalidines and a vegetable tannin. 2,940,895, 6-14-60, Cl. 167-33.
- Van Overbeek, Johannes, to Shell Oil Co. Method of controlling aquatic plants. 2,959,476, 11-8-60, Cl. 71-2.7.
- Van Overloop, Florent. Tobacco steaming apparatus. 2,962,222, 11-29-60, Cl. 239-251.
- Van Patten, Richard A., to United States of America, Air Force. Strip line microwave filters. 2,922,968, 1-26-60, Cl. 333-73.
- Van Pelt, Stanley M.: *See*—  
Erbguth, Paul F. K., and Van Pelt. 2,921,596.  
Erbguth, Paul F. K., and Van Pelt. 2,929,392.  
Langford, Robert C., and Van Pelt. 2,953,148.
- Van Pool, Joe, to Phillips Petroleum Co. Apparatus for contacting and subsequently separating immiscible liquids. 2,937,079, 5-17-60, Cl. 23-285.
- Van Pool, Joe, to Phillips Petroleum Co. Hydrocarbon conversion reaction vessel. 2,949,347, 8-16-60, Cl. 23-288.
- Van Poucke, Raphael K.: *See*—  
De Cat, Arthur H., and Van Poucke. 2,950,314.
- Van Putten, Catharinus J., and T. T. Boersma, to North American Philips Co., Inc. Adhesive comprising polyvinyl butyral resin, chromate salt and copper salt. 2,966,475, 12-27-60, Cl. 260-38.
- Van Raalte Co., Inc.: *See*—  
Connors, Robert L. T. 2,927,446.  
Connors, Robert L. T. 2,927,448.
- Van Raden, Harvey B. Brake spider. 2,965,199, 12-20-60, Cl. 188-78.
- Van Ranst, Cornelius W. Flexible coupling. 2,937,514, 5-24-60, Cl. 64-30.
- Van Ranst, Cornelius W. Resilient mounting. 2,941,766, 6-21-60, Cl. 248-10.
- Van Ranst, Cornelius W. Push cart with detachable sweeper unit. 2,965,910, 12-27-60, Cl. 15-79.
- Van Rijn, Jacobus C. Ventilating motor and fan. 2,926,838, 3-1-60, Cl. 230-117.
- Van Rijssel, Tijs W.: *See*—  
Jonker, Hendrik, Alink, and van Rijssel. 2,929,709.  
Jonker, Hendrik, Alink, and van Rijssel. 2,952,538.
- Van Riper, Jurian W. Plastic material extrusion head. 2,943,352, 7-5-60, Cl. 18-13.
- Van Rosen, Robert E. Box or container. 2,922,564, 1-26-60, Cl. 229-44.
- Van Rossum, Jacobus J., to Shell Oil Co. Gas-demisting apparatus with drained mat. 2,934,166, 4-26-60, Cl. 183-48.
- Van Ryan, Anthony: *See*—  
Date, Kazuo H., and Van Ryan. 2,926,228.
- Van Ryan, Anthony, to McGraw-Edison Co. Scheme and apparatus for sectionalizing electrical systems. 2,942,154, 6-21-60, Cl. 317-22.
- Van Santen, Johannes G.: *See*—  
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- Van Santen, Johannes G., and H. J. M. Joormann, to North American Philips Co., Inc. Photo-conductive device and method of manufacturing the same. 2,930,999, 3-29-60, Cl. 338-15.
- Van Santen, Johannes G., and G. Diemer, to North American Philips Co., Inc. Solid state image intensifier. 2,948,816, 8-9-60, Cl. 250-213.
- Van Schaik, Edward A.: *See*—  
Gould, Ira L., Van Schaik, and Tuck. 2,952,989.
- Van Schoik, Dickson: *See*—  
Operhall, Theodore, Schwartz, and Van Schoik. 2,961,751.
- Van Scoy, Davis A., to F. H. Maloney Co. Pipe tapping apparatus. 2,932,193, 4-12-60, Cl. 77-42.
- Van Sickle, Roswell C.: *See*—  
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- Van Sicker, Robert: *See*—  
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- Van Staaden, Cornelis A.: *See*—  
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- Van Stappen, Albert L., to E. I. du Pont de Nemours and Co. Drafting films. 2,964,423, 12-13-60, Cl. 117-76.
- Van Strien, Richard E.: *See*—  
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Bolton, Benjamin A., and Van Strien. 2,960,485.  
Swakon, Edward A., and Van Strien. 2,954,409.  
Young, Samuel, Jr., and Van Strien. 2,954,355.
- Van Strien, Richard E., to Standard Oil Co. Aphicidal composition. 2,955,979, 10-11-60, Cl. 167-30.
- Van Taack-Trakranen, Frederic: *See*—  
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- Van Tassel, Earl K.: *See*—  
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- Van Tassel, James. Automobile tent mounting. 2,937,651, 5-24-60, Cl. 135-4.
- Van Tilburg, Gerald C., to American Metal Climax, Inc. Copper electrodeposition process and anode for use in same. 2,923,671, 2-2-60, Cl. 204-52.
- Van Tuyl, Sidney. Cigarette filter. 2,936,764, 5-17-60, Cl. 131-208.
- Van Urk, Arend T., to North American Philips Co., Inc. Shear plate and cutter arrangement for a dry shaver. 2,923,057, 2-2-60, Cl. 30-43.
- Van Vactor, Alburto O., and E. C. Lash. Loading device for a packaging machine. 2,943,429, 7-5-60, Cl. 53-182.
- Van Valkenburgh, Horace B.: *See*—  
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- Van Valkenburgh, Nooger & Neville, Inc.: *See*—  
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- Van Vessem, Jan C., and T. Le Grand, to North American Philips Co., Inc. Method of manufacturing electrode systems comprising semi-conductive bodies, more particularly crystal diodes or transistors. 2,948,050, 8-9-60, Cl. 29-25.3.
- Van Vliet, James L.: *See*—  
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- Van Vlodrop, Peter H. G.: *See*—  
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- Van Volkenburgh, Edna S. Fish gripper. 2,950,939, 8-30-60, Cl. 294-16.
- Van Voorhees, Harold E., to General Motors Corp. Door latch for pillarless automobile. 2,922,672, 1-26-60, Cl. 292-11.
- Van Voorhees, Harold E., to General Motors Corp. Automobile door latch. 2,955,864, 10-11-60, Cl. 292-280.
- Van Vooren, Fred A. Water control systems for welding machines. 2,927,194, 3-1-60, Cl. 219-108.
- Van Voorst, Nelson T., to Geo. Stevens Mfg. Co. Coil winding mechanism. 2,964,068, 12-13-60, Cl. 140-92.2.
- Van Vucht, Johannes H. N.: *See*—  
Baronetzky, Egon O. M., and Van Vucht. 2,960,475.
- Van Wagenen, Donald: *See*—  
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- Van Wagener, Raymond H.: *See*—  
Morrison, Douglas L., and Van Wagener. 2,939,702.
- Van Wart, Isaac S., and A. F. Stamm, to Chrysler Corp. Power brake system emergency control. 2,933,160, 4-19-60, Cl. 188-152.
- Van Wessem, Gilbert C., to Warner-Lambert Pharmaceutical Co. Therapeutic compositions for oral and parenteral administration. 2,957,805, 10-25-60, Cl. 167-65.
- Van Wessem, Gilbert C., and E. L. Sakal, to Warner-Lambert Pharmaceutical Co. Therapeutic compositions of salts of 3,3-pentamethylene-4-hydroxybutyric acid. 2,960,441, 11-15-60, Cl. 167-65.
- Van Wie, Earl: *See*—  
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- Van Wie, Robert G., and J. B. Gatzemeyer, to General Electric Co. Flame igniter for gas turbine combustor. 2,958,196, 11-1-60, Cl. 60-39.82.
- Van Winkel, Carl E., R. V. Smith, and E. Hutz, to The Carwin Co. Electrolytic cell. 2,925,371, 2-16-60, Cl. 204-222.
- Van Wingerden, Robert G.: *See*—  
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- Van Winkle, Edgar W.: *See*—  
Cohen, Nathaniel L., and Van Winkle. 2,923,871.
- Van Winkle, Edgar W., to United States of America, Navy. Interstage coupling circuit for a direct current amplifier. 2,927,164, 3-1-60, Cl. 179-171.



- Van Winkle, Edgar W., to United States of America, Navy. Carrier responsive synchronizing system. 2,931,859, 4-5-60, Cl. 178-69.5.
- Van Winkle, Edgar W., to United States of America, Navy. Electronic camera focusing apparatus. 2,935,558, 5-3-60, Cl. 178-6.7.
- Van Winkle, Edgar W., to United States of America, Navy. Frequency control and synchronizing circuit. 2,940,052, 6-7-60, Cl. 331-47.
- Van Winkle, Edgar W., to United States of America, Navy. Facsimile recorder system. 2,946,848, 7-26-60, Cl. 178-6.8.
- Van Winkle, Edgar W., to United States of America, Navy. Precision sweep generator for producing linear or selected complex sweep functions. 2,955,255, 10-4-60, Cl. 328-183.
- Van Winkle, George W. G., R. W. Van Wyhe, and W. J. Lohstreter, to Boeing Airplane Co. Aircraft electronic equipment assembly. 2,938,686, 5-31-60, Cl. 244-118.
- Van Winsen, Friedrich H.: See—  
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- Van Wyhe, Richard W.: See—  
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- Van Wyngarden, Clarence R., 1/2 to J. M. Roberts. Insert fixture hanger and closure plate. 2,943,137, 6-28-60, Cl. 174-61.
- Vanyo, Andrew B. Collapsible trestle. 2,938,596, 5-31-60, Cl. 182-186.
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- Van Zonneveld, Pieter, to North American Philips Co., Inc. Method of sealing glass members together. 2,959,894, 11-15-60, Cl. 48-81.
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- Vapor Power Corp.: See—  
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- Vargo, Frank J., to Jackes-Evans Mfg. Co. Amplifying member and chamber construction for pilot-operated valves. 2,940,722, 6-14-60, Cl. 251-30.
- Vargo, John. Routing jig. 2,957,507, 10-25-60, Cl. 144-144.5.
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- Chodorow, Marvin. 2,924,738.
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- Gardner, Bernard C., and Reyling. 2,965,794.
- Hall, Hugh J. 2,947,920.
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- Nelson, Richard B. 2,939,036.
- Nelson, Richard B., and Symons. 2,963,616.
- Nelson, Walter E. 2,939,033.
- Rockwell, Robert G. 2,940,002.
- Symons, Robert S., and Schoennauer. 2,958,834.
- Varian, Russell H. 2,929,018.
- Walter, Richard L., Filmer, and Hiestand. 2,944,187.
- Ward, Curtis E. 2,939,031.
- Ward, Curtis E. 2,955,228.
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- Zitelli, Louis T. 2,943,234.
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- Varian, Sigurd F.: See—  
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- Varn, Charles F., to United States Rubber Co. Plural slitter cutters and the mounting means therefor. 2,940,350, 6-14-60, Cl. 83-482.
- Varn, Charles F., to United States Rubber Co. Feeding mechanism for extruders. 2,947,030, 8-2-60, Cl. 18-12.
- Varnadore, Shafter, and C. E. Motte. Portable chicken house and barn cleaner. 2,959,266, 11-8-60, Cl. 198-7.
- Varner, Charles W. Dredging apparatus. 2,956,354, 10-18-60, Cl. 37-63.
- Varner, Horace M.: See—  
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- Varnerin, Lawrence J., and G. J. Schulz, to Westinghouse Electric Corp. Ionization vacuum gauge. 2,963,601, 12-6-60, Cl. 313-7.
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- Vartanian, Richard D.: See—  
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- Fisher, Roy S., Otis, and Vasilevskis. 2,963,609.
- Vasilevskis, Henry S., to Philco Corp. Apparatus for color purity correction in color television receivers. 2,921,226, 1-12-60, Cl. 315-8.
- Vasilevskis, Henry S., to Philco Corp. Electrical apparatus. 2,925,506, 2-16-60, Cl. 313-068.
- Vassel, Bruno, to International Minerals & Chemical Corp. Isolation of cystine. 2,929,840, 3-22-60, Cl. 260-534.
- Vasselli, Anthony J. Centering device for lathes and the like. 2,944,454, 7-12-60, Cl. 82-15.
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- Vaterlaus, Bruno, and A. Furlenmeier, to UCLAF. Derivatives of dibenzo cycloheptadiene and a process of preparing same. 2,944,078, 7-5-60, Cl. 260-470.
- Vaudreuil, Edgar G.: See—  
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- Vaughan, Andrew E., Jr., and J. C. Fleeman, to Wytheville Machine Works, Inc. Forms and inserts for socks. 2,963,206, 12-6-60, Cl. 223-1.
- Vaughan, Aubrey W., Jr., to Continental Can Co., Inc. Egg gripping holder. 2,932,825, 4-12-60, Cl. 198-131.
- Vaughan, Christine U., R. E. Bond, and K. A. Milette, to V. & E. Mfg. Co. Pocket case with holders for instruments. 2,945,584, 7-19-60, Cl. 206-16.
- Vaughan, Clifford W., to E. I. du Pont de Nemours and Co. Synthesis of amines. 2,956,938, 10-18-60, Cl. 204-154.
- Vaughan, Gerald L., to Diamond National Corp. Continuous manufacture of profiled sawkerfed wooden clothespins. 2,921,614, 1-19-60, Cl. 144-9.
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- Vaughan, Robert T., to Philco Corp. Method of fabricating semiconductive devices and the like. 2,937,124, 5-17-60, Cl. 204-143.
- Vaughan, Roy A. Golf club carrier. 2,926,713, 3-1-60, Cl. 150-1.5.
- Vaughn, Edna M. Portable fumigator apparatus for vaporizing germicidal liquids. 2,937,419, 5-24-60, Cl. 21-126.
- Vaughn, Kenneth E. Bale binders. 2,949,196, 8-16-60, Cl. 214-10.5.
- Vaughn Machinery Co., The: See—  
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- Vaughn, Melvin G. Corn ear pick-up device. 2,935,834, 5-10-60, Cl. 56-15.
- Vaughn, Rudolph M. Split driver and removing tool. 2,949,949, 8-23-60, Cl. 145-50.
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- Vaudt, Albert W., and L. H. Washing device. 2,923,163, 2-2-60, Cl. 74-48.
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- Vawter, Dale. Pulp grinder water control. 2,929,568, 3-22-60, Cl. 241-67.
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- Vazquez, Charles: *See*—  
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- Veale, Charles C., to Western Electric Co., Inc. Welding apparatus. 2,928,930, 3-15-60, Cl. 219-81.
- Veatch, Franklin: *See*—  
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- Veatch, Walter L. Valve. 2,936,776, 5-17-60, Cl. 137-375.
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- Vecchi, Alberto, and G. Melone, to Lepetit S.p.A. Antibacterial azomethine derivatives of 5-cyano-2-thiophene or 4-cyanobenzene. 2,931,809, 4-5-60, Cl. 260-240.
- Vecchio, Louis F.: *See*—  
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- Vedder, Walter O., to Pangborn Corp. Fluid barrier. 2,954,968, 10-4-60, Cl. 263-50.
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- Veenendaal, George J., to Spotnails, Inc. Staple having oppositely inclined knife edge tips. 2,928,142, 3-15-60, Cl. 20-4.
- Veenstra, George L. Electric contact pressure treadle. 2,929,894, 3-22-60, Cl. 200-86.
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- Vegliante, Donald E., H. A. Sherwood, W. Rosenhagen, and G. I. Wicks, to H. A. Sherwood. Indexing system. 2,939,712, 6-7-60, Cl. 274-9.
- Ve Horn, David M. Apparatus for agitating and spraying liquids. 2,923,440, 2-2-60, Cl. 222-176.
- Veis, Arthur, and J. Cohen, to Armour and Co. Procollagen material. 2,935,413, 5-3-60, Cl. 106-124.
- Veitch, Albert H.: *See*—  
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- Veith, Werner: *See*—  
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- Veith, Werner, to Metallgesellschaft Aktiengesellschaft. Grate bar for sintering apparatus. 2,949,289, 8-16-60, Cl. 266-21.
- Veith, Werner, and P. Meyerer, to Siemens & Halske Aktiengesellschaft. Focused electron flow electron tubes for very high frequencies. 2,941,111, 6-14-60, Cl. 315-3.5.
- Veith, Werner A., to Siemens & Halske Aktiengesellschaft. Storage tube with circular scanning. 2,949,560, 8-16-60, Cl. 315-12.
- Velavicius, Alfonsas: *See*—  
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- Veldhuis, Benjamin, and R. J. Du Bois, to Allied Chemical Corp. Purification of dichloroacetaldehyde. 2,947,671, 8-2-60, Cl. 202-57.
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Muller, Georges, Vaterlaus, and Velluz. 2,939,870.
- Velluz, Leon, J. Anatol, and G. Amiard, to UCLAF. Process of making N,N-dibenzyl peptides. 2,927,107, 3-1-60, Cl. 260-112.
- Velluz, Leon, G. Amiard, J. Bartos, B. Goffinet, and R. Heymes, to UCLAF. Method of making oxytocin and intermediates thereof. 2,933,891, 5-31-60, Cl. 260-112.
- Velluz, Leon, and G. Muller, to Les Laboratoires Francais de Chimiotherapie. Aromatic derivatives of deserpidine and process of producing same. 2,956,999, 10-18-60, Cl. 260-287.
- Velsicol Chemical Corp.: *See*—  
Molotsky, Hyman M. 2,946,817.  
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Trademan, Leo, Malina, and Wilks. 2,927,882.
- Velten, Edwin: *See*—  
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- Velten & Pulver Inc.: *See*—  
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- Veltman, Herbert: *See*—  
Forward, Frank A., Veltman, and Vizsolyi. 2,950,964.
- Veltman, Preston L. Self bailing boat. 2,929,347, 3-22-60, Cl. 114-183.
- Vemco Products, Inc.: *See*—  
Miller, Harold L. 2,951,920.
- Venable, Joseph M., to Vimasco Corp. Fire-retardant coating composition. 2,956,037, 10-11-60, Cl. 260-30.6.
- Venditty, Anthony, and L. R. Hammer, to R. P. Scherer Corp. Multi-dose hypodermic injector. 2,928,390, 3-15-60, Cl. 128-173.
- Vendo Co., The: *See*—  
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Koelsch, Emery F. 2,933,183.  
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- Veneklasen, Paul S., and F. Jorgensen, to United States of America, Agriculture. Acoustic testing instrument. 2,922-303, 1-26-60, Cl. 73-159.
- Venetian Folding Door Corp.: *See*—  
Young, John C. and M. S. 2,952,311.  
Young, John C. and M. S. 2,952,312.
- Venezia, John B.: *See*—  
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- Vennhuyzen, Paul N. A.: *See*—  
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- Ventura, Joseph V. Musical toy. 2,955,502, 10-11-60, Cl. 84-94.
- Ventura Processors: *See*—  
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- Venture Corp., The: *See*—  
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- Venue, Ben, Laboratories Inc.: *See*—  
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- Venus Pen & Pencil Corp.: *See*—  
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- Verbakel, Martinus, to N.V. Vereenigde Tabaksindustrieën Mignot & De Block. Apparatus for making cigars. 2,945-499, 7-19-60, Cl. 131-29.
- Verburg, Robert M., to General Aniline & Film Corp. Polymerized alkyl vinyl ethers of improved stability. 2,962,476, 11-29-60, Cl. 260-45.85.
- Vercellone, Alberto: *See*—  
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- Verdesca, Anthony F., to Ver-Sa-Parts Mfg. Corp. Telephone dialing device. 2,929,884, 3-22-60, Cl. 179-90.
- Verdol, Joseph A., to Sinclair Refining Co. Lubricating oil composition. 2,944,025, 7-5-60, Cl. 252-51.5.
- Verdugo, Juan M.: *See*—  
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- Vereinigte Aluminium-Werke, Aktiengesellschaft: *See*—  
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- Vereinigte Österreichische Eisen- und Stahlwerke Aktiengesellschaft: *See*—  
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- Vereinigte Westdeutsche Waggonfabriken Aktiengesellschaft: *See*—  
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- Ve Relle, William H. Chemical dispenser. 2,950,959, 8-30-60, Cl. 23-267.
- Veres, Edward W., to Arrow Tools, Inc. Automatic filling system. 2,928,663, 3-15-60, Cl. 261-70.
- Veres, Edward W., to Arrow Tools, Inc. Filter unit and method of making. 2,963,163, 12-6-60, Cl. 210-496.



- Veres, Frank, to Owens-Illinois Glass Co. Glass-to-metal seals for cathode-ray tubes. 2,920,785, 1-12-60, Cl. 220-2.3.
- Veres, Frank, to Owens-Illinois Glass Co. Glass-to-glass seal. 2,931,142, 4-5-60, Cl. 49-92.
- Veres, Frank, to Owens-Illinois Glass Co. Laminated joint for glass parts and method of sealing. 2,936,923, 5-17-60, Cl. 220-2.1.
- Veress, Zoltán: *See—*
- Csordás, István, Lányi, Veress, and Vissy. 2,947,056.
- Vergobbi, John G., to Pneumatic Scale Corp., Ltd. Package. 2,944,715, 7-12-60, Cl. 229-14.
- Vergobbi, John G., to Pneumatic Scale Corp., Ltd. Lined carton and method of making the same. 2,950,036, 8-23-60, Cl. 229-14.
- Verhaeghe, Jacques R. P., R. D. Thomas, Jr., J. E. Norcross, J. K. Light, and R. D. Colinet, to LaSoudure Electrique Autogene, S.A. Welding torch. 2,960,598, 11-15-60, Cl. 219-130.
- Verhagen, Jan: *See—*
- Emsink, Johannes, and Verhagen. 2,931,987.
- Verheyden, Albert, and P. Ochsner, to Union Chimique Belge, S.A. Process for the preparation of crystalline polypropylenes. 2,940,962, 6-14-60, Cl. 260-93.7.
- Verhoeff, Jacob, to North American Philips Co., Inc. Shaft-positioning mechanism. 2,939,325, 6-7-60, Cl. 74-10.2.
- Verhoeff, Jacob, to North American Philips Co., Inc. Shaft-positioning servomotor mechanism. 2,940,031, 6-7-60, Cl. 318-467.
- Verhoeff, Jacob, and H. Van Boeyen, to North American Philips Co., Inc. Axially displaceable stop. 2,947,195, 8-2-60, Cl. 74-526.
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- Verkruissen, Arle F.: *See—*
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- Verlengia, Ralph. Liner for coat fronts. 2,923,945, 2-9-60, Cl. 2-97.
- Verley, Guy M., to Sinclair Refining Co. Anti-wear lubricating oil composition. 2,944,020, 7-5-60, Cl. 252-32.7.
- Vermet, Willem K.: *See—*
- Koning, Hendrik B., and Vermet. 2,941,600.
- Vermette, Howard. Chuck construction. 2,926,922, 3-1-60, Cl. 279-114.
- Vermeulen, Marc M. Preparation of vaccine with brucella killed by patulin compounds. 2,958,629, 11-1-60, Cl. 167-78.
- Vermeulen, Roelof, and D. Kleis, to North American Philips Co., Inc. Sound reproduction system. 2,931,862, 4-5-60, Cl. 179-1.
- Vermijs, Hendrikus C., to H. P. Gelderman & Zonen N.V. Process for bleaching textile materials pregated with sodium chlorite. 2,944,872, 7-12-60, Cl. 8-108.
- Vermilion, Willas L., Jr., to The Standard Oil Co. Alkylation process. 2,946,832, 7-26-60, Cl. 260-683.43.
- Vermillion, Herbert E.: *See—*
- Dille, Kenneth L., and Vermillion. 2,959,915.
- Hess, Howard V., Christensen, and Vermillion. 2,939,895.
- Sawyer, Richard L., and Vermillion. 2,965,458.
- Vernam, Gilbert S., to The Western Union Telegraph Co. Telegraph system. 2,938,944, 5-31-60, Cl. 178-2.
- Vernco Corp.: *See—*
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- Verner, Leif, to University of Idaho Research Foundation Inc. Method and apparatus for measurement of radial growth of trees. 2,924,019, 2-9-60, Cl. 33-170.
- Vernet, Sergius: *See—*
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- Vernet, Sergius. Flexible power element. 2,924,975, 2-16-60, Cl. 73-358.
- Vernet, Sergius, to Antioch College. Power translating device having an anti-extrusion disc. 2,931,390, 4-5-60, Cl. 137-789.
- Vernhes, Claude, and G. Boissinot, to Compagnie Generale de Telegraphie Sans Fil. Devices for the measurements of angular differences. 2,923,006, 1-26-60, Cl. 343-113.
- Vernhes, Jean-Michel. Automatic servo-action device for controlling change speed gears. 2,932,211, 4-12-60, Cl. 74-472.
- Vernon Devices, Inc.: *See—*
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- Vernon, George N. Taping trowels. 2,934,936, 5-3-60, Cl. 72-136.
- Ver Nooy, Burton, to T. D. Williamson, Inc. Conduit cleaning device. 2,932,837, 4-19-60, Cl. 15-104.18.
- Ver Nooy, Burton, to T. D. Williamson, Inc. Coupon retainer means. 2,941,427, 6-21-60, Cl. 77-42.
- Ver Nooy, Burton, to T. D. Williamson, Inc. Ball-type pipeline devices. 2,951,255, 9-6-60, Cl. 15-104.06.
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- Verrier, Jean: *See—*
- Ninet, Leon, and Verrier. 2,943,023.
- Ninet, Leon, and Verrier. 2,943,024.
- Ninet, Leon, and Verrier. 2,943,025.
- Ver-Sa-Parts Mfg. Corp.: *See—*
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- Verschaeve, Henry O.: *See—*
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- Verschragen, Hermanus P., to American Enka Corp. Spinning funnel. 2,940,243, 6-14-60, Cl. 57-76.
- Verschure, Henricus J. M.: *See—*
- Hoekstra, Jacob S., and Verschure. 2,962,774.
- Vershow, Daniel R., to Serv-O-Lift Corp. Serving mechanism. 2,932,403, 4-12-60, Cl. 211-49.
- Vershow, Daniel R., to Serv-O-Lift Corp. Serving mechanism. 2,932,404, 4-12-60, Cl. 211-49.
- Vershoven, Wilhelm. Record-tape music box. 2,944,116, 7-5-60, Cl. 179-100.1.
- Versil Ltd.: *See—*
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- Verson Allsteel Press Co.: *See—*
- Kassnel, Nicholas J. 2,936,055.
- Versoy, Harry N., and J. Erdman. River weight. 2,936,786, 5-17-60, Cl. 138-25.
- Versteeg, Joseph, to Esso Research and Engineering Co. Silver corrosion inhibited lubricating composition. 2,959,546, 11-8-60, Cl. 252-33.4.
- Verstraelen, Marie M. A. G.: *See—*
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- Verveer, Louis L. Game device. 2,939,709, 6-7-60, Cl. 273-118.
- Verweij, Evert J. W.: *See—*
- Eilings, Garmit A., Koelewijn, Verweij, and Klasens. 2,924,737.
- Verwey, Cornelis, and P. J. Schoenmakers, to Shell Development Co. Engaging fluidized solids for pneumatic transport. 2,921,818, 1-19-60, Cl. 302-53.
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- Vesely, Jerome A.: *See—*
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- O'Halloran, Rosemary, Vesterdal, and Beerbower. 2,959,548.
- Vesterman, Anatole, to U.C.L.A.F. Fungicidal cuprous oxide compositions. 2,923,655, 2-2-60, Cl. 167-16.
- Vesterman, Anatole, and A. Allais, to UCLAF. Fungicidal cuprous agent and process of making same. 2,944,073, 7-5-60, Cl. 260-438.
- Vetere, Nicholas A., to Arrow Metal Products Corp., Inc. Remote controlled adjustable awning. 2,952,049, 9-13-60, Cl. 20-57.5.
- Vetri Industriali S.A.R.L.: *See—*
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- Vetrocoke S.p.A.: *See—*
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- Vetter, Richard F.: *See—*
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- Vettori, Vicente. Machines for rectifying the faces of the end holes of vehicle plate springs. 2,940,223, 6-14-60, Cl. 51-114.
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- Vial, Joseph. Hoisting installations employing trucks with tipping tubs. 2,959,304, 11-8-60, Cl. 214-64.
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- Vibber, Alfred W. Twisting spindle balloon control. Re. 24,840, 6-14-60, Cl. 57-58.55.
- Vibber, Alfred W. Twisting spindle balloon control. 2,952,114, 9-13-60, Cl. 57-58.86.
- Vibber, Foster L., and R. R. St Jean. Transfusion apparatus. 2,925,814, 2-23-60, Cl. 128-214.
- Vibrane Corp.: *See—*
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- Vibro Mfg. Co., Inc.: *See—*
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- Vibro-Plus Corp.: *See—*
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- Vice, Charles L., and P. V. H. Serrell, to Sandberg-Serrell Corp. Method of manufacture of flexure member. 2,947,067, 8-2-60, Cl. 29-173.
- Vice, Virgil L.: *See—*
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- Vichniewsky, Rostislav: *See—*
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- Vielk, Otto A., to Gadget-of-The-Mouth Club, Inc. Ear cleaner and dryer. 2,948,280, 8-9-60, Cl. 128-304.
- Vick, Jesse T., Jr.: *See—*
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- Vickers-Armstrongs (Aircraft) Ltd.: See—  
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- Vickers, Roy G., to Brevets Aero-Mecaniques, S.A. Supplying ammunition to automatic guns. 2,936,677, 5-17-60, Cl. 89-33.
- Vickers, Stanley J., to American Brake Shoe Co. Pivoted bar cutter with automatic clamp. 2,939,353, 6-7-60, Cl. 83-82.
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- Vida, Alex. Method of manufacture of glass and/or ceramic mosaics. 2,949,689, 8-23-60, Cl. 41-23.
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- Vidmar, John P., to The M. A. Hanna Co. Railroad car spotter. 2,947,263, 8-2-60, Cl. 104-168.
- Viehmann, John C. L. Extension table and compartment suspension therefor. 2,923,583, 2-2-60, Cl. 312-246.
- Viehmann, Philip J., Jr., to ACF Industries Inc. Condition indicator for training devices. 2,963,795, 12-13-60, Cl. 35-12.
- Vieli, Otto A., and D. Klenk, to Cogepa Etablissement Commercial. Improved method of post compressing a carbamide resin foam. 2,933,767, 4-26-60, Cl. 18-48.
- Vielmo, Oskar, to Robert Bosch, G.m.b.H. Air cylinder arrangement for pneumatic brakes and the like. 2,932,280, 4-12-60, Cl. 121-38.
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- Viens, Henry J., to Thayer Furniture Corp. Latching connection for bed rails. 2,952,854, 9-20-60, Cl. 5-294.
- Vierk, Ernest R., and C. A. Mazzoni, Jr., to Sinclair Refining Co. Mold coating composition. 2,932,576, 4-12-60, Cl. 106-38,22.
- Vierk, Ernest R., and T. J. Karr, to Sinclair Refining Co. Lubricant composition. 2,947,697, 8-2-60, Cl. 252-55.
- Vierling, Oskar: See—  
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- Viets, Charles W. Flush type door having foamed plastic filler and method of constructing. 2,924,861, 2-16-60, Cl. 20-35.
- Viewlex, Inc.: See—  
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- Viggers, Robert F., and J. B. Rockstead, to Midland-Ross Corp. Viscosimeter having variable sensitivity and hydraulic servo output. 2,960,860, 11-22-60, Cl. 73-55.
- Vigliarolo, Nick. Ironing devices. 2,920,406, 1-12-60, Cl. 38-100.
- Vigliatura, Louis E., Jr. Heat-resistant abrasive wheels. 2,949,351, 8-16-60, Cl. 51-298.
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- Vigren, Sten D., R. A. Zander, and P. H. E. Claesson. Arrangement in polarized relays. 2,928,915, 3-15-60, Cl. 200-93.
- Vigren, Sten D. Current-feed arrangement in automatic telephone and telegraph systems. 2,962,554, 11-29-60, Cl. 179-16.
- Vik, Albam M., to Viking Corp. Guard tongue and ledger plate. 2,953,890, 9-27-60, Cl. 56-311.
- Viken, Reidar. Toy construction. 2,943,415, 7-5-60, Cl. 46-28.
- Viking Corp.: See—  
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- Viking Instruments, Inc.: See—  
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- Viking Mfg. Co.: See—  
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- Viland, Clare K.: See—  
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- Viland, Clare K., to Tidewater Oil Co. Selective hydrogenation of butadiene in admixture with butenes with cobalt molybdate as catalyst. 2,934,574, 4-26-60, Cl. 260-677.
- Vilardi, Frank: See—  
 Mastantuono, John F., and Vilardi. Re. 24,877.
- Vilarem, Francois P. Toy breathing apparatus for swimmers. 2,931,057, 4-5-60, Cl. 9-339.
- Vilbig, Friedrich, to United States of America, Air Force. Signal transmission. 2,928,902, 3-15-60, Cl. 179-15,55.
- Viles, Prentiss S., to Esso Research and Engineering Co. Reduction of ore. 2,953,450, 9-20-60, Cl. 75-26.
- Villadsen, Vagn H., to Aktieselskabet Thomas Ths. Sabroe & Co. Valve-lifting mechanisms for compressors. 2,963,917, 12-13-60, Cl. 74-110.
- Village of Deming, The: See—  
 Tilden, Carl V. 2,951,683.
- Villamosipari Kozpontii Kutató Laboratorium: See—  
 Zoltan, Istvan. 2,951,984.
- Villasenor, Jose L., and R. H. Leon, 1/2 to J. B. Abbey. Exhaust gas purifying attachment. 2,932,157, 4-12-60, Cl. 60-30.
- Villemeys, Lucien: See—  
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- Villepe, Paul, to Societe Civile dite: Office Technique International "O.T.I." Electromagnetic and electromechanical transmissions and torque converters. 2,957,364, 10-25-60, Cl. 74-472.
- Villette, Guy. Plating rack. 2,953,512, 9-20-60, Cl. 204-297.
- Villmann, Walter: See—  
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- Vilmerding, John B., to Ingersoll-Rand Co. Fastener delivery, holding and driving device. 2,953,049, 9-20-60, Cl. 81-54.
- Vilter, Ernest F. Collet chuck. 2,955,830, 10-11-60, Cl. 279-58.
- Vilter Mfg. Co., The: See—  
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 Tomkowiak, Sylvester A. 2,955,749.  
 Weinberg, Irving. 2,931,192.
- Vimasco Corp.: See—  
 Venable, Joseph M. 2,956,037.
- Vimic, Milorad, to Paillard S.A. Cinematographic camera. 2,936,131, 5-10-60, Cl. 242-55.11.
- Vincent, Albert J.: See—  
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- Vincent, Andrew W. Crossbar switch. 2,950,350, 8-23-60, Cl. 179-27,54.
- Vincent, Charles H., to National Research Development Corp. Method of and apparatus for electron multiplication. 2,929,949, 3-22-60, Cl. 313-105.
- Vincent, Harvard B.: See—  
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- Vincent, Harvard B., to Owens-Illinois Glass Co. Treating sealing edges of glass parts. 2,959,493, 11-8-60, Cl. 117-43.
- Vincent, John J.: See—  
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- Vincent, Renic P., to Pan American Petroleum Corp. Gas lift control apparatus. 2,951,451, 9-6-60, Cl. 103-232.
- Vincent, Rex E.: See—  
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- Vinding, Jorgen P., to Monogram Precision Industries, Inc. Square current wave generator for inductive circuits. 2,928,999, 3-15-60, Cl. 317-123.
- Vinding, Jorgen P., to Monogram Precision Industries, Inc. Driver for pulsing inductive circuits. 2,931,952, 4-5-60, Cl. 317-123.
- Vineberg, David A., and T. A. Messer, to Canada Wire and Cable Co. Ltd. Flush ferrule conductor joint. 2,958,929, 11-8-60, Cl. 29-155.55.



- Vineberg, Joseph H. Bag and handle structure therefor. 2,924,374, 2-9-60, Cl. 229-54.
- Vineberg, Joseph H. Packaging device. 2,935,181, 5-3-60, Cl. 206-7.
- Vines, Sterling N.: *See*—
- Burrus, Harry O., Sheard, and Vines. 2,920,098.
- Vineyard, Benny S.: *See*—
- Erickson, John H., and Vineyard. 2,960,125.
- Vining, William H.: *See*—
- Bergh, Sverre E., O'Callaghan, and Vining. 2,934,486.
- Vinkenulder, Bernard J. Strip-forming tool. 2,956,608, 10-18-60, Cl. 153-45.
- Vinson, Laurell H. Collapsible grill for spit of brazier. 2,939,384, 6-7-60, Cl. 99-421.
- Vinson, Thomas L.: *See*—
- Burke, Thomas U., Hughes, Reichle, and Vinson. 2,941,738.
- Burke, Thomas U., Hughes, Reichle, and Vinson. 2,941,739.
- Vinten, Charles. Control of the iris aperture size in photographic cameras. 2,921,511, 1-19-60, Cl. 95-64.
- Vinten, Charles. Curtain shutter for cameras. 2,931,284, 4-5-60, Cl. 95-57.
- Vinyl Products Ltd.: *See*—
- Mayne, John E. O., Warson, and Parsons. 2,931,819.
- Virbila, William C., to The Bristol Co. Recording apparatus record sheet receiving and removing means. 2,927,835, 3-8-60, Cl. 346-24.
- Virden, John C., Co.: *See*—
- Moser, Carl M. 2,925,982.
- Moser, Carl M. 2,930,459.
- Moser, Carl M. 2,934,184.
- Virgil, Theodore C., and M. F. Nathan, to The M. W. Kellogg Co. Hydrocarbon conversion process with the recovery of the catalytic fines. 2,941,938, 6-21-60, Cl. 208-140.
- Virginia-Carolina Chemical Corp.: *See*—
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- Goyette, Lewis E. 2,927,014.
- Goyette, Lewis E. 2,955,803.
- Manzelli, Manlio A., Young, and Harowitz. 2,924,554.
- Virginia Plastics Co.: *See*—
- Bogese, Stephen B., Lemon, and Stoner. 2,945,081.
- Vis, Robert W. Veterinary medicament dispenser. 2,944,560, 7-12-60, Cl. 137-101.25.
- Vischer, Alfred, Jr.,  $\frac{2}{3}$  to W. Vischer,  $\frac{1}{3}$  to A. Vischer III,  $\frac{2}{3}$  to A. Vischer, Jr., as trustee,  $\frac{1}{3}$  to W. W. Zitzewitz,  $\frac{2}{3}$  to E. K. Zitzewitz,  $\frac{1}{3}$  to G. J. Zitzewitz,  $\frac{1}{3}$  to B. O. Zitzewitz, and  $\frac{2}{3}$  to G. V. Bouton. Relief valves for flexible wall containers. 2,963,041, 12-6-60, Cl. 137-541.
- Vischer, Alfred, III.: *See*—
- Vischer, Alfred, Jr. 2,963,041.
- Vischer, Ernst: *See*—
- Wettstein, Albert, Vischer, and Meystre. 2,922,798.
- Wettstein, Albert, Vischer, and Meystre. 2,929,763.
- Wettstein, Albert, Vischer, and Meystre. 2,949,405.
- Vischer, William: *See*—
- Vischer, Alfred, Jr. 2,963,041.
- Visco Products Co.: *See*—
- Kirkpatrick, Willard H. 2,943,061.
- Kirkpatrick, Willard H. 2,950,272.
- Kirkpatrick, Willard H. 2,950,299.
- Kirkpatrick, Willard H. 2,950,310.
- Kirkpatrick, Willard H. 2,950,313.
- Kirkpatrick, Willard H. 2,965,658.
- Kirkpatrick, Willard H., and Seale. 2,935,474.
- Kirkpatrick, Willard H., and Seale. 2,941,943.
- Kirkpatrick, Willard H., and Seale. 2,946,747.
- Kirkpatrick, Willard H., and Walker. 2,925,429.
- Vismara, Francesco, Società per Azioni: *See*—
- Justoni, Romeo, and Pessina. 2,944,064.
- Visnapuu, Naima, to The Standard Oil Co. Method of preparing a gasoline additive containing a boron compound and tetraethyl lead fluid. 2,965,582, 12-20-60, Cl. 252-386.
- Viso S.A.: *See*—
- Zumbrunnen, Erhard. 2,920,354.
- Visos, Charles D.: *See*—
- Huck, Alfred J., and Visos. 2,942,541.
- Visser, Jacob, to Lear, Inc. Control stick force sensor. 2,934,292, 4-26-60, Cl. 244-83.
- Visser, Jacob, to Lear, Inc. Wheel force steering apparatus. 2,952,426, 9-13-60, Cl. 244-83.
- Visser, Pieter J.: *See*—
- Backus, Thomas, Perkins, and Visser. 2,924,111.
- Visser, Herbert, to Landbouwwerktuigen-en Machinefabriek H. Visser N.V. Apparatus for bruising green fodder. 2,940,494, 6-14-60, Cl. 146-186.
- Vissy, László: *See*—
- Csordás, István, Lányi, Veress, and Vissy. 2,947,056.
- Vistain, James E., Jr., to Admiral Corp. Record player spindle adapter. 2,935,324, 5-3-60, Cl. 274-10.
- Vistain, James E., Jr., to Admiral Corp. Automatic record player. 2,955,826, 10-11-60, Cl. 274-9.
- Visual Therapy Products Corp.: *See*—
- Sorenson, Alfred W. 2,955,593.
- Vitagen Corp.: *See*—
- Cameron, Jack W. 2,950,973.
- Vitale, Guido: *See*—
- Wax, Enrico, and Vitale. 2,936,900.
- Vitale, Peter T., R. L. Bruns, and R. S. Leonard, to Colgate-Palmolive Co. Mixed detergent composition. 2,949,425, 8-16-60, Cl. 252-138.
- Vitalo, Alfred E., to Bell Telephone Laboratories, Inc. Testing system. 2,957,055, 10-18-60, Cl. 179-175.2.
- Vitense, Harold R., to American Can Co. Apparatus for treating articles. 2,919,705, 1-5-60, Cl. 134-122.
- Vitense, Harold R., and W. F. Pillnik, to American Can Co. Apparatus for treating edge portions of can body blanks. 2,923,304, 2-2-60, Cl. 134-63.
- Vitro Corp. of America: *See*—
- Cicala, Vincent, and Jackson. 2,950,884.
- Fahnoe, Frederick, and Shyne. 2,938,839.
- Jackson, Philip W., Jr. 2,937,853.
- Raynsford, Charles K., and Merrick. 2,941,196.
- Reminger, August J., and James. 2,939,098.
- Vitte, Claude, Jr. Pin currier. 2,924,226, 2-9-60, Cl. 132-34.
- Viveen, Wilhelmus J. C.: *See*—
- Stedehouder, Pieter L., and Viveen. 2,925,430.
- Stedehouder, Pieter L., and Viveen. 2,952,695.
- Vivie, Wilhelmus L. L., to North American Philips Co., Inc. Film guiding and tensioning device. 2,935,271, 5-3-60, Cl. 242-35.11.
- Vixler, Leslie F., to The Patrol Valve Co. Double hypodermic needle type pilot burner. 2,933,133, 4-19-60, Cl. 158-115.
- Vizofilm Mfg. Corp.: *See*—
- Abrams, Fred, and Walters. 2,929,180.
- Vizsolyi, Andrew I.: *See*—
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- Vlachos, Constantinos H. Toy helicopter. 2,937,473, 5-24-60, Cl. 46-75.
- Vlahos, Petro, to Motion Picture Research Council, Inc. Speed variation indicator. 2,933,009, 4-19-60, Cl. 88-14.
- Vlahos, Petro, to Motion Picture Research Council, Inc. Light brightness meter. 2,933,010, 4-19-60, Cl. 88-23.
- Vlannes, Peppino N.: *See*—
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- Patt, Isaac. 2,939,699.
- Vitavsky, Milan,  $\frac{1}{2}$  to CKD Ceska Lipa, narodni podnik, Ceska Lipa, Czechoslovakia. Hydraulic control apparatus. 2,966,031, 12-27-60, Cl. 60-97.
- Voborsky, Ferdinand: *See*—
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- Vocht, Martin R., to Minneapolis-Honeywell Regulator Co. Housing means. 2,947,435, 8-2-60, Cl. 220-4.
- Vocke, Bernard J. Wheel cover lock. 2,919,739, 1-5-60, Cl. 152-431.
- Vodar, Boris: *See*—
- Epain, Raymond, Johannin, and Vodar. 2,948,556.
- Vodehnal, Jiri, to Arima, narodni podnik. Punched card reproducer. 2,934,144, 4-26-60, Cl. 164-114.
- Vodicka, Vincent: *See*—
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- Vodraska, Joseph H., and G. A. Drive-on lift trailer. 2,922-534, 1-26-60, Cl. 214-75.
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- Voegelien, Heinrich, to Fritz Buser A.G. Printing table with movable feed carriage on multi-color printing machines. 2,923,235, 2-2-60, Cl. 101-407.
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- Davis, Clyde W., Voeks, and Ehlers. 2,949,435.
- Voelcker, Carl S. Fuel injector pump and system. 2,963,014, 12-6-60, Cl. 123-139.
- Voelker, Austin P. Optical inspection instrument. 2,954,721, 10-4-60, Cl. 88-14.
- Voelkl, Alfred M. Variable speed transmission. 2,936,641, 5-17-60, Cl. 74-349.
- Voeltzel, Jacques: *See*—
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- Voelz, Gordon J., to Olin Mathieson Chemical Corp. Sanding machine. 2,963,831, 12-13-60, Cl. 51-142.
- Voet, Andries, to J. M. Huber Co. Carbon pellets for news ink manufacture. 2,960,413, 11-15-60, Cl. 106-307.
- Voge, Hervey H., to Shell Oil Co. Production of improved solid catalysts. 2,952,643, 9-13-60, Cl. 252-430.
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- Vogel, Alvin R., to Northrop Aircraft, Inc. Variable speed trim system. 2,923,503, 2-2-60, Cl. 244-83.
- Vogel, Alvin R., to Northrop Corp. Rotary hydraulic servo actuator. 2,946,320, 7-26-60, Cl. 121-120.
- Vogel, Alvin R., and E. C. Wirth, to Northrop Corp. Servo regulated elevator feel system. 2,955,784, 10-11-60, Cl. 244-83.
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- Jucker, Ernst, Rissi, Süss, Vogel, and Wolff. 2,955,113.
- Vogel, Arthur E.,  $\frac{1}{2}$  to Dawson-Vogel Engineering Co.,  $\frac{1}{4}$  to W. H. F. Schmieding, and  $\frac{1}{4}$  to P. Fultz. Mercury switch controller apparatus for vehicle suspension. 2,934,354, 4-26-60, Cl. 280-112.



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- Vogel, Ben Zion. Zirconium therapy in ivy poisoning. 2,930,735, 3-29-60, Cl. 167-53.
- Vogel, Charles B., to Shell Development Co. Geophysical hydrophone. 2,923,915, 2-2-60, Cl. 340-17.
- Vogel, Eric T.: See—
- Kent, Francis J., Hammon, and Vogel. 2,963,151.
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- Vogel, Karl W., and H. Lochmann, to Maschinenfabrik Augsburg-Nürnberg A.G. Intake passage for internal combustion engines. 2,921,571, 1-19-60, Cl. 123-188.
- Vogel, Leo J. Aerial tramway hopper car. 2,928,359, 3-15-60, Cl. 103-242.
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- Woodbury, William W., Toben, and Vogel. 2,951,534.
- Vogel, Otto F., R. B. Bonney, and L. S. Preston, to Electronic Engineering Co. of California. Plug-in circuit units. 2,945,989, 7-19-60, Cl. 317-101.
- Vogel, Paul: See—
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- Vogel, Paul R., to Fabrique des Montres Solvil & Titus S.A. Illuminated watch. 2,938,327, 5-31-60, Cl. 58-50.
- Vogel, Walter H.: See—
- Sramek, Elmer D., and Vogel. 2,953,880.
- Vogel, William M., Jr., to Standard Container, Inc. Spraying device. 2,961,170, 11-22-60, Cl. 239-361.
- Vogel, Wolfgang, and H. Lachmann. Swirl producing inlet port for internal combustion engine. 2,920,613, 1-12-60, Cl. 123-188.
- Vogelfanger, Isaac J., W. G. Beattie, G. J. Klein, A. J. Smialowski, and C. L. Fischer, to Canadian Patents and Development Ltd. Suturing apparatus. 2,940,451, 6-14-60, Cl. 128-334.
- Vogelman, Joseph H. Apparatus for separating a large frequency band into a plurality of sub-bands. 2,938,177, 5-24-60, Cl. 333-9.
- Vogelman, Joseph H., to United States of America, Air Force. Waveguide crystal assembly for broadband operations. 2,939,005, 5-31-60, Cl. 250-31.
- Vogelpohl, Rol L.: See—
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- Bellmann, Eugen. 2,938,699.
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- Vogl, Thomas P., R. O. McIntosh, and M. Garbuny, to Westinghouse Electric Corp. Vacuum-tight windows. 2,966,592, 12-27-60, Cl. 250-213.
- Vogt, Charles C. Discriminating fuze. 2,945,440, 7-19-60, Cl. 102-16.
- Vogt, Charles C. Drill mine. 2,949,853, 8-23-60, Cl. 102-10.
- Vogt, Charles C., and H. W. Semon, to United States of America, Navy. Mine case and instrument mounting system. 2,947,249, 8-2-60, Cl. 102-10.
- Vogt, Charles C., J. W. Martin, and H. A. Barber, to United States of America, Navy. Mine test set. 2,956,226, 10-11-60, Cl. 324-73.
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- Vogt, Clarence W. Tape dispensing and cutting device. 2,924,366, 2-9-60, Cl. 225-66.
- Vogt, Clarence W. Packaging fluent products. 2,934,867, 5-3-60, Cl. 53-30.
- Vogt, Clarence W. Apparatus for packing of pulverulent materials. 2,935,233, 5-3-60, Cl. 222-189.
- Vogt, Clarence W. Method and apparatus for filling containers. 2,949,711, 8-23-60, Cl. 53-24.
- Vogt, Clarence W. Method and apparatus for forming and filling packages. 2,949,713, 8-23-60, Cl. 52-29.
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- Vogt, Hans. Alkaline accumulator. 2,920,127, 1-5-60, Cl. 136-6.
- Vogt, Hans. Miniature accumulator. 2,928,888, 3-15-60, Cl. 136-6.
- Vogt, Hans. Porous sinter-frame for the storage of the electro-chemically active substance of an accumulator electrode. 2,955,146, 10-4-60, Cl. 136-61.
- Vogt, Henry, Machine Co.: See—
- Edmonds, Eugene A. 2,949,935.
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- Vogt, Kenneth S. Transistor inverter and half-wave rectifier circuit. 2,958,032, 10-25-60, Cl. 321-2.
- Vogt, Kenneth S., and L. E. Scott, to General Motors Corp. Push-pull transistor oscillator. 2,927,281, 3-1-60, Cl. 331-62.
- Vogt, Paul, to Derby S.A. Timepiece movement with a jumping second-beating hand. 2,921,476, 1-19-60, Cl. 74-84.
- Vogt, Paul, to Derby S.A. Musical box movement and winding means therefor. 2,930,272, 3-29-60, Cl. 84-95.
- Vogt, Richard, to Curtiss-Wright Corp. Wing construction for high speed aircraft. 2,936,966, 5-17-60, Cl. 244-2.
- Vogt, Richard, to Curtiss-Wright Corp. Flight training apparatus for hovering type aircraft. 2,954,614, 10-4-60, Cl. 35-12.
- Vogt, Robert J., and C. E. Wilson, to General Dynamics Corp. Pulse stretcher. 2,922,879, 1-26-60, Cl. 250-27.
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- Voigt, Robert H., to Tokheim Corp. Engine control system and apparatus. 2,949,906, 8-23-60, Cl. 123-179.
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- Voit, W. J., Rubber Corp.: See—
- Way, Jack W. 2,945,693.
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- Voit, Willy, and U. Aldinger, to Robert Bosch G.m.b.H. Adjustable injection pump. 2,935,061, 5-3-60, Cl. 123-139.
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- Bollmeier, Emil W., and Vokaty. 2,951,109.
- Volckening, Lloyd I., to Ivers-Lee Co. Package for fluent commodities. 2,962,192, 11-29-60, Cl. 222-107.
- Volckening, Lloyd I., J. R. O'Meara, and F. J. Lefebvre, to Ivers-Lee Co. Closed envelope package openable for inspection of contents. 2,921,731, 1-19-60, Cl. 229-76.
- Volck-Nu-Matic Corp.: See—
- Schoch, Alfred. 2,962,739.
- Vold, Gordon A.: See—
- O'Brien, Robert J., and Vold. 2,950,590.
- Voles, Roger: See—
- Spencer, Roy E., and Voles. 2,961,161.
- Volf, Matt A. Door opening mechanism. 2,925,267, 2-16-60, Cl. 268-59.
- Volf, Charles: See—
- Savard, Guy, and Volf. 2,964,612.
- Volf, Charles, and G. Savard, said Savard assor. to l'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude. Arc welding electrode. 2,938,108, 5-24-60, Cl. 219-146.
- Volhard, Ferdinand F. Weed guard. 2,959,069, 11-8-60, Cl. 74-611.



- Volk, Albert. Clothes hanger attachment. 2,931,548, 4-5-60, Cl. 223-98.
- Volk, Henry: *See*—  
Grabiel, Charles E., Russell, and Volk. 2,925,369.
- Volk, Joseph, and F. E. Kinsinger, to National Gypsum Co. Building lime. 2,956,867, 10-18-60, Cl. 23-293.
- Volk, Joseph, to National Gypsum Co. Hydrated lime. 2,957,776, 10-25-60, Cl. 106-118.
- Volk, Karl: *See*—  
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- Volk, Stuart M. Moisture meter. 2,958,820, 11-1-60, Cl. 324-65.
- Völkerling, Gerhard, and H. Eisler, to Licentia Patent-Verwaltung's G.m.b.H. Small electric motor. 2,952,788, 9-13-60, Cl. 310-266.
- Volkers, Hendrik: *See*—  
Noordanus, Johannes, and Volkers. 2,951,994.
- Volkert, De Witt M. Automatic reversing jack. 2,951,679, 9-6-60, Cl. 254-111.
- Volkert, F. N., & Co.: *See*—  
Christiansen, Robert J., Nevsimal, and Volkert. 2,944,453.
- Volkheimer, Willi: *See*—  
Burkhard, Franz, Gundfinger, and Volkheimer. 2,934,833.
- Volkmann, John E., to Radio Corp. of America. Picture and sound presentation systems. 2,940,356, 6-14-60, Cl. 88-16.2.
- Volkmann, John E., to Radio Corp. of America. Controlled sound reproduction. 2,941,044, 6-14-60, Cl. 179-100.1.
- Volkov, Esteban, and G. Rosenkranz, to Syntex S.A. 17-diacetols of estrone. 2,940,990, 6-14-60, Cl. 260-397.5.
- Volkswagenwerke G.m.b.H.: *See*—  
Boehner, Ludwig G., and Moller. 2,958,385.
- Gospodar, Reinhard. 2,940,249.
- Muegerl, Thomas, and Hoyer. 2,944,442.
- Voll, Samuel T., to Gadget-of-The-Month Club, Inc. Magnetic brake for fishing reel. 2,953,314, 9-20-60, Cl. 242-84.52.
- Voll, Samuel T., to Gadget-of-The-Month Club, Inc. Combined policeman's club and restraining device. 2,966,621, 12-27-60, Cl. 317-262.
- Voller, Heinrich: *See*—  
Schwabe, Eberhard, Kempkes, and Voller. 2,959,823.
- Vollertzen, Sven H.: *See*—  
Heckethorn, John E., and Vollertzen. 2,920,638.
- Vollmer, James, to Minneapolis-Honeywell Regulator Co. Measuring apparatus. 2,930,970, 3-29-60, Cl. 324-36.
- Vollrath Co., The: *See*—  
Loeffler, Robert W. 2,926,545.
- Volmer, Bodo, to Kronprinz Aktiengesellschaft. Fatigue testing machine for automobile wheels. 2,953,018, 9-20-60, Cl. 73-91.
- Vol-Pak, Inc.: *See*—  
Stroop, John H. 2,943,428.
- Volpin, Alexander S. Automatic lubricant sealed gate valve. 2,954,044, 9-27-60, Cl. 137-246.12.
- Volpin, Alexander S. Gate valve construction. 2,957,492, 10-25-60, Cl. 137-246.12.
- Voltmer, Helmut: *See*—  
Wolff, Edwin K., Voltmer, and Nelmeier. 2,958,267.
- Voltz, Sterling E., to Sun Oil Co. Preparation of viscous polymers. 2,965,691, 12-20-60, Cl. 260-683.15.
- Voltz, Sterling E., to Sun Oil Co. Preparation of viscous polymers. 2,965,692, 12-20-60, Cl. 260-683.15.
- Vomacka, Donald R. Unplugging mechanism for flow control device. 2,953,168, 9-20-60, Cl. 138-43.
- Von Machine & Mfg., Inc.: *See*—  
Von Haase, Victor A. 2,965,926.
- Vonaesch, Fritz: *See*—  
Weiss, Ernst, and Vonaesch. 2,926,414.
- Von Arb, Edward J., and H. J. Tenniswood, to Revco, Inc. Defrosting system and apparatus. 2,962,870, 12-6-60, Cl. 62-140.
- Von Ardenne, Manfred, to VEB Bakutronik Dresden. Ion getter pump. 2,943,459, 8-9-60, Cl. 230-69.
- Von Arnheim, Douglas. Device for throwing and catching balls. 2,961,239, 11-22-60, Cl. 273-96.
- Von Baumann, Elizabeth, to The Minkolein Co. Cosmetic preparations containing mink oil. 2,954,325, 9-27-60, Cl. 167-90.
- Von Behren, Edward E., to Westinghouse Air Brake Co. Automatic radio-transmitted brake application and release signalling apparatus for railway trains. 2,961,640, 11-22-60, Cl. 340-48.
- Von Berg, Robert L., and N. I. Poffenberger, to The Dow Chemical Co. Process for forming phenol-formaldehyde resinous condensates in continuous tubular reactors. 2,927,097, 3-1-60, Cl. 260-57.
- Von Bogdandy, Ludwig A., and H.-D. Pantke, to Huttenwerk Oberhausen A.G. Apparatus for measuring the melt temperature of air-blast converters. 2,942,470, 6-28-60, Cl. 73-339.
- Von Bomhard: *See*—  
Binder, Richard, and von Bomhard. 2,924,313.
- Von Bomhard, Franz, to Fichtel & Sachs A.G. Clutch re-engagement control device. 2,940,559, 6-14-60, Cl. 192-75.
- Von Bomhard, Franz J., to Fichtel & Sachs A.G. Clutch and transmission system for motor vehicles. 2,922,502, 1-26-60, Cl. 192-08.
- Von Canon, John B., Jr. Bed spring connector. 2,942,279, 6-28-60, Cl. 5-296.
- Von Culin, Raymond P.: *See*—  
Klausmann, Milton H., Brucker, and Von Culin. 2,943,769.
- Von Deran, Frederic C.: *See*—  
Hoffman, William M. 2,948,238.
- Von der Crone, Jost, to J. R. Geigy, A.G. Heterocyclic compounds and process for the production thereof. 2,964,533, 12-13-60, Cl. 260-325.
- Von der Heide, Elmer J. Process and apparatus for obtaining rubber or plastic sheeting of uniform thickness at high temperatures. 2,933,760, 4-26-60, Cl. 18-2.
- Von der Lancken, Julian. Storage device. 2,933,361, 4-19-60, Cl. 312-238.
- Von der Nuell, Werner T., R. W. Winslow, and W. D. Whitaker, to The Garrett Corp. Elastic fluid turbine and compressor wheels. 2,941,780, 6-21-60, Cl. 253-39.
- Von Dohlen, Werner C., and W. F. Tully, to Union Carbide Corp. Separation and recovery of picolines and lutidines from nitrogen base mixtures. 2,924,602, 2-9-60, Cl. 260-290.
- Von Elbe, Guenther: *See*—  
Karlovitz, Bela, Lewis, and Von Elbe. 2,925,620.
- Von Esch, Paul: *See*—  
Ritter, Eduard, and Von Esch. 2,950,543.
- Von Fieandt, Bror H. F.: *See*—  
Furendal, Allan R. B., Ekenstam, and von Fieandt. 2,948,634.
- Von Fuener, Wilhelm, W. Oettinger, O. Reitz, and E. Lorenz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for preparing catalysts utilizing alumina in the carriers. 2,932,620, 4-12-60, Cl. 252-465.
- Vonbun, Friedrich O.: *See*—  
Reder, Friedrich H., Vonbun, and Winkler. 2,933,696.
- Vonbun, Friedrich O., and G. M. R. Winkler, to United States of America, Army. Stabilization of microwave resonators. 2,958,833, 11-1-60, Cl. 333-83.
- Vonderschmitt, Bernard V.: *See*—  
Murakami, Tomomi, and Vonderschmitt. 2,964,674.
- Vongerichten, Emile G., to Sud-Aviation Societe Nationale de Constructions Aeronautiques. Flight control for gyroplanes. 2,940,526, 6-14-60, Cl. 170-160.13.
- Von Grumbkow, Botho. Suction cleaner. 2,941,231, 6-21-60, Cl. 15-323.
- Von Gugelberg, Hans L. Glow discharge tubes and circuits therefor. 2,946,921, 7-26-60, Cl. 315-84.6.
- Von Gunten, Leo J. Drinking vessel. 2,919,694, 1-5-60, Cl. 128-222.
- Von Haase, Victor A., to Von Machine & Mfg., Inc. Extrusion machines. 2,965,926, 12-27-60, Cl. 18-12.
- Von Haken, Kurd, to J. B. Hahn. Process for reducing iron ores at low temperatures. 2,932,563, 4-12-60, Cl. 75-26.
- Von Haxthausen, Elmar F., W. Mathes, and A. Wolf, to Dr. F. Raschig G.m.b.H. Aminopyridine compositions. 2,937,118, 5-17-60, Cl. 167-65.
- Von Hayn, Ernst: *See*—  
Andres, Helmut, von Hayn, and Roemert. 2,921,636.
- Von Hazmburg, Romulus S. Pulp process. 2,949,395, 8-16-60, Cl. 162-84.
- Von Heidenstam, Erik J. Improvements in storage plants. 2,927,452, 3-8-60, Cl. 72-6.
- Von Hofe, George W., to New Jersey Machine Corp. High speed article separator. 2,923,395, 2-2-60, Cl. 198-31.
- Von Hofe, George W., and E. K. Wulf, to New Jersey Machine Corp. Container wrapping system. 2,961,931, 11-29-60, Cl. 93-54.
- Von Hoffmann, Wilfried: *See*—  
Kolling, Helmut, Geiser, and von Hoffmann. 2,943,083.
- Von Hollen, Dietrich R., to Gottscho, Adolph, Inc. Marking apparatus. 2,919,643, 1-5-60, Cl. 101-288.
- Von Holtz, Charles T., to Harvey Hubbell, Inc. Three to two-wire plug adapter with grounding pigtail. 2,966,651, 12-27-60, Cl. 339-14.
- Von Hoorn, Fred G., to General Electric Co. Reed for electrical cord. 2,952,420, 9-13-60, Cl. 242-100.1.
- Vonhoff, William, Jr., and E. Patterson, Jr., to Thor Power Tool Co. Slitting chisel. 2,960,767, 11-22-60, Cl. 30-91.
- Von Karman, Theodore: *See*—  
Yuan, Shao W., and Von Karman. 2,925,129.
- Von Krannichfeldt, Walter: *See*—  
Brassel, Jacob, Fasciati, Gunst, and von Krannichfeldt. 2,938,024.
- Von Kritter, Ulrich, and H. Knaust. Endless belt trough conveyors. 2,936,875, 5-17-60, Cl. 198-155.
- Von Kritter, Ulrich, and H. Knaust. Apron conveyor. 2,958,414, 11-1-60, Cl. 198-196.
- Von Kummer, Ferdinand G., and A. H. Santucci, to Royal McBee Corp. Trigger circuits. 2,932,796, 4-12-60, Cl. 328-205.
- Von Kummer, Ferdinand G., and F. M. Gallagher, to Royal McBee Corp. Data translating units. 2,943,312, 6-28-60, Cl. 340-347.
- Von Kutepow, Nikolaus: *See*—  
Reppe, Walter, Pfab, von Kutepow, and Bueche. 2,951,881.
- Von Ludwig, Davidlee, to Selas Corp. of America. Method of refining metal. 2,920,362, 1-12-60, Cl. 22-216.
- Von Magnus, Gerhard. Record player comprising a device for setting different turntable speeds. 2,937,876, 5-24-60, Cl. 274-9.
- Von Martens, Peter, to L. Runeberg. Tablet case with a tablet holder. 2,935,180, 5-3-60, Cl. 206-42.



- Von Mehren, Oswald: *See*—  
Zeilman, Roy H., and von Mehren. 2,965,245.
- Von Meyer, Richard E. Record holder. 2,959,293, 11-8-60, Cl. 211-40.
- Von Micsky, Lajos I. Cervicometer. 2,924,220, 2-9-60, Cl. 128-361.
- Von Mikusch-Buchberg, Johannes D., to Lever Brothers Co. Fatty acid condensation products and process of preparation. 2,923,718, 2-2-60, Cl. 260-343.5.
- Von Mikusch-Buchberg, Johannes D., and K. H. Mebes, to Lever Brothers Co. Preparation of condensation products of acid anhydrides. 2,923,719, 2-2-60, Cl. 260-343.5.
- Von Nemeth, Josef, to Stewart-Warner Corp. Helix type delay detent. 2,925,778, 2-23-60, Cl. 102-78.
- Von Platen, Baltzar C. Fountain pens. 2,921,558, 1-19-60, Cl. 120-42.16.
- Von Platen, Baltzar C., and F. L. Jonsson. Water-cook with valve seating and valve body. 2,936,154, 5-10-60, Cl. 251-332.
- Von Platen, Baltzar C., and F. L. Jonsson. Fluid tight valve seat. 2,959,392, 11-8-60, Cl. 251-332.
- Von Reppert, Rüdiger L.,  $\frac{1}{2}$  to P. O. Tobeler, d.b.a. Trans-Oceanic. Method and apparatus for the granulation of metals. 2,939,172, 6-7-60, Cl. 18-24.
- Von Roll, L., A.G.: *See*—  
Ludin, Werner. 2,960,323.
- Von Rosenberg, Guido: *See*—  
Kaüpp, Josef, von Rosenberg, and Träger. 2,963,379.
- Koenig, Gunter, von Rosenberg, and Sapper. 2,925,349.
- Von Rudeen, Dolf. Cigarette package. 2,950,060, 8-23-60, Cl. 229-44.
- Von Ruling, Felix R., to Colaritz Korrosions-Gesellschaft m.b.H. Hot spray gun. 2,924,392, 2-9-60, Cl. 239-133.
- Von Saltza, Malcolm H.: *See*—  
Patterson, Ernest L., and Von Saltza. 2,955,110.
- Von Schick, Otto, and H. Metzger, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Cyclo-octanone oxime hydrochlorides which are liquid at room temperature, and a process of their production. 2,945,885, 7-19-60, Cl. 260-566.
- Von Seth, Rutger H., to Aktiebolaget Akers Styckerbruk. Centrifugal casting of tubular metallic bodies in hot, permanent molds, and method of manufacturing such molds. 2,940,141, 6-14-60, Cl. 22-113.5.
- Von Stocker, Selmer G.: *See*—  
Cline, Charles W., and Von Stocker. 2,957,092.
- Von Stocker, Selmer G., to Aluminum Co. of America. Universal ultrasonic sending and receiving apparatus. 2,956,185, 10-11-60, Cl. 310-8.7.
- Von Stoesser, Walter: *See*—  
Schjeldahl, Gilmore T., and Von Stoesser. 2,936,815.
- Von Thüngen, Hubert R., to Motorradfabrik Friedrichshafen. Steering arrangement for motor vehicles with application of an auxiliary power device. 2,931,240, 4-5-60, Cl. 74-388.
- Von Werder, Fritz: *See*—  
Zima, Otto, and Von Werder. 2,927,926.
- Von Wimmersperg, Heinrich F. Extensible, telescoping legs for supports. 2,933,275, 4-19-60, Cl. 248-191.
- Von Wimmersperg, Heinrich F. Safety belt device. 2,947,353, 8-2-60, Cl. 155-189.
- Von Wolfradt, Carl H., to Aerovent Fan Co., Inc. Heater unit. 2,966,347, 12-27-60, Cl. 263-19.
- Von Wranau, Guido, and E. G. Baker, to Gentex Corp. Method for spinning glass fibers. 2,929,675, 3-22-60, Cl. 18-54.
- Von Zborowski, Helmut P. G. A. R. Vertical take off aircraft with jettisonable auxiliary engine. 2,923,495, 2-2-60, Cl. 244-12.
- Von Zborowski, Helmut P. G. A. R. Annular wing flying machines. 2,933,266, 4-19-60, Cl. 244-12.
- Von Zborowski, Helmut Ph. G. A. R. Flying missiles. 2,957,416, 10-25-60, Cl. 102-50.
- Von Zelewsky, Ottomar, to Georg Fischer Aktiengesellschaft. Steady rest. 2,960,897, 11-22-60, Cl. 82-39.
- Von Zeppelin, Kurt: *See*—  
Junghans, Helmut, Von Zeppelin, and Weber. 2,925,024.
- Voorhees, Daniel W., Sr., to The Firestone Tire & Rubber Co. Trailer steering mechanism. 2,930,631, 3-29-60, Cl. 280-445.
- Voorhees, Vanderveer, to Standard Oil Co. Conversion of hydrocarbons. 2,958,637, 11-1-60, Cl. 204-154.
- Voorhies, Alexis, Jr., to Esso Research and Engineering Co. Upgrading a naphtha by fractionation and reforming the fractions. 2,937,132, 5-17-60, Cl. 208-64.
- Voorhies, Carl. Lash adjuster. 2,937,632, 5-24-60, Cl. 123-90.
- Voorhies, Donald A., to C. V. Hill & Co., Inc. Refrigerated shelf. 2,952,992, 9-20-60, Cl. 62-25.
- Voorhorst, Derk J., to W. J. Stokvis' Koninklijke Fabriek Van Metaalwerken N.V. Apparatus for producing a collar or coupling for a tube. 2,939,208, 6-7-60, Cl. 29-235.
- Voos, Walter, to Lonza Electric and Chemical Works Ltd. Purifying crude silicon. 2,937,929, 5-24-60, Cl. 23-223.5.
- Vordahl, Milton B.: *See*—  
Bomberger, Howard B., and Vordahl. 2,965,521.
- Vordahl, Milton B., to Crucible Steel Co. of America. Titanium base alloys. 2,950,191, 8-23-60, Cl. 75-175.5.
- Vordahl, Milton B., to Crucible Steel Co. of America. Production of wrought titanium base alloys and resulting product. 2,950,192, 8-23-60, Cl. 75-175.5.
- Vorenkamp, Egbert R. to Shell Oil Co. Submersible drilling barge. 2,938,353, 5-31-60, Cl. 61-46.5.
- Vorgan, Harry. Collapsible cover. 2,958,357, 11-1-60, Cl. 150-52.
- Vork, William D. Portable pneumatic spray-painting unit. 2,959,358, 11-8-60, Cl. 239-330.
- Vorkauf, Heinrich: *See*—  
Hülse, Werner. 2,922,405.
- Vorkauf, Heinrich. Hot water boiler. 2,962,004, 11-29-60, Cl. 122-406.
- Vorsatz, Fritz A. Process for the production of cosmetic creams and thickening agents therefor. 2,940,902, 6-14-60, Cl. 167-87.
- Vort, Maurice B. Snow plow bumper attachment. 2,955,367, 10-11-60, Cl. 37-42.
- Vos, Albert C., to N. V. Schokbeton. Case shaped mould devised for the manufacture of bodies from concrete or such like discharge material. 2,942,320, 6-28-60, Cl. 25-118.
- Vos, Johannes J., to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van de Rijksverdediging. Night visibility meter. 2,929,295, 3-22-60, Cl. 88-23.
- Vos, John W.: *See*—  
Phelan, Louis A. M., and Vos. 2,945,767.
- Vosbikian, Peter S. and T. S. Locking and biasing mechanism for bladed tools having pivotally connected handles. 2,929,141, 3-22-60, Cl. 30-261.
- Vosbikian, Peter S. and T. S. Handles for manual tools with means to interlock with the shank of a working tool. 2,941,294, 6-21-60, Cl. 30-340.
- Vosbikian, Peter S. and T. S. Waxing and polishing heads for mops. 2,943,339, 7-5-60, Cl. 15-118.
- Vosbikian, Peter S. and T. S. Shears. 2,944,340, 7-12-60, Cl. 30-248.
- Vosbikian, Peter S. and T. S. Brush having a main brush and a flexibly mounted roll in advance of said main brush. 2,946,073, 7-26-60, Cl. 15-118.
- Vosbikian, Peter S., and T. S. Paint scrapers. 2,958,552, 11-1-60, Cl. 287-53.
- Vosbikian, Thomas S.: *See*—  
Vosbikian, Peter S. and T. S. 2,929,141.
- Vosbikian, Peter S. and T. S. 2,941,294.
- Vosbikian, Peter S. and T. S. 2,943,339.
- Vosbikian, Peter S. and T. S. 2,944,340.
- Vosbikian, Peter S. and T. S. 2,946,073.
- Vosbikian, Peter S., and T. S. 2,958,552.
- Vosburgh, Malcolm C., E. Baum, and S. A. Demars, to International Telephone and Telegraph Corp. Electronic marker generator. 2,938,949, 5-31-60, Cl. 178-6.8.
- Vose, Richard S. Solvent refining process. 2,935,469, 5-3-60, Cl. 208-324.
- Vose, Robert W., to Moore Drop Forging Co. Chain link pipe wrench with plural handle-jaw surfaces. 2,944,452, 7-12-60, Cl. 81-68.
- Vose, Robert W., to Moore Drop Forging Co. Hydraulic hold open mechanism for hinged members. 2,948,915, 8-16-60, Cl. 16-82.
- Vosen, Roy J. Glare shield for motor vehicles. 2,930,650, 3-29-60, Cl. 296-97.
- Voskuilen, Jan P.: *See*—  
De Lugt, Jan M., and Voskuilen. 2,936,837.
- Vosmer, Harry N.: *See*—  
Mazer, Marshall, and Vosmer. 2,950,049.
- Mazer, Marshall, and Vosmer. 2,950,050.
- Mazer, Marshall, and Vosmer. 2,950,256.
- Voss, Don R., and S. R. O'Haver. Method and apparatus for heat treating articles with open end bores. 2,930,603, 3-29-60, Cl. 266-4.
- Voss, Donald J., and M. Theodore, to Mine Safety Appliances Co. Device for absorbing shock of tensile force. 2,921,318, 1-19-60, Cl. 2-3.
- Voss, Donald J., and M. Theodore, to Mine Safety Appliances Co. Helmet shell and method of making it. 2,956,916, 10-18-60, Cl. 154-110.
- Voss, Ernst: *See*—  
Albers, Arnold, and Voss. 2,957,778.
- Voss, Gerda: *See*—  
Irvine, Gordon L., and Voss. 2,939,978.
- Voss, Milo D.: *See*—  
McNabb, Harold S., Jr., and Voss. 2,962,591.
- Voss, Otto, Jr., and L. Willhoft. V-belt drive system. 2,925,293, 2-16-60, Cl. 287-53.
- Voss, Raymond O., to Corning Glass Works. Method of making a semicrystalline ceramic body. 2,960,802, 11-22-60, Cl. 49-77.
- Voss, Waldemar E., to L. Adams Ltd. Control valve. 2,950,898, 8-30-60, Cl. 251-214.
- Voss, Walter C. Money carrier. 2,955,337, 10-11-60, Cl. 24-81.
- Vossberg, Carl A. Pulsing methods and apparatus for the control of movable members. 2,937,327, 5-17-60, Cl. 318-448.
- Vossen, Edward, to Stop-Motion Devices Corp. Stop-motion detector for detecting the condition of bobbin thread in a sewing machine. 2,921,546, 1-19-60, Cl. 112-219.
- Vossenberg, Frank A., to The Yale & Towne Mfg. Co. Channel construction for industrial truck. 2,936,044, 5-10-60, Cl. 187-9.
- Vossenberg, Frank A., to The Yale and Towne Mfg. Co. Industrial truck having shiftable uprights. 2,962,180, 11-29-60, Cl. 214-674.



- Vossloh, Karl, to Vossloh-Werke G.m.b.H. Lock washer. 2,922,454, 1-26-60, Cl. 151-38.
- Vossloh-Werke G.m.b.H.: *See*—  
Vossloh, Karl. 2,922,454.
- Vöster, Reinhold, to Firma Vereinigte Baubeschlag-Fabriken Gretsch & Co. G.m.b.H. Raising sash. 2,933,778, 4-26-60, Cl. 20-53.
- Vosti, Albert P.: *See*—  
Prater, Arthur N., Vosti, Gormly, and Lukes. 2,957,771.
- Vostovich, Joseph E., and C. A. Bailey, to General Electric Co. Extrusion of cross-linked polyethylene and process of coating wire thereby. 2,930,083, 3-29-60, Cl. 18-55.
- Votaw, Clarence J.: *See*—  
Hanley, Frank H., and Votaw. 2,947,803.
- Voullaire, Izak J. Method and apparatus for packing fruit. 2,938,315, 5-31-60, Cl. 53-35.
- Voumard, Bertrand: *See*—  
Ryser, Ernst. 2,959,833.
- Voumard, Bertrand, and P. Monnier, to Voumard Machines Co. S.A. Method for moulding a tube of plastic material, device for carrying out this method and method for utilizing this device. 2,923,975, 2-9-60, Cl. 18-30.
- Voumard, Bertrand, and P. Monnier. Method for the manufacture of a collapsible tube and machine for carrying it out. 2,958,898, 11-8-60, Cl. 18-5.
- Voumard Machines Co. S.A.: *See*—  
Voumard, Bertrand, and Monnier. 2,923,975.
- Voymas, James S., and A. J. Ambuter, to United Aircraft Corp. Thrust reversers. 2,943,443, 7-5-60, Cl. 60-35.54.
- Vradenburgh, Robert, to Ward Leonard Electric Co. Magnetic amplifier dimmer. 2,939,050, 5-31-60, Cl. 315-278.
- Vradenburgh, Robert, to Ward Leonard Electric Co. Electrical contact mounting. 2,943,170, 6-28-60, Cl. 200-87.
- Vreeland, Thad, Jr.: *See*—  
Smith, Justin H., and Vreeland. 2,956,365.
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- Vulmiere, Huguette: *See*—  
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- Vulmiere, Jacques: *See*—  
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- Vuncannon, Sam H., to Vun-Russ Co., Inc. Window assembly. 2,926,397, 3-1-60, Cl. 20-42.
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- Vutz, Wilhelm, and E. E. Koch, to Sperry Rand Corp. Hay balers. 2,957,407, 10-25-60, Cl. 100-19.
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- Vyverberg, Robert G., to Haloid Xerox Inc. Electrostatic charging apparatus. 2,965,756, 12-20-60, Cl. 250-49.5.
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- Dubský, Borivoj, and Straka. 2,955,461.
- Koktan, Zdeněk. 2,922,631.
- Vyzkumny ústav tvarecích strojů a technologie tvareni: *See*—  
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- Waag, Harry O., to General Motors Corp. Plastic article and method of producing same. 2,948,651, 8-9-60, Cl. 154-110.
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- Wacht, Andrew J. Press. 2,936,636, 5-17-60, Cl. 74-106.
- Wachtel, Anselm, to Westinghouse Electric Corp. Method of preparing an electroluminescent zinc sulfide phosphor. 2,951,813, 9-6-60, Cl. 252-301.6.
- Wachtel, Clarence L. Safety swing. 2,960,180, 11-15-60, Cl. 182-3.
- Wachtel, Jack S.: *See*—  
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- Wachtel, Kurt. Railroad signalling. 2,966,582, 12-27-60, Cl. 246-249.
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- Wachter, Aaron, and R. Wieland, to Shell Oil Co. Corrosion- and fungus-inhibiting composition. 2,943,909, 7-5-60, Cl. 21-27.
- Wachter, Iechok L. Spool for sewing machines. 2,938,655, 5-31-60, Cl. 225-64.
- Wachter, Joseph J.: *See*—  
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- Wack, Floyd W., to Stark Ceramics, Inc. Rail lock for transfer cars. 2,919,657, 1-5-60, Cl. 104-48.
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- Wacker, Conrad P. Manually operated tamper or vibration tool driven by an internal combustion engine. 2,942,589, 6-28-60, Cl. 123-7.
- Wacker, George W. Method and apparatus for injection molding. 2,954,586, 10-4-60, Cl. 18-30.
- Wacker, George W. Method and apparatus for packaging fluid molding material. 2,961,705, 11-29-60, Cl. 18-30.
- Wackher, Richard C.: *See*—  
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- Waddey, Walter E.: *See*—  
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- Waddill, Paul M., to Phillips Petroleum Co. Distillation. 2,956,934, 10-18-60, Cl. 202-187.
- Waddill, Paul M., to Phillips Petroleum Co. Distillation method and apparatus. 2,961,398, 11-22-60, Cl. 208-366.
- Waddle, Howard M., J. F. Cotton, and R. E. Hudson, Jr., to West Point Mfg. Co. Treating process. 2,928,758, 3-15-60, Cl. 117-62.
- Wade, Dennis E., to The American Oil Co. Separation of hydrocarbon oil-solid particle suspensions. 2,952,620, 9-13-60, Cl. 208-162.
- Wade Electric Products Co.: *See*—  
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- Wade, Isaac N., to Gulf Oil Corp. Drum printing assembly. 2,960,025, 11-15-60, Cl. 101-44.
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- Wade, Lisby L., and M. G. Norris, Jr., to The Dow Chemical Co. Methods for controlling parasites attacking animals using phosphorates. 2,943,018, 6-28-60, Cl. 167-53.
- Wade, Ricardo H.: *See*—  
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- Wade, Robert C., to Metal Hydrides Inc. Preparation of cellular polyvinyl resins. 2,930,770, 3-29-60, Cl. 260-2.5.
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- Wade, Robert C., to Metal Hydrides Inc. Alkylation of benzene and catalysts therefor. 2,951,885, 9-6-60, Cl. 260-671.
- Wade, Robert C., J. J. McSharry, and M. D. Banus, to Metal Hydrides Inc. Method for extracting sodium borohydride. 2,942,934, 6-28-60, Cl. 23-14.
- Wade, Robert C., and P. L. Blanchard, to Metal Hydrides Inc. Polymer compositions comprising an alkali metal borohydride and stearic acid and preparation of cellular rubberlike articles therefrom. 2,951,819, 9-6-60, Cl. 260-2.5.
- Wade, Robert E. Furrow attachment for grain seeders. 2,925,056, 2-16-60, Cl. 111-86.
- Wade, Robert E., 1/2 to W. C. Wade. Spreader and feeder for traveling baler. 2,957,571, 10-25-60, Cl. 198-160.
- Wade, Robert E. and W. C. Seeder box mounting and drive connection for cultivators. 2,951,458, 9-6-60, Cl. 111-52.
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- Barnhart, William S., Wade, Wujciak, and Zollinger. 2,920,086.
- Wade, Wallace. Gas turbine engine. 2,955,425, 10-11-60, Cl. 60-39.36.
- Wade, Wenger & Associates, Inc.: *See*—  
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- Wade, Worth. Lubricating system. 2,961,276, 11-22-60, Cl. 308-78.
- Wade, Worth, and R. M. Winters, Jr., to American Viscose Corp. Method of producing elastic composite sheet material. 2,957,512, 10-25-60, Cl. 154-33.05.
- Wadefelt, Carl I. Rotary engines. 2,938,504, 5-31-60, Cl. 121-61.
- Wadleck, Joseph P.: *See*—  
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- Wadsworth, Francis T., to The American Oil Co. Pseudocumene recovery. 2,929,856, 3-22-60, Cl. 260-674.
- Wadsworth, Francis T., and P. D. May, to The American Oil Co. Insecticide. 2,938,827, 5-31-60, Cl. 167-22.
- Wadsworth, Francis T., and P. D. May, to The American Oil Co. Insecticidal composition comprising 2,2,4,4,6,6-tris-(tetra-methylene)-1,3,5-trithiane and 2,2,4,4,6,6 tris-(pentamethylene)-1,3,5-trithiane. 2,943,977, 7-5-60, Cl. 167-33.
- Wadsworth, Francis T., and L. M. Adams, to The American Oil Co. Preparation of substituted tetrahydroindenoindene. 2,953,609, 9-20-60, Cl. 260-668.
- Wadsworth, Leslie H., to Control Instrument Co. Bearing tester. 2,928,275, 3-15-60, Cl. 73-9.
- Wadsworth, Paul W., to Bell Telephone Laboratories, Inc. Telephone emergency reporting alarm system. 2,923,772, 2-2-60, Cl. 179-5.
- Wadsworth, Paul W., to Bell Telephone Laboratories, Inc. Multiparty telephone system. 2,966,553, 12-27-60, Cl. 179-17.
- Wadsworth, William A., to Bell Telephone Laboratories, Inc. Digital computer circuit. 2,937,810, 5-24-60, Cl. 235-165.
- Wadsworth, William B., and F. R. Poole, to David Clark Co. Inc. Ear protector and communication equipment. 2,946,862, 7-26-60, Cl. 179-182.
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- Waer, Richard R., to International Telephone and Telegraph Corp. Automatic phasing system for multichannel pulse code modulation systems. 2,927,965, 3-8-60, Cl. 179-15.
- Waer, Robert L., to Eitel-McCullough, Inc. Getter for electron tubes. 2,960,618, 11-15-60, Cl. 313-178.
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- Waerner, Lawrence T. Convertible combination coach seat and bed. 2,966,199, 12-27-60, Cl. 155-6.
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- Wagaman, Merle L., to Fibreboard Paper Products Corp. Window carton. 2,948,890, 8-9-60, Cl. 206-45.31.
- Wagener, Johann C. S., to Union Carbide Corp. Tantalum-titanium getter element. 2,948,607, 8-9-60, Cl. 75-174.
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- Wagenhauser, George J. Lighting assembly. 2,931,895, 4-2-60, Cl. 240-11.4.
- Waggner, Frances S. Clip for holding contoured hair. 2,935,071, 5-3-60, Cl. 132-46.
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- Waggoner, Jacob E. Hair trimmer attachment. 2,932,891, 4-19-60, Cl. 30-90.
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- Wagner, Carl-O. Rotary embossing device for endless printed tapes. 2,937,591, 5-24-60, Cl. 101-23.
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- Wagner, Charles L., to General Motors Corp. Fast opening choke mechanism. 2,957,465, 10-25-60, Cl. 123-119.
- Wagner, Charlie M. Electrical insulator contamination shield. 2,946,841, 7-26-60, Cl. 174-139.
- Wagner, Dewey A. Drawing device. 2,953,846, 9-27-60, Cl. 29-261.
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- Wagner, Ernest E. Variable speed constant power fluid transmission. 2,932,949, 4-19-60, Cl. 60-53.
- Wagner, Ernest E. Hydraulic slip compensating valve. 2,960,997, 11-22-60, Cl. 137-487.
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- Wagner, Ernst, to Deutsche Gold- und Silber-Scheideanstalt. Process for the preparation of finely divided ferromagnetic ferric oxide. 2,950,955, 8-30-60, Cl. 23-200.
- Wagner, Ernst, and J. Diether, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Stable dispersions of metal oxide blends and process for their manufacture. 2,951,044, 8-30-60, Cl. 252-313.
- Wagner, Ewald, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Hard soldering of difficultly solderable materials. 2,958,937, 11-8-60, Cl. 29-194.
- Wagner, Frank C., to Purolator Products, Inc. Sintering of metal elements. 2,928,733, 3-15-60, Cl. 75-221.
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- Wagner, Harold C., to Zirconium Corp. of America. Zirconia stabilization control. 2,937,102, 5-17-60, Cl. 106-57.
- Wagner, Herman B.: *See*—  
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- Wagner, Herman B., to Tile Council of America, Inc. Hydraulic cement mortar compositions and methods of use. 2,934,932, 5-3-60, Cl. 72-18.
- Wagner, Herman B., to Tile Council of America, Inc. High temperature Portland cement mortars. 2,959,489, 11-8-60, Cl. 106-93.
- Wagner, Herman B., to Tile Council of America, Inc. Cement compositions. 2,962,467, 11-29-60, Cl. 260-37.
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- Wagner, John A. Retractable vehicle steps. 2,925,876, 2-23-60, Cl. 182-91.
- Wagner, Josef. High-pressure gun for grease and oil. 2,928,574, 3-15-60, Cl. 222-108.
- Wagner, Joseph P., to Robertshaw-Fulton Controls Co. Thermostatically operated by-pass valve. 2,919,860, 1-5-60, Cl. 236-34.5.
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- Wagner, Manfred, to International Standard Electric Corp. Electrolytic condenser. 2,923,866, 2-2-60, Cl. 317-230.
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- Wagner, Max. Periodically operating flushing installation. 2,965,122, 12-20-60, Cl. 137-129.
- Wagner, Otto., to Grob & Co. Aktiengesellschaft. Heddle comprising eyes adjacent its ends. 2,949,936, 8-23-60, Cl. 139-96.
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- Wagner, Robert. Phonograph. 2,941,810, 6-21-60, Cl. 274-13.
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- Wagner, Robert W., to Dana Corp. Power take-off. 2,933,928, 4-26-60, Cl. 74—15.86.
- Wagner, Robert W., to Dana Corp. Power take-off having an interlock with fluid transmission. 2,958,225, 11-1-60, Cl. 74—15.4.
- Wagner, Robert W., to Dana Corp. Power take off. 2,960,880, 11-22-60, Cl. 74—15.86.
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  - Burg, Anton B., and Wagner. 2,921,096.
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- Wagner, Ross I., to American Potash & Chemical Corp. Phosphine borines and their preparation. 2,941,008, 6-14-60, Cl. 260—606.5.
- Wagner, Ross I., to American Potash & Chemical Corp. Phosphine borines and their preparation. 2,944,085, 7-5-60, Cl. 260—606.5.
- Wagner, Samuel. Nestable car top signs. 2,960,786, 11-22-60, Cl. 40—129.
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- Wagner, William A., to The Marquardt Corp. Slotted vane turbine governor. 2,962,258, 11-29-60, Cl. 253—59.
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- Wagon, Lyle. Corrugated paper shredding machine. 2,961,173, 11-22-60, Cl. 241—261.
- Wagoner, Billy J., to United States of America, Navy. Detonation circuit for multiple sensitivity fuze. 2,952,208, 9-13-60, Cl. 102—70.2.
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- Wahl, Harold F., to Electric Steel Foundry Co. Double socket and sling structure. 2,946,619, 7-26-60, Cl. 294—74.
- Wahl, John F., to Wahl Clipper Corp. Cutter head for dry shaver. 2,959,854, 11-15-60, Cl. 30—43.
- Wahl, John F., to Wahl Clipper Corp. Scissors. 2,965,967, 12-27-60, Cl. 30—341.
- Wahl, Karl, to Firma Emimeta Fabrikations-Anstalt. Apparatus for manufacturing color screens for use in connection with color photography. 2,942,293, 6-28-60, Cl. 18—5.
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  - Crosby, Charles H., Wahl, and Wahlberg. 2,956,390.
- Wahfield, James A. Storm window casing. 2,939,188, 6-7-60, Cl. 20—55.
- Wahlgren, Wallace W., to Electro Engineering Works. Transformer or reactor core structure. 2,947,961, 8-2-60, Cl. 336—216.
- Wahl, Marcel. Cutting tool. 2,958,241, 11-1-60, Cl. 77—73.5.
- Wahlig, Charles F., to E. I. du Pont de Nemours and Co. Method of image storage and release. 2,939,029, 5-31-60, Cl. 313—108.
- Wahlin, Fred W.: *See—*
- O'Brien, Edward J., and Wahlin. 2,964,248.
- Wahlin, Fred W., to Spraying Systems Co. Pipe side spray nozzle and clamps. 2,946,518, 7-26-60, Cl. 239—266.
- Wahlin, Fred W., to Spraying Systems Co. Spray gun. 2,956,752, 10-18-60, Cl. 239—526.
- Wahlmark, Gunnar A. Piston ball end. 2,947,182, 8-2-60, Cl. 74—60.
- Wahlmark, Gunnar A., to Borg-Warner Corp. Piston pump. 2,956,508, 10-18-60, Cl. 103—162.
- Wahlmark, Gunnar A. Piston. 2,956,845, 10-18-60, Cl. 309—4.
- Wahlroos, Arvi W., and E. T. Clocker, to Archer-Daniels-Midland Co. Hydraulic separation system. 2,931,499, 4-5-60, Cl. 209—12.
- Wahlroos, Arvi W., R. J. Stenberg, and J. W. Sigan, to Archer-Daniels-Midland Co. Hydraulic flotation system. 2,931,501, 4-5-60, Cl. 209—160.
- Wahlstrom, Gunnar, to Marchant Research, Inc. Encoders. 2,929,055, 3-15-60, Cl. 340—347.
- Wahlstrom, Magnus: *See—*
- Bannow, Rudolph F., and Wahlstrom. 2,930,291.
- Wahlstrom, Magnus, to The Bridgeport Machines, Inc. Hydraulic jack. 2,934,319, 4-26-60, Cl. 254—93.
- Wahrenberger, Arthur G., R. R. Mattingly, and W. A. Weinkamer, to Clevite Corp. Railroad journal bearing. 2,923,581, 2-2-60, Cl. 308—79.
- Waibel, Wilhelm, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Inhibited chlorite baths and method. 2,947,700, 8-2-60, Cl. 252—102.
- Waidt, George G. Dock supporting bracket. 2,940,714, 6-14-60, Cl. 248—221.
- Waig, Howard K. Vegetable slicing machine. 2,958,354, 11-1-60, Cl. 146—113.
- Wail, Norman, to Bendix Aviation Corp. Variable damped, high gain, low phase shift two motor servo system. 2,945,995, 7-19-60, Cl. 318—19.
- Wainer, Eugene, to Horizons Inc. Zinc recovery. 2,936,233, 5-10-60, Cl. 75—86.
- Wainer, Eugene, to Horizons Inc. Metallurgy of zinc. 2,936,234, 5-10-60, Cl. 75—88.
- Wainer, Eugene, to Horizons Titanium Corp. Electrolytic process. 2,937,979, 5-24-60, Cl. 204—64.
- Wainer, Eugene, to Horizons Inc. Production of titanium dioxide. 2,941,863, 6-21-60, Cl. 23—202.
- Wainer, Eugene, to Radio Corp. of America. Electrodes and methods of making same. 2,943,031, 6-28-60, Cl. 204—37.
- Wainer, Eugene, to Horizons Inc. Method of making ceramic dielectric. 2,948,628, 8-9-60, Cl. 106—39.
- Wainer, Eugene, to Horizons Inc. Removal of chromium from titanium dioxide product. 2,960,387, 11-15-60, Cl. 23—202.
- Wainio, Albert W., to Westinghouse Electric Corp. Discharge device. 2,930,919, 3-29-60, Cl. 313—109.
- Wainio, Albert W., and T. H. Heine, to Westinghouse Electric Corp. Discharge lamp. 2,930,934, 3-29-60, Cl. 315—46.
- Wait, Robert E.: *See—*
- Phillips, Harold P., and Wait. 2,932,871.
- Waite Carpet Co.: *See—*
- Yana, Joseph V. 2,964,067.
- Waite, Fred L., to American Machine & Foundry Co. Wrapping machine adjusting mechanism. 2,926,472, 3-1-60, Cl. 53—203.
- Waite, Fred L., to American Machine & Foundry Co. Wrapping material web feeding mechanism. 2,945,337, 7-19-60, Cl. 53—389.
- Waite, Frederick A.: *See—*
- Tilley, Colin G., and Waite. 2,951,072.
- Waite, Harry T., Jr.: *See—*
- Merrill, Patterson D., and Waite. 2,950,637.
- Waite, John P. Dipper cleaning apparatus for a back hoe. 2,939,595, 6-7-60, Cl. 214—510.
- Waite, Philip S.: *See—*
- Ford, Geoffrey E., and Waite. 2,966,099.
- Waitekus, Calvin J., to American Viscose Corp. Method of finishing textile fibers with phosphate antistatic agents. 2,945,774, 7-19-60, Cl. 117—139.5.
- Wakefield Co., The: *See—*
- Wakefield, George P. 2,958,761.
- Wakefield, Donald A.: *See—*
- Proett, Roland B., Wakefield, and Lyons. 2,924,021.
- Wakefield, George P., to The Wakefield Co. Overhead lighting equipment. 2,958,761, 11-1-60, Cl. 240—9.
- Wakeland, Henry H., and A. Broder, to Sperry Rand Corp. Strain-sensitive electrical pick-up device. 2,925,576, 2-16-60, Cl. 338—229.
- Wakeman, Alden H., to The Creamery Package Mfg. Co. Aerating and refrigerating apparatus. 2,946,205, 7-26-60, Cl. 62—304.
- Wakeman, Arthur G., to Coosa River News Print Co. Pulpwood-debarking drum having angularly slotted wall and stationary shearing bars. 2,943,656, 7-5-60, Cl. 144—208.
- Wakimot, Zenji, to Nippon Kogaku K.K. Rangefinder attachment for photographing nearby objects. 2,961,916, 11-29-60, Cl. 88—2.4.



- Walberg, Maynard E., to Allis-Chalmers Mfg. Co. Tractor implement connection. 2,919,754, 1-5-60, Cl. 172-7.
- Walbro Corp.: *See*—
- Eberline, William C. 2,935,977.
- Eberline, William C. 2,951,690.
- Walburn, Helen. Citrus product and process. 2,929,719, 3-22-60, Cl. 99-100.
- Walch, Eugen, and U. Aldinger, to R. Bosch, G.m.b.H. Injection pump arrangement for multi-cylinder internal combustion engines. 2,950,681, 8-30-60, Cl. 103-2.
- Walch, Kurt R., to General Electric Co. Wire-supporting arrangement. 2,923,510, 2-2-60, Cl. 248-68.
- Walch, Kurt R., and J. J. Winess, to General Electric Co. Panelboard wiring support arrangement. 2,946,929, 7-26-60, Cl. 317-122.
- Walco Electric Co.: *See*—
- Waldman, Edmund I., and Santos. 2,931,891.
- Walcon Corp.: *See*—
- Walker, Walter B., and Jaskowski. 2,955,526.
- Wald, Herman. Electric measuring device for mixed air temperature. 2,944,422, 7-12-60, Cl. 73-342.
- Wald Industries, Inc.: *See*—
- Shaffer, William R. 2,959,356.
- Wald, John R., Jr., and Wilson. 2,946,603.
- Wilson, Rufus W. 2,964,204.
- Wald, John R., Jr., and R. W. Wilson, to Wald Industries, Inc. Steering device for surface marking apparatus. 2,946,603, 7-26-60, Cl. 280-463.
- Wald, Wilbur J., to Neville Chemical Co. Rubber stabilization with monohydroxy phenolindene or coumarone alkylation product. 2,952,662, 9-13-60, Cl. 260-45.95.
- Waldau, Gunnar.: *See*—
- Sidenmark, Nils O. H., and Waldau. 2,931,083.
- Walde, Hermann, to DEMAG-Elektrometallurgie G.m.b.H. Apparatus for charging low-shaft arc furnaces. 2,964,308, 12-13-60, Cl. 266-9.
- Walden, Henry V., and R. H.: said H. W. Walden assor. to said R. H. Walden. Irrigating or spraying devices. 2,924,218, 2-9-60, Cl. 128-244.
- Walden, John G., and E. Y. F. Liu, to Dempster Brothers, Inc. Dumping containers. 2,951,602, 9-6-60, Cl. 214-304.
- Waldensian Hosiery Mills, Inc.: *See*—
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- Walder, Herman.: *See*—
- Buchi, Alfred. Re. 24,851.
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- Walder, Dr. Hermann.: *See*—
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- Waldhauer, Charles H., Jr.: *See*—
- Fulcher, Charles A., Heuser, Roberts, Rynearson, and Waldhauer. 2,954,691.
- Waldhauer, Charles H., Jr., to Minneapolis-Honeywell Regulator Co. Electromagnetic relay. 2,946,875, 7-26-60, Cl. 200-103.
- Waldhauer, Frederick D., to Radio Corp. of America. Signal amplifier circuits. 2,938,963, 5-31-60, Cl. 179-100.2.
- Waldherr, Wilhelm. Fluid dispenser. 2,933,222, 4-19-60, Cl. 222-394.
- Waldherr, Wilhelm. Spray head and filling plug. 2,952,278, 9-13-60, Cl. 141-20.
- Waldiesen, George J.: *See*—
- Schneider, William S. 2,942,760.
- Waldin, Mathew B.: *See*—
- Stewart, Selden L., II, and Waldin. 2,935,801.
- Waldman, David. Multipurpose orthodontic bracket. 2,958,945, 11-8-60, Cl. 32-14.
- Waldman, Edmund I., and J. Santos, to Walco Electric Co. Wire preheating device. 2,931,891, 4-5-60, Cl. 219-155.
- Waldman, Herbert, and E. Gelbman, to Robosonic National Industries Corp. Machine for reproducing intelligence from an intelligence carrier. 2,966,359, 12-27-60, Cl. 274-11.
- Waldman, Joseph, & Sons.: *See*—
- Sussman, Vincent. 2,943,359.
- Waldmann, Hans J.: *See*—
- Simon, Walter, Waldmann, and Plauth. 2,938,924.
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- Dunning, Robert M. 2,936,069.
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- Malra, Thomas G., Locke, and Jameson. 2,919,815.
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- Waldron, Benjamin F. One-way hydraulic brake. 2,953,222, 9-20-60, Cl. 188-90.
- Waldron, Harry E. Roofing construction. 2,936,723, 5-17-60, Cl. 108-10.
- Waldrop, James J. Free piston engine. 2,963,008, 12-6-60, Cl. 123-46.
- Waldrop, Jefferson P. Football game. 2,961,238, 11-22-60, Cl. 273-94.
- Waldrop, Robert F., to Milbank Mfg. Co., Inc. Mounting structure for electrical instruments having blade terminals. 2,931,879, 4-5-60, Cl. 200-170.
- Waldrop, Robert F., to Milbank Mfg. Co., Inc. Dual conductor terminal. 2,947,967, 8-2-60, Cl. 339-272.
- Waldrum, John C. Ankle ice pack. 2,949,914, 8-23-60, Cl. 128-402.
- Waldrum, John E., to Amchem Products, Inc. Spray device. 2,965,302, 12-20-60, Cl. 239-77.
- Waldvogel, Paul, to Aktiengesellschaft Brown, Boveri & Cie. Arrangement for bridging an electric circuit. 2,930,875, 3-29-60, Cl. 200-148.
- Walen, Ernest A.: *See*—
- Newell, Isaac L., and Walen. 2,955,027.
- Walerowski, Reinhard, to H. Putzer. Compressed-air motor for a hoisting gear. 2,927,669, 3-8-60, Cl. 192-3.
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- Schott, Arthur K. 2,964,984.
- Zumwalt, Robert F. 2,925,262.
- Wales, Jess P., to Mine and Smelter Supply Co. Ball mill grates. 2,950,869, 8-30-60, Cl. 241-70.
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- Wales, Nathaniel B. Floating buffer self-aligning electrical connector. 2,954,542, 9-27-60, Cl. 339-64.
- Wales, Richard N., to General Electric Co. Silverware buckets for automatic dishwashers. 2,957,817, 10-25-60, Cl. 204-248.
- Wales-Strippit Corp.: *See*—
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- Taylor, Paul H. 2,928,451.
- Walk-A-Lator Mfg. Co., Inc.: *See*—
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- Walker, Alan B.: *See*—
- Armstrong, John A., and Walker. 2,936,043.
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- Walker, Alec H. B., to Westinghouse Brake & Signal Co. Ltd. Circuit arrangements incorporating semi-conductor devices and to semi-conductor devices for use therein. 2,928,036, 3-8-60, Cl. 321-8.
- Walker, Alexander H.: *See*—
- Rife, Howard M., and Walker. 2,922,778.
- Walker, Alexander M.,  $\frac{3}{4}$  to J. G. Hoad. Spray drying apparatus and method. 2,957,519, 10-25-60, Cl. 159-4.
- Walker, Alice.: *See*—
- Kirkpatrick, Willard H., and Walker. 2,925,429.
- Walker, Allen C., to Rotol Ltd. Combined refrigeration and starting systems for aircraft. 2,930,205, 3-29-60, Cl. 62-241.
- Walker, Benjamin G.: *See*—
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- Garber, Samuel M., Jr., Walker, and True. 2,937,239.
- Walker, Benjamin G., to General Electric Co. Video recorder and reproducer. 2,952,745, 9-13-60, Cl. 179-100.2.
- Walker, Benjamin M.: *See*—
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- Walker, Brooks.: *See*—
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- Schultz, Henry J. 2,940,476.
- Walker, Brooks. Method of clearing mine fields. 2,925,038, 2-16-60, Cl. 102-23.
- Walker, Brooks. Key. 2,932,963, 4-19-60, Cl. 70-408.
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- Walker Brothers.: *See*—
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- Walker, Charles P., to Cocker Machine and Foundry Co. Apparatus for treating sheet or strand materials with liquids. 2,940,288, 6-14-60, Cl. 68-184.
- Walker, Charles S., to General Electric Co. Protective circuitry for rectifiers. 2,943,305, 6-28-60, Cl. 340-222.
- Walker, Charles W. E., to MacMillan Bloedel and Powell River Ltd. Noise reducing means for high speed perforated surfaces. 2,964,107, 12-13-60, Cl. 162-371.
- Walker, Craig L.: *See*—
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- Walker, Edward W., to Western Gulf Oil Co. Offshore platforms. 2,941,370, 6-21-60, Cl. 61-46.5.
- Walker, Emil C., Jr., to Comptometer Corp. Rotary switch governor. 2,920,158, 1-5-60, Cl. 200-80.
- Walker, Eugene J., and H. E. Reichert, to Westinghouse Electric Corp. Circuit interrupters. 2,942,083, 6-21-60, Cl. 200-144.
- Walker, Floyd L. Sheet metal reforming tool. 2,938,412, 5-31-60, Cl. 81-15.
- Walker, Frederick J.: *See*—
- Engelberger, Joseph F., Miles, and Walker. 2,960,070.



- Walker, Frederick W., to Owens-Corning Fiberglas Corp. Molded fibrous glass article. 2,938,737, 5-31-60, Cl. 280-150.
- Walker, George H. F., and F. R. Bradbury, to Imperial Chemical Industries Ltd. Production of maleic anhydride derivatives. 2,962,504, 11-29-60, Cl. 260-326.5.
- Walker, Gordon F., to Hoyt Mfg. Corp. Tumbler drive mechanism for dryers. 2,948,068, 8-9-60, Cl. 34-133.
- Walker, Isaac F.: *See—*
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- Walker, James E., Jr.,  $\frac{1}{2}$  to T. E. Walker. Helicopter. 2,938,679, 5-31-60, Cl. 244-17.23.
- Walker, James H.: *See—*
- Abbott, Andrew D., and Walker. 2,945,811.
- Shapero, Wallace H., and Walker. 2,955,643.
- Walker, James H., to California Research Corp. Lubricating oil compositions containing bi-metal dithiophosphates. 2,945,810, 7-19-60, Cl. 252-32.7.
- Walker, James R., to G. H. Cork. Magnetic relay. 2,937,332, 5-17-60, Cl. 323-89.
- Walker, Jay P., C. O. Glasgow, and J. L. Maher, to National Tank Co. Methods and means for resolving petroleum emulsion streams. 2,933,447, 4-19-60, Cl. 208-187.
- Walker, Jay P., and C. O. Glasgow, to National Tank Co. Methods and means for treating emulsified well streams and condensing vapors evolved therefrom. 2,939,544, 6-7-60, Cl. 183-2.7.
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- Walker, John R., III: *See—*
- Mann, June B. 2,941,578.
- Walker, John W. Adjustable range quick action cam clamp. 2,925,109, 2-16-60, Cl. 144-302.
- Walker, Juel M., to United States of America, Navy. Underwater explosive device. 2,953,092, 9-20-60, Cl. 102-7.
- Walker, Kendall L., to The Spencer Turbine Co. Blower. 2,932,444, 4-12-60, Cl. 230-129.
- Walker, Kenneth E., to Philco Corp. Amplifier phase-shift correction by feedback. 2,929,026, 3-15-60, Cl. 330-107.
- Walker, Kenneth E., to Philco Corp. Apparatus for controlling signal transfer in a color television system. 2,964-589, 12-13-60, Cl. 178-5.4.
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- Arnes, Lyle L. 2,963,330.
- Powers, Walter H. 2,934,161.
- Walker, Merle H.: *See—*
- Bullis, Douglas E., and Walker. 2,935,595.
- Walker, Nate S., to United States Steel Corp. Gage-control system for multi-stand strip mill. 2,949,799, 8-23-60, Cl. 80-35.
- Walker, Norman K., to Advanced Research Associates, Inc. Apparatus for detecting rate of change of angular attitude of a body. 2,944,214, 7-5-60, Cl. 324-70.
- Walker, Richard K.: *See—*
- Corrado, Victor M., and Walker. 2,923,212.
- Walker, Richard K., to Mergenthaler Linotype Co. Phototypographical machine. 2,959,111, 11-8-60, Cl. 95-4.5.
- Walker, Robert D. Marine landing assembly. 2,963,178, 12-6-60, Cl. 214-14.
- Walker, Robert H., Jr., to Poor & Co. Boltless rail joint. 2,966,309, 12-27-60, Cl. 238-254.
- Walker, Robert T. Apparatus for improving markmanship. 2,920,893, 1-12-60, Cl. 273-101.
- Walker, Robert T. Storage of vacuum hose. 2,953,806, 9-27-60, Cl. 15-315.
- Walker, Rowland: *See—*
- Bennett, John D., and Walker. 2,934,196.
- Walker, Roy L., to The Chloride Electrical Storage Co. Ltd. Electric storage battery carriers. 2,933,548, 4-19-60, Cl. 136-171.
- Walker, Russell, R. J. Kelly, J. G. Callahan, S. Alvine, Jr., and G. P. Maselli, to General Precision, Inc. Automatic synchro testing and recording apparatus. 2,966,669, 12-27-60, Cl. 340-315.
- Walker, Sanders B., Jr. Water temperature indicator. 2,957,348, 10-25-60, Cl. 73-347.
- Walker, Scott W., to Pan American Petroleum Corp. Process for separating primary from secondary alcohols. 2,923,733, 2-2-60, Cl. 260-475.
- Walker, Scott W., to Pan American Petroleum Corp. Fluidized bed reactor with internal tube structure design. 2,931,711, 4-5-60, Cl. 23-288.
- Walker, Scott W., to Pan American Petroleum Corp. Apparatus for gasification of solid materials. 2,965,461, 12-20-60, Cl. 48-63.
- Walker, Thomas H.: *See—*
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- Walker, Thomas J.: *See—*
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- Walker, Thomas Ltd.: *See—*
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- Wood, Herbert H. 2,964,817.
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- Walker, James E., Jr. 2,938,679.
- Walker, Walter B., and N. J. Jaskowski, to Walcon Corp. Louvered ventilator. 2,955,526, 10-11-60, Cl. 98-121.
- Walker, William A.: *See—*
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- Walker, William E. Machines for stripping unwanted material from cut blanks of cardboard and like material. 2,935,916, 5-10-60, Cl. 93-36.
- Walker, William P. Paint bucket support for use on staging. 2,925,979, 2-23-60, Cl. 248-146.
- Walker, William J. Means for the continuous proportioning of two or more liquids. 2,947,316, 8-2-60, Cl. 137-101.25.
- Walking, Helmut, to Schumag Schumacher Metallwerke G.m.b.H. Precision gauge for cylindrical work pieces. 2,955,358, 10-11-60, Cl. 33-143.
- Walkoe, Kenneth H., to General Electric Co. Domestic cooking appliance. 2,922,018, 1-19-60, Cl. 219-35.
- Walkowiak, Edward L. Hydraulic brake fluid-level indicator. 2,964,945, 12-20-60, Cl. 73-322.
- Walkup, Hunter H., and D. M. Moses, to United States of America, Navy. Magnetic plug. 2,963,646, 12-6-60, Cl. 324-38.
- Walkup, Lewis E., to Haloid Xerox Inc. Induction charging. 2,934,649, 4-26-60, Cl. 250-49.5.
- Walkup, Lewis E., to Haloid Xerox Inc. Transfer of electrostatic charge pattern. 2,937,943, 5-24-60, Cl. 96-1.
- Walkup, Lewis E., and W. E. Bixby, to Haloid Xerox Inc. Raised xerographic images. 2,955,035, 10-4-60, Cl. 96-1.
- Wall, Alan J., to Clayton Dewandre Co. Ltd. Heat transmitting tubes. 2,948,796, 8-9-60, Cl. 219-9.5.
- Wall, Alexander C.: *See—*
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- Wall, Howard M. Packaging machine for flat articles. 2,937,485, 5-24-60, Cl. 53-187.
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- Wall, James R., and M. S. Millhouse, to General Motors Corp. Apparatus for making synthetic resins. 2,958,516, 11-1-60, Cl. 259-8.
- Wall, John, Jr., and W. T. Mitchell, to Otis Engineering Corp. Anchoring and seal mechanisms for well tools. 2,922,477, 1-26-60, Cl. 166-136.
- Wall, Leo A., M. Hellman, and W. J. Pummer, to United States of America, Commerce. Method for the preparation of hexafluorobenzene. 2,927,138, 3-1-60, Cl. 260-650.
- Wall, Leo A., and J. D. Michaelsen, to United States of America, Commerce. Inhibited pyrolysis of fluorocarbon polymers. 2,933,536, 4-19-60, Cl. 260-653.1.
- Wall, Richard J.: *See—*
- Wall, William A. J. and R. J. 2,935,136.
- Wall, Richard J., to Rotol Ltd. Relief valves for fluid pumps. 2,928,418, 3-15-60, Cl. 137-540.
- Wall, Robert L., to General Electric Co. Magnetic core for dynamoelectric machines. 2,953,697, 9-20-60, Cl. 310-51.
- Wall, Robert L., to General Electric Co. Low noise rotor for dynamoelectric machines. 2,956,186, 10-11-60, Cl. 310-65.
- Wall, Virgil W.: *See—*
- Beagles, Robert, and Wall. 2,920,284.
- Wall, Walter J., Jr. Bottle opener. 2,937,778, 5-24-60, Cl. 215-46.
- Wall, William A. J. and R. J., to Rotol Ltd. Control systems for power plants. 2,935,136, 5-3-60, Cl. 170-135.74.
- Wallace, Albert: *See—*
- Ortega, Isidoro, and Wallace. 2,923,504.
- Wallace, Bert A., and E. Van Wie, to International Telephone and Telegraph Corp. Armature retaining assembly for an electromagnetic relay. 2,929,001, 3-15-60, Cl. 317-176.
- Wallace, Charles F., and J. O. Kirwan, to Wallace & Tiernan Inc. Gas flow control apparatus. 2,929,393, 3-22-60, Cl. 137-88.
- Wallace, Clarence L., Jr., and E. J. Diebold, to International Rectifier Corp. Hermetically sealed junction means. 2,921,245, 4-12-60, Cl. 317-234.
- Wallace, Curtis C., Jr.: *See—*
- Thomas, Paul E., and Wallace. 2,936,301.
- Wallace, David A. Boat mooring apparatus. 2,965,064, 12-20-60, Cl. 114-230.
- Wallace, De Loss D., to General Motors Corp. Constant pressure variable displacement pump. 2,929,329, 3-22-60, Cl. 103-120.
- Wallace, Donald C., to The Barber Mfg. Co. Automatic shut-off valve control for fuel burners. 2,962,094, 11-29-60, Cl. 158-132.
- Wallace, Edward H., J. M. Lane, and R. W. Vance, to United States Rubber Co. Tread construction and mold. 2,938-560, 5-31-60, Cl. 152-209.
- Wallace, Edwin G.: *See—*
- Menn, Jacob J., and Wallace. Re. 24,834.
- Wallace Expanding Machines, Inc.: *See—*
- Roper, Ralph E., and Fike. 2,955,556.
- Wallace, Frank B. Method of constructing a footing-and-floor construction. 2,960,745, 11-22-60, Cl. 25-155.
- Wallace, Frank H.: *See—*
- Beem, Donald W., Carter, and Wallace. 2,940,701.
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- Wallace, Frederick J., to American Cystoscope Makers, Inc. Means for anchoring a surgical device and a surgical drain embodying the same. 2,927,584, 3-8-60, Cl. 128-349.
- Wallace, General L. Tire rack and spreader apparatus. 2,940,679, 6-14-60, Cl. 254-50.4.
- Wallace, George A., to Globe Hoist Co. Frame engaging unit for vehicle hoists. 2,958,395, 11-1-60, Cl. 187-8.75.
- Wallace, H. W., & Co. Ltd.: See—  
More, Arthur R. 2,924,051.
- Wallace, John D.: See—  
Brown, James R., Wallace, and Lewis. 2,949,910.  
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- Wallace, John F.: See—  
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- Wallace, John T., to Eastman Kodak Co. Automatic spooling machine for 8 mm. film. 2,924,921, 2-16-60, Cl. 53-54.
- Wallace, John T., and C. R. Wilson, to Eastman Kodak Co. 135 automatic spooling machine. 2,940,232, 6-14-60, Cl. 53-112.
- Wallace, John W.: See—  
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- Wallace, Katharine C., to Atlas Stencil Files Corp. Filing hanger. 2,964,197, 12-13-60, Cl. 211-45.
- Wallace, Kenneth R., to Essex Wire Corp. Momentary contact switch. 2,941,056, 6-14-60, Cl. 200-87.
- Wallace, Kenneth R., and N. R. Brock, to Essex Wire Corp. Directional signal device. 2,927,981, 3-8-60, Cl. 200-61.3.
- Wallace, Leslie C.: See—  
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- Wallace Metal Products, Inc.: See—  
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- Wallace, Milner W.: See—  
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- Wallace, Milner W., to International Telephone and Telegraph Corp. Electrode support arrangement. 2,958,800, 11-1-60, Cl. 313-83.
- Wallace, Philemon A.: See—  
Hastings, Donald F., Venezia, and Wallace. 2,921,204.  
Hastings, Donald F., and Wallace. 2,950,420.
- Wallace, Richard A.: See—  
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- Wallace, Richard A., to Burroughs Corp. Fractional revolution bi-directional clutch. 2,927,670, 3-8-60, Cl. 192-12.
- Wallace, Richard A. Cut-off means for pipe-cutting and threading machine. 2,962,920, 12-6-60, Cl. 82-92.
- Wallace, Richard R.: See—  
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- Wallace, Richard R., and R. F. Grunwald, to Harwald Co. Control mechanism for automatic film inspecting device. 2,939,972, 6-7-60, Cl. 310-112.
- Wallace, Robert M.: See—  
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- Wallace, Robert T., to Owens-Illinois Glass Co. Molded articles having molding seams or the like formed on the base thereof. 2,936,920, 5-17-60, Cl. 215-1.
- Wallace, Roger W.: See—  
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- Wallace, Roger W. Hydrostat switch for a mine. 2,959,124, 11-8-60, Cl. 102-16.
- Wallace, Rudolf N., to United Aircraft Corp. Fluid connection through a pressure shell. 2,954,049, 9-27-60, Cl. 137-590.
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Scudi, John V., Reisner, Childress, and Walter. 2,947,755.
- Wallace, Charles F., and Kirwan. 2,929,393.
- Wallace, Walter E., to Wallace Metal Products, Inc. Casket. 2,963,766, 12-13-60, Cl. 27-17.
- Wallach, Irving D., to Conotore, Inc. Transmission. 2,926,552, 3-1-60, Cl. 74-757.
- Wallach, Irving D., to Conotore Inc. Transmission. 2,959,071, 11-8-60, Cl. 74-751.
- Wallach, Irving D., to Conotore Inc. Power transmission. 2,959,072, 11-8-60, Cl. 74-751.
- Wallack, Stanley, to Leeson Corp. Power supply. 2,954,516, 9-27-60, Cl. 323-23.
- Wallberg, Marshall: See—  
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- Wallen, David L., to General Precision, Inc. Magnetic transducer head. 2,961,495, 11-22-60, Cl. 179-100.2.
- Wallenberg, Ned L., and J. F. Hopp, to Union Special Machine Co. Sewing machines. 2,965,056, 12-20-60, Cl. 112-208.
- Wallene, Frank O. Control apparatus. 2,923,831, 2-2-60, Cl. 307-34.
- Wallens, Anthony W., and B. W. Evershed, to Creed & Co. Ltd. Tape storage apparatus. 2,956,270, 10-11-60, Cl. 340-259.
- Waller, Arnoud, to Albratos Superfosfaatfabrieken N.V. Weighing appliance. 2,923,517, 2-2-60, Cl. 249-1.
- Waller, Arthur, and O. Isensee, Jr., to Bull Dog Lock Co. Hanger bracket. 2,939,661, 6-7-60, Cl. 248-31.
- Waller, Coy W., M. J. Weiss, and J. S. Webb, to American Cyanamid Co. Nitropyrroles. 2,962,503, 11-29-60, Cl. 260-326.3.
- Waller, Fred, to The Prudential Insurance Co. of America. Shutter for multi lens cameras. 2,966,095, 12-27-60, Cl. 88-16.6.
- Walles, Wilhelm E.: See—  
Tousignant, William F., and Walles. 2,941,907.  
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- Walles, Wilhelm E., to The Dow Chemical Co. Method for treating polyethylene and treated polyethylene articles thereby obtained. 2,937,066, 5-17-60, Cl. 8-4.
- Walles, Wilhelm E., and W. F. Tousignant, to The Dow Chemical Co. Water-soluble copolymers of ring-substituted N-vinyl-2-oxazolidinone. 2,946,772, 7-26-60, Cl. 260-77.5.
- Walles, Wilhelm E., and W. F. Tousignant, to The Dow Chemical Co. Water-soluble copolymers of ring-substituted N-vinyl-2-oxazolidinone. 2,946,773, 7-26-60, Cl. 260-77.5.
- Walles, Wilhelm E., and W. F. Tousignant, to The Dow Chemical Co. Water-soluble copolymers of ring-substituted N-vinyl-2-oxazolidinone. 2,948,708, 8-9-60, Cl. 260-77.5.
- Wallgren, August G. F. Machines comprising two elements displaceable relative to one another. 2,924,491, 2-9-60, Cl. 308-5.
- Wallick, Earle W.: See—  
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- Wallin, Arthur S., to Hydrometals, Inc. Coiling apparatus. 2,951,657, 9-6-60, Cl. 242-78.1.
- Wallin, Gus W., to Bell & Howell Co. Slide carrying means. 2,938,288, 5-31-60, Cl. 40-79.
- Walling, Francis L.: See—  
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- Walling, Francis L., and S. M. Sliva, to The Singer Mfg. Co. Belt drives for sewing machines. 2,964,001, 12-13-60, Cl. 112-220.
- Walling, Matthew T., Jr.: See—  
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- Walling, William R. Loom harness lifting apparatus. 2,960,115, 11-15-60, Cl. 139-30.
- Wallis, Barnes N., to Vickers-Armstrongs (Aircraft) Ltd. Variable sweepback aeroplane. 2,922,601, 1-26-60, Cl. 244-46.
- Wallis, Bernard J. Transfer device. 2,929,485, 3-22-60, Cl. 198-19.
- Wallis, Cyril T.: See—  
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- Wallis, John S.: See—  
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Throckmorton, John W., and Wallis. 2,964,033.
- Wallis, John S., and J. W. Throckmorton, to Yuba Consolidated Industries, Inc. Tubular heater. 2,930,363, 3-29-60, Cl. 122-333.
- Wallis, John S., and J. W. Throckmorton, to Yuba Consolidated Industries, Inc. Method and apparatus for burning low volatile fuel. 2,931,324, 4-5-60, Cl. 110-22.
- Wallis, John S., and J. W. Throckmorton, to Yuba Consolidated Industries, Inc. Conical furnace. 2,965,080, 12-20-60, Cl. 122-356.
- Wallis, Lyle, W. H. Wheeler, and C. H. Gienza, to The Martin Co. Laminated thermal insulation. 2,924,537, 2-9-60, Cl. 117-46.
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- Walls, Frederick A., to Pivana & C. Soc. per Az. Intermittent drive device. 2,928,284, 3-15-60, Cl. 74-27.
- Walls, Harry E., and V. R. Torgerson; said Torgerson assor. to said Walls. Retriever for pneumatic delivery tube carriers. 2,957,723, 10-25-60, Cl. 294-99.
- Walls, James. Adjustable supporting device. 2,949,272, 8-16-60, Cl. 248-205.
- Wallshein, Melvin. Orthodontic brackets. 2,921,371, 1-19-60, Cl. 32-14.
- Wallshein, Melvin. Orthodontic brackets. 2,926,422, 3-1-60, Cl. 32-14.
- Wallum, Alferd A. Automatic steering control for garden tractors or the like. 2,944,619, 7-12-60, Cl. 180-79.
- Wallwork, Samuel L.: See—  
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- Walmer, Marlin S.: See—  
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- Walmsley, Ivor D. Turning lathe. 2,950,117, 8-23-60, Cl. 279-123.
- Walmsley, Leslie L., to The Chemstrand Corp. Acid pretreatment of polyacrylonitrile-type fibers and the treated fibers. 2,932,550, 4-12-60, Cl. 8-21.
- Walmsley, Leslie L., to American Viscose Corp. Cut pile carpeting and method of making the same. 2,955,346, 10-11-60, Cl. 28-76.
- Walmsley, Leslie L., to American Viscose Corp. Yarn skein dyeing apparatus. 2,963,894, 12-13-60, Cl. 68-206.
- Walmsley, Sidney: See—  
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- Walser Co.: See—  
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- Walser, Frederick R., to Houdry Process Corp. Catalytic conversion of hydrocarbons in a moving bed reaction zone with the addition of steam to control reaction temperatures. 2,951,806, 9-6-60, Cl. 208-167.
- Walsh, Arthur G.: *See*—  
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- Walsh, Arthur S., to The General Electric Co. Ltd. Waveguide arrangements including windows for passing electromagnetic waves. 2,930,008, 3-22-60, Cl. 333-98.
- Walsh, Bruce R., to Gulf Research & Development Co. Nozzle. 2,948,478, 8-9-60, Cl. 239-405.
- Walsh, Bruce R., to Gulf Research & Development Co. Nozzle. 2,961,171, 11-22-60, Cl. 239-465.
- Walsh, Carroll H. Polyphase fuse construction. 2,945,108, 7-12-60, Cl. 200-114.
- Walsh, David A. Events recorder. 2,937,064, 5-17-60, Cl. 346-74.
- Walsh, Edward G., to Bell Telephone Laboratories, Inc. Method of producing electrical conductors. 2,925,646, 2-23-60, Cl. 29-155.5.
- Walsh, Edward F., to The Pollak Steel Co. Sign support. 2,950,787, 8-30-60, Cl. 189-23.
- Walsh, Edward J., to General Electric Co. Stator vane half ring assemblies. 2,945,290, 7-19-60, Cl. 29-156.8.
- Walsh, Edward N.: *See*—  
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- Walsh, Francis W., to International Business Machines Corp. Improved rotary to reciprocal motion converter. 2,923,164, 2-2-60, Cl. 74-54.
- Walsh, Francis W., and H. A. Hendrich, to International Business Machines Corp. Storage and feed means for a continuous web. 2,927,789, 3-8-60, Cl. 271-2.1.
- Walsh, James H.: *See*—  
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- Walsh, James L.: *See*—  
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- Walsh, John C., to Cherry-Burrell Corp. Gear pump. 2,944,487, 7-12-60, Cl. 103-7.
- Walsh, John C., and W. M. Haselton, to Cherry-Burrell Corp. Vacuum-steam processor. 2,944,479, 7-12-60, Cl. 99-251.
- Walsh, John E., to United Shoe Machinery Corp. Lead clinching mechanisms. 2,940,083, 6-14-60, Cl. 1-211.
- Walsh, Kenneth A.: *See*—  
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- Walsh, Philip J. Automatic control apparatus. 2,944,163, 7-5-60, Cl. 307-88.
- Walsh Refractories Corp.: *See*—  
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- Walsh, Richard D., to American Machine & Foundry Co. Fast-reversing motor control. 2,929,976, 3-22-60, Cl. 318-207.
- Walsh, Richard F., and J. R. Morin, to Sylvania Electric Products Inc. Mercury lamp voltage control. 2,933,362, 4-19-60, Cl. 316-26.
- Walsh, Robert H., to Columbia-Southern Chemical Corp. Metal chloride manufacture. 2,954,274, 9-27-60, Cl. 23-87.
- Walsh, Robert L. Container framework. 2,960,249, 11-15-60, Cl. 217-65.
- Walsh, Robert M.: *See*—  
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- Walsh, Samuel R.: *See*—  
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- Walsh, Thomas J., W. R. Witzke, and G. M. Prok, to United States of America, National Aeronautics and Space Administration. Apparatus for making a metal slurry product. 2,934,331, 4-26-60, Cl. 266-19.
- Walsh, William A. G.: *See*—  
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- Walsh, William J.: *See*—  
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- Walsh, William L., to Gulf Research & Development Co. Process for preparing mercaptans. 2,925,443, 2-16-60, Cl. 260-609.
- Walshin, Murray. Submersible pump. 2,927,174, 3-1-60, Cl. 200-84.
- Walso Co.: *See*—  
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- Walss, Walter K. Figure with moving eyes. 2,938,302, 5-31-60, Cl. 46-166.
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- Walstrom Products, Inc.: *See*—  
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- Walter, Bruce E., 1/2 to S. Lebowitz. Water ski bindings. 2,933,741, 4-26-60, Cl. 9-310.
- Walter, Carl W.: *See*—  
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- Walter, Charles W.: *See*—  
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- Walter, Charles W., to Southern States Equipment Corp. Sliver coiler. 2,936,496, 5-17-60, Cl. 19-159.
- Walter, Charles W., and A. D. Layson, to Southern States Equipment Corp. Sliver coiler. 2,933,776, 4-26-60, Cl. 19-159.
- Walter, Derek O., N. A. Tucker, and R. W. C. Ing, to Johnson, Matthey & Co. Ltd. Manufacture of electrical contacts. 2,953,247, 9-20-60, Cl. 207-10.
- Walter, Erwin. Method of manufacturing multi-core cables. 2,936,670, 5-17-60, Cl. 87-8.
- Walter, Florian A.: *See*—  
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- Walter, Heinrich, to International Standard Electric Corp. Relays with guided contact spring. 2,939,932, 6-7-60, Cl. 200-104.
- Walter, Heinrich, to International Standard Electric Corp. Electromagnetic relay spring assembly. 2,956,140, 10-11-60, Cl. 200-166.
- Walter, Heinz, to VAC Anstalt. Process and device for vaporising electrically conductive substances, preferably metals, in vacuo. 2,939,943, 6-7-60, Cl. 219-76.
- Walter, Henry A., to Monsanto Chemical Co. Aromatic polyesters and process of making same. 2,961,427, 11-22-60, Cl. 260-47.
- Walter, Henry A., and J. A. Blanchette, to Monsanto Chemical Co. Preparation of acetylated styrene polymers. 2,962,485, 11-29-60, Cl. 260-93.5.
- Walter, Hermine J. Apparatus for manufacturing active carbon. 2,966,447, 12-27-60, Cl. 202-121.
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- Walter, John M., to The G. A. Gray Co. Tool lift mechanism. 2,947,226, 8-2-60, Cl. 90-55.
- Walter, John M., and R. M. Roberts, to The G. A. Gray Co. Cutting tool interchange mechanism. 2,925,016, 2-16-60, Cl. 90-11.
- Walter, John M., and G. E. Marx, to The G. A. Gray Co. Machine tool. 2,940,368, 6-14-60, Cl. 90-34.
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- Walter, Richard L., J. C. Filmer, and N. P. Hiestand, to Varian Associates. Electron tube apparatus. 2,944,187, 7-5-60, Cl. 315-39.
- Walter, Robert C., to Warner Electric Brake & Clutch Co. Magnetic torque producing device. 2,919,777, 1-5-60, Cl. 192-84.
- Walter, Robert E., and T. R. Graham, to Gerber Products Co. Production of molded sponge plastic. 2,935,762, 5-10-60, Cl. 18-48.
- Walterisation Co. Ltd.: *See*—  
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- Walters, Clarence C., to Republic Steel Corp. Charging mechanism for an enclosure. 2,921,699, 1-19-60, Cl. 214-1.
- Walters, Charles S., and K. R. Peterson, to The University of Illinois Foundation. Method and composition for destroying tree stumps. 2,947,110, 8-2-60, Cl. 47-58.
- Walters, Emmett L., and A. H. Miller, to Libbey-Owens-Ford Glass Co. Automatic glass cutting machine. 2,948,991, 8-16-60, Cl. 49-48.
- Walters, Glenn A.: *See*—  
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- Walters, Glenn A., to The Dalmco Victor Co. Microwave antenna. 2,963,702, 12-6-60, Cl. 343-709.
- Walters, Harry E. Cigarette holder. 2,951,486, 9-6-60, Cl. 131-198.
- Walters, Henry G. Current failure indicator. 2,931,019, 3-29-60, Cl. 340-253.
- Walters, Henry. Shoe sole cleaners. 2,958,883, 11-8-60, Cl. 15-97.
- Walters, Jay C.: *See*—  
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- Walters, John D.: *See*—  
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- Walters, Robert R.: *See*—  
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- Walters, Wilbur E., to J. J. Muscolino. Automatic selection of sound tracks in a drum reproducer. 2,953,384, 9-20-60, Cl. 274-17.
- Walters, William H., to The National Cash Register Co. Magnetic drum playback circuitry. 2,935,736, 5-3-60, Cl. 340-174.
- Walterscheid, Jean, Maschinenfabrik and Hammerwerk: *See*—  
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- Walterscheid-Müller, Bernhard: *See*—  
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- Waltham Horological Corp., The: *See*—  
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- Walther, Daniel A., to The Dayton Steel Foundry Co. Drop center rim. 2,929,659, 3-22-60, Cl. 301—13.
- Walther, Erhardt, and W. Dammig. Package filling. 2,925,694, 2-23-60, Cl. 53—37.
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- Walther, George Sr., to The Dayton Steel Foundry Co. Vehicle wheel for mounting drop center rims. 2,927,823, 3-8-60, Cl. 301—013.
- Walther, Harry S., to R. H. Solem, d.b.a. Wisconsin Knife Works. Adjustable cutter head. 2,963,060, 12-6-60, Cl. 144—218.
- Walther, Manfred, and G. Lang, to Institut für Fordertechnik des Ministeriums für Schwermaschinenbau. Cable tensioning mechanism for revolvable tower cranes and the like. 2,937,726, 5-24-60, Cl. 189—11.
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- Walton, Charles W., and K. T. Buttery, to KVP Sutherland Paper Co. Packaging device for food products and the like. 2,937,800, 5-24-60, Cl. 229—87.
- Walton, Edward: *See*—  
 Holly, Frederick W., Wagner, Walton, and Hoffman. 2,924,616.
- Walton, Edward, to Merck & Co., Inc. Methyl 2,3-isopropylidene-5-keto-L-rhamnofuranoside. 2,938,900, 5-31-60, Cl. 260—210.
- Walton, Edward, and C. Spencer, to Merck & Co., Inc. Chemical compounds. 2,966,484, 12-27-60, Cl. 260—210.
- Walton, John E.: *See*—  
 Emerson, Gordon G., Walton, and Carpenter. 2,965,941.
- Walton, John H., to Cable Covers Ltd. Stay rods. 2,962,129, 11-29-60, Cl. 189—315.
- Walton, Neil D.: *See*—  
 Dodge, Ronald D., and Walton. 2,958,409.
- Walton, Robert L., to Parker Feeders, Inc. Watering and feed trough for livestock. 2,956,540, 10-18-60, Cl. 119—78.
- Walton, William H.: *See*—  
 Phillips, James W., Thomas, and Walton. 2,948,469.
- Waltz, Peter H.: *See*—  
 Frankenburg, Walter G., and Waltz. 2,955,601.
- Walus, Aloysius N., to E. I. du Pont de Nemours and Co. Coating composition comprising nitrocellulose and alkyd resin and article coated therewith. 2,920,054, 1-5-60, Cl. 260—16.
- Walvoord, James G.: *See*—  
 Knapp, Richard P., and Walvoord. 2,919,671.
- Walworth Co.: *See*—  
 Balhouse, Harold J. 2,928,416.  
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- Walworth, Vivian K.: *See*—  
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- Walworth, William: *See*—  
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- Waly, Adnan: *See*—  
 Brusch, Arno, Huber, and Waly. Re. 24,814.  
 Davis, Arthur P., and Waly. 2,924,714.
- Walz, Karl B. Barometer. 2,953,024, 9-20-60, Cl. 73—384.
- Wambach, Katharina. Combined head-rest and sun-shade for seashore beaches. 2,932,833, 4-19-60, Cl. 5—337.
- Wampach, Walter G. Cranes. 2,966,752, 1-3-61, Cl. 37—116.
- Wampler, Roy W.: *See*—  
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- Wampler, Roy W., and C. H. Griss, to Libbey-Owens-Ford Glass Co. Apparatus for washing curved sheets. 2,922,423, 1-26-60, Cl. 134—122.
- Wampler, Roy W., and C. M. Browne, to Libbey-Owens-Ford Glass Co. Apparatus for solder coating. 2,938,494, 5-31-60, Cl. 118—74.
- Wamser, Carl H., to Everbrite Electric Signs, Inc. Interchangeable face pictorial illuminatable display signs. 2,939,235, 6-7-60, Cl. 40—132.
- Wamsley, Floyd B. Parachute attachment for kites. 2,951,666, 9-6-60, Cl. 244—155.
- Wamsley, Kenneth, and F. E. Hilton, to Package Containers, Inc. Gusset former. 2,961,930, 11-29-60, Cl. 93—1.
- Wanamaker, James A.: *See*—  
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- Wandel, Oscar A., to Fastener Corp. Stapling apparatus. 2,931,038, 4-5-60, Cl. 1—44.4.
- Wandel, Oscar A., to Fastener Corp. Stapling apparatus. 2,946,059, 7-26-60, Cl. 1—49.
- Wandel, Oscar A., and F. W. Mullaney, to Fastener Corp. Fastener driving apparatus. 2,953,117, 9-20-60, Cl. 121—13.
- Wander, Dr. A., A.G.: *See*—  
 Rosicky, Jan. 2,956,060.
- Wander Co., The: *See*—  
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- Wands, Howard G.: *See*—  
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- Wands, Howard G., and A. L. McPherson, to Gustin-Bacon Mfg. Co. Multiple unit mat winding machine. 2,923,487, 2-2-60, Cl. 242—55.1.
- Waner, Donald W., to The Morse Instrument Co. Photographic printing method and apparatus. 2,936,405, 5-10-60, Cl. 315—312.
- Waner, Donald W., to The Morse Instrument Co. Single lever marine engine control. 2,947,191, 8-2-60, Cl. 74—471.
- Wang, An: *See*—  
 Gordon, Bernard M., Wang, and Nicola. 2,920,312.
- Wang, An, to Wang Laboratories, Inc. Mechanical proportioning means. 2,957,371, 10-25-60, Cl. 74—720.5.
- Wang Laboratories, Inc.: *See*—  
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- Wang, Wensan. Smoking pipe. 2,919,700, 1-5-60, Cl. 131—223.
- Wang, Wensan. Smoking pipe. 2,930,382, 3-29-60, Cl. 131—173.
- Wanger, Robert P.: *See*—  
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- Wanick, Ralph W., to Plasmadyne Corp. Apparatus for creating extremely high temperatures. 2,939,048, 5-31-60, Cl. 315—236.
- Waninger, Gilbert, and M. A. Muller. Clamping in machine tools. 2,952,894, 9-20-60, Cl. 29—1.
- Waninger, Gilbert M., to Kabelschlepp G.m.b.H. Multi-polar terminal connection for electric conductors. 2,945,201, 7-12-60, Cl. 339—49.
- Wanish, Charles K. Girdles. 2,933,089, 4-19-60, Cl. 128—548.
- Wanish, Charles K. Foundation garments. 2,956,566, 10-18-60, Cl. 128—433.
- Wank, Otto: *See*—  
 Theenhausen, Heinrich, and Wank. 2,929,344.
- Wankat, Charles, and G. R. Donaldson, to Universal Oil Products Co. Removal of arsenic from reforming feed. 2,939,833, 6-7-60, Cl. 208—91.
- Wankel, Felix: *See*—  
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- Wankel G.m.b.H.: *See*—  
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- Wanlass, Cravens L., to North American Aviation, Inc. Logical gating system. 2,923,817, 2-2-60, Cl. 250—27.
- Wanlass, Cravens L., to Thompson Ramo Wooldridge Inc. Input circuits and matrices employing Zener diodes as voltage breakdown gating elements. 2,965,767, 12-20-60, Cl. 307—88.5.
- Wanlass, Cravens L., to Thompson Ramo Wooldridge Inc. Multivibrator circuits with output signal feedback for increasing trigger sensitivity. 2,965,768, 12-20-60, Cl. 307—88.5.
- Wanless, Graham G., and C. W. Seelbach, to Esso Research and Engineering Co. Olefin polymerization catalysts. 2,938,000, 5-24-60, Cl. 252—429.
- Wanmaker, Willem L.: *See*—  
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- Wannemacher, William P. Apparatus for ringing tower bells. 2,923,931, 2-2-60, Cl. 340—388.
- Wanner, Edwin F., to Natco Corp. Filter blocks. 2,929,505, 3-22-60, Cl. 210—293.
- Wanner, John J.: *See*—  
 Ball, Ritchie F. 2,920,592.
- Wanner, Keith W., to Corduroy Rubber Co. Torque transmitting bearing for propellers. 2,962,312, 11-29-60, Cl. 287—85.
- Wanner, Max E. Shampoo and utility tray on beautician's chair. 2,954,077, 9-27-60, Cl. 155—188.
- Wanserski, Stanley H.: *See*—  
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- Wantz, Clarence, and R. F. Garner, to Robertshaw-Fulton Controls Co. Thermostatic switch. 2,943,177, 6-23-60, Cl. 219—20.
- Wantz, Clarence, and H. J. Durst, to Robertshaw-Fulton Controls Co. Thermostatic control for surface burners. 2,961,876, 11-29-60, Cl. 73—368.
- Wanzenberg, Frederick W.: *See*—  
 MacLellan, Kenneth F., Jr., and Wanzenberg. 2,961,678.
- Wanzer, Arthur W., to Murray & Tregurtha, Inc. Reversible propeller. 2,921,635, 1-19-60, Cl. 170—165.
- Wanzer, Arthur W., to Murray & Tregurtha, Inc. Outboard propeller mechanism. 2,930,342, 3-29-60, Cl. 115—41.
- Warburton, James: *See*—  
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- Warburton, James, and S. R. Stiles, to The M. W. Kellogg Co. Alkylation of hydrocarbons. 2,947,796, 8-2-60, Cl. 260-683.62.
- Ward, Alec W., and J. R. Wyld, to British Celanese Ltd. False-twist spindles. 2,942,405, 6-28-60, Cl. 57-77.45.
- Ward, Alton J., to Airkem, Inc. Multicolor coating compositions. 2,964,417, 12-13-60, Cl. 106-170.
- Ward, Chandler P.: *See*—  
Schneider, William S. 2,942,760.
- Ward, Curtis E., to Varian Associates. Electron tube apparatus. 2,939,031, 5-31-60, Cl. 313-250.
- Ward, Curtis E., to Varian Associates. Electron discharge device. 2,955,228, 10-4-60, Cl. 315-5.21.
- Ward, Eric H.: *See*—  
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- Ward, George D.: *See*—  
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- Ward, George E.: *See*—  
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- Ward, George W.: *See*—  
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- Ward, Gerald G.: *See*—  
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- Ward Industries Corp.: *See*—  
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- Ward, Irving A.: *See*—  
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- Ward, James C., to Alaska Juneau Gold Mining Co. Suspensions for tandem axles. 2,951,709, 9-6-60, Cl. 280-104.5.
- Ward, Joan M.: *See*—  
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- Ward, John S.: *See*—  
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- Ward, John S., Jr.: *See*—  
Schneider, William S. 2,942,760.
- Ward, John W.: *See*—  
Klauss, Ralph E., and Ward. 2,928,303.
- Ward, John W., to Specialties, Inc. Photographic equipment and exposure control means therefor. 2,960,920, 11-22-60, Cl. 95-10.
- Ward, John W., and J. A. Bierbaum, to General Carbon and Chemical Corp. Coke production from disulfurized petroleum stocks. 2,963,416, 12-6-60, Cl. 208-50.
- Ward, Joseph F. Toy crane. 2,961,103, 11-22-60, Cl. 212-44.
- Ward Leonard Electric Co.: *See*—  
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Bastian, Arthur L. 2,933,649.  
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Vradenburgh, Robert. 2,939,050.  
Vradenburgh, Robert. 2,943,170.
- Ward, Newton E., and W. B. McLean, to United States of America, Navy. Missile. 2,966,316, 12-27-60, Cl. 244-14.
- Ward, Peter A.: *See*—  
Hewson, Colin T., and Ward. 2,964,905.  
Kerry, Thomas H., and Ward. 2,940,692.  
Kerry, Thomas H., and Ward. 2,944,631.
- Ward, Peter W., to The General Electric Co. Ltd. Automatic telephone and like systems. 2,947,818, 8-2-60, Cl. 179-18.
- Ward Products Corp.: *See*—  
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- Ward, Robert E., Jr., and J. M. Strip film and viewer. 2,937,566, 5-24-60, Cl. 88-19.
- Ward, Robert K.: *See*—  
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- Ward, Samuel I., and R. W. McCormack, to Crystal Research Laboratories, Inc. Liquid treating apparatus. 2,922,525, 1-26-60, Cl. 210-289.
- Ward, Wallace, to E. I. du Pont de Nemours and Co. Preparation of chlorine. 2,950,957, 8-30-60, Cl. 23-219.
- Ward, Wendell B., and S. K. Franks, to Fulfillment Corp. of America. Card panel. 2,933,998, 4-26-60, Cl. 95-85.
- Ward, Wendell B., and S. K. Franks, to Fulfillment Corp. of America. Card panel. 2,933,999, 4-26-60, Cl. 95-85.
- Ward, William E.: *See*—  
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- Ward, William J.: *See*—  
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- Ward, William M., and J. Ashley, to Beckman Instruments, Inc. Spectrophotometric system. 2,948,185, 8-9-60, Cl. 88-14.
- Wardell, Verris C. Cartoning method and apparatus. 2,956,382, 10-18-60, Cl. 53-35.
- Warden, Charles B.: *See*—  
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- Wardlaw, Russell.: *See*—  
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- Wardlaw, Russell, and H. D. Winter, to The Cookson Co. Side coiling articulated partition and drive mechanism therefor. 2,934,139, 4-26-60, Cl. 160-26.
- Wardle, Phyllis M.: *See*—  
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- Wardle, Robert L., deceased, by P. M. Wardle, executrix, to Avro Aircraft Ltd. Floating blade shrouds. 2,927,724, 3-8-60, Cl. 230-120.
- Wardleworth, James.: *See*—  
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- Wardley, John.: *See*—  
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- Ware, Cecil.: *See*—  
Le Bus, Franklin L., Sr., and Ware. 2,965,177.
- Ware, Cecil, to Wash Overshot and Spear Engineers, Inc. Wash-over spear mechanism. 2,955,655, 10-11-60, Cl. 166-103.
- Ware, Chester D., to The Trane Co. Flooded water chiller. 2,964,926, 12-20-60, Cl. 62-471.
- Ware, Gordon K., to The Chicago Roller Skate Co. Detachable toe stop for a roller skate. 2,954,984, 10-4-60, Cl. 280-11.2.
- Ware Marine Products, Inc.: *See*—  
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- Ware, Paul, to Ware Marine Products, Inc. Automatic pilot for marine vessels. 2,961,592, 11-22-60, Cl. 318-489.
- Ware, Richard N., Jr., to Chicago Mill and Lumber Co. Method and apparatus for producing assemblies of hinged-together panels. 2,958,363, 11-1-60, Cl. 154-1.6.
- Wareham, Claude. Garment rack. 2,927,719, 3-8-60, Cl. 224-29.
- Wareham, Richard R., to Polaroid Corp. Flash synchronized camera shutter. 2,963,948, 12-13-60, Cl. 95-11.5.
- Wareham, Richard R., to Polaroid Corp. Shutter mechanism for cameras. 2,963,951, 12-13-60, Cl. 95-60.
- Wargo, Peter.: *See*—  
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- Warhurst, Joseph S. Warning system for automobile lighting circuits. 2,942,235, 6-21-60, Cl. 340-52.
- Waring, Daniel M. Combination irrigation drop and dam. 2,928,251, 3-15-60, Cl. 61-29.
- Warinsky, John V.: *See*—  
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- Wark, John D.: *See*—  
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- Warkoczewski, Joseph T., to Gustin-Bacon Mfg. Co. Core dropping device. 2,947,446, 8-2-60, Cl. 221-211.
- Warman, Bloomfield J., to Siemens Edison Swan Ltd. Key senders of the kind used in automatic telephone and like signalling systems. 2,946,854, 7-26-60, Cl. 179-18.
- Warman, Charles P., Jr. Fluid clutch actuators. 2,940,572, 6-14-60, Cl. 192-88.
- Warman, Charles P., Jr. Low volume clutch tube. 2,952,276, 9-13-60, Cl. 137-784.
- Warman, William H.: *See*—  
St. Jean, Robert R., and Warman. 2,924,342.
- Warmkessel, Charles W., to Superlite Builders Supply Co. Moisture control apparatus. 2,954,215, 9-27-60, Cl. 259-154.
- Warmoltz, Nicolaas, and I. Pelchowitch, to North American Philips Co., Inc. Mass spectrometer. 2,921,198, 1-12-60, Cl. 250-41.9.
- Warnant, Julien.: *See*—  
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Joly, Robert, and Warnant. 2,957,890.  
Joly, Robert, Warnant, Nomine, and Bertin. 2,923,721.  
Joly, Robert, Warnant, and Prost-Marchal. 2,966,500.  
Muller, Georges, Nomine, and Warnant. 2,931,815.  
Muller, Georges, Nomine, and Warnant. 2,952,682.
- Warnant, Julien, and R. Joly, to Les Laboratoires Français de Chimiotherapie. Method of preparing 3-acetoxy-17 $\alpha$ -hydroxy etiocholan-11-one. 2,927,120, 3-1-60, Cl. 260-397.45.
- Warnberg, A. E.: *See*—  
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- Warncke, Ernst.: *See*—  
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- Warne, Eugene H., to Joseph Lucas (Industries) Ltd. Means for controlling the supply of liquid fuel to a gas turbine. 2,934,138, 4-26-60, Cl. 158-36.3.
- Warncke, Robert, and O. Dohler, to Compagnie Generale de Telegraphie Sans Fil. Electromagnetic frequency modulated detection systems. 2,923,004, 1-26-60, Cl. 343-14.
- Warncke, Robert I. Apparatus for opposing flare back in fluid fuel burners. 2,959,215, 11-8-60, Cl. 158-99.
- Warner, Amos C., to Columbian Carbon Co. Method of producing carbon black. 2,957,755, 10-25-60, Cl. 23-209.4.
- Warner, Arthur E., Jr.: *See*—  
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- Warner, Arthur W., Jr., to Bell Telephone Laboratories, Inc. Crystal unit mounting. 2,954,490, 9-27-60, Cl. 310-9.1.
- Warner Brothers Co. The.: *See*—  
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- Warner Bros. Pictures, Inc.: *See*—  
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- Warner, Douglas K. Concrete beams. 2,952,061, 9-13-60, Cl. 25-154.
- Warner, Dwight W., Jr., and O. C. Hawkins, Jr., to Westinghouse Electric Corp. Circuit interrupters. 2,953,655, 9-20-60, Cl. 200-48.
- Warner, Edgar, to The Champion Paper and Fibre Co. Apparatus for coating paper. 2,946,307, 7-26-60, Cl. 118-119.
- Warner Electric Brake & Clutch Co.: *See*—  
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- Warner, Kennett C.: *See*—  
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- Warner-Lambert Pharmaceutical Co.: *See*—  
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- Warner, Paul C., to Westinghouse Electric Corp. Bearing apparatus. 2,941,850, 6-21-60, Cl. 308-73.
- Warner, Paul F., to Phillips Petroleum Co. Removal of alkali metal impurities from liquid diene polymers. 2,937,178, 5-17-60, Cl. 260-290.
- Warner, Paul F., to Phillips Petroleum Co. Removal of alkali metal impurities from liquid diene polymers. 2,952,683, 9-13-60, Cl. 260-290.
- Warner, Paul F., to Phillips Petroleum Co. Removal of alkali metal impurities from liquid diene polymers. 2,952,684, 9-13-60, Cl. 260-290.
- Warner, Paul F., to Phillips Petroleum Co. Tertiary dodecyl mercapto-sodium acetate as pest combating agent. 2,955,977, 10-11-60, Cl. 167-22.
- Warner, Paul F., and J. E. Duke, to Phillips Petroleum Co. Stabilization of heterocyclic nitrogen compounds. 2,920,078, 1-5-60, Cl. 260-283.
- Warner, Paul F., and J. T. Middlebrook, to Phillips Petroleum Co. Purification of polymers. 2,960,454, 11-15-60, Cl. 204-186.
- Warner, Raymond M., Jr.: *See*—  
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- Warner & Swasey Co., The: *See*—  
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Shook, William M. 2,959,923.  
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- Warner, Wilmer H., to Frutchey Bean Co. Apparatus for sorting articles. 2,929,500, 3-22-60, Cl. 209-111.
- Warnier, Albert H., to Cie Francaise Thomson-Houston. Method of amplification of direct currents or voltages. 2,936,346, 5-10-60, Cl. 179-171.
- Warning, Paul-Friedrich, to Firma Sennheiser Electronic Dr.-Ing Fritz Sennheiser. Sound directing apparatus. 2,928,490, 3-15-60, Cl. 181-5.
- Warneken, Elmer P., to Studebaker-Packard Corp. Prestressed compressor blade. 2,934,317, 4-26-60, Cl. 253-77.
- Warneken, Elmer P., to Studebaker-Packard Corp. Stator blade assembly and method and machine for making same. 2,937,805, 5-24-60, Cl. 230-132.
- Warneken, Elmer P., to Studebaker-Packard Corporation. Rotating shroud. 2,952,442, 9-13-60, Cl. 253-77.
- Warnock, William R., to Ansul Chemical Co. Extinguishing agent for combustible metals. 2,937,990, 5-24-60, Cl. 252-2.
- Warp, Harold, to Flex-O-Glass, Inc. Insulating material. 2,934,465, 4-26-60, Cl. 154-45.
- Warp, Harold, to Flex-O-Glass, Inc. Machine for forming louvered material. 2,962,075, 11-29-60, Cl. 153-2.
- Warpotas, Edward L.,  $\frac{3}{4}$  to C. M. Mezilson. Golf putters. 2,957,696, 10-25-60, Cl. 273-164.
- Warr, Jacob A., Jr. Safety line clamp for derrickmen. 2,960,739, 11-22-60, Cl. 24-134.
- Warren, Alfred P., to United States of America, Army. Missile-stage connecting and releasing device. 2,959,129, 11-8-60, Cl. 102-92.5.
- Warren Automatic Tool Co.: *See*—  
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- Warren Components Division, El-Tronics, Inc.: *See*—  
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- Warren Co., Inc., The: *See*—  
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Rainwater, Julius H. 2,936,596.
- Warren, Edith R. and O. S. Infant's feeding spoon. 2,942,342, 6-28-60, Cl. 30-327.
- Warren, Harold. Adjustable telescoping spreader. 2,953,977, 9-27-60, Cl. 94-44.
- Warren, Harold. Quick hitch device and spreader leveling arrangement. 2,954,241, 9-27-60, Cl. 280-476.
- Warren, Jack. Combination of movie projector and sound recorder reproducer and a case with sound recorder and reproducer. 2,962,927, 12-6-60, Cl. 88-162.
- Warren-Knight Co.: *See*—  
Fatkin, Harry W., and Oberholtzer. 2,922,225.
- Warren, Manfred M.: *See*—  
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- Warren Mfg. Co., Inc., The: *See*—  
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- Warren, Raymond W.: *See*—  
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- Warren, Raymond W., to United States of America, Navy. Receiver mechanism for feeding and positioning ammunition in a gun. 2,926,567, 3-1-60, Cl. 89-33.
- Warren, Robert A., M. E. Wilke, and J. J. Coleman, to Servel, Inc. Alkaline cell having controlled vents. 2,934,584, 4-26-60, Cl. 136-133.
- Warren, Ronald G.: *See*—  
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- Warren, Roy D., to Fruehauf Trailer Co. Livestock trailer. 2,934,371, 4-26-60, Cl. 296-28.
- Warren, S. D., Co.: *See*—  
Freeman, Eben W. 2,950,989.  
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- Warren, Samuel D.: *See*—  
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- Warren, Walter B., Jr.: *See*—  
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- Warrick, Earl L., to Dow Corning Corp. Diorganopolysiloxane-halogenated olefin graft copolymers. 2,958,707, 11-1-60, Cl. 260-448.2.
- Warrick, Earl L., to Dow Corning Corp. Method of preparing organosilicon graft polymers. 2,959,569, 11-8-60, Cl. 260-46.5.
- Warrick, Edward C., and D. L. Brown, to Rockwell Mfg. Co. Fare box. 2,943,631, 7-5-60, Cl. 133-3.
- Warrick, Edward C., R. K. Holtz, and J. Kmetz, to Rockwell Mfg. Co. Drive means for combination circular saw and jointer. 2,956,595, 10-18-60, Cl. 143-36.
- Warrick, Frederick P. High-speed camera. 2,952,183, 9-13-60, Cl. 88-16.8.
- Warrington, Albert R. V., to The English Electric Co. Ltd. Electrical relays. 2,929,003, 3-15-60, Cl. 317-188.
- Warsaw, Charles E. Rotary measuring apparatus. 2,940,044, 6-7-60, Cl. 324-125.
- Warshawsky, Curtis B., to Hycon Mfg. Co. Aerial camera. 2,950,663, 8-30-60, Cl. 95-12.5.
- Warsher, Adolph, to Bendix Aviation Corp. Automatic motor control for celestial navigation device. 2,941,134, 6-14-60, Cl. 318-19.
- Warson, Henry: *See*—  
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- Wartenberg, Dietrich: *See*—  
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- Warters, William D.: *See*—  
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- Wartiaenen, Henrik V. A. Cover for the suction box of paper making machines. 2,946,379, 7-26-60, Cl. 162-374.
- Wartian, George, to Wartian Lock Co. Door latch. 2,924,087, 2-9-60, Cl. 70-135.
- Wartian, George, to Wartian Lock Co. Door latch. 2,924,478, 2-9-60, Cl. 292-224.
- Wartian Lock Co.: *See*—  
Wartian, George. 2,924,087.  
Wartian, George. 2,924,478.
- Warwick Mfg. Corp.: *See*—  
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- Wasco Chemical Co., Inc.: *See*—  
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- Wasco, Joseph L., L. L. Wade, and J. F. Landram, to The Dow Chemical Co. Phosphoramidates. 2,929,762, 3-22-60, Cl. 167-53.
- Wash Overshot and Spear Engineers, Inc., The: *See*—  
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- Washburn, Alfred F. Rocking means for closing doll eyes. 2,954,641, 10-4-60, Cl. 46-169.
- Washburn, Clayton A. Wave-form generator. 2,923,851, 2-2-60, Cl. 315-27.
- Washburn Co., The: *See*—  
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Glenny, Clarence S. 2,944,712.
- Washburn, Frederick L., Jr., to General Electric Co. Traveling wave tube. 2,925,516, 2-16-60, Cl. 315-3.5.
- Washburn, George H. Storage battery cell tester. 2,922,948, 1-26-60, Cl. 324-29.5.
- Washburn and Granger Inc.: *See*—  
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- Washburn, Joseph, to Westinghouse Electric Corp. Bus duct structure. 2,946,034, 7-19-60, Cl. 339-22.
- Washburn, Robert M., to American Potash & Chemical Corp. Stable esters of polyboronic acids. 2,939,877, 6-7-60, Cl. 260-462.
- Washburn, Robert S., to Beloit Iron Works. Paper drier. 2,951,139, 8-30-60, Cl. 219-10.61.
- Washburn, T. F., Co.: *See*—  
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- Washington Aluminum Co., Inc.: *See*—  
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- Washington Steel Products, Inc.: *See*—  
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- Washken, Edward: *See*—  
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- Washken, Edward, L. A. Runtun, and H. C. Morton. High temperature composition. 2,952,903, 9-20-60, Cl. 29—182.5.
- Wasley, Arthur J., to Wasley Products, Inc. Bearing seal. 2,945,707, 7-19-60, Cl. 286—5.
- Wasley, Arthur J., to Continental Engineering Corp. Sealed bearing. 2,960,372, 11-15-60, Cl. 308—245.
- Wasley Products, Inc.: *See*—  
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- Wasley, William L., to Union Oil Co. of California. Polymerization of propylene. 2,960,552, 11-15-60, Cl. 260—683.15.
- Wasmer, Darwin A., to Kelsey-Hayes Co. Booster device. 2,920,452, 1-12-60, Cl. 60—54.6.
- Wasp, Edward J. Fluid heaters. Re. 24,857, 8-9-60, Cl. 110—98.
- Wasp, Edward J., and P. A. C. Cook, to Consolidation Coal Co. Slurry pipeline transportation. 2,920,923, 1-12-60, Cl. 302—66.
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- Stevens, Bernard, and Wassel. 2,920,530.
- Wassell, Harold J. H., to Marconi's Wireless Telegraph Co. Ltd. Radar systems. 2,946,996, 7-26-60, Cl. 343—5.
- Wassem, Howard M., to Marsh Wall Products, Inc. Roller coating machine for rigid sheet material. 2,925,800, 2-23-60, Cl. 118—1.
- Wasser, Rudolf, to North American Philips Co., Inc. Device for indicating variations in coded information. 2,959,767, 11-8-60, Cl. 340—147.
- Wasserbach, Theodore B.: *See*—  
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- Wasserbach, Theodore B., and J. J. Kolfenbach, to Esso Research and Engineering Co. Process for augmenting thrust of jet engines. 2,929,200, 3-22-60, Cl. 60—35.4.
- Wasserbach, Theodore B., and M. W. France, to Esso Research and Engineering Co. Aviation turbo fuel. 2,952,969, 9-20-60, Cl. 60—35.4.
- Wasserkrug, Jerome G., to Langendorf United Bakeries, Inc. Display stand. 2,951,592, 9-6-60, Cl. 211—135.
- Wasserman, Charles, to Koppers Co., Inc. Electrical precipitator. 2,925,142, 2-16-60, Cl. 183—7.
- Wasserman, Davis, to Minnesota Mining and Mfg. Co. Esters and methods and steps of making and using the same. 2,952,663, 9-13-60, Cl. 260—46.
- Wasserman, René D., to Compagnie Generale de Telegraphie Sans Fil. Traveling wave oscillators. 2,922,918, 1-26-60, Cl. 315—3.5.
- Wasserman, Max, and R. Stetson, to Wasco Chemical Co., Inc. Fire venting roof structure. 2,923,226, 2-2-60, Cl. 98—86.
- Wasserman, Moe, to Sylvania Electric Products Inc. Photoconductive devices. 2,937,353, 5-17-60, Cl. 338—15.
- Wasserman, Moe, to Sylvania Electric Products Inc. Electroluminescent device. 2,948,823, 8-9-60, Cl. 313—108.
- Wasserman, Morris. Shower bar attachment. 2,923,013, 2-2-60, Cl. 4—154.
- Wasserman, René D., and J. F. Quaas, to Eutectic Welding alloys Corp. Brazing alloy. 2,919,984, 1-5-60, Cl. 75—151.
- Wasserman, René D., and J. Quaas, to Eutectic Welding Alloys Corp. Fluxing method and composition. 2,927,049, 3-1-60, Cl. 148—25.
- Wassilief, Victor. Variable speed friction drive. 2,936,638, 5-17-60, Cl. 74—200.
- Wassilief, Victor. Automobile seat structure. 2,951,527, 9-6-60, Cl. 155—14.
- Wassing, Edwin W. Fishing tackle. 2,952,937, 9-20-60, Cl. 43—43.15.
- Wasson, Burton K., and J. M. Parker. 2-methyl-2-allyl-1,3-propanediol dicarbamate. 2,926,190, 2-23-60, Cl. 260—482.
- Wasson, Harold M. Tape folder. 2,956,799, 10-18-60, Cl. 270—86.
- Wasson, Jones I., and A. J. Morway, to Esso Research and Engineering Co. Non-inflammable hydraulic fluid. 2,947,699, 8-2-60, Cl. 252—76.
- Wasson, Roy A.: *See*—  
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- Wastberg, Lars G., to North American Philips Co., Inc. Arrangement for joining foil material by inductive heating under pressure. 2,920,173, 1-5-60, Cl. 219—10.53.
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- Friedberg, Harry. 2,959,140.
- Getchell, Robert M., Karig, and Fay. 2,965,112.
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- Wasylenko, William J., to Burroughs Corp. Switching apparatus. 2,944,121, 7-5-60, Cl. 200—11.
- Wasyluka, Paul, to Crown Zellerbach Corp. Cellular partition releasably locked in a compartmented shipping container. 2,925,209, 2-16-60, Cl. 229—15.
- Watanabe, Hideyuki. Sand suction apparatus. 2,960,368, 11-15-60, Cl. 302—14.
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- Watanabe, Yoshiyuki: *See*—  
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- Waterfield, Clayton F., H. J. Calderhead, and H. H. Heller, to The Bird Electronic Corp. High frequency thermocouple meter. 2,946,005, 7-19-60, Cl. 324—95.
- Waterfill, Robert W., to Buensod-Stacey, Inc. Air conditioning apparatus. 2,933,100, 4-19-60, Cl. 137—499.
- Waterman, Edward: *See*—  
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- Waterman, Hein I., to N.V. Centrale Suiker Maatschappij Fabriek Wittouck. Process for the extraction of sugar from sugar-containing materials that have been treated with a cell-killing agent. 2,937,958, 5-24-60, Cl. 127—44.
- Waterman, Herbert C., to Motorola, Inc. Inverter having voltage regulated output. 2,949,573, 8-16-60, Cl. 321—19.
- Waterman, Herbert C., to The Bendix Corp. Electronic fuel control apparatus for an engine. 2,963,861, 12-13-60, Cl. 60—39.28.
- Waterman, Logan C., to Petrolite Corp. Electric emulsion treater. 2,963,414, 12-6-60, Cl. 204—302.
- Waterman, Max L., to The Singer Mfg. Co. Work feeding attachment for sewing machines. 2,944,497, 7-12-60, Cl. 112—212.
- Waterman, Max L., to The Singer Mfg. Co. Zigzag sewing machines. 2,958,299, 11-1-60, Cl. 112—158.
- Waterman, William. Controls for adjusting stroke of hydraulic pistons and the like. 2,923,277, 2-2-60, Cl. 121—38.
- Waterous Co.: *See*—  
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- Waters, Elmer E., J. J. Shatynski, and J. E. Koch, Jr., to Celanese Corp. of America. Functional fluids. 2,944,976, 7-12-60, Cl. 252—76.
- Waters, James R. Harvester reel support. 2,957,296, 10-25-60, Cl. 56—220.
- Waters, Lawrence W., to United Can and Glass Co. Peach orienting machine. 2,938,620, 5-31-60, Cl. 198—33.
- Waters Mfg., Inc.: *See*—  
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- Waters, Robert S., to Westinghouse Electric Corp. Blender jar assembly. 2,930,596, 3-29-60, Cl. 259—122.
- Wathen, Robert L., to Sperry Rand Corp. Pulse radar object detection system. 2,946,050, 7-19-60, Cl. 343—13.
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- Watkins, Charles A.: *See*—  
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- Watkins, Charles H., to Universal Oil Products Co. Method for processing sulfur-contaminated stock. 2,922,756, 1-26-60, Cl. 208—91.
- Watkins, Charles H., to Universal Oil Products Co. Reforming process. 2,943,996, 7-5-60, Cl. 208—62.
- Watkins, Franklin M., to Sinclair Research Laboratories, Inc. Method and apparatus for preventing mixing at the interface of two fluid products in a pipeline. 2,941,537, 6-21-60, Cl. 137—1.
- Watkins, John E. Refrigerating system with purge means. 2,920,458, 1-12-60, Cl. 62—195.
- Watkins, John E. Refrigerating system with means to obtain high liquid line pressure. 2,931,191, 4-5-60, Cl. 62—174.
- Watkins, John E. Low pressure refrigerating systems. 2,952,137, 9-13-60, Cl. 62—174.
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- Watkins, Spencer H., to Hercules Powder Co. Sizing of paper. 2,941,919, 6-21-60, Cl. 162—180.
- Watkins, Sprague H.: *See*—  
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- Watkins, Victor L. Display apparatus. 2,960,782, 11-22-60, Cl. 40—106.31.
- Watkins, William M., to Lockheed Aircraft Corp. High temperature telescopic joint with heat insulating and radiating means. 2,937,036, 5-17-60, Cl. 285—41.
- Watley, Orlin D., to Dale Products Inc. Electrical resistor. 2,962,682, 11-29-60, Cl. 338—183.
- Watlington, Lee S. Article vending apparatus. 2,964,369, 12-13-60, Cl. 312—97.1.
- Watrous, Donald L., to General Electric Co. Optical pyrometer apparatus. 2,927,502, 3-8-60, Cl. 88—22.5.



- Watrous, George H.: *See*—  
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- Watrous, Robert B., to Minneapolis-Honeywell Regulator Co. Span adjustment linkage. 2,925,745, 2-23-60, Cl. 74—516.
- Watrous, Robert B., to Minneapolis-Honeywell Regulator Co. Flapper valve. 2,950,728, 8-30-60, Cl. 137—82.
- Watrous, Robert B., to Minneapolis-Honeywell Regulator Co. Fluid filled, force balance meter. 2,959,963, 11-15-60, Cl. 73—407.
- Watrous, Robert B., to Minneapolis-Honeywell Regulator Co. Fluid-pressure-operated computer. 2,960,098, 11-15-60, Cl. 137—85.
- Watrous, Ward W., Jr., to Tung-Sol Electric Inc. Gaseous discharge device. 2,951,960, 9-6-60, Cl. 313—36.
- Watson, Albert R.: *See*—  
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- Watson, Claude W., deceased, by M. H. Watson, executrix. Recovery of olefins. 2,945,904, 7-19-60, Cl. 260—677.
- Watson, Coleman H., to United States Steel Corp. Extensometer. 2,963,221, 12-6-60, Cl. 235—103.5.
- Watson, David D.: *See*—  
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- Watson, Dighton L., and F. K. Michaelson. Merchandizable expandible metal foil baking container. 2,925,933, 2-23-60, Cl. 220—8.
- Watson, Dighton L., and F. K. Michaelson. Expandible metal foil package. 2,948,624, 8-9-60, Cl. 99—171.
- Watson, Edwin. Expansion rails. 2,950,058, 8-23-60, Cl. 238—174.
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- Watson, Frank O., to Bendix Aviation Corp. Pawl and ratchet mechanism. 2,926,547, 3-1-60, Cl. 74—575.
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- Watson, Harold J., to Texaco Inc. Lubricating composition containing a synergistic extreme pressure additive. 2,921,902, 1-19-60, Cl. 252—33.6.
- Watson, James P.,  $\frac{1}{2}$  to J. Davidson. Pivotaly balanced members. 2,933,580, 4-19-60, Cl. 200—166.
- Watson, James P.,  $\frac{1}{2}$  to J. Davidson. Snap acting mechanism. 2,964,602, 12-13-60, Cl. 200—67.
- Watson, John E. Method of making synthetic quartz cat's-eye gem. 2,948,082, 8-9-60, Cl. 49—78.1.
- Watson, John T.: *See*—  
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- Watson, Kenneth E., to Lockheed Aircraft Corp. Thrust reverser and control mechanism therefor. 2,932,164, 4-12-60, Cl. 60—35.54.
- Watson, Lee M.: *See*—  
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- Watson Mfg. Co., Inc.: *See*—  
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- Watson, Myrtle H.: *See*—  
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- Watson, Orla E. Operating mechanism for injectors. 2,919,591, 1-5-60, Cl. 74—141.5.
- Watson, Orla E. Liquid feeder. 2,949,212, 8-16-60, Cl. 222—70.
- Watson, Paul C., and H. O. McMahon, to American Viscose Corp. Apparatus and method for the production of reticulate webs. 2,950,752, 8-30-60, Cl. 154—1.
- Watson, Ralph M., and A. J. Larrecq, to Worthington Corp. Turbine casing. 2,934,316, 4-26-60, Cl. 253—39.
- Watson, Richard M., and G. K. Finch, to Eastman Kodak Co. Manufacture of crotonic acid. 2,945,058, 7-12-60, Cl. 260—530.
- Watson, Robert C.: *See*—  
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- Watson, Robert G. Automatic lock. 2,928,271, 3-15-60, Cl. 70—25.
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- Watson, Roger L. Fishhook assembly. 2,938,295, 5-31-60, Cl. 43—43.2.
- Watson, Roger W.: *See*—  
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- Little, Randel Q., Jr., and Watson. 2,963,433.
- Wueller, James A., and Watson. 2,965,571.
- Watson, Thomas A., to Canadian Marconi Co. Pulse producing circuit arrangement. 2,938,148, 5-24-60, Cl. 315—230.
- Watson, Thomas T., to Lukens Steel Co. Method and pack for making zirconium-clad steel plate. 2,932,885, 4-19-60, Cl. 29—470.9.
- Watson, Thomas T., and E. P. Godsall, to Lukens Steel Co. Production of clad steel plates by the 2-ply method. 2,961,761, 11-29-60, Cl. 29—470.9.
- Watson, William B.: *See*—  
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- Watson, William B., to Sinclair Refining Co. Synthetic rubber compositions. 2,959,560, 11-8-60, Cl. 260—27.
- Watson, William C. Support for rural mail boxes. 2,931,611, 4-5-60, Cl. 248—145.
- Watson, William H., and W. Slater, to T.M.M. (Research) Ltd. Processing and packaging of textile slivers. 2,939,184, 6-7-60, Cl. 19—159.
- Watson, William R., to Sylvania Electric Products Inc. Method of preparing a fluorescent screen. 2,940,864, 6-14-60, Cl. 117—17.5.
- Watt, Dudley A., to The United Kingdom Atomic Energy Authority. Electromagnetic pumps. 2,936,711, 5-17-60, Cl. 103—1.
- Watt, Everett C. and L. A. Apparatus for unloading sugar cane and the like. 2,936,913, 5-17-60, Cl. 214—44.
- Watt, George J.: *See*—  
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- Watt, Gordon J., to Sperry Rand Corp. Sound wave ray tracer. 2,925,217, 2-16-60, Cl. 235—61.6.
- Watt, James, to Marconi's Wireless Telegraph Co. Ltd. Permanent record radar system. 2,940,074, 6-7-60, Cl. 343—11.
- Watt, Lynn A.: *See*—  
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- Watt, Robert L.: *See*—  
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- Wattels, George W., Jr. Methods of and means for marking metal. 2,923,808, 2-2-60, Cl. 219—69.
- Watterberg, John P. E., to United States of America, Atomic Energy Commission. Rotary switch. 2,928,910, 3-15-60, Cl. 200—24.
- Watters, Bill G., and J. J. Baruch, to Bolt Beranek and Newman Inc. Acoustic absorber. 2,935,151, 5-3-60, Cl. 181—33.
- Watters, Clarence J., to General Electric Co. Electric spark igniter with improved cooling structure. 2,963,602, 12-6-60, Cl. 313—11.5.
- Watters, Johnny T.: *See*—  
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- Watters, Norman T.: *See*—  
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- Watters, Norman T., to Zenith Radio Corp. Filter-rectifier-gate circuit. 2,931,854, 4-5-60, Cl. 178—5.1.
- Watters, Robert L., to General Electric Co. Distributed amplifier. 2,958,046, 10-25-60, Cl. 330—54.
- Wattier, Francis E. Photographic device. 2,957,399, 10-25-60, Cl. 95—73.
- Watts, Claude H., to Pre-Vest, Inc. Investment material for precision casting. 2,928,749, 3-15-60, Cl. 106—38.3.
- Watts, Claude H., to Pre-Vest, Inc. Investment material for precision casting. 2,928,750, 3-15-60, Cl. 106—38.3.
- Watts, Dennis M.: *See*—  
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- Watts, Gilbert E., and S. Moverley, to J. H. Fenner & Co. Ltd. Production of power transmission and conveyor belt-ing. 2,930,104, 3-29-60, Cl. 28—74.
- Watts, Hubert J.: *See*—  
Kinzie, Ora A., and Watts. 2,964,340.
- Watts, John D., and E. K. Pierce, to Gray Tool Co. Structure for lining tubular members. 2,938,562, 5-31-60, Cl. 153—1.
- Watts, Paul H.,  $\frac{1}{2}$  to E. D. Farley. Demountable scaffold unit and clamps therefor. 2,933,335, 4-19-60, Cl. 287—51.
- Watts, Reginald A., to Automatic Cornwrapping Machine Corp. Package collector for coin package machine. 2,934,871, 5-3-60, Cl. 53—248.
- Watts Regulator Co.: *See*—  
Dillon, Wendell M. 2,942,691.
- Watts, Reid L.: *See*—  
Howey, Charles K., and Watts. 2,945,401.
- Watts, Rhea N., to Esso Research and Engineering Co. Penetrating oil. 2,930,759, 3-29-60, Cl. 252—57.
- Watts, Sherman S., to Harris-Intertype Corp. Pile elevating mechanism. 2,952,458, 9-13-60, Cl. 271—62.
- Watts, William M.: *See*—  
Jones, Allen P., Watts, and Zitz. 2,930,535.
- Watts, William S., to AMP Inc. Plugboards for patchcord systems. 2,939,100, 5-31-60, Cl. 339—18.
- Watts, William S., to AMP Inc. Insertion tool. 2,960,864, 11-22-60, Cl. 73—141.
- Wattson, Harry B., and J. C. Karlson, to Bendix Aviation Corp. Compass system. 2,925,662, 2-23-60, Cl. 33—204.
- Watzl, Anton, and E. Siggel, to Vereinigte Glanzstoff-Fabriken A.G. Process for the purification of dimethylterephthalate. 2,945,788, 7-19-60, Cl. 202—42.
- Waugh, Charles C., and W. C. Parrish, to North American Aviation, Inc. Rocket ignition system. 2,934,897, 5-3-60, Cl. 60—39.14.
- Waugh, Dale L.: *See*—  
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- Waugh Equipment Co.: *See*—  
Fillion, Stanley H. 2,919,660.
- Fillion, Stanley H., and Schaefer. 2,950,017.



- Waugh, James H., Jr., to Texas Instruments Inc. Transistor oscillator circuit. 2,940,027, 6-7-60, Cl. 318-128.
- Waughtal, Harry A.: *See—*  
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- Waukesha Motor Co.: *See—*  
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- Wax, Enrico, and G. Vitale, to Societa in nome Collettivo Wax & Vitale. Holder for supporting food products, such as cakes and the like. 2,936,900, 5-17-60, Cl. 211-73.
- Waxgiser, William V. Display holder for sheets of paper, fabric, and the like. 2,941,324, 6-21-60, Cl. 40-156.
- Way, Durbin H.: *See—*  
Carter, Clare A., and Way. 2,956,947.
- Way, Jack W., to W. J. Voit Rubber Corp. Reinforced ball. 2,945,693, 7-19-60, Cl. 273-65.
- Way, Robert B., and C. D. Hersey. Automatic painting machine. 2,928,369, 3-15-60, Cl. 118-301.
- Way, Robert B., and C. D. Hersey. Automatic painting machine. 2,955,567, 10-11-60, Cl. 118-301.
- Way, Robert B., and C. D. Hersey. Painting machine with transversely moving guns. 2,960,065, 11-15-60, Cl. 118-315.
- Wayland, Hubert E., to Ty-Sa-Mau Machine Co. Wire saws. 2,951,474, 9-6-60, Cl. 125-12.
- Wayland, Rosser L., Jr., M. P. Underwood, and G. S. Y. Poon, to Dan River Mills, Inc. Wrinkle resistant fabrics and products for producing same. 2,929,798, 3-22-60, Cl. 260-67.6.
- Wayman, Morris, and G. R. Harris, to Columbia Cellulose Co. Ltd. Pulping of lignocellulosic material. 2,939,813, 6-7-60, Cl. 162-78.
- Wayman, Robert W., to Borg-Warner Corp. Controls for transmission. 2,931,251, 4-5-60, Cl. 74-754.
- Wayman, Ted A., to The M. & W. Electric Mfg. Co., Inc. Cable connectors for meter sockets having hubs. 2,941,025, 6-14-60, Cl. 174-65.
- Waymouth, John F., W. C. Gungle, and C. J. Bernier, to Sylvania Electric Products Inc. Fluorescent lamp. 2,961,566, 11-22-60, Cl. 313-185.
- Waymouth, John F., and F. Bitter, to Sylvania Electric Products Inc. High output fluorescent lamp. 2,966,602, 12-27-60, Cl. 313-44.
- Wayne Iron Works: *See—*  
Edgerton, Charles W., Jr. 2,946,556.
- Wayne Knitting Mills: *See—*  
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- Wayne, Michael, to The Tablet & Ticket Co. Corner connection for frames. 2,947,391, 8-2-60, Cl. 189-76.
- Wayner, Harry H.: *See—*  
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- Wayson, Andrew J., to Merriman Bros., Inc. Spinning ring cleaning means. 2,936,565, 5-17-60, Cl. 57-56.
- Wayson, Andrew J., and A. G. Buchianeri, to Merriman Bros., Inc. Spinning ring and holder therefor. 2,936,568, 5-17-60, Cl. 57-120.
- Wayson, Andrew J., and A. G. Buchianeri, to Merriman Bros., Inc. Spinning ring and wick assembly. 2,964,899, 12-20-60, Cl. 57-120.
- Wayt, Newell E. Well pumping apparatus. 2,942,552, 6-28-60, Cl. 103-45.
- Wean Engineering Co., Inc., The: *See—*  
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Logan, John E. 2,929,740.  
Perrine, Sterling O. 2,941,745.
- Wean Equipment Corp.: *See—*  
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Sarka, Albert J. 2,920,839.  
Sarka, Albert J. 2,947,492.
- Wear, Charles W. Fish hook removers. 2,932,117, 4-12-60, Cl. 43-53.5.
- Wear, John H., to Russell-Lacey Mfg. Co., Inc. Means for forming a tufted fabric having different heights of tufting thereon. 2,961,982, 11-29-60, Cl. 112-79.
- Wear, Robert L., to Minnesota Mining & Mfg. Co. Aromatic epoxidized polyester and method of making. 2,944,035, 7-5-60, Cl. 260-18.
- Weasler, Anthony V. Quickly detachable bearing race and free wheeling guard for a universally and telescopically jointed shaft. 2,919,562, 1-5-60, Cl. 64-4.
- Weasler, Anthony V. Quickly demountable free wheeling guard for a shaft. 2,923,140, 2-2-60, Cl. 64-4.
- Weatherbee, Roger D., to United Aircraft Corp. Lubrication system. 2,925,215, 2-16-60, Cl. 230-116.
- Weatherford, William D., Jr.: *See—*  
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- Weatherford, William F.: *See—*  
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- Weatherhead, Albert J., Jr., to The Weatherhead Co. Rocket launcher. 2,931,273, 4-5-60, Cl. 89-17.
- Weatherhead, Albert J., Jr., to The Weatherhead Co. Tube fitting having means to accommodate flexing of the tube. 2,952,481, 9-13-60, Cl. 285-116.
- Weatherhead, Albert J., Jr., to The Weatherhead Co. Guard ring and method of making. 2,964,054, 12-13-60, Cl. 137-382.
- Weatherhead Co., The: *See—*  
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Hamilton, George A., and Marette. 2,940,363.  
St. Clair, Theodore A., Phillips, and Boyle. 2,926,029.  
Stelzer, James S. 2,958,545.
- Weatherhead Co., The: *See—Continued*  
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Weatherhead, Albert J., Jr. 2,931,273.  
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Weatherhead, Albert J., Jr. 2,964,054.  
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- Weatherly Oilgear Ltd.: *See—*  
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- Weatherly, Merle H., and L. A. Conant, to Union Carbide Corp. Refractory metal and silicon self-healing high temperature alloy. 2,939,785, 6-7-60, Cl. 75-134.
- Weatherly, William G., and J. J. Angelo. Chain saw filing tool. 2,932,993, 4-19-60, Cl. 76-36.
- Weatherly, William G., and J. J. Angelo. Chain saw tooth grinder and support. 2,932,994, 4-19-60, Cl. 76-40.
- Weathers, Leland C., and J. S. Paszek, to Vickers Inc. Power transmission. 2,930,945, 3-29-60, Cl. 317-172.
- Weatherwax, Kenneth A., L. R. Smith, and J. F. Pearson, to Acme Industries, Inc. Fin construction. 2,929,408, 3-22-60, Cl. 138-38.
- Weaver, Allan: *See—*  
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- Weaver, David E.: *See—*  
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- Weaver, Donald C.: *See—*  
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- Weaver, Donald K., Jr. Single sideband modulator. 2,928,055, 3-8-60, Cl. 332-45.
- Weaver, Edward M. and T. R. Fishing alarm device. 2,922,243, 1-26-60, Cl. 43-17.
- Weaver, Ernest P.: *See—*  
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- Weaver, Florence C.: *See—*  
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- Weaver, Francis J., to English Electric Valve Co. Ltd. Magnetic focusing systems for travelling wave tubes. 2,965,782, 12-20-60, Cl. 313-84.
- Weaver, Gerald L.: *See—*  
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- Weaver, Howard F., and J. Abelow. Process for processing of existing air vapor mixtures. 2,920,946, 1-12-60, Cl. 48-219.
- Weaver, J. Allen, deceased; F. C. Weaver and R. C. Fluhrer, executors. Shoe shine box. 2,923,024, 2-2-60, Cl. 15-265.
- Weaver, James G.: *See—*  
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- Weaver, Jerald D., to North American Aviation, Inc. Caging device. 2,944,438, 7-12-60, Cl. 74-470.
- Weaver, John B., to Congoleum-Nairn Inc. Process of imparting smoothness to the surface of a thermoplastic sheet. 2,950,502, 8-30-60, Cl. 18-48.
- Weaver, John R., Jr., and W. J. Gowans, to Rheem Mfg. Co. Shipping unit. 2,928,536, 3-15-60, Cl. 206-46.
- Weaver, Leo J., to Monsanto Chemical Co. Preparation of alkaryl hydrocarbons. 2,949,492, 8-16-60, Cl. 260-671.
- Weaver, Preston R., to The W. L. Maxson Corp. Basic sensing element, adjustable manual reset acceleration switch. 2,952,752, 9-13-60, Cl. 200-61.45.
- Weaver, Reuben S. Spline coupling. 2,926,034, 2-23-60, Cl. 287-53.
- Weaver, Simon D., and A. A. Hollingsworth, to Alabama Pipe Co. Bell and spigot pipe coupling having means to limit the rolling of the gasket. 2,953,399, 9-20-60, Cl. 285-374.
- Weaver, Telsie R.: *See—*  
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- Weaver, Truman J. Shifting lever. 2,941,416, 6-21-60, Cl. 74-523.
- Weaver, Wayne A.: *See—*  
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- Weaver, William A. Reduction gearing and clutch combination. 2,953,034, 9-20-60, Cl. 74-376.
- Weaver, William R. Telescope sight for firearms. 2,949,816, 8-23-60, Cl. 88-32.
- Weaving, John H., to The Austin Motor Co. Ltd. Fuel economisers for petrol engines of the reciprocating piston type. 2,944,800, 7-12-60, Cl. 261-18.
- Weaving Research & Textile Commission Agents Ltd.: *See—*  
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- Webb, Bert, and J. P. Pearce. Support and holddown means for a power-operated, dado cutter. 2,951,517, 9-6-60, Cl. 144-133.
- Webb, Carl J., and D. J. Adams. Chamfer gauge. 2,959,864, 11-15-60, Cl. 33-170.
- Webb, Charles C.: *See—*  
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- Webb, Charles C., to Remington Arms Co., Inc. Multi-station transfer type machine tool improvement. 2,929,421, 3-22-60, Cl. 144-136.
- Webb, Charles R.: *See—*  
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- Webb, Christopher F., to General Register Corp. Ticket issuing machine. 2,929,644, 3-22-60, Cl. 282-16.
- Webb, Christopher F., to Bell Punch Co. Ltd. Key-responsive calculating machine capable of effecting semi-automatic multiplication. 2,956,741, 10-18-60, Cl. 235-62.



- Webb, David L., to Dresser Operations, Inc. Turbodrill tachometer. 2,958,821, 11-1-60, Cl. 324-70.
- Webb, Derrel D., to Houston Engineers, Inc. Tensile energy accumulator and shock absorbing device for well pipe strings. 2,953,352, 9-20-60, Cl. 255-28.
- Webb, Edmund F., to The Delman Co. Nozzle device for wind-shield clearing systems. 2,961,168, 11-22-60, Cl. 239-284.
- Webb, Frederick J., to The Firestone Tire & Rubber Co. Reaction products of 2,6-bis(hydroxymethyl)-4-phenylphenol and alkyl phenol. 2,929,849, 3-22-60, Cl. 260-619.
- Webb, Frederick J., to The Firestone Tire & Rubber Co. Oxidation products of 6-substituted-2,4-trialkyl dihydroquinolines as antioxidants. 2,947,720, 8-2-60, Cl. 260-45.8.
- Webb, Glenn M., to Standard Oil Co. Method of preparing a hydrocarbon conversion catalyst. 2,920,053, 1-5-60, Cl. 252-466.
- Webb, Irving D., to Union Oil Co. of California. Sulfurization of mercaptols. 2,966,521, 12-27-60, Cl. 260-608.
- Webb, Irving D., to Union Oil Co. of California. Sulfurization of ortho-thioformates. 2,966,522, 12-27-60, Cl. 260-608.
- Webb, Irving D., and J. W. Yale, Jr., to Collier Carbon and Chemical Corp. Fungicidal compositions comprising reaction products of ethylene and sulfur. 2,946,714, 7-26-60, Cl. 167-22.
- Webb, Jervis B., Co.: See—
- Blemly, Marvin S., and Schenk. 2,964,600.
- Webb, John K., to United States of America, Air Force. Synchronous detection system. 2,943,193, 6-28-60, Cl. 250-20.
- Webb, John M.: See—
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- Webb, John S.: See—
- Waller, Coy W., Weiss, and Webb. 2,962,503.
- Webb, John S., to American Cyanamid Co. 2-aceto-3,4-furandimethanol and esters. 2,963,488, 12-6-60, Cl. 260-347.4.
- Webb, John S., to American Cyanamid Co. 3,4-furandimethanol and derivatives. 2,963,489, 12-6-60, Cl. 260-347.4.
- Webb, Joseph A.: See—
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- Webb, Leonard H., to Websteel Framing Systems, Inc. Metal panel construction and building assembled therefrom. 2,923,383, 2-2-60, Cl. 189-34.
- Webb, Leonard H., to Websteel Framing Systems, Inc. Floor joist and assembly. 2,945,328, 7-19-60, Cl. 50-283.
- Webb, Maurice, to Pan American Petroleum Corp. Sulfur recovery apparatus. 2,939,769, 6-7-60, Cl. 23-262.
- Webb, Paul L.: See—
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- Webb, Richard C., to United States of America, Army. Angular position converter. 2,930,033, 3-22-60, Cl. 340-347.
- Webb, Robert S., to Elox Corp. of Michigan. Electrical discharge machining method. 2,962,577, 11-29-60, Cl. 219-39.
- Webb, Robert S., to Elox Corp. of Michigan. Power feed control. 2,962,630, 11-29-60, Cl. 315-163.
- Webb, Thomas L. Piston molding core. 2,948,031, 8-9-60, Cl. 22-170.
- Webb, Venard C. Aeration apparatus for storage bins. 2,962,954, 12-6-60, Cl. 98-56.
- Webb, Walter C.: See—
- Troche, Herman J., and Webb. 2,949,741.
- Webb, Walter W., and A. Duerden, to Imperial Chemical Industries Ltd. Manufacture of porous sheet material from powdered polymers. 2,963,746, 12-13-60, Cl. 18-57.
- Webb, William M. Direction-indicating compass. 2,957,250, 10-25-60, Cl. 33-222.
- Webber, Clarence E., to New York Wire Cloth Co. Woven screen cloth. 2,922,442, 1-26-60, Cl. 139-425.
- Webber, Clarence E., to New York Wire Cloth Co. Resin clad metal wire cloth. 2,962,057, 11-29-60, Cl. 139-425.
- Webber, Clarence E., and J. C. Smith, to New York Wire Cloth Co. Wire cloth selvage forming mechanism. 2,946,354, 7-26-60, Cl. 139-130.
- Webber, Claude H., and F. H. Mueller, to Mueller Co. Plastic pipe clamp. 2,933,126, 4-19-60, Cl. 154-1.
- Webber, Clifford B. Hand truck provided with endless track stair climbing means mounted for end over end movement. 2,933,323, 4-19-60, Cl. 280-522.
- Webber, Stanley E., to General Electric Co. Electric discharge device. 2,941,112, 6-14-60, Cl. 315-3.5.
- Webber, William O., to Esso Research and Engineering Co. Method and apparatus for treating hydrocarbons. 2,944,010, 7-5-60, Cl. 208-177.
- Webby, Clive N. Sealing and valving means for use in air guns. 2,945,486, 7-19-60, Cl. 124-11.
- Webby, Clive N. Air guns. 2,945,487, 7-19-60, Cl. 124-13.
- Webcor, Inc.: See—
- Bara, Edwin S. 2,963,297.
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- Weber Aircraft Corp.: See—
- Doyle, James H. 2,939,087.
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- Petrone, Don V., and Weber. 2,953,908.
- Weber, Anthony V., to Weber Machine & Tool Co. Switch for submersible pump. 2,938,090, 5-24-60, Cl. 200-81.
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- Hinrichsen, Hans, and Weber. 2,920,906.
- Weber, Carl. Device for removing and routing putties and other material. 2,949,826, 8-23-60, Cl. 90-12.
- Weber, Carl. Portable undercutting and routing device. 2,952,281, 9-13-60, Cl. 144-136.
- Weber, Charles G.: See—
- Farris, Victor W., and Weber. 2,934,305.
- Weber, Charles L., to Westinghouse Air Brake Co. Relay or triple valve. 2,940,798, 6-14-60, Cl. 303-28.
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- Weber, Franz, to The Elmco Corp. Idler wheel position adjusting means. 2,959,451, 11-8-60, Cl. 305-10.
- Weber, Frederick H.: See—
- Hoffman, Herbert O., and Weber. 2,927,709.
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- Weber, Gerhard K.: See—
- Adams, Donald W., and Weber. 2,953,127.
- Weber, H. G., & Co., Inc.: See—
- Olsen, Joseph O., and Weber. 2,962,069.
- Weber, Herbert H. 2,933,023.
- Weber, Heinrich, H. Paul, W. Reimold, deceased (E. and G. Reimold, heirs), to Chemische Werke Huls Aktiengesellschaft. Method of purifying low-pressure polyolefines. 2,930,783, 3-29-60, Cl. 260-93.7.
- Weber, Heinrich, H. Strache, F. Broich, W. Franke, and K. Kiepert, to Chemische Werke Huls Aktiengesellschaft. Process for the production of low-pressure polyethylene with a molecular weight of 500,000 to 1,500,000. 2,935,501, 5-3-60, Cl. 260-94.9.
- Weber, Heinz: See—
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- Weber, Herbert H.: See—
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- Weber Instrument Corp.: See—
- Weber, Milton N. 2,931,638.
- Weber, Milton N. 2,956,761.
- Weber, Joseph A., J. R. Thomas, and R. W. Jackson; said Thomas and said Jackson assors. to said Weber. Driving mechanism. 2,950,623, 8-30-60, Cl. 74-117.
- Weber, Karl F., E. L. Clouse, and C. J. Norby, to Weber Showcase & Fixture Co., Inc. Modular wall construction. 2,934,181, 4-26-60, Cl. 189-34.
- Weber, Leo F.: See—
- Butcher, Ralph L., and Weber. 2,920,781.
- Weber, Leo L., to Essex Wire Corp. Temperature responsive control circuit. 2,927,989, 3-8-60, Cl. 219-20.
- Weber Machine & Tool Co.: See—
- Weber, Anthony V. 2,938,090.
- Weber, Matt J., Jr.: See—
- Markestein, John, and Weber. 2,936,983.
- Weber, Max. Variable-speed friction drive. 2,929,273, 3-22-60, Cl. 74-796.
- Weber, Milton N., to Weber Instrument Corp. Weighing device for loaded vehicle. 2,931,638, 4-5-60, Cl. 265-40.
- Weber, Milton N., to Weber Instrument Co. Self-levelling and weighing device. 2,956,761, 10-18-60, Cl. 248-22.
- Weber, Nelson H., and W. B. Dull, to Kingston Products Corp. Bayonet type socket for electric lamp. 2,959,761, 11-8-60, Cl. 339-188.
- Weber, Otto R.: See—
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- Weber, Richard, to Metallgesellschaft Aktiengesellschaft. Process for making workpieces at least partly from metal powder. 2,932,883, 4-19-60, Cl. 29-420.5.
- Weber, Robert A.: See—
- Kececioğlu, Dimitri B., Weber, and Kiefer. 2,938,468.
- Weber, Robert G., to Minneapolis-Honeywell Regulator Co. Automatic pilot. 2,944,768, 7-12-60, Cl. 244-77.
- Weber, Robert S. Rotary roasting implement. 2,953,081, 9-20-60, Cl. 99-427.
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- Webster, Benjamin C.: *See*—  
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- Webster, Benjamin C., to Harvey Hubbell, Inc. Locking electrical cap and connector. 2,920,304, 1-5-60, Cl. 339—193.
- Webster, Benjamin C., to Harvey Hubbell, Inc. Cord clamp for electrical wiring device. 2,930,022, 3-22-60, Cl. 339—103.
- Webster, Darwell H.: *See*—  
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- Webster, Desmond E. C. Closure fastening device. 2,960,858, 11-22-60, Cl. 70—150.
- Webster, Edmund E., and J. Clark, to The Plessey Co. Ltd. Actuating spindles in potentiometers and variable resistors. 2,952,826, 9-13-60, Cl. 338—162.
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- Webster Electric Co.: *See*—  
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- Webster, Frank G.: *See*—  
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- Webster, Frank G., and L. G. S. Brooker, to Eastman Kodak Co. Holopolar dyes derived from 3-indazolinone. 2,961,317, 11-22-60, Cl. 96—102.
- Webster, George J., and O. K. Austin, to Phillips Petroleum Co. Carbon black apparatus. 2,924,512, 2-9-60, Cl. 23—259.5.
- Webster, Hugh G., and R. P. Devane, to Kolene Corp. Methods for cleaning and descaling titanium. 2,936,270, 5-10-60, Cl. 204—141.
- Webster, James D., to The Fred Gretsck Mfg. Co. Sound pick up device for stringed instruments. 2,964,985, 12-20-60, Cl. 84—115.
- Webster, Milo E., to Otto Brenz Co. Portable cook stove. 2,954,024, 9-27-60, Cl. 126—38.
- Webster, Roger R.: *See*—  
De Weese, Charles R., Lacy, Webster. 2,925,501.
- Webster, Roger R., F. C. Ducote, and H. F. Cooke, to Texas Instruments Inc. Television tuner. 2,964,626, 12-13-60, Cl. 250—40.
- Webster, Stanley K.: *See*—  
Mitchell, Robert E., and Webster. 2,950,357.
- Webster, Stokely, and C. E. Barkalow, to United Aircraft Corp. Electric method of and system for caging gyroscopes. 2,919,584, 1-5-60, Cl. 74—5.1.
- Webster, Thomas J., to The British Oxygen Co. Ltd. Storage of liquefied gases. 2,959,023, 11-8-60, Cl. 62—45.
- Webster, Thomas J., to The British Oxygen Co. Ltd. Evaporation of liquefied gases. 2,964,917, 12-20-60, Cl. 62—51.
- Webster, Warren E., to The Joyce-Cridland Co. Hydraulic lift. 2,961,069, 11-22-60, Cl. 187—8.62.
- Webster, William G., to Parker-Hannifin Corp. Eight port distributor valve. 2,928,412, 3-15-60, Cl. 137—238.
- Wechsler, Harry, and S. S. Levy, to The Borden Co. Polymerization of vinyl esters. 2,965,623, 12-20-60, Cl. 260—89.1.
- Wechsler, Harry, S. S. Levy, and R. Herbst, Jr., to The Borden Co. Suspension copolymerization of vinyl esters and unsaturated aliphatic acids. 2,966,480, 12-27-60, Cl. 260—85.7.
- Weckesser, Ethan. Cable clamps. 2,935,773, 5-10-60, Cl. 24—17.
- Weckstein, Samson M., to The Timken Roller Bearing Co. Bearing mounting for use on tapered mill roll necks and the like. 2,939,750, 6-7-60, Cl. 308—236.
- Weddle, Billy D. Christmas tree holder. 2,931,604, 4-5-60, Cl. 248—44.
- Wedell, Hans: *See*—  
Heyden, Rudi, and Wedell. 2,953,479.
- Wedell, Hans, to Böhme Fettchemie G.m.b.H. Process for wrinkle- and crease-proofing of textiles. 2,953,481, 9-20-60, Cl. 117—139.4.
- Wedemeyer, Karlfried: *See*—  
Delfs, Detlef, and Wedemeyer. 2,923,743.
- Wedepohl, Peter T.: *See*—  
Custers, Jan F. H., Dyer, and Wedepohl. 2,931,351.
- Weed, Arthur F.: *See*—  
Sauer, Richard W., and Weed. 2,951,033.
- Weed, Percival E. Self-adjusting ball bearing. 2,927,826, 3-8-60, Cl. 308—197.
- Weeden, Robert W.: *See*—  
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- Weeks, Charles M. Remote control automatic pilot. 2,925,060, 2-16-60, Cl. 114—144.
- Weeks, Frank E., to General Electric Co. Quiet gear. 2,939,331, 6-7-60, Cl. 74—443.
- Weeks, Ivan F., and W. V. Goeddel, to United States of America, Atomic Energy Commission. Method of fabricating a uranium-zirconium hydride reactor core. 2,929,707, 3-22-60, Cl. 75—211.
- Weeks, John G., to Western Electric Co., Inc. Apparatus for dynamically gaging relays. 2,940,036, 6-7-60, Cl. 324—28.
- Weeks, John R.: *See*—  
Schweitzer, Donald G., Weeks, Kammerer, and Gurinsky. 2,926,111.
- Weeks, Lloyd E.: *See*—  
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- Weeks, Lloyd E., to Monsanto Chemical Co. Emulsified motor fuel. 2,920,948, 1-12-60, Cl. 52—5.
- Weeks, Lloyd E., to Monsanto Chemical Co. Phosphate compositions. 2,928,728, 3-15-60, Cl. 71—43.
- Weeks, Lloyd E., and C. L. Wilson, to Monsanto Chemical Co. Erosion control. 2,935,853, 5-10-60, Cl. 61—35.
- Weeks, Raymond J.: *See*—  
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- Weeks, Richard W.: *See*—  
Beaumont, James O., and Weeks. 2,936,207.
- Weeks, Walter R., to General Electric Co. Electric range. 2,932,715, 4-12-60, Cl. 219—20.
- Weems System of Navigation, Inc.: *See*—  
Tiffany, Carter. 2,946,256.
- Weems, Wayne O. Animal call. 2,936,547, 5-17-60, Cl. 46—180.
- Weeren, Edward L. M. Lawn edger. 2,962,102, 11-29-60, Cl. 172—18.
- Weesner, William E., to Monsanto Chemical Co. Resinous compositions of vinyl chloride copolymers with tri-esters of pimelic acid as plasticizers. 2,961,422, 11-22-60, Cl. 260—31.8.
- Weesner, William E., to Monsanto Chemical Co. Biological toxicants. 2,965,538, 12-20-60, Cl. 167—30.
- Weesner, William E., and R. A. Heimsch, to Monsanto Chemical Co. Process for production of dehydrated aldols. 2,949,486, 8-16-60, Cl. 260—604.
- Wegener, Horst A. R.: *See*—  
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- Wegener, Howard W.: *See*—  
Mikulis, Benjamin M., and Wegener. 2,964,436.
- Wegener, Howard W., and B. M. Mikulis, to Sanders Associates, Inc. Shielded printed circuit electrical component. 2,963,535, 12-6-60, Cl. 174—36.
- Weglein, Rolf D.: *See*—  
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- Weglein, Rolf D., to Hughes Aircraft Co. Spurious mode suppressor for backward-wave oscillators. 2,930,925, 3-29-60, Cl. 315—3.5.
- Wegler, Richard: *See*—  
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Regel, Erik, Wegler, and Grewe. 2,923,658.  
Sasse, Klaus, Wegler, and Grewe. 2,943,017.
- Wegley, Wesley D.: *See*—  
Horton, William F., and Wegley. 2,945,650.
- Weglin, Walter. Dripping candle. 2,959,950, 11-15-60, Cl. 67—22.5.
- Wegmann, Jacques, and C. Becker, to Ciba Ltd. Colored shaped structures from viscose and process for their manufacture. 2,927,035, 3-1-60, Cl. 106—165.
- Wegmann, Jerome B.: *See*—  
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- Wegner, Heinz: *See*—  
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- Wegner, Leona E.: *See*—  
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- Wegner Machinery Corp.: *See*—  
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- Wegner, Ralph R.: *See*—  
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- Wegner, Robert C.: *See*—  
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- Wehde, Heinz P., and P. G. Rothe, to Telefunken G.m.b.H. System for broad-band recording. 2,944,113, 7-5-60, Cl. 179—15.55.
- Wehmeier, Hermann, and F. Voborsky, to Buderussche Eisenwerke. Process for the treatment of thick-walled metallic hollow bodies. 2,942,337, 6-28-60, Cl. 29—401.
- Wehr, Robert D. Apparatus for extracting juice from citrus fruits. 2,945,431, 7-19-60, Cl. 100—97.
- Wehr Steel Co.: *See*—  
Aude, John R., and Potter. 2,966,240.
- Wehrig, Otto C. Burglar alarm. 2,946,867, 7-26-60, Cl. 200—61.45.
- Wehrli, Frederick. Key ring and lock. 2,938,375, 5-31-60, Cl. 70—459.
- Wehrli, Jean K. Novelty arm and leg band. 2,962,726, 12-6-60, Cl. 2—311.
- Wehrli, Walter: *See*—  
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Senn, Otto, Uehlinger, and Wehrli. 2,928,823.  
Steinemann, Willy, and Wehrli. 2,961,437.
- Wehrmann, Ralph J., to General Motors Corp. Sonic flow pyrometer. 2,922,305, 1-26-60, Cl. 73—349.
- Wehrmann, Ralph F., to United States of America, Atomic Energy Commission. Method for electrodepositing polonium. 2,951,020, 8-30-60, Cl. 204—45.
- Wehrmann, Ralph F., and S. Kluz, to Fansteel Metallurgical Corp. Method of forming titanium silicide refractory articles. 2,921,861, 1-19-60, Cl. 106—55.
- Wehrmann, Ralph F., L. F. Yntema, and I. E. Campbell, to Fansteel Metallurgical Corp. Refractory metal bodies. 2,924,004, 2-9-60, Cl. 29—198.
- Wehsely, Karl, to Institut für Landmaschinen und Traktorenbau. Front-wheel drive for tractors. 2,919,759, 1-5-60, Cl. 180—53.



- Weibel, Gerhard E., to Sylvania Electric Products Inc. Wave generator. 2,925,513, 2-16-60, Cl. 313-162.
- Weibel, Gerhard E., to Sylvania Electric Products Inc. Wave generator. 2,925,523, 2-16-60, Cl. 315-7.
- Weibel, Gerhard E., to Sylvania Electric Products Inc. Wave generator. 2,942,144, 6-21-60, Cl. 315-7.
- Weibel, John, Jr., to General Motors Corp. Motor-compressor support. 2,965,289, 12-20-60, Cl. 230-235.
- Weibert, Bayard E., Jr. Air conditioning supply and return register for parked automobiles. 2,925,768, 2-23-60, Cl. 98-2.
- Weibull, Nils R. M., to Ingeniors-Firman Nils Weibull AB. Silos for the storage of bulk goods such as sugar, grain, artificial fertilizers and the like. 2,935,263, 5-3-60, Cl. 237-2.
- Weichardt, Heinz H., to Cutler-Hammer, Inc. Microwave switches. 2,935,584, 5-3-60, Cl. 200-87.
- Weidauer, Curt: See—
- Briskman, Samuel, and Weidauer. 2,949,050.
- Weide, Ralph L., N. J. Maxwell, and O. B. Travis; said Travis assor. to said Weide and said Maxwell. Ski line reel apparatus. 2,956,778, 10-18-60, Cl. 254-187.
- Weide, Rudolph C., to General Motors Corp. Controller. 2,943,286, 6-28-60, Cl. 338-67.
- Weideman, Bernard A., and J. J. Groff, to Globe-Union Inc. Apparatus for filling receptacles. 2,944,573, 7-12-60, Cl. 141-87.
- Weidig, Miles, to The Carlton Machine Tool Co. Hydraulic spindle balance. 2,926,554, 3-1-60, Cl. 77-36.
- Weidinger, Hans: See—
- Ebel, Friedrich, and Weidinger. 2,951,842.
- Weidknecht, Charles J.: See—
- Finkel, Leonard, and Weidknecht. 2,950,448.
- Weidlich, William A., to Interchemical Corp. Rotary intaglio offset printing machine. 2,960,026, 11-15-60, Cl. 101-154.
- Weidner, Charles L.: See—
- Bartell, Charles, Weidner, and Smith. 2,937,109.
- Weidner, Clarence B., to Air Products Inc. Automatic high speed deep hole drilling machine. 2,922,323, 1-26-60, Cl. 77-32.2.
- Weier, Jacob J. Traction devices. 2,950,148, 8-23-60, Cl. 305-13.
- Weiffenbach, Harry W. Paint can shield. 2,945,611, 7-19-60, Cl. 220-85.
- Weiffenbach, Harry W. Paint can shield. 2,945,612, 7-19-60, Cl. 220-90.
- Weigand, Helmut, to Robert Bosch G.m.b.H. Internal battery heating arrangement. 2,938,066, 5-24-60, Cl. 136-161.
- Weigel, Fritz, and R. Schwarz; said Weigel, assor. to Siemens-Schuckertwerke Aktiengesellschaft. Certain silicic acid esters and polymers thereof. 2,964,499, 12-13-60, Cl. 260-47.
- Weigel, John E.: See—
- Reamer, Thomas E., and Weigel. 2,958,661.
- Weigel, John R.: See—
- Fitzgerald, Thomas C., Stewart, and Weigel. 2,923,493.
- Lorenz, Gordon E., and Weigel. 2,942,797.
- Weighill, Francis T. Hydraulic stilt. 2,923,947, 2-9-60, Cl. 3-4.
- Weigle, William C., W. E. Benedict, and J. F. Dobry, to Congoleum-Nairn Inc. Method of producing decorative sheet material. 2,926,100, 2-23-60, Cl. 117-21.
- Weih, Julius, to Ideal Toy Corp. Joint construction for a doll or mannikin. 2,934,858, 5-3-60, Cl. 46-173.
- Weihmayr, Engelbert, to Kleindienst & Co. Maschinenfabrik und Eisengießerei. Pressing device. 2,943,772, 7-5-60, Cl. 223-57.
- Weih, Fred H.: See—
- Dallas, Wilbur G., and Weih. 2,939,722.
- Weijlard, John: See—
- Pfister, Karl, III, and Weijlard. 2,966,491.
- Weijlard, John, and K. Pfister, III, to Merck & Co., Inc. N-[ $\beta$ -(p-aminophenyl) ethyl]-4-phenyl-4-carboethoxy-piperidine salts thereof and processes of preparing the same. 2,966,490, 12-27-60, Cl. 260-294.3.
- Weikart, John, to Esso Research and Engineering Co. Combination heat exchange and hydrofining process. 2,927,891, 3-8-60, Cl. 208-218.
- Weikart, John, and R. C. Morbeck, to Esso Research and Engineering Co. Upgrading petroleum naphthas containing unsaturated hydrocarbons and sulfur compounds. 2,926,132, 2-23-60, Cl. 208-143.
- Weikart, John, J. D. Bushnell, G. D. Ward, and R. S. Wood; said Weikart, Bushnell, and Ward assors. to Esso Research and Engineering Co.; said Wood assor. to Standard-Vacuum Oil Co. Hydrodesulfurization of whole crudes. 2,959,538, 11-8-60, Cl. 208-211.
- Weikel, Claude O. Lever and endless chain log turner for saw mill carriages. 2,950,742, 8-30-60, Cl. 143-102.
- Weikert, Alfred, to Chemie und Metall Handelsgesellschaft mit beschränkter Haftung. Apparatus for the selective separation of granular material distributed in liquids. 2,938,628, 5-31-60, Cl. 209-158.
- Weil, Alice C.: See—
- Bush, Arthur B., Jr., and Weil. 2,944,930.
- Weil, Benjamin G., and J. G. Morse, to The Glenn L. Martin Co. Uranium reactor fuel element and process. 2,930,745, 3-29-60, Cl. 204-193.2.
- Weil, Edward: See—
- Rosenberg, David S., and Weil. 2,951,081.
- Weil, Frederick M., to Gilfillan Bros. Inc. Radiation polarization control. 2,930,040, 3-22-60, Cl. 343-756.
- Weil, James K.: See—
- Cowan, John C., Weil, and Stirton. 2,938,872.
- Weil, Lester L.: See—
- Sloan, Arthur W., and Weil. 2,966,405.
- Weil, Lester L., to Atlantic Research Corp. Solid propellant compositions and processes for making same. 2,966,403, 12-27-60, Cl. 52-5.
- Weil-McLain Co.: See—
- Mueller, Johannes G. 2,935,052.
- Weil, Thomas A., to Raytheon Co. Choke input power supplies. 2,930,962, 3-29-60, Cl. 321-16.
- Weil, Walter M.: See—
- Cooper, Hugh S. 2,964,397.
- Weilby, Ole O., to Utility Stationery & Envelope Co., Inc. Binding for individually removable flat articles. 2,956,674, 10-18-60, Cl. 206-57.
- Weiler Brush Co. Inc.: See—
- Weiler, Karl E. 2,932,050.
- Weiler, Harry E., to Reynolds Metals Co. Metallic structure for floors and the like. 2,952,341, 9-13-60, Cl. 189-34.
- Weiler, John L.: See—
- Whitney, Vernon L., Jr., and Weiler. 2,961,847.
- Weiler, John L., to Fairchild Engine and Airplane Corp. Fluid bearing structure. 2,936,197, 5-10-60, Cl. 308-73.
- Weiler, Karl E., to Weiler Brush Co. Inc. Brush construction. 2,932,050, 4-12-60, Cl. 15-180.
- Weill, Bruno R., to Thonet Industries, Inc. Tubular members and coupling means therefor. 2,941,855, 6-21-60, Cl. 311-105.
- Weill, Georges: See—
- Simon, Jean C., and Weill. 2,927,322.
- Weill, Jacky, to "Commissariat a l'Energie Atomique." Ionization chambers. 2,937,282, 5-17-60, Cl. 250-83.6.
- Weill, Jacky, to Commissariat a l'Energie Atomique. Compensated ionization chambers. 2,962,614, 11-29-60, Cl. 313-61.
- Weills, Jordan T., and J. M. West, to United States of America, Atomic Energy Commission. Neutronic reactor construction and operation. 2,928,779, 3-15-60, Cl. 204-154.2.
- Weimer, John H., to The Hubley Mfg. Co. Electrically actuated detonator for caps on a tpe. 2,930,157, 3-29-60, Cl. 42-57.
- Weimer, John H., to The Hubley Mfg. Co. Toy cap revolver. 2,944,358, 7-12-60, Cl. 42-58.
- Weimer, Paul E.: See—
- Redman, Horace E., and Weimer. 2,943,114.
- Weimer, Paul K., to Radio Corp. of America. Television camera tubes. 2,963,604, 12-6-60, Cl. 313-66.
- Weinberg, Harold N., and W. Lockett, Jr., to Esso Research and Engineering Co. Coking and scrubbing system. 2,963,418, 12-6-60, Cl. 208-84.
- Weinberg, Irving, to The Vilter Mfg. Co. Fishing boat refrigeration. 2,931,192, 4-5-60, Cl. 62-240.
- Weinberg, Louis, to Hughes Aircraft Co. Wave filter. 2,922,128, 1-19-60, Cl. 333-74.
- Weinberg, Mark H., to Product Engineering Laboratories Co., Inc. Tote box. 2,941,691, 6-21-60, Cl. 220-41.
- Weinberg, William J. Anti-friction ball transfer. 2,949,992, 8-23-60, Cl. 193-35.
- Weinbrenner, Erwin: See—
- Brochagen, Franzkarl, Hochtlen, and Weinbrenner. 2,921,915.
- Weinbrenner, Erwin, P. Hoppe, K. Breer, and H. Kisteneich,  $\frac{1}{2}$  to Farbenfabriken Bayer Aktiengesellschaft,  $\frac{1}{2}$  to Maschinenfabrik Karl Hennecke, and  $\frac{1}{2}$  to Mobay Chemical Co. Apparatus for reciprocating a pouring truck over a conveyor. 2,935,100, 5-3-60, Cl. 141-131.
- Weiner, Hank: See—
- Coleman, Charles G., Jr., and Weiner. 2,948,969.
- Weiner, Harry S., to Diamond Alkali Co. Chlorination of ethylene dichloride. 2,957,922, 10-25-60, Cl. 260-654.
- Weiner, Nathan, and S. M. Gordon, to Endo Laboratories, Inc. Certain esters of tropine and tropinium salts. 2,962,499, 11-29-60, Cl. 260-292.
- Weiner, Ted. Apparatus for loading and unloading floating vessels. 2,946,466, 7-26-60, Cl. 214-14.
- Weinert, Carl R., to Federal Laboratories, Inc. Filling machine. 2,953,959, 9-27-60, Cl. 86-20.
- Weinert, Carl R., to Federal Laboratories, Inc. Gas grenade. 2,959,127, 11-8-60, Cl. 102-65.
- Weinfurt, William J., to McGraw-Edison Co. Electric contact. 2,931,876, 4-5-60, Cl. 200-166.
- Weinfurt, William J., to McGraw-Edison Co. Electric contacts. 2,937,257, 5-17-60, Cl. 200-166.
- Weingart, Ben, J. H. Zillman, and R. E. Poole, Jr.; said Zillman and said Poole, assors. to said Weingart. Remote writing instrument. 2,935,561, 5-3-60, Cl. 178-18.
- Weingart, Ben, J. H. Zillman, and R. E. Poole, Jr.; said Zillman and said Poole, Jr., assors. to said B. Weingart. Receiver mechanism for remote writing instrument. 2,959,637, 11-8-60, Cl. 178-18.
- Weingart, Richard I. N., to Burroughs Corp. Machines for issuing business forms. 2,921,515, 1-19-60, Cl. 101-68.
- Weingart, Richard I. N. Tickets and method of preparing the same. 2,925,288, 2-16-60, Cl. 283-9.
- Weingart, Richard I. N., to Burroughs Corp. Machines for printing and issuing tickets and business forms. 2,951,438, 9-6-60, Cl. 101-68.



- Weingarten, Harold I.: *See*—  
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- Weingarten, Morris R., to Radio Corp. of America. Apparatus for use in the manufacture of mosaic screens for color-kinescopes, etc. 2,941,457, 6-21-60, Cl. 95-1.
- Weingarten, Morris R., and B. M. Hollinger, to Radio Corp. of America. Servo-motor hoisting and handling apparatus. 2,924,429, 2-9-60, Cl. 254-168.
- Weinger, Ralph, to Jetronic Industries, Inc. Electrical-acoustic transducer. 2,937,244, 5-17-60, Cl. 179-188.
- Weinheimer, Herbert C.: *See*—  
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- Weining, Andrew. Grinding wheel dressing device. 2,934,057, 4-26-60, Cl. 125-11.
- Weininger, Joseph L., to General Electric Co. Galvanic battery. 2,933,546, 4-19-60, Cl. 136-86.
- Weinkamer, William A.: *See*—  
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- Weinke, Charles W.: *See*—  
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- Weinland, Clarence E., to United States of America, Navy. Rotating rocket motor and method of making same. 2,944,389, 7-12-60, Cl. 60-35.6.
- Weinman, Alfred H. Water heaters. 2,956,146, 10-11-60, Cl. 219-38.
- Weinmayr, Viktor, to E. I. du Pont de Nemours and Co. Solvent-soluble metal phthalocyanine compounds and process of making the same. 2,925,423, 2-16-60, Cl. 260-314.5.
- Weinrich, Arthur R., to Kay Chemicals, Inc. Spray silvering procedures. 2,963,383, 12-6-60, Cl. 117-35.
- Weinschel, Bruno O. Rapidly converging wide-range double-stub microwave impedance matching device. 2,941,169, 6-14-60, Cl. 333-33.
- Weinschel, Bruno O. Regulated source of high-frequency energy. 2,956,243, 10-11-60, Cl. 331-183.
- Weinstein, Alex J.: *See*—  
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- Weinstein, Bernard R., to Crest Foods Co., Inc. Nutrient antacid composition and method of making the same. 2,940,897, 6-14-60, Cl. 167-55.
- Weinstein, Nathan E.: *See*—  
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- Weinstein, Norman J.: *See*—  
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 Feldbauer, George F., Jr., Jahnig, and Weinstein. 2,920,038.  
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- Weinstock, Harry H., Jr.: *See*—  
 Phelps, Virginia A., and Weinstock. 2,934,524.
- Weinstock, Harry H., Jr., to Allied Chemical Corp. Crimping apparatus. 2,933,771, 4-26-60, Cl. 19-66.
- Weinstock, Joseph: *See*—  
 Grannells, June, and Weinstock. 2,963,481.  
 Taylor, Edward C., and Weinstock. 2,963,480.
- Weinstock, Joseph, to Smith, Kline & French Laboratories. Spiro[bicyclo[2.2.1]heptane-2,2'-alkylenimines]. 2,931,805, 4-5-60, Cl. 260-239.3.
- Weinstock, Joseph, to Smith Kline & French Laboratories. 4,7-diamino-N-aralkyl-2-aryl-6-pteridinecarboxamides. 2,963,478, 12-6-60, Cl. 260-251.5.
- Weinstock, Joseph, and M. E. Wolff, to Smith Kline & French Laboratories. Process for preparing steroidal 11-hydroxy 18-carboxylic acid lactones. 2,960,503, 11-15-60, Cl. 260-239.57.
- Weinstock, Kermit V.: *See*—  
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- Weinstock, Leonard M.: *See*—  
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- Weintraub, Herbert S., to The A. C. Gilbert Co. Structural molecular models. 2,942,356, 6-28-60, Cl. 35-18.
- Weintraub, Robert L.: *See*—  
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- Weir, Casper J., Jr.: *See*—  
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- Weir, Donald A., to International Standard Electric Corp. Testing arrangements. 2,936,443, 5-10-60, Cl. 340-174.
- Weir, Donald A., and J. Rice, to International Standard Electric Corp. Binary adder-subtractor. 2,926,851, 3-1-60, Cl. 235-176.
- Weir, G. & J., Ltd.: *See*—  
 Patterson, Edward H. 2,939,525.
- Weir, John D., to Sperry Rand Corp. Reference systems for a dirigible craft. 2,945,381, 7-19-60, Cl. 74-5.41.
- Weir, Robert J.: *See*—  
 Brown, John F., Weir, and Whelan. 2,950,177.
- Weir, Roberta H. Sewing guide for an offset sewing line. 2,960,948, 11-22-60, Cl. 112-151.
- Weir, Thomas J., to Schwitzer Corp. Spring loaded drive. 2,963,135, 12-6-60, Cl. 192-57.
- Weirauch, Bruno, to Maschinenfabrik August Herbolt. Device for sorting articles by length, particularly for sorting cucumbers, beans or the like. 2,961,095, 11-22-60, Cl. 209-75.
- Weirich, David J. Can opener. 2,964,842, 12-20-60, Cl. 30-16.
- Weis, Alfred, W. Sussebach, and M. Schworer, to Elektro-Mechanik G.m.b.H. Electro-hydraulic adjusting device. 2,942,422, 6-28-60, Cl. 60-52.
- Weis, Arthur. Garment clasp. 2,939,196, 6-7-60, Cl. 24-248.
- Weis, Charles W.: *See*—  
 Powers, Richard E., and Weis. 2,946,313.  
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- Weis, Konrad: *See*—  
 Kruckenberg, Winfried, and Weis. 2,945,849.
- Weis, Martin: *See*—  
 Espersen, George A., and Weis. 2,957,100.
- Weisbaum, Samuel: *See*—  
 Boyet, Howard, and Weisbaum. 2,923,899.
- Weisberg, Harry, to Londat Aetz Fabric Co. Modified carboxyalkyl cellulose. 2,921,934, 1-19-60, Cl. 260-232.
- Weisberg, Mark, and F. P. Butler, to Eltex Chemical Corp. Selective stripping of electroplated metals. 2,937,940, 5-24-60, Cl. 75-97.
- Weisberg, Samuel M.: *See*—  
 Iacono, Placido, and Weisberg. 2,933,392.
- Weisberg, Sydney R., and C. B. Spangenberg, said Spangenberg assor. to said Weisberg. Timer. 2,934,701, 4-26-60, Cl. 324-68.
- Weisbrich, Robert L.: *See*—  
 Shaffer, Marlin R., and Weisbrich. 2,951,163.
- Weise, Carl A.: *See*—  
 Ritterskamp, Jack H., and Weise. 2,943,445.
- Weise, Dominikus H., to M. Grundig. Record-changing phonographs. 2,963,296, 12-6-60, Cl. 274-10.
- Weise, Erwin K., to Semicon, Inc. Electrical control circuits utilizing thermistors. 2,948,799, 8-9-60, Cl. 219-20.
- Weise, Johannes, to Farbenfabriken Bayer Aktiengesellschaft. Process for re-obtaining monomeric  $\epsilon$ -caprolactam from poly- $\epsilon$ -caprolactam. 2,930,790, 3-29-60, Cl. 260-239.3.
- Weise, Richard C.: *See*—  
 Einhorn, Sidney N., Hoberg, Palvinen, and Weise. 2,932,011.
- Weisenbach, Charles O., to The New York Air Brake Co. Hydraulic transmission. 2,961,829, 11-29-60, Cl. 60-53.
- Weisenborn, Frank L.: *See*—  
 Pan, Samuel C., and Weisenborn. 2,964,451.
- Weisenborn, Frank L., to Olin Mathieson Chemical Corp. 9 $\alpha$ -halo-A-norprogesterones. 2,950,289, 8-23-60, Cl. 260-348.
- Weisenburg, Andrew, to Continental Can Co., Inc. Pad feeding, placing, and inserting mechanism for crown caps. 2,964,005, 12-13-60, Cl. 113-80.
- Weisenfeld, Arthur. Dental tool and masses held therein. 2,937,446, 5-24-60, Cl. 32-40.
- Weiser, David. Pleating. 2,945,238, 7-19-60, Cl. 2-243.
- Weiser, George L.: *See*—  
 Nichols, Charles A., and Weiser. 2,939,350.
- Weiser, Kurt, to Radio Corp. of America. Method of preparing pure indium phosphide. 2,937,075, 5-17-60, Cl. 23-204.
- Weiser, Morris. Garment hanger. 2,926,823, 3-1-60, Cl. 223-94.
- Weiser, Thomas D., and J. D. Bennett, to Fawick Corp. Automatic emergency shut-off valve assembly. 2,924,423, 2-9-60, Cl. 251-263.
- Weisgerber, Charles F.,  $\frac{1}{2}$  to P. R. Francis. Moisture requirement calculator. 2,920,827, 1-12-60, Cl. 235-179.
- Weisgerber, Cyrus A., to Hercules Powder Co. Sized paper and method of making same. 2,961,366, 11-22-60, Cl. 162-158.
- Weisgerber, Cyrus A., to Hercules Powder Co. Sized paper and method of making same. 2,961,367, 11-22-60, Cl. 162-158.
- Weisgerber, Robert H.: *See*—  
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- Weisglass, Louis L.: *See*—  
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- Weisglass, Louis L., to Simmon Bros., Inc. Photographic timing device. 2,949,811, 8-23-60, Cl. 88-24.
- Weisglass, Louis L., and A. Simmon, to Simmon Brothers, Inc. Automatic dodging device for photography. 2,921,499, 1-19-60, Cl. 88-24.
- Weisglass, Louis L., and A. Simmon, to Simmon Bros., Inc. Color comparator. 2,949,809, 8-23-60, Cl. 88-14.
- Weishaupt, Paul. Apparatus for handling and processing photographic material. 2,939,373, 6-7-60, Cl. 95-94.
- Weisheit, Henry W., Jr.: *See*—  
 Ridgway, Edmund T., and Weisheit. 2,963,903.
- Weiskopf, Edwin C., to The Technicon Co., Inc. Movable work carriers and saw guards mounted thereon for power operated saws. 2,966,177, 12-27-60, Cl. 143-52.
- Weiskopf, Edwin C., and G. Gorham, to Technicon International, Ltd. Automatic liquid supply for immersion apparatus. 2,923,820, 2-23-60, Cl. 134-56.
- Weisler, Leonard, and J. G. Baxter, to Eastman Kodak Co. Preparation of ethers of vitamin A alcohol. 2,941,009, 6-14-60, Cl. 260-611.
- Weisman, Sam, and J. A. Fine, to S.D.M. Enterprises, Inc. Flood control means. 2,930,396, 3-29-60, Cl. 137-357.
- Weisner, Edward F.: *See*—  
 Gimera, Ralph J., Weisner, and Wetch. 2,947,678.



- Weiss, Adolph. Box construction. 2,951,626, 9-6-60, Cl. 229-44.
- Weiss, Alexander C. H., to United States of America, Army. Closing plug for semi-fixed ammunition. 2,947,254, 8-2-60, Cl. 102-43.
- Weiss, Alexander C. H., and R. S. French. Cartridge case plug. 2,959,130, 11-8-60, Cl. 102-95.
- Weiss, Arthur J., to Continental Can Co., Inc. Folding paperboard carton. 2,942,767, 6-28-60, Cl. 229-16.
- Weiss, Benjamin. Hem length and pattern markers for skirts, dresses, and the like garments. 2,959,859, 11-15-60, Cl. 33-9.
- Weiss, Cornelius, Co.: See—
- Weiss, Leopold J. 2,943,186.
- Weiss, Donald E., and E. A. Swinton, to Commonwealth Scientific and Industrial Research Organization. Extraction of uranium. 2,932,552, 4-12-60, Cl. 23-14.5.
- Weiss, Emil: See—
- Nottes, Guenther, and Weiss. 2,957,820.
- Weiss, Eric. Circuitry for multiplication and division. 2,924,383, 2-9-60, Cl. 235-159.
- Weiss, Eric, and W. S. Speer, to The National Cash Register Co. Parallel adder circuit. 2,952,407, 9-13-60, Cl. 235-175.
- Weiss, Ernst, and F. Vonaesch, to Heberlein Patent Corp. Production of mechanical effects on light-weight fabrics. 2,926,414, 3-1-60, Cl. 26-69.
- Weiss, Felix S.: See—
- Cotton, James H., and Weiss. 2,939,060.
- Weiss, Gertrude G.: See—
- Weiss, Stanley J. 2,960,863.
- Weiss, Herbert: See—
- Neumann, Johannes, Weiss, and Assmus. 2,942,177.
- Weiss, Irwin K.: See—
- Crockett, Clarence V., Wallwork, and Weiss. 2,951,548.
- Weiss, Jack B. Convertible table and seat. 2,925,851, 2-23-60, Cl. 155-43.
- Weiss, Johann, Maschinenfabrik und Apparatebau G.m.b.H.: See—
- Schulz, Alfred E. A. 2,936,921.
- Weiss, Karl: See—
- Schulenberg, Franz, and Weiss. 2,951,687.
- Weiss, Leopold J., to Cornelius Weiss Co. Hat. 2,943,186, 6-28-60, Cl. 240-60.
- Weiss, Martin J.: See—
- Waller, Coy W., Weiss, and Webb. 2,962,503.
- Weiss, Max T., to Bell Telephone Laboratories, Inc. Non-reciprocal gyromagnetic device. 2,949,588, 8-16-60, Cl. 333-24.
- Weiss, Mortimer E., to Sylvania Electric Products Inc. Electron discharge device. 2,923,848, 2-2-60, Cl. 313-278.
- Weiss, Paul: See—
- Small, Samuel N. 2,951,492.
- Small, Samuel N. 2,960,094.
- Weiss, Phil H., to Paramount Pictures Corp. Secrecy system. 2,952,735, 9-13-60, Cl. 178-5.1.
- Weiss, Philip, to Colgate-Palmolive Co. Water-soluble copolymers. 2,938,887, 5-31-60, Cl. 260-78.5.
- Weiss, Raymond L. Towel dispenser. 2,930,663, 3-29-60, Cl. 312-38.
- Weiss, Richard, to Franke & Heidecke, Fabrik Photographischer Prazisions-Apparate. Roll film camera with multi-format metering mechanism. 2,926,424, 3-1-60, Cl. 33-129.
- Weiss, Richard, to Franke & Heidecke, Fabrik Photographischer Prazisions-Apparate. Protective housing for photographic cameras. 2,926,572, 3-1-60, Cl. 95-11.
- Weiss, Richard, to Franke & Heidecke, Fabrik Photographischer Prazisions-Apparate. Carrying case for photographic cameras. 2,926,573, 3-1-60, Cl. 95-11.
- Weiss, Richard, to Franke & Heidecke, Fabrik Photographischer Prazisions-Apparate. Reflex camera. 2,949,073, 8-16-60, Cl. 95-42.
- Weiss, Rudolf F.: See—
- Kleinle, Alois, and Weiss. 2,956,218.
- Weiss, Stanley J., deceased (G. G. Weiss, administratrix). Torque-rotation recorder. 2,960,863, 11-22-60, Cl. 73-139.
- Weiss, Theodore J., to Swift & Co. Manufacture of hard butter. 2,936,238, 5-10-60, Cl. 99-113.
- Weiss, Theodore J., to Swift & Co. Plastic shortenings and manufacture thereof. 2,966,411, 12-27-60, Cl. 99-118.
- Weiss, Thomas B. Folded container. 2,950,853, 8-30-60, Cl. 229-24.
- Weiss, Ulrich, to M. J. Lewenstein. Morphine derivative. 2,960,505, 11-15-60, Cl. 260-285.
- Weiss, Walter J., to Texaco Inc. Drilling fluid and method of use. 2,921,898, 1-19-60, Cl. 252-8.5.
- Weiss, Walter J., and R. H. Graves, to Texaco Inc. Drilling fluid. 2,960,464, 11-15-60, Cl. 252-8.6.
- Weiss, Webster J., to J. I. Case Co. Feeder head for crop baler. 2,955,528, 10-11-60, Cl. 100-142.
- Weissberger, Arnold, to Eastman Kodak Co. Reactivity of couplers incorporated in photographic emulsions. 2,945,761, 7-19-60, Cl. 96-55.
- Weissbrodt, Max: See—
- Hausser, Rolf, and Weissbrodt. 2,925,684.
- Weisse, Ernst J., and K. Hilgers, to Losenhausenwerk, Dusseldorfer Maschinenbau, A.G. Balancing machine with electro-mechanical dynamometers. 2,962,899, 12-6-60, Cl. 73-462.
- Weissel, Oskar: See—
- Coenen, Max, and Weissel. 2,957,005.
- Weisser, Karl, and M. Levy, to David Kahn, Inc. Retractable writing instrument. 2,951,465, 9-6-60, Cl. 120-42.03.
- Weissenberg, Bruno: See—
- Richman, Oscar and S., Weissenberg, and Fabrizio. 2,944,262.
- Weissenstein, Carl: See—
- Sloboda, Gustav, and Weissenstein. 2,948,172.
- Weissfioch, Andreas, to Siemens & Halske Aktiengesellschaft. Method of making stretched wire grids. 2,961,759, 11-29-60, Cl. 29-452.
- Weisshaar, Erich: See—
- Welker, Heinrich, Weisshaar, and Pfister. 2,936,373.
- Weissman, Adolf: See—
- Doelter, Gandolph, and Weissman. 2,928,156.
- Weissman, Lowell H.: See—
- Weissman, Samuel M., L. H., and Haimes. 2,950,676.
- Weissman, Richard M., to Bell & Howell Co. Digital sub-tractor. 2,956,748, 10-18-60, Cl. 235-176.
- Weissman, Samuel M., to Bankers & Merchants, Inc. Stamp holder. 2,926,403, 3-1-60, Cl. 24-3.
- Weissman, Samuel M., L. H., and S. L. Haimes, to Bankers & Merchants, Inc. Stamp. 2,950,676, 8-30-60, Cl. 101-334.
- Weissmann, Sigmund. X-ray reflection microscopy and diffraction apparatus and method. 2,926,258, 2-23-60, Cl. 250-53.
- Weisz, Paul B., to Socony Mobil Oil Co., Inc. Hydrocarbon conversion process. 2,943,040, 6-28-60, Cl. 208-91.
- Weisz, Paul B., to Socony Mobil Oil Co., Inc. Selective cracking of aliphatic hydrocarbons. 2,950,240, 8-23-60, Cl. 208-70.
- Weisz, Robert S., to Radio Corp. of America. Magnetic materials having rectangular hysteresis characteristics. 2,950,251, 8-23-60, Cl. 252-62.5.
- Weisz, Thomas A.: See—
- Kamborian, Jacob S., and Weisz. 2,945,247.
- Weitermann, Allen L. Rotary suspension rack. 2,925,915, 2-23-60, Cl. 211-66.
- Weitnauer, Gustavo A., to Lepetit S.p.A. Streptomycin and dihydrostreptomycin salts. 2,945,784, 7-19-60, Cl. 167-65.
- Weitzel, Daniel H., and W. V. Loebenstein. Process for the conversion of hydrogen. 2,943,917, 7-5-60, Cl. 23-210.
- Weitzel, Edward W., to Shuford Mills. Wetting materials and upholstered or other fabric structures comprising same. 2,932,121, 4-12-60, Cl. 45-138.
- Weitzel, Edward W. Knitted hair drying cap. 2,945,115, 7-12-60, Cl. 219-46.
- Welber, Irwin: See—
- Saal, Frederick A., and Welber. 2,935,569.
- Welch, Alanson U., to Air Reduction Co., Inc. Arc welding torch. 2,966,577, 12-27-60, Cl. 219-130.
- Welch, Albert F., and R. A. Thompson, to General Motors Corp. Fuel metering system. 2,927,461, 3-8-60, Cl. 73-223.
- Welch, Arthur J., to Borg-Warner Corp. Thermostatically controlled clutch. 2,925,158, 2-16-60, Cl. 192-82.
- Welch, Charles G.,  $\frac{1}{2}$  to J. F. Govan, and  $\frac{1}{2}$  to R. H. Govan. Slag control. 2,935,956, 5-10-60, Cl. 11-1.
- Welch, Charles W., to Welco Mfg. Co., Inc. Method of tinting surface coverings. 2,927,862, 3-8-60, Cl. 106-97.
- Welch, Clinton M. Fluid translating device. 2,921,535, 1-19-60, Cl. 103-120.
- Welch, Donald H., D. D. Livingstone, and W. Hayduk, to Polymer Corp. Ltd. Olefin extraction process using vacuum reconcentrated sulfuric acid. 2,961,472, 11-22-60, Cl. 260-677.
- Welch, Evan H. Link assembly release. 2,959,443, 11-8-60, Cl. 294-83.
- Welch, Frank J., F. P. Reding, and A. T. Walter, to Union Carbide Corp. Fiber of poly (4-methyl-1-pentene). 2,957,225, 10-25-60, Cl. 28-82.
- Welch, Harold E.: See—
- Lewis, Arthur J., III, Yates, and Welch. 2,939,492.
- Welch, Harold L., to Chrysler Corp. V engine hot spot heating system and method. 2,926,647, 3-1-60, Cl. 23-122.
- Welch, Jack D., to Collins Radio Co. Square wave generator and diode modulator. 2,947,883, 8-2-60, Cl. 307-88.5.
- Welch, Joe N.: See—
- Harrison, John W., and Welch. 2,963,838.
- Welch, John F., to Carpart Corp. Accessory for rotary power driven tools. 2,950,584, 8-30-60, Cl. 51-195.
- Welch, John L., to Green Giant Co. Process for preparing vegetables. 2,941,889, 6-21-60, Cl. 99-186.
- Welch, Kimo M.: See—
- Toland, Wayne G., and Welch. 2,923,362.
- Welch, Kimo M., to International Harvester Co. Gauge wheel for two-way plow. 2,921,639, 1-19-60, Cl. 172-212.
- Welch, Lester M.: See—
- Ford, Francis P., Jasper, Nelson, and Welch. 2,948,695.
- Welch, Nicholas A., to The American Hardware Corp. Mounting means for a door lock. 2,919,571, 1-5-60, Cl. 70-451.
- Welch, Nicholas A., to The American Hardware Corp. Door lock. 2,920,472, 1-12-60, Cl. 70-216.
- Welch, Nicholas A., and C. Wolf, to The American Hardware Corp. Deadbolt lock. 2,936,606, 5-17-60, Cl. 70-134.
- Welch, Parker C., to Morton Packing Co. Pie making machine. 2,924,184, 2-9-60, Cl. 107-12.



- Welch, Parker C., to Continental Baking Co. Pie making machine. 2,949,995, 8-23-60, Cl. 198-20.
- Welch, Stanley B., to General Electric Co. Electric surface heating unit system. 2,921,174, 1-12-60, Cl. 219-20.
- Welch, Thomas H.: *See—*  
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- Welch, Thomas H., and R. F. Wolf, to Columbia-Southern Chemical Corp. Method of incorporating silicone oil coated silica into fluorinated polymers. 2,940,947, 6-14-60, Cl. 260-29.1.
- Welch, William F. Camera holding means. 2,952,200, 9-13-60, Cl. 95-86.
- Welcher, Richard P., to American Cyanamid Co. Novel oxamimidate hydrohalides and method for preparing same. 2,931,821, 4-5-60, Cl. 260-453.
- Welcher, Richard P., to American Cyanamid Co. Preparation of monothiooxamides. 2,932,667, 4-12-60, Cl. 260-561.
- Welcher, Richard P., to American Cyanamid Co. Dimethyloloxamide. 2,953,599, 9-20-60, Cl. 260-561.
- Welches, Loren A. Disposal unit. 2,955,767, 10-11-60, Cl. 241-46.
- Welchon, James K., to Phillips Petroleum Co. Regulation of compressor cylinder capacity. 2,964,235, 12-13-60, Cl. 230-25.
- Welck, Arnold E.: *See—*  
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- Welco Mfg. Co., Inc.: *See—*  
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- Welcome, Warren W., to Land-Air, Inc. Sweep generating circuits for cathode ray oscillographs. 2,928,040, 3-8-60, Cl. 324-16.
- Welcome, Warren W., to Land-Air, Inc. Sweep generators for cathode ray oscillographs. 2,948,857, 8-9-60, Cl. 328-185.
- Welcraft Products Co., Inc.: *See—*  
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- Welden, Robert B.: *See—*  
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- Welding Engineers, Inc.: *See—*  
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Huddleston, Richard H., Jr. 2,928,039.  
McMahan, Durward B. 2,927,377.  
Mohaupt, Henry H. 2,947,250.  
Robertson, John J. 2,924,173.  
Smith, Orville R. 2,922,103.
- Welfers, Egidius, to American Enka Corp. Production of shaped objects from viscose. 2,940,818, 6-14-60, Cl. 18-54.
- Welfers, Egidius, to American Enka Corp. Production of shaped objects from viscose. 2,953,426, 9-20-60, Cl. 18-54.
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- Welin-Maclachlan Davits Ltd.: *See—*  
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- Welindt, Theodore O., to A. O. Smith Corp. Die structure for tangent bending of corrugated sheet metal. 2,944,583, 7-12-60, Cl. 153-46.
- Welindt, Theodore O., to A. O. Smith Corp. Die construction for forming corrugated sheets. 2,948,325, 8-9-60, Cl. 153-76.
- Velinsky, Irving H., to Consolidation Coal Co. Fluidized carbonization process for agglomerative coals. 2,955,077, 10-4-60, Cl. 202-14.
- Welker, Harry E., to General Motors Corp. Endless buffing and polishing belt. 2,924,916, 2-16-60, Cl. 51-188.
- Welker, Heinrich, O. Folberth, R. Gremmelmaier, and R. Grimm, to Siemens-Schuckertwerke Aktiengesellschaft. Method of melting compounds without decomposition. 2,933,384, 4-19-60, Cl. 75-65.
- Welker, Heinrich, E. Weisshaar, and F. Pfister, to Siemens-Schuckertwerke Aktiengesellschaft. Controllable semiconductor devices. 2,936,373, 5-10-60, Cl. 250-83.3.
- Welkowitz, Walter, to Gulton Industries, Inc. Ultrasonic flowmeter. 2,923,55, 2-2-60, Cl. 73-194.
- Welkowitz, Walter, to Gulton Industries, Inc. Ultrasonic flowmeter. 2,959,054, 11-8-60, Cl. 73-194.
- Welkowitz, Walter, to Gulton Industries, Inc. Humidity measuring system. 2,959,959, 11-15-60, Cl. 73-336.5.
- Welkowitz, Walter, R. D. McGunigle, and L. J. Palush, to Gulton Industries, Inc. Supporting structure for piezo-electric transducer. 2,937,292, 5-17-60, Cl. 310-9.4.
- Well Surveys, Inc.: *See—*  
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- Wellborn, William W., to Firth Sterling, Inc. Carbide metal. 2,942,335, 6-28-60, Cl. 29-182.7.
- Wellborn, William W., to Firth Sterling, Inc. Process of making cemented carbide products. 2,942,971, 6-28-60, Cl. 75-203.
- Wellensiek, Gert, to Rekuperator K.-G. Dr. Ing. Schack & Co. Rekuperator. 2,942,855, 6-28-60, Cl. 257-222.
- Weller, Alan F.: *See—*  
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- Weller, Carl E. Electric soldering iron. 2,951,927, 9-6-60, Cl. 219-26.
- Weller, Charles E., to Shell Oil Co. Power supply. 2,952,814, 9-13-60, Cl. 330-1.
- Weller, David C.: *See—*  
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- Weller, David C., to Bell Telephone Laboratories, Inc. Carrier telephone systems with carrier-shift signaling. 2,927,966, 3-8-60, Cl. 179-15.
- Weller, Edward F.: *See—*  
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- Weller, Edward F., and A. S. Lecky, to General Motors Corp. Engine indicator apparatus. 2,919,576, 1-5-60, Cl. 73-115.
- Weller, Edward F., Jr., to General Motors Corp. Automatic engine indicator plotter. 2,962,892, 12-6-60, Cl. 73-116.
- Weller, Robert A., and H. T. Finch, to The Birtcher Corp. Instrument for measuring radiation pressure from a sound transmitter. 2,939,542, 6-7-60, Cl. 181-5.
- Weller, Robert Y. Typewriter check protector. 2,922,506, 1-26-60, Cl. 197-6.
- Weller, Sol W.: *See—*  
Hindin, Saul G., and Weller. 2,941,960.  
Kirsch, Francis W., and Weller. 2,964,579.
- Welling, Alvin F. Quick change hitch for agricultural implements. 2,954,240, 9-27-60, Cl. 280-462.
- Wellington, Cary L., to The Condenser Machinery Corp. Method of and device for aging capacitors. 2,923,051, 2-2-60, Cl. 29-25.31.
- Wellington, Cary L., to The Condenser Machinery Corp. Die set. 2,927,548, 3-8-60, Cl. 113-1.
- Wellington, Cary L., to The Condenser Machinery Corp. Method of increasing capacitance. 2,934,811, 5-8-60, Cl. 29-25.42.
- Wellington, Cary L., to The Condenser Machinery Corp. Method for making electrolytic condensers. 2,946,727, 7-26-60, Cl. 204-28.
- Wellington, Cary L., to The Condenser Machinery Corp. Tapping machine. 2,947,272, 8-2-60, Cl. 113-1.
- Welliver, Lawrence G., to General Aniline & Film Corp. Stabilization of photographic bleach powders containing an alkali metal ferricyanide. 2,943,935, 7-5-60, Cl. 96-60.
- Well Logging Equipment Mfg. Co.: *See—*  
Dower, Ethell J. 2,959,735.
- Wellman, Donald C., to Carrier Corp. Refrigeration system. 2,933,904, 4-26-60, Cl. 62-305.
- Wellman Engineering Co., The: *See—*  
Preston, Martin. 2,925,923.
- Wellman, Francis C., to Sperry Rand Corp. Phase modulation or detection circuit. 2,937,342, 5-17-60, Cl. 332-16.
- Wellman, John W.: *See—*  
Caldwell, John R., and Wellman. 2,921,052.  
Caldwell, John R., and Wellman. 2,925,404.
- Wellman, Maynard C., to Sylvania Electric Products Inc. Film cassette assembly. 2,951,656, 9-6-60, Cl. 242-71.1.
- Wellman, S. K., Co., The: *See—*  
Biggs, Robert W. 2,946,369.  
Wellman, Samuel K. 2,927,015.
- Wellman, Samuel K., to The S. K. Wellman Co. Method of producing low density iron powder. 2,927,015, 3-1-60, Cl. 75-5.
- Wells, A., & Co. Ltd.: *See—*  
Wells, Alfred W. J. 2,924,419.
- Wells, Alfred W. J., ½ to United-Carr Fastener Corp., and ½ to A. Wells & Co. Ltd. Anti-vibration mounting device. 2,924,419, 2-9-60, Cl. 248-358.
- Wells, Alton R. Dual calibration thermostat. 2,925,483, 2-16-60, Cl. 200-138.
- Wells, Alton R. Probe type thermostat. 2,925,599, 2-16-60, Cl. 200-138.
- Wells, Alton R. Dual calibration thermostat (hot casing). 2,951,136, 8-30-60, Cl. 200-113.
- Wells, Archibald H.: *See—*  
Underhay, George F., Franklin, and Wells. 2,919,495.
- Wells, Arthur M., to Achuff Railway Supply Co. Rail anchors. 2,933,258, 4-19-60, Cl. 238-327.
- Wells, Fay F. Cushion table. 2,942,649, 6-28-60, Cl. 155-43.



- Wells, Frank L.: See—  
Kozak, John W. 2,930,413.
- Wells, Harry C., to Seaview Industries, Inc. Adjustable pitch awning. 2,953,825, 9-27-60, Cl. 20—57.5.
- Wells, Joel B., deceased; R. W. Wilby, executor. Shoe support. 2,965,237, 12-20-60, Cl. 211—35.
- Wells, John R.: See—  
Elms, Edwin E., Saunders, and Wells. 2,941,768.
- Wells, Louis E., to Dumas Milner Corp. Protection of plants against frost damage. 2,961,798, 11-29-60, Cl. 47—2.
- Wells Mfg. Co.: See—  
Wells, Milton K., and Wick. 2,940,142.
- Wells, Martin. Connector for stranded electrical cables. 2,935,551, 5-3-60, Cl. 174—90.
- Wells, Martin. Light weight heavy duty welding rod holder. 2,946,878, 7-26-60, Cl. 219—138.
- Wells, Milton K., and W. C. Wick, to Wells Mfg. Co. Mold assembly. 2,940,142, 6-14-60, Cl. 22—130.
- Wells, N. H. Flush tank valve. 2,919,447, 1-5-60, Cl. 4—57.
- Wells, Preston A., Jr. Catalyst regeneration. 2,947,707, 8-2-60, Cl. 252—419.
- Wells, Robert C.: See—  
Clancy, John J., Poole, and Wells. 2,961,334.  
Hodgson, George T., Jr., and Wells. 2,948,191.  
Mignone, Albert E., and Wells. 2,935,369.
- Wells, Roger, to Diamond National Corp. Pulp molding. 2,920,700, 1-12-60, Cl. 162—392.
- Wells, Roger, to Diamond National Corp. Pulp molding. 2,920,702, 1-12-60, Cl. 162—411.
- Wells, Roger, to Diamond National Corp. Drying die. 2,923,068, 2-2-60, Cl. 34—104.
- Wells, Roger, to Diamond National Corp. Metal sandwich mold. 2,923,333, 2-2-60, Cl. 162—411.
- Wells, Roger, to Diamond National Corp. Drying apparatus. 2,941,655, 6-21-60, Cl. 198—131.
- Wells, Roger, to Diamond National Corp. Packaging. 2,948,094, 8-9-60, Cl. 53—37.
- Wells, Sheldon E.: See—  
McMullen, James W., and Wells. 2,925,003.
- Wells, Wallace S., to General Mills, Inc. Synchronizing tactor apparatus. 2,929,974, 3-22-60, Cl. 318—46.
- Wells, William H. Material loading machine. 2,964,158, 12-13-60, Cl. 198—7.
- Wells, Willis L.: See—  
Packwood, George H., and Wells. 2,924,358.
- Wells, Willis L., to American Machine & Foundry Co. Bowling pin setting machine. 2,944,818, 7-12-60, Cl. 273—43.
- Wellworthy Ltd.: See—  
Howlett, John W., and Blacklock. 2,925,296.
- Welsh, Charles B., to Gulf Oil Corp. Mixed metal salts of organic thiophosphates and process for preparing the same. 2,944,972, 7-12-60, Cl. 252—32.7.
- Welsh, Charles J.: See—  
Dhondt, Roland O., Welsh, and Gahremani. 2,954,329.  
Hines, John E., Jr., and Welsh. 2,958,571.
- Welsh, Harvey W., to General Motors Corp. Rotor blade shrouding. 2,963,272, 12-6-60, Cl. 253—77.
- Welsh, Herbert F.: See—  
Sims, John C., Jr., and Welsh. 2,928,596.
- Welsh, Herbert F., to Sperry Rand Corp. Pneumatic poppet valve. 2,920,651, 1-12-60, Cl. 137—625.25.
- Welsh, Jay Y., to Manganese Chemicals Corp. Process for producing manganese dioxide. 2,956,860, 10-18-60, Cl. 23—145.
- Welsh, Linnie J. Jet turbines. 2,927,426, 3-8-60, Cl. 60—39.35.
- Welsh Mfg. Co.: See—  
Lindblom, Frank W. 2,923,944.  
Lindblom, Frank W. 2,932,066.  
Lindblom, Frank W. 2,946,258.  
Silverman, Leslie. 2,964,038.
- Welsh, Matilda D. Baby chair-bed. 2,928,457, 3-15-60, Cl. 155—45.
- Welsh, Oral S., to Brown Flintube Co. Tube with internal fins and method of making same. 2,930,405, 3-29-60, Cl. 138—38.
- Welsh, Richard F., Jr., to E. I. du Pont de Nemours and Co. Box with manually-releasable latch mechanism. 2,925,212, 2-16-60, Cl. 229—36.
- Welsh, Warren A., to Western Electric Co., Inc. Statistical data accumulator. 2,951,235, 8-30-60, Cl. 340—172.5.
- Welte, Benedict: See—  
Gotberg, Harry H., and Welte. 2,925,019.
- Welter, George L., to Tote-Cart Co. Display bin supporting shelf. 2,936,905, 5-17-60, Cl. 211—153.
- Weltman, Harry H., 50% to L. J. Kerpelman. Refuse receptacle. 2,953,277, 9-20-60, Cl. 220—55.
- Weltmer, Wilton W., to Allis-Chalmers Mfg. Co. Baffle structure for tanks. 2,946,345, 7-26-60, Cl. 137—590.
- Welton, Donald E., to E. I. du Pont de Nemours and Co. Ion exchange for the recovery of chemicals. 2,965,441, 12-20-60, Cl. 23—79.
- Welts, Jeremy: See—  
Berly, Edward M., and Welts. 2,925,881.
- Welty, Albert B., Jr., to Esso Research and Engineering Co. Fluid hydroforming process and apparatus. 2,959,537, 11-8-60, Cl. 208—164.
- Welty, Lloyd G., and J. N. Hinkson, to Rock Fabricates and Mining Corp. Fabrication of composite surfaces and structures. 2,925,831, 2-23-60, Cl. 138—80.
- Welty, William R., to Hughes Aircraft Co. Pulse modulator. 2,942,191, 6-21-60, Cl. 328—67.
- Weltyk, Stephan, to Chrysler Corp. Vehicle brake. 2,933,357, 4-19-60, Cl. 309—20.
- Welwyn Canada Ltd.: See—  
France, George. 2,949,577.
- Welwyn Electrical Laboratories Ltd.: See—  
Cianchi, Alfredo L. G. 2,956,219.  
Deardon, Jack. 2,920,005.
- Welz, Alfred, to Filtrox-Werke AG. Apparatus for filtering liquids, particularly for use in the beverage industry. 2,946,447, 7-26-60, Cl. 210—333.
- Wenck, Peter R.: See—  
Goldsmith, Louis, Murtaugh, Wenck, and Ward 2,926,122.
- Wencker, Russell E., to Olin Mathieson Chemical Corp. Projectile fuze. 2,938,462, 5-31-60, Cl. 102—71.
- Wendel, George M. Blocked furniture. 2,960,152, 11-15-60, Cl. 155—191.
- Wendel, Harry L.: See—  
Sloan, Earl L., Olbrich, Mustard, Gillum, and Wendel. 2,929,397.
- Wendela, Hugo H.: See—  
Slone, Howard I., and Wendela. 2,938,697.
- Wendelken, Gerard J., to Waltham Precision Instrument Co., Inc. High intensity electrical radiation or multi-element image furnace. 2,927,187, 3-1-60, Cl. 219—34.
- Wender, Neil: See—  
Herpich, William A., and Wender. 2,923,424.
- Wendl, George D., and S. Siracki. Scaffold. 2,957,670, 10-25-60, Cl. 248—216.
- Wendland, Ray T., to Gulf Research & Development Co. Process for removing elemental sulfur with hydrazine. 2,930,750, 3-29-60, Cl. 208—236.
- Wendlandt, Hans G., and L. Henrich, to Spinnfaser Aktiengesellschaft. Reactivation of activated carbon used to purify waste air. 2,961,413, 11-22-60, Cl. 252—414.
- Wendlandt, Ronald A., to The Heekin Can Co. Can opening receptacle handle. 2,933,807, 4-26-60, Cl. 30—10.
- Wendlandt, Ronald A., to The Heekin Can Co. Wall mounted bottle opener. 2,933,957, 4-26-60, Cl. 81—3.3.
- Wendler, Norman L.: See—  
Graber, Robert P., and Wendler. 2,952,692.  
Taub, David, Hoffsommer, and Wendler. 2,935,511.  
Taub, David, Hoffsommer, and Wendler. 2,958,702.  
Taub, David, and Wendler. 2,942,012.  
Taub, David, and Wendler. 2,966,504.  
Taub, David, Wendler, and Snoddy. 2,942,010.
- Wendler, Norman L., to Merck & Co., Inc. Process for the production of 16-substituted-3a-acetoxy-17a-hydroxy-11,20-pregnandione. 2,950,297, 8-23-60, Cl. 260—397.45.
- Wendling, Herbert M.: See—  
Becker, William A., and Wendling. 2,949,985.
- Wendrow, Bernard, and R. F. Labory, to Union Oil Co. of California. Vapor sealed liquid carriers. 2,928,436, 3-15-60, Cl. 141—105.
- Wendt, Gerhard R., to American Home Products Corp. N-propylamide derivatives. 2,922,789, 1-26-60, Cl. 260—270.
- Wendt, Harry C., and C. A. Haskell, to General Electric Co. Accelerometers. 2,946,226, 7-26-60, Cl. 73—517.
- Wendt, Hermann, to Clark Equipment Co. Method and means for employing industrial trucks. 2,945,610, 7-19-60, Cl. 214—730.
- Wendt, Karl R., and W. K. Squires, 40% to W. K. Squires and K. R. Wendt, and 20% to A. C. Bellanca. Electronic timing apparatus. 2,931,217, 4-5-60, Cl. 73—6.
- Wendt, Raymond J. Control devices for motor vehicles. 2,953,036, 9-20-60, Cl. 74—484.
- Wendt, Richard E., Jr.: See—  
Sauter, Donald M., and Wendt. 2,933,614.
- Wendt, Robert H. Methods of making neckties. 2,930,045, 3-29-60, Cl. 2—146.
- Wendt, Robert L.: See—  
Wing, Willis G., Garbarini, Wendt, and Rawitz. 2,936,627.
- Wengel, Sheldon M. Display motors. 2,922,901, 1-26-60, Cl. 310—21.
- Wenger, Harry J. Combination chair and stand for musical instruments. 2,934,131, 4-26-60, Cl. 155—2.
- Wenger, Harry J. Vertically adjustable standard for music racks. 2,947,556, 8-2-60, Cl. 287—58.
- Wenger, Harvey M., to Terre Hill Machine Co. Conveyor for cleaning poultry pits. 2,920,753, 1-12-60, Cl. 198—224.
- Wenger, William V.: See—  
Bleikamp, Donald K., Wenger, and Paulis. 2,933,806.
- Wengerd, Robert L.: See—  
Zieber, Harold C., Brown, and Wengerd. 2,953,876.
- Wengrynn, Michael, to Kollsman Instrument Corp. Saturable oscillator frequency control. 2,959,744, 11-8-60, Cl. 331—113.
- Wenig, Max. 25% to H. Gorelick, 25% to I. Schneider, and 25% to E. Klein. Application of metal leaf. 2,958,149, 11-1-60, Cl. 41—37.
- Weniger, Willibald: See—  
Bump, Wilson, and Weniger. 2,921,444.
- Wenis, Edward: See—  
Gardner, Thomas S., Lee, and Wenis. 2,957,882.  
Gardner, Thomas S., Lee, and Wenis. 2,965,646.  
Gardner, Thomas S., Lee, Wenis, and Wenner. 2,923,714.
- Wenking, Hans, to C. Zeiss. Photo electric polarimeter. 2,933,972, 4-26-60, Cl. 88—14.
- Wen-Mac Corp.: See—  
McRoskey, John W. 2,946,327.



- Wennberg, Olov C. G., to General Engineering Co., A.B. Means for producing filter layers on filter bands. 2,963,160, 12-6-60, Cl. 210-193.
- Wenneker, Gerard P., to Bell Telephone Laboratories, Inc. Automatic telephone system. 2,957,047, 10-18-60, Cl. 179-18.
- Wenner, Arnulf C., to Paul Garthe, K.G. Spring lock. 2,957,720, 10-25-60, Cl. 292-169.
- Wenner, Charles B., and A. D. Russo, to Airkem, Inc. Dispensing device for multiple cylindrical slugs of air treating gel. 2,923,479, 2-2-60, Cl. 239-57.
- Wenner, Charles B., and A. Dello Russo, to Airkem, Inc. Dispensing device for multiple cylindrical slugs of air treating gel. 2,942,786, 6-28-60, Cl. 239-35.
- Wenner, Lee B., to Westinghouse Electric Corp. Flow control device. 2,929,394, 3-22-60, Cl. 137-107.
- Wenner, Wilhelm: *See—*
- Gardner, Thomas S., Lee, Wenis, and Wenner. 2,923,714.
- Wennerberg, Arnold N., to Standard Oil Co. Electrical purification apparatus. 2,929,770, 3-22-60, Cl. 204-308.
- Wennerberg, August: *See—*
- Frankenfeld, Bruce E., and Wennerberg. 2,956,453.
- Wennerberg, August, to Western Electric Co., Inc. Broken drill detector. 2,920,508, 1-12-60, Cl. 77-22.
- Wennerbo, Erik, to Industriaktiebolaget Luxor. Phonograph stylus indexing mechanism. 2,936,180, 5-10-60, Cl. 274-15.
- Wennerbo, Erik, and G. Hedberg, to Industriaktiebolaget Luxor. Tone arm locking device. 2,944,824, 7-12-60, Cl. 274-1.
- Wennerstrom, Arthur N., to The National Screw & Mfg. Co. Pointer and scale indicator. 2,932,274, 4-12-60, Cl. 116-124.1.
- Wennes, Stephen B.: *See—*
- Dulebohn, David H., Turnquist, and Wennes. 2,927,190.
- Wenninger, Clifford E., to Pettibone Mulliken Corp. Apparatus for cleaning foundry sand and the like. 2,939,189, 6-7-60, Cl. 22-89.
- Wenrich, Carl M.: *See—*
- Frankel, Samuel R., Hunt, Haas, and Wenrich. 2,958,302.
- Frankel, Samuel R., Hunt, Haas, and Wenrich. 2,961,591.
- Wensel, Philip D., to J. I. Case Co. Tractor mounted cultivator. 2,966,220, 12-27-60, Cl. 172-307.
- Wensloff, Allen. Chain saw. 2,955,628, 10-11-60, Cl. 143-32.
- Wensloff, Allen. Power take-off for electric hand drills. 2,963,913, 12-13-60, Cl. 74-15.6.
- Wente, Robert J.: *See—*
- Boyer, Floyd J., Harding, Irwin, McDowall, and Wente. 2,938,340.
- Wentink, Henricus: *See—*
- Eggink, Anton, Wentink, and Stambuis. 2,959,197.
- Wentis, George W.: *See—*
- Dennison, Frederick R., Olson, and Wentis. 2,946,577.
- Wentorf, Robert H., Jr.: *See—*
- Hall, Howard T., Strong, and Wentorf. 2,947,610.
- Wentorf, Robert H., Jr., to General Electric Co. High temperature high pressure apparatus. 2,941,244, 6-21-60, Cl. 18-16.5.
- Wentorf, Robert H., Jr., to General Electric Co. Method of making garnet. 2,941,861, 6-21-60, Cl. 23-110.
- Wentorf, Robert H., Jr., to General Electric Co. High pressure high temperature apparatus. 2,947,034, 8-2-60, Cl. 18-34.
- Wentorf, Robert H., Jr., to General Electric Co. Abrasive material and preparation thereof. 2,947,617, 8-2-60, Cl. 51-307.
- Wents, Cecil W.: *See—*
- Baker, Reuben C., Ragan, and Wents. 2,944,603.
- Wentzel, Robert J. Butter ruler. 2,948,064, 8-9-60, Cl. 31-15.
- Wentworth, John W.: *See—*
- Bernard, Francois R. C., and Wentworth. 2,924,647.
- Wentworth, Joseph T., to General Motors Corp. Fuel shut-off mechanism. 2,926,892, 3-1-60, Cl. 261-34.
- Wentworth, Karl T., to American Viscose Corp. Tire cord fiber lubricant. 2,964,470, 12-13-60, Cl. 252-8.8.
- Wentz, Alan W. Electrical window operator unit. 2,921,783, 1-19-60, Cl. 268-124.
- Wenz, Herbert, and H. Berg, to G. M. Pfaff, A.-G. Device for adjusting the tension of the upper thread of sewing machines. 2,957,645, 10-25-60, Cl. 242-150.
- Wenzel, Frederick A., to Cornell Paperboard Products Co. Snap top cardboard box. 2,951,627, 9-6-60, Cl. 229-44.
- Wenzel, Philip D., to J. I. Case Co. Reversible disc plow. 2,949,969, 8-23-60, Cl. 172-222.
- Wenzl, Josef, to W. Jordan. Apparatus for vacuum-drying temperature-sensitive goods. 2,952,922, 9-20-60, Cl. 34-92.
- Werber, Frank X.: *See—*
- Averill, Seward J., and Werber. 2,935,536.
- Werber, Frank X., and F. A. Mirabile, to W. R. Grace & Co. Higher aluminum alkyls and products therefrom. 2,959,607, 11-8-60, Cl. 260-448.
- Werdier, Erick: *See—*
- Hanson, Glen N., and Werdier. 2,948,098.
- Werkspoor N.V.: *See—*
- Boon, Edmund F., Vahl, and Kingma. 2,946,706.
- Werkzeugmaschinenfabrik Oerlikon Buhrle & Co., Abt., Elek-trodenfabrik: *See—*
- Bohler, Max. 2,949,286.
- Fohr, Matthias. 2,947,653.
- Werle, Donald K.: *See—*
- Schossberger, Frederick V., Werle, and Michalchik. 2,939,804.
- Werle, Donald K., and M. Michalchik, to UARCO Inc. Pressure sensitive recording material and method of making same. 2,939,802, 6-7-60, Cl. 117-36.
- Werme, John V.: *See—*
- Newbold, William F., and Werme. 2,937,369.
- Wermine, Hugo H., to Belden Mfg. Co. Air insulated electrical cable. 2,927,952, 3-8-60, Cl. 174-27.
- Werndl, Ernst F.: *See—*
- Fischer, Franz L., and Werndl. 2,963,285.
- Werner, Arthur G., and F. M. Belt dressing and preservative compositions. 2,953,465, 9-20-60, Cl. 106-36.
- Werner, Byron H.: *See—*
- Reid, Robert J., and Werner. 2,947,338.
- Reid, Robert J., and Werner. 2,956,041.
- Werner, Byron H., and R. J. Reid, to The Firestone Tire & Rubber Co. Process of curing a rubbery copolymer of a conjugated diene and a carboxylic acid or anhydride with dicyandiamide, and cured product obtained thereby. 2,947,733, 8-2-60, Cl. 260-82.1.
- Werner, Ewald, to Nordberg Mfg. Co. Pneumatic release recharging means. 2,925,959, 2-23-60, Cl. 241-207.
- Werner, Florence M.: *See—*
- Werner, Arthur G., and F. M. 2,953,465.
- Werner, Frank D., R. E. Keppel, and M. A. Bernards, to United States of America, Air Force. Gas temperature probe. 2,931,227, 4-5-60, Cl. 73-349.
- Werner, Frank R.: *See—*
- Jackson, John M., and Werner. 2,954,158.
- Werner, Frank R., R. C. Schwinn, and W. G. Sterzer, to The National Cash Register Co. Slip printing mechanism for cash registers and accounting machines. 2,923,234, 2-2-60, Cl. 101-274.
- Werner, Frank R., and L. E. Zurbuchen, to The National Cash Register Co. Repeat mechanism for cash registers and accounting machines. 2,941,714, 6-21-60, Cl. 235-6.
- Werner, Frank R., and K. C. Flint, to The National Cash Register Co. Totalizer and special counter equipment for cash registers. 2,962,209, 11-29-60, Cl. 235-6.
- Werner, Friedrich, to Askania-Werke A.G. Precision means for measurement of angles. 2,938,270, 5-31-60, Cl. 33-1.
- Werner, Friedrich, to Askania-Werke A.G. Means for examination of graduated circles. 2,961,917, 11-29-60, Cl. 88-14.
- Werner, Georg, to Siemens & Halske Aktiengesellschaft. Water- and pressure-resistant lead-in for coaxial submarine communication cable. 2,938,067, 5-24-60, Cl. 174-70.
- Werner, Georg, to Siemens & Halske Aktiengesellschaft Berlin and Munich. Plug-in cable connector. 2,962,688, 11-29-60, Cl. 339-89.
- Werner, Gunter: *See—*
- Muller, Willy, Grandjot, Osterloh, Werner, and Dulze. 2,942,876.
- Werner, Günther, to Hanseatische Motoren-Gesellschaft M.b.H. Cross winding apparatus for textile drawing frames. 2,964,898, 12-20-60, Cl. 57-34.
- Werner, Harry C. Time limit switch. 2,920,152, 1-5-60, Cl. 200-27.
- Werner, Herbert J., to Baldwin-Lima-Hamilton Corp. Press platen actuating means. 2,966,183, 12-27-60, Cl. 144-281.
- Werner, Jesse: *See—*
- Steckler, Robert, and Werner. 2,939,856.
- Werner, Jesse, to General Aniline & Film Corp. Alcoholic polyvinylimidazole aerosol hair preparation. 2,953,498, 9-20-60, Cl. 167-87.1.
- Werner, Jesse, and F. A. Hessel, to General Aniline & Film Corp. Process of reacting mono- and di-saccharides with various reagents in the presence of *n*-butyrolactone. 2,938,898, 5-31-60, Cl. 260-209.
- Werner, Johannes. Device for influencing the current above the top of a motor vehicle. 2,964,352, 12-13-60, Cl. 296-91.
- Werner, John, to Schofield Mfg. Co. Retractable package carrier for automobile trunks. 2,953,287, 9-20-60, Cl. 224-42.44.
- Werner, Leo C.: *See—*
- Melster, George, Monahan, and Werner. 2,963,611.
- Werner, Lincoln H., to Ciba Pharmaceutical Products, Inc. Derivatives of piperazine. 2,953,568, 9-20-60, Cl. 260-268.
- Werner, Lincoln H., to Ciba Pharmaceutical Products, Inc. 1,5 benzodiazepin-4-ones and process of producing same. 2,957,867, 10-25-60, Cl. 260-239.
- Werner, Louis F.: *See—*
- Stein, Max, and Werner. 2,928,340.
- Werner, Othmar: *See—*
- Jaepelt, Alfred, Dietrich, and Werner. 2,924,556.
- Werner, Otto E., and R. J. Mueller, to Automatic Canteen Co. of America, Inc. Infusion devices. 2,926,594, 3-1-60, Cl. 99-295.
- Werner, R. D., Co., Inc.: *See—*
- Grover, Charles F., and Werner. 2,941,616.
- Werner, Richard: *See—*
- Klepp, Fritz, and Werner. 2,937,084.
- Werner, Richard L.: *See—*
- Grover, Charles F., and Werner. 2,941,616.
- Werner, Siegmund, to Deeco Inc. Playpen. 2,922,169, 1-26-60, Cl. 5-98.



- Werner, Tage, to Arthur G. McKee & Co. Method of supplying material to a bin or the like. 2,959,308, 11-8-60, Cl. 214-152.
- Werner, Tyrrell H., W. H. Marra, and W. B. Gilman, to S. D. Warren Co. Mineral filled paper. 2,949,397, 8-16-60, Cl. 162-178.
- Werner, Waldeemar, to Ford Motor Co. Gasket for engine parts. 2,964,030, 12-13-60, Cl. 123-193.
- Werner, Willy W.: See—  
Dorfel, Paul. 2,937,679.
- Wernheim, Sven O., to Firma Licentia Ekman & Brundin. Method for obtaining a complete, smokeless combustion of solid fuels, and a fireplace for this purpose. 2,965,052, 12-20-60, Cl. 110-31.
- Wernicke & Co. K.G.: See—  
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- Wernig, James H.: See—  
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- Wernig, James H., to General Motors Corp. Self-draining weather strip for vehicle closure. 2,922,675, 1-26-60, Cl. 296-93.
- Wernig, James H., to General Motors Corp. Vehicle body door upper frame section. 2,941,838, 6-21-60, Cl. 296-44.
- Wernlund, Christian J., to E. I. du Pont de Nemours and Co. Zinc plating. 2,928,800, 3-15-60, Cl. 260-29.6.
- Wernlund, Christian J., to E. I. du Pont de Nemours and Co. Electrodeposition of molybdenum. 2,943,029, 6-28-60, Cl. 204-14.
- Wernlund, Roger F., to Robertshaw-Fulton Controls Co. Force to direct current transducer. 2,939,122, 5-31-60, Cl. 340-187.
- Werntz, James H.: See—  
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- Wersal, Adrian A.: See—  
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- Wershaw, Irving B., to Dome Chemicals, Inc. Buccal tablet containing vitamin. 2,949,401, 8-16-60, Cl. 167-31.
- Werstein, Frank A., to Phillips Drill Co. Chuck and handle for manual installation of self-drilling expansion shells. 2,926,353, 3-1-60, Cl. 1-49.8.
- Werstein, Frank A., to Phillips Drill Co. Handle for percussive drill. 2,936,736, 5-17-60, Cl. 121-36.
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- Wertepny, Rudolph J., Sr., and B. G. McAteer, to J. Wiss & Sons Co. Grass shears. 2,958,944, 11-8-60, Cl. 30-248.
- Werth, Carl H., to Hoern & Dilts Division of The Britain Machine Co. Grinding apparatus. 2,962,840, 12-6-60, Cl. 51-50.
- Werth, Carl H., to Hoern & Dilts, Inc. Grinding machines. 2,963,829, 12-12-60, Cl. 51-30.
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- Wertheim, John H., to Research Corp. Radiation sterilization of fluid food products. 2,962,380, 11-29-60, Cl. 99-217.
- Wertheimer, Kurt. Pillow or cushion. 2,944,266, 7-12-60, Cl. 5-341.
- Wertheimer, Milton A., to Gellman Mfg. Co. Package wrapping table. 2,921,424, 1-19-60, Cl. 53-219.
- Wertheimer, Robert, to S. T. Wertheimer. Detergent-solution dispensing container. 2,920,417, 1-12-60, Cl. 45-23.
- Wertheimer, Sylvia T.: See—  
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- Wertman, Richard C., to International Telephone and Telegraph Corp. Traveling-wave electron discharge device. 2,934,674, 4-26-60, Cl. 315-39.3.
- Werts, Wayne E., to Bendix Aviation Corp. Flow control apparatus. 2,927,425, 3-8-60, Cl. 60-39.28.
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- Wesche, B. A., Electric Co., The: See—  
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- Wesche, George W. Automatic shut off dispensing nozzle. 2,931,400, 4-5-60, Cl. 141-209.
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- Wesp, George L.: See—  
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- Wesp, George L., to Monsanto Chemical Co. Polythiurea and polysulfide co-cured resins. 2,957,845, 10-25-60, Cl. 260-42.
- Wesp, George L., to Monsanto Chemical Co. Polythiurea and phenolic-aldehyde co-cured resins. 2,957,846, 10-25-60, Cl. 260-43.
- Wessel, Hans. Cleansing appliances for use in polishing, scrubbing or waxing floors and like structures. 2,926,370, 3-1-60, Cl. 15-49.
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- Wesson, Guy W.: See—  
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- West, James R.: See—  
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- West, John M.: See—  
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- West, Maxwell G. Method of and means for producing a corona discharge. 2,965,755, 12-20-60, Cl. 250-49.5.
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- West, Paul B., to Saco-Lowell Shops. Clearers. 2,951,268, 9-6-60, Cl. 19-140.
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- Westberg, Vernon C., and W. W. Thomas, to Sun Electric Corp. Internal combustion engine ignition system testing apparatus. 2,926,301, 2-23-60, Cl. 324-16.
- Westbrook, Leon R. Acid copper plating. 2,931,760, 4-5-60, Cl. 204-52.
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- Westcott, William B., Jr., to Cleveland Pneumatic Industries, Inc. Liquid spring accumulator. 2,943,642, 7-5-60, Cl. 138-31.
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- Westcott, William B., Jr., to Cleveland Pneumatic Industries, Inc. Aircraft landing gear. 2,960,289, 11-15-60, Cl. 244-104.
- Westcott, William B., Jr., to Cleveland Pneumatic Industries, Inc. Liquid cycle heat engine. 2,963,853, 12-13-60, Cl. 60-23.
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- Westerheim, Harold T.,  $\frac{1}{2}$  to F. M. Poole, and  $\frac{1}{2}$  to C. Casey. Leakage determining apparatus. 2,924,965, 2-16-60, Cl. 73-40.
- Westerheim, Harold T.,  $\frac{1}{2}$  to F. M. Poole, and  $\frac{1}{2}$  to C. Casey. Densimeter. 2,956,431, 10-18-60, Cl. 73-32.
- Westerhof, Pieter, to North American Philips Co., Inc. Method of reducing an unsaturated compound with an alkaline or alkaline-earth metal in liquid ammonia. 2,932,654, 4-12-60, Cl. 260-397.2.
- Westerhof, Pieter, to North American Philips Co., Inc. Method of reducing unsaturated compounds with an alkaline or alkaline-earth metal in liquid ammonia. 2,942,009, 6-21-60, Cl. 260-397.2.
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 Stalhuth, William E. 2,930,536.  
 Stem, Eugene C. 2,946,529.  
 Stetzler, Grant F. 2,934,705.  
 Sundstrom, John F. 2,963,961.  
 Swanson, Nils H. 2,960,121.  
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 Thayer, Harry C., Jr. 2,933,412.  
 Thoma, Leonard A. 2,959,110.  
 Todoroff, Alexander N. 2,935,172.  
 Tulloss, Joseph C. 2,920,364.  
 Van Nest, Arden L., and Wallberg. 2,934,816.  
 Vavrinek, Frank B. 2,928,296.  
 Veale, Charles C. 2,928,930.  
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 Werth, Joseph R. 2,935,098.  
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Western Follower Corp.: *See*—

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Western Gear Corp.: *See*—

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Western Machinery Co.: *See*—

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Western Progress Mfg.: *See*—

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Western Tool and Stamping Co.: *See*—

Wood, George I., Jr., and Egley. 2,963,103.

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Boughtwood, John E., Boggs, and Christie. 2,929,875.

Buckingham, William D., Ridge, Root, and Turner. 2,938,721.

Cannon, William D. 2,966,633.

Hartle, Cloyd U., and Moore. 2,952,930.

Hewitt, Ernest W. 2,935,563.

Jones, Kenneth R. 2,923,892.

Light, George G. 2,929,864.

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Wilder, Harold F., and Fontaine. 2,966,546.

Wilder, Harold F., and Krantz. 2,963,550.

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Zabriskie, Douglas M., and O'Brien. 2,961,287.

Westfahl, Jerome C., to The B. F. Goodrich Co. Organo-metallic compounds and method for their preparation. 2,953,588, 9-20-60, Cl. 260-431.

Westfalendruck G.m.b.H. & Co. Kommandit-Gesellschaft: *See*—

Fuchs, Friedrich. 2,920,557.

Fuchs, Friedrich. 2,947,248.

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Jäger, Heinz. 2,966,265.

Kaiser, Friedrich. 2,966,254.

Westfall, Richard H. Production of cyanuric acid from urea. 2,943,088, 6-28-60, Cl. 260-248.

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Skinner, Lee B., Williams, and Westfield. 2,953,957.

Westgate Laboratory, Inc.: *See*—

Colbert, Charles. 2,937,241.

Westgate, Oscar L., to The R. T. French Co. Condiment dispenser. 2,957,612, 10-25-60, Cl. 222-480.

Westheimer, Frank H., and J. W. Dawson, to United States of America, Navy. Aluminized explosive composition. 2,942,965, 6-28-60, Cl. 52-6.

Westheimer, Norbert, to Sperry Rand Corp., Ford Instrument Co. Division. Amplitude prediction mechanism. 2,948,472, 8-9-60, Cl. 235-186.

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Aikman, Burton S. 2,937,719.

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Baechtel, Clarence R. 2,933,164.

Berkoben, Charles W. 2,937,801.

Brinker, Emil F., and Robison. 2,952,755.

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Cook, James A., Jr., and Stapelfeldt. 2,965,889.

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Feucht, Jacob E. 2,947,519.

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Feucht, Jacob E. 2,955,804.

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Fobian, George W. 2,961,151.

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Goldstein, Robert F., and Hildebrand. 2,934,836.

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Jackel, Arthur P. 2,954,511.

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 May, Harry C., and Frola. 2,945,690.  
 McClure, Glenn T. 2,926,967.  
 McClure, Glenn T. 2,956,447.  
 McClure, Glenn T., and Hursen. 2,923,577.  
 McClure, Glenn T., and Hursen. 2,961,274.  
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 Newell, George K. 2,937,725.  
 Newell, George K. 2,958,397.  
 Newell, George K. 2,958,398.  
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 Osterkamp, Henry C. 2,961,147.  
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 Pokrant, Adolph G. 2,941,046.  
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 Robison, William A., Jr. 2,964,618.  
 Schou, Chris. 2,960,887.  
 Seger, Fritz O. 2,940,799.  
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 Staples, Crawford E. 2,939,111.  
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 Utt, Orvan L., and Ericson. 2,954,462.  
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 Armstrong, Alfred. 2,940,281.  
 Armstrong, Alfred, and Ulrich. 2,932,178.  
 Arnold, Edward R., and Moore. 2,962,606.  
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 Baker, Benjamin P. 2,933,575.  
 Baker, Benjamin P. 2,965,735.  
 Baker, Gerald E. 2,934,059.  
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 Beese, Norman C. 2,959,702.  
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 Bennon, Saul, and Morisuye. 2,942,215.  
 Bernstein, Abraham L. 2,957,145.  
 Richsel, Harry J. 2,933,592.  
 Robo, Powell O. 2,929,941.  
 Bolef, Dan L., and Chester. 2,962,585.  
 Booker, Clyde A., Jr. 2,924,724.  
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 Boyum, William B. 2,941,781.  
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 Brane, Maxwell D. 2,962,642.  
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 Bright, Richard L. 2,953,738.  
 Bright, Richard L. 2,962,603.  
 Bright, Richard L. 2,962,607.  
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 Brittain, Willard M. 2,962,604.  
 Brouwer, Frans. 2,961,585.  
 Brown, Jack T. 2,951,757.  
 Brown, Myron J. 2,933,615.  
 Browne, Thomas E., Jr., and Strom. 2,924,690.  
 Browne, Thomas E., Jr., and Strom. 2,965,736.  
 Bryant, Ozo N. 2,933,301.  
 Buchanan, Leslie B. M. 2,943,452.  
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 Cameron, Frank L., and Hexter. 2,922,005.  
 Cametti, Benjamin, and Steele. 2,956,841.  
 Carbo, Edward J. 2,937,017.  
 Carleton, James T. 2,961,597.  
 Carleton, James T., Wagner, and Woth. 2,949,574.  
 Carlson, Charles L., and Rosecrans. 2,947,069.  
 Carter, John C. G. 2,924,755.  
 Cellerini, Albert R. 2,937,251.  
 Cellerini, Albert R., and Hill. 2,922,008.  
 Chang, Hung-Chi. 2,921,905.  
 Chauvin, Bernard. 2,940,231.  
 Chauvin, Bernard, and Mills. 2,956,381.  
 Chen, Kan. 2,937,290.  
 Cheverton, John S., and Brouwer. 2,933,612.  
 Claybourn, Glen L., and Champney. 2,965,810.  
 Claypool, Harry W. 2,924,746.  
 Comenetz, George. 2,957,064.  
 Cornell, Archie R. 2,934,727.  
 Cornell, Archie R. 2,963,623.  
 Corson, Bayard R. 2,965,792.  
 Courtney, Arthur W., Jr. 2,920,812.  
 Courtney, Arthur W., Jr. 2,961,148.  
 Crawford, Thomas G., and Allen. 2,945,638.  
 Croco, Charles P. 2,929,961.  
 Cromer, Charles F., and Baker. 2,922,010.  
 Cuttino, William H. 2,933,652.  
 Davenport, William S. 2,929,206.  
 Davis, Edward M., Jr. 2,946,022.  
 Dawley, Clarence E. 2,928,024.  
 Decker, Richard O. 2,962,653.  
 Decker, Richard O., and Hall. 2,962,602.  
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 Derr, Willard A. 2,949,601.  
 Derr, Willard A., and Metz. 2,962,702.  
 Derr, Willard A., and Metz. 2,965,881.  
 Derrick, Robert P., and Campbell. 2,945,637.  
 Destriau, Georges. 2,951,814.  
 Dickerson, Henry A. 2,921,712.  
 Di Nicolantonio, Frank, Jr. 2,953,773.  
 Dorfman, Hiller D. 2,942,079.  
 Drexler, John J. 2,953,219.  
 Duffy, Philip A., Jr. 2,962,594.  
 Durnal, Robert G. 2,951,965.  
 Easley, Gilbert J. 2,937,320.  
 Eberhart, Arthur H. 2,941,381.  
 Edelman, Leonard E., Runk, and Adamik. 2,956,613.  
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 Ene, Rigger. 2,939,994.  
 Elbing, Irving N., and Thomas. 2,941,981.  
 Euler, Fred J., Jr., and Lane. 2,937,277.  
 Evans, Palmer D. 2,962,597.  
 Evans, William G. 2,932,954.  
 Ewing, Clifton H. 2,963,281.  
 Fay, Joseph G., and Ringelman. 2,964,095.  
 Feaster, Gene R. 2,945,295.  
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 Fegely, Hugh S. 2,957,107.  
 Fernald, Olaf H. 2,962,621.  
 Fields, Arnold C. 2,932,359.  
 Findley, Joseph D., Jr., and Van Sickle. 2,939,931.  
 Finestone, Arnold B. 2,953,545.  
 Fischer, Edward G. 2,929,245.  
 Ford, James G. 2,942,217.  
 Fox, John J. 2,947,846.  
 Fox, John J. 2,951,929.  
 Frantti, Edsel W., Lackey, and Meess. 2,959,925.  
 Fraser, Hugh D., and Unzert. 2,951,959.  
 Friedrich, Robert F., and Yeckley. 2,933,576.  
 Frink, Russell E. 2,933,574.  
 Frost, George H. 2,945,596.  
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 Garbuny, Max, and Horn. 2,938,141.  
 Gaskill, William A. 2,962,568.  
 Gazzara, Charles P., and Moore. 2,922,092.  
 Gedance, Alan R. 2,942,118.  
 Gelzhelzer, Francis L., and Flick. 2,962,569.  
 Gerard, William A., and Larson. 2,946,027.  
 Giboney, Ray E. 2,935,002.  
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 Glenn, Robert G. 2,931,169.  
 Goldschmidt, Fabio R. 2,920,813.  
 Gottlieb, Manious. 2,932,938.  
 Greiner, Arno, and Wollentitz. 2,924,190.  
 Guggi, Walter B. 2,965,766.  
 Hann, Earl K. 2,952,904.  
 Hanna, Clinton R. 2,945,478.  
 Hanna, Clinton R., and Oplinger. 2,933,269.  
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 Hansen, Hans E. 2,956,662.  
 Hansen, Hans E. 2,962,149.  
 Harper, John L. 2,933,588.  
 Hartwig, Edward C., Stadum, and Large. 2,962,631.  
 Helkes, Robert R., and Johnston. 2,921,973.  
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 Heitchue, Regis D., Sr. 2,963,216.  
 Heller, Paul. 2,922,908.  
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 Hellstrom, Melbourne J. 2,953,640.  
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 Kaul, Harry J. 2,953,278.  
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 Koerner, Harry E., and Smith. 2,924,717.  
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 Lange, William J., and Alpert. 2,922,666.  
 Large, William E. 2,942,151.  
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 Lawrence, Robert F. 2,933,616.  
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 Lee, Hon C. 2,965,710.  
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 Macredis, George. 2,924,298.  
 Madigan, William R. 2,956,372.  
 Mandelcorn, Lyon, Auxier, and Lewis. 2,949,424.  
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 Pierce, Lawrence, and White. 2,949,569.  
 Pittman, George F., Jr., Bright, and Royer. 2,953,741.  
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 Purifoy, George R. 2,933,667.  
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 Putkovich, Rudy P., and Corry. 2,937,298.  
 Ramsey, James B., and Anderson. 2,942,061.  
 Rasmussen, Arne P., and Sealey. 2,939,653.  
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- Weymouth, George J., to Cooper Weymouth, Inc. Open throat air operated slide feed for power presses and special machines. 2,929,626, 3-22-60, Cl. 271-25.
- Weyner, Franklin S., to United States of America, Navy. Reset mechanism. 2,937,535, 5-24-60, Cl. 74-10.41.
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- Whaley, Thomas P., to Ethyl Corp. Production of thorium. 2,926,082, 2-23-60, Cl. 75-84.1.
- Whaley, William. Loading machines. 2,933,142, 4-19-60, Cl. 180-6.48.
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- Wheatley, Carl F., Jr., to Radio Corp. of America. Semiconductor signal amplifier circuit. 2,955,258, 10-4-60, Cl. 330-13.
- Wheatley, Charles. Light weight check valve. 2,930,400, 3-29-60, Cl. 137-527.8.
- Wheatley, Thomas. Closure assembly. 2,946,479, 7-26-60, Cl. 220-55.
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- Wheeler, Basil W., to McGaffey-Taylor Corp. Method and apparatus for placing sealant in wells. 2,954,827, 10-4-60, Cl. 166-162.
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- Wheeler, Charles J. Apparatus for parting a fracturable member. 2,949,669, 8-23-60, Cl. 30-92.
- Wheeler, Charles J. Method for parting elongated fracturable members. 2,950,035, 8-23-60, Cl. 225-1.
- Wheeler, Charles J. Slidable jaw face, slidable outer jaw wrench. 2,959,996, 11-15-60, Cl. 81-179.
- Wheeler, Colin. Archery bows. 2,944,539, 7-12-60, Cl. 124-22.
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- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. Phthalidyl ethers of polyglycols. 2,938,909, 5-31-60, Cl. 260-343.3.
- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. 3-(difloweralkanoyl)methylphthalides. 2,938,910, 5-31-60, Cl. 260-343.3.
- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. Phthalides. 2,945,865, 7-19-60, Cl. 260-343.3.
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- Wheeler, George R., and J. M. Wood, Sr., to West Point Mfg. Co. Cot removal device. 2,934,986, 5-3-60, Cl. 83-175.
- Wheeler, Gershon J., to Raytheon Co. Cross guide directional couplers. 2,966,638, 12-27-60, Cl. 333-10.
- Wheeler, Gordon K., to R. T. Vanderbilt Co., Inc. Drier compositions. 2,961,331, 11-22-60, Cl. 106-310.
- Wheeler, Harry L., Jr., to Poroloy Equipment, Inc. Filter unit. 2,925,913, 2-23-60, Cl. 210-323.
- Wheeler, Henry H., to International Cigar Machinery Co. Cigar machine. 2,956,567, 10-18-60, Cl. 131-21.
- Wheeler, Henry H., to International Cigar Machinery Co. Web feed for cigar machines. 2,960,898, 11-22-60, Cl. 83-100.
- Wheeler, Henry H., and N. R. Parlature, to International Cigar Machinery Co. Continuous web feeding means with spaced die engaging cut-out portion. 2,933,003, 4-19-60, Cl. 83-422.
- Wheeler, Hudson L., to Wheeler Protective Apparel, Inc. Finger cot. 2,925,605, 2-23-60, Cl. 2-21.
- Wheeler, James E. Storage apparatus. 2,930,496, 3-29-60, Cl. 214-16.1.
- Wheeler, James E. Two-level storage apparatus. 2,930,497, 3-29-60, Cl. 214-16.1.
- Wheeler, James E. Airplane hangar. 2,964,144, 12-13-60, Cl. 189-1.5.
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- Wheeler, Lisle L., and R. F. Garbarini, to Sperry Rand Corp. Bombsight. 2,955,356, 10-11-60, Cl. 33-46.5.
- Wheeler, Parker N., to The Felters Co. Adjustable resilient foot for machinery. 2,921,760, 1-19-60, Cl. 248-24.
- Wheeler, Peyton, to Minerals and Chemicals Corp. of America. Manufacture of artificially colored granules. 2,953,474, 9-20-60, Cl. 117-54.
- Wheeler, Phillip R. Jet engine fuel control. 2,961,828, 11-29-60, Cl. 60-39.23.
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- Wheeler, Raymond R. Shaving honing unit. 2,953,851, 9-27-60, Cl. 30-35.
- Wheeler, Raymond T., to Crown Cork & Seal Co., Inc. Apparatus for injection molding. 2,919,469, 1-5-60, Cl. 18-30.
- Wheeler, Stephen W., 1/2 to F. J. Klempay. Automatic control for adjusting rolling mills. 2,961,901, 11-29-60, Cl. 80-56.
- Wheeler, Walter C. Device for retaining viol type instrument peg in position. 2,951,413, 9-6-60, Cl. 84-305.
- Wheeler, Walter G., L. Van Camp, W. G. Wood, and R. A. Lawson, to Menasco Mfg. Co. Pressure welding apparatus. 2,944,449, 7-12-60, Cl. 78-82.
- Wheeler, Walter W. Core veneer band saw. 2,935,101, 5-3-60, Cl. 143-21.
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- Wheeler, William N. Educational toy. 2,958,961, 11-8-60, Cl. 35-73.
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- Wheeler, William R., to Sylvania Electric Products Inc. Electron tube. 2,944,180, 7-5-60, Cl. 313-241.
- Wheeling Stamping Co.: *See—*
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- Ries, William M. 2,938,452.
- Wheelock, Charles E., to Phillips Petroleum Co. Resins from epoxidized liquid diene polymers and phenol aldehyde resins and method of making same. 2,927,094, 3-1-60, Cl. 260-43.
- Wheelock, Charles E., to Phillips Petroleum Co. Solid resins from irradiated epoxidized liquid conjugated diene polymers. 2,959,531, 11-8-60, Cl. 204-158.
- Wheelock, Charles E., to Phillips Petroleum Co. Process for producing resins from liquid diene polymers and polythiols. 2,964,502, 12-13-60, Cl. 260-79.
- Wheelock, Charles E., and J. E. Wicklatz, to Phillips Petroleum Co. Resins from epoxidized liquid polybutadiene and neutral esters of polybasic acids. 2,946,756, 7-26-60, Cl. 260-2.
- Wheelock, Charles E., and P. J. Canterino, to Phillips Petroleum Co. Glass fiber treated with the reaction product of a liquid polymer of a conjugated diene and silicon halide. 2,952,576, 9-13-60, Cl. 154-46.
- Wheelock, Clifford W., to United States of America, Atomic Energy Commission. Concentric tubular fuel element. 2,949,416, 8-16-60, Cl. 204-193.2.
- Wheelock, Edward A.: *See—*
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- Wheelock, Robert H., to Bell Aircraft Corp. Helicopter aircraft control. 2,954,945, 10-4-60, Cl. 244-17.13.
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- Wheelon, Orville A., to Douglas Aircraft Co., Inc. High speed hydraulic press system and method. 2,923,130, 2-2-60, Cl. 60-51.
- Wheelon, Orville A., to Douglas Aircraft Co., Inc. High-pressure hydraulic press. 2,962,994, 12-6-60, Cl. 113-44.
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- Brown, John F., Weir, and Whelan. 2,950,177.
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- Whelan, Jack T., and J. H. French. Tubular container. 2,945,585, 7-19-60, Cl. 206-46.



- Whelan, James E., to General Motors Corp. Air suspension control valve. 2,953,391, 9-20-60, Cl. 280-124.
- Whelan, James E., to General Motors Corp. Two-position air suspension control valve. 2,954,987, 10-4-60, Cl. 280-124.
- Whelan, James E., to General Motors Corp. Two-position air suspension control valve. 2,965,391, 12-20-60, Cl. 280-124.
- Whelan, James P., to Pneumatic Scale Corp., Ltd. Infusion bag. 2,922,717, 1-26-60, Cl. 99-77.1.
- Whelan, James P., to Pneumatic Scale Corp., Ltd. Infusion bag. 2,954,294, 9-27-60, Cl. 99-77.1.
- Whelan, John M., Jr., and W. P. Samuels, Jr., to Union Carbide Corp. Multiple cyclic carbonate polymers from erythritol dicarbonate. 2,935,494, 5-3-60, Cl. 260-77.5.
- Whelan, Katherine J. Pressure-relieving pad. 2,933,738, 4-26-60, Cl. 5-338.
- Whelen, Myron S.: See—
- Perkins, Melvin A., Oken, and Whelen. 2,957,004.
- Wheltle, Harry A. Lading transfer system. 2,959,303, 11-8-60, Cl. 214-38.
- Whetstone, Cecil E., to Hossfeld Mfg. Co. Reciprocating cutter actuated by hydraulically operated lever. 2,966,088, 12-27-60, Cl. 83-634.
- Whetstone, Richard R., to Shell Oil Co. Phosphate esters of cyanohydrins. 2,965,533, 12-20-60, Cl. 167-22.
- Whetstone, Richard R., and D. Harman, to Shell Oil Co. Insecticidally active esters of phosphorus acids and preparation of the same. 2,956,073, 10-11-60, Cl. 260-461.
- Whewell, Robert, to The Warner & Swasey Co. Weaving machine. 2,954,056, 9-27-60, Cl. 139-126.
- Whidden, William E., to Bell Telephone Laboratories, Inc. Universal telephone mounting. 2,949,509, 8-16-60, Cl. 179-100.
- Whildin, Orvilla M., and H. C. Steube, deceased (by C. H. Steube, executrix),  $\frac{1}{4}$  to M. M. Marks. Signal systems. 2,921,734, 1-19-60, Cl. 232-36.
- Whinnery, John R.: See—
- Currie, Malcolm R., and Whinnery. 2,955,226.
- Whirlpool Corp.: See—
- Amstutz, Walter R. 2,920,341.
- Belton, Joseph F., Jr., and Swerbinsky. 2,949,014.
- Bower, Warren R., Koch, and Woods. 2,958,912.
- Buzicky, Edmund J. 2,950,157.
- Cobb, Clifton A., and Morris. 2,925,664.
- Carl, Louis H., Herndon, and McConnell. 2,930,207.
- Cobb, Clifton A. 2,941,309.
- Cobb, Clifton A., and Williams. 2,941,308.
- Coss, George R. 2,924,898.
- Coss, George R. 2,939,639.
- Danielson, Warren R., and Lopp. 2,922,284.
- Erickson, Frederick L., and Fink. 2,949,020.
- Erickson, Frederick L., and Wolfert. 2,934,916.
- Glendenning, Major D. 2,936,604.
- Goms, Richard H. 2,931,750.
- Howard, Frank S. 2,923,789.
- Israel, Lon F., Jr. 2,924,959.
- Jarvis, Lactance A., and Heinicke. 2,949,497.
- Jones, John P., and Levitt. 2,960,990.
- Lannert, James W. 2,950,868.
- Levitt, Edward C. 2,931,188.
- Levitt, Edward C., and Ruspino. 2,956,572.
- Lopp, Charles E., and Danielson. 2,928,253.
- MacCracken, Calvin D., and Miles. 2,949,679.
- McNeil, George R., and Palmer. 2,936,892.
- Moecker, Norman A. 2,941,822.
- Morris, Harold H., and Stone. 2,931,508.
- Morrison, Harold E. 2,941,889.
- Ohlsson, Leonard W. 2,954,683.
- Ohmann, William. 2,922,526.
- Peters, Harold P. 2,940,711.
- Platt, Clark I. 2,962,887.
- Platt, Clark I., Clearman, and Freund. 2,942,446.
- Ricke, William R., and Syles. 2,942,447.
- Roeder, John, Jr. 2,942,051.
- Roeder, John, Jr. 2,947,150.
- Roeder, John, Jr. 2,964,912.
- Schell, Paul, Cobb, Brenner, and Krolzick. 2,931,200.
- Schmitz, Joseph F. 2,931,205.
- Sparklin, Charles H. 2,949,251.
- Steffey, Marvin G. 2,931,199.
- Sulcek, Charles E. 2,961,863.
- Swanson, Donald F. 2,959,026.
- Syles, William W. 2,966,052.
- Whirry, Walter L.: See—
- Nelson, Conrad E., and Whirry. 2,951,216.
- Whisler, Paul A., and W. C. McDermott, to Allis-Chalmers Mfg. Co. Spout control for forage harvester. 2,961,273, 11-22-60, Cl. 302-34.
- Whisler, Richard J. Flexible tubular container. 2,936,932, 5-17-60, Cl. 222-173.
- Whisler, Thomas C., Sr., to American Brake Shoe Co. Hammer with removable tip. 2,939,640, 6-7-60, Cl. 241-197.
- Whisler, Thomas C., Sr., to American Brake Shoe Co. Hammer mills. 2,962,232, 11-29-60, Cl. 241-195.
- Whistler, Lawrence V., Jr.: See—
- Whistler, Lawrence V., Sr., and L. V. Whistler, Jr. 2,930,271.
- Whistler, Lawrence V., Sr., and L. V. Whistler, Jr. Punch and die assembly having tool positioning means. 2,930,271, 3-29-60, Cl. 83-619.
- Whitacre, John R.: See—
- Homer, Howard J., and Whitacre. 2,930,712.
- Homer, Howard J., and Whitacre. 2,933,415.
- Novak, Leo J., and Whitacre. 2,933,710.
- Whitaker, Arthur C.: See—
- Franke, Norman W., Selwitz, and Whitaker. 2,945,050.
- Whitaker, Arthur C., to Gulf Research & Development Co. Lubricating composition and process for preparing said composition. 2,936,315, 5-10-60, Cl. 260-410.9.
- Whitaker, Arthur C., to Gulf Research & Development Co. Method of preparing amines. 2,953,601, 9-20-60, Cl. 260-585.
- Whitaker, Arthur C., to Gulf Research & Development Co. Process for preparing a lubricant and composition resulting therefrom. 2,955,122, 10-4-60, Cl. 260-410.9.
- Whitaker, William D.: See—
- Von der Nuell, Werner T., Winslow, and Whitaker. 2,941,780.
- Whitaker, William D., to The Garrett Corp. Overspeed prevention means for turbines. 2,922,429, 1-26-60, Cl. 137-27.
- Whitbeck, Roland A., to Pennsalt Chemicals Corp. Apparatus for applying a coating of controlled variable thickness to metal stock. 2,960,061, 11-15-60, Cl. 118-58.
- Whitby, Clyde M.: See—
- Fontaine, Robert R., Whitby, and White. 2,944,347.
- Whitby, Clyde M., to ACF Industries, Inc. Turbo compressor tachometer simulator. 2,943,402, 7-5-60, Cl. 35-12.
- Whitby, John H.: See—
- Murray, Donald A., and Whitby. 2,947,400.
- White, Alan D., to Bell Telephone Laboratories, Inc. Gaseous discharge devices. 2,926,277, 2-23-60, Cl. 313-209.
- White, Alan D., to International Telephone and Telegraph Corp. Gas tube microwave detector. 2,928,000, 3-8-60, Cl. 250-27.
- White, Allen A., to Hesston Mfg. Co., Inc. Multiple steering mechanism. 2,924,993, 2-16-60, Cl. 74-722.
- White, Allen A., to Hesston Mfg. Co., Inc. Steering structure for farm implements and the like. 2,936,840, 5-17-60, Cl. 180-6.66.
- White, Arthur A., to North American Aviation, Inc. Mounting device. 2,962,135, 11-29-60, Cl. 189-36.
- White, Arthur A., to North American Aviation, Inc. Electric contact terminal. 2,962,692, 11-29-60, Cl. 339-220.
- White, Ben O., and M. I. Anderson. Combined spraying and dusting apparatus for aircraft. 2,924,040, 2-9-60, Cl. 43-147.
- White, Carmen A.: See—
- White, Daniel N. and C. A. 2,956,346.
- White, Charles C., and R. E. Donaldson, to Eastman Kodak Co. Fiber treating compositions. 2,956,949, 10-18-60, Cl. 252-8.6.
- White, Charles S. Low friction fabric material. Re. 24,765, 1-12-60, Re. 139-420.
- White, Charles S. Injection machine. 2,961,704, 11-29-60, Cl. 18-30.
- White, Chester M.: See—
- Salisbury, Samuel H., and White. 2,951,039.
- White, Chester N., and H. L. Bachofer, to Sun Oil Co. Measuring velocity of transported material. 2,936,371, 5-10-60, Cl. 250-71.
- White, Clemens. Burglar-resistant lock. 2,942,449, 6-28-60, Cl. 70-1.5.
- White, Colen L. Engine valve tappet. 2,923,282, 2-2-60, Cl. 123-90.
- White, Daniel N. and C. A. Mechanical plumb, level, and angle finder. 2,956,346, 10-18-60, Cl. 33-215.
- White, Deane R., to E. I. du Pont de Nemours and Co. Adhesive tape. 2,940,884, 6-14-60, Cl. 154-53.5.
- White, Donald: See—
- Roberts, Arthur L., Cowan, and White. 2,965,687.
- White, Donald E., and W. H. Reinholdt, to Smith-Corona Marchant Inc. Read-record circuits. 2,922,144, 1-19-60, Cl. 340-174.
- White, Donald H., to Phillips Petroleum Co. Separation by crystallization. 2,921,682, 1-19-60, Cl. 210-81.
- White, Donald H., and J. M. Folz, to Phillips Petroleum Co. Alkenylpyridine synthesis. 2,962,498, 11-29-60, Cl. 260-290.
- White, Donald H., and J. M. Folz, to Phillips Petroleum Co. Safety systems for furnace. 2,966,399, 12-27-60, Cl. 23-262.
- White, Douglas L. System for identifying telephone lines. 2,963,553, 12-6-60, Cl. 179-18.
- White, Earl E. Highway marker with replaceable cover. 2,942,571, 6-28-60, Cl. 116-63.
- White, Edward L. Packing machine. 2,919,528, 1-5-60, Cl. 53-124.
- White, Effie E. Traction device for railroad-transported refrigerator trailers. 2,926,505, 3-1-60, Cl. 62-242.
- White, Effie E. Variable speed drive mechanism. 2,940,329, 6-14-60, Cl. 74-230.17.
- White, Elmer E.: See—
- Hixon, Philip E., and White. 2,925,767.
- White, Eric L. C., to Electric & Musical Industries Ltd. Automatic tracking circuits. 2,924,818, 2-9-60, Cl. 343-7.3.
- White, Eric L. C., to Electric & Musical Industries Ltd. Television camera or like head amplifier arrangements. 2,954,475, 9-27-60, Cl. 250-206.
- White, Ernest I. Dental appliance. 2,958,130, 11-1-60, Cl. 32-33.



- White, Eugene F., Jr., to Autotronics, Inc. Magnetic clutches. 2,965,203, 12-20-60, Cl. 192-18.
- White, Frank J.: *See—*  
Brooker, Leslie G. S., and White. 2,955,939.
- White, Franklin E. Racks for linotype magazines. 2,947,424, 8-2-60, Cl. 211-168.
- White, Frederick A., to United States of America, Atomic Energy Commission. Mass spectrometer. 2,950,388, 8-23-60, Cl. 250-41.9.
- White, Gale, to Texas Instruments Inc. Method and apparatus for recording seismic signals. 2,932,357, 4-12-60, Cl. 181-5.
- White, Geoffrey R., to Centrax Power Units Ltd. Grinding machine and method. 2,956,377, 10-18-60, Cl. 51-100.
- White, George B.: *See—*  
Mannon, Lloyd. 2,936,799.
- White, Gerald, to Libbey-Owens-Ford Glass Co. Apparatus for controlling the heating of glass sheets. 2,920,424, 1-12-60, Cl. 49-67.
- White, Gerald, to Libbey-Owens-Ford Glass Co. Tempering of sheet material. 2,948,990, 8-16-60, Cl. 49-45.
- White, Gerald, and F. J. Carson, to Libbey-Owens-Ford Glass Co. Apparatus for bending glass sheets. 2,957,277, 10-25-60, Cl. 49-7.
- White, Gerald B., to Wagner Electric Corp. Filter unit. 2,962,119, 11-29-60, Cl. 183-42.
- White, Gerard B.: *See—*  
Beckman, George H., and White. 2,925,696.
- White, Jerome R., to United Hoisting Co. Wall hoister. 2,928,556, 3-15-60, Cl. 212-64.
- White, Guy H., Jr., to American Enka Corp. Prevention of yellowing in freshly spun viscose rayon with tartaric, citric or gluconic acid. 2,922,728, 1-26-60, Cl. 117-139.5.
- White, Harry: *See—*  
Annear, John D., White, and Holt. 2,946,221.
- White, Harry A. Power loader. 2,940,621, 6-14-60, Cl. 214-75.
- White, Harry G., and E. M. Zamplerl, to Coast Metals, Inc. Means for feeding weld rod. 2,946,430, 7-26-60, Cl. 203-210.
- White, Harvey J., to General Motors Corp. Egg storage means for refrigerators. 2,955,006, 10-4-60, Cl. 312-214.
- White, Harvey J., to General Motors Corp. Refrigerating apparatus. 2,960,848, 11-22-60, Cl. 62-382.
- White, Harvey R.: *See—*  
Casey, Ben F., and White. 2,936,133.
- White, Henry J., and C. J. Hesner, to International Business Machines Corp. Comparator. 2,959,768, 11-8-60, Cl. 340-149.
- White-Hixon Laboratories, Inc.: *See—*  
Hixon, Philip E., and White. 2,925,767.
- White, Horace W., to The National Standard Co. Ltd. Apparatus for the automatic production of closed loops of wire from wire stock. 2,949,136, 8-16-60, Cl. 140-88.
- White, Hosea B., Jr.: *See—*  
Fontaine, Robert R., Whitby, and White. 2,944,347.
- White, Howard T.: *See—*  
Strickland, Gerald, Horn, and White. 2,953,993.
- White, Howard T., to Fostoria Corp. Sealless motor for valve operation. 2,956,188, 10-11-60, Cl. 310-86.
- White, Howard T., to Fostoria Corp. Fluid take off connections for motor driven pumps and the like. 2,963,980, 12-13-60, Cl. 103-111.
- White, James. Fishing spinners. 2,952,936, 9-20-60, Cl. 43-42.21.
- White, James A., to Sprague Electric Co. Pulse forming network assembly. 2,920,293, 1-5-60, Cl. 333-29.
- White, James G., to Eastman Kodak Co. Fibrous tobacco smoke filter elements. 2,948,282, 8-9-60, Cl. 131-208.
- White, James F.: *See—*  
Osborne, Lyle E., and White. 2,954,262.
- White, James R.: *See—*  
Denton, Robert F., and White. 2,946,227.
- White, James R., to E. I. du Pont de Nemours and Co. Polyethylene films. 2,920,349, 1-12-60, Cl. 18-48.
- White, James S., and W. H. Rucks, to Fairchild Engine and Airplane Corp. Fail-safe fluid pressure responsive valve. 2,931,616, 4-5-60, Cl. 251-52.
- White, John A., Jr., to Be-Ge Mfg. Co. Stroke control for fluid motors. 2,925,802, 2-23-60, Cl. 121-38.
- White, John C.: *See—*  
Norris, Kenneth A., and White. 2,940,641.
- White, John F., to Monsanto Chemical Co. Preparation of alumina sols. 2,931,779, 4-5-60, Cl. 252-313.
- White, John H., and T. J. Wolanski, to Taco Heaters, Inc. Pump. 2,920,575, 1-12-60, Cl. 103-87.
- White, John L. Locking and sealing means for burial caskets. 2,929,128, 3-22-60, Cl. 27-14.
- White, John R., to Hazeltine Research, Inc. Six junction transistor signal-translating system. 2,936,384, 5-10-60, Cl. 307-88.5.
- White, John U., to Baird-Atomic, Inc. Power supply for photomultiplier. 2,954,510, 9-27-60, Cl. 315-277.
- White, Joseph C., and G. W. Work, to United States of America, Navy. Electrolytic oxygen generator. 2,951,802, 9-6-60, Cl. 204-270.
- White, Kenneth G. Solenoid operated electric switch. 2,922,861, 1-26-60, Cl. 200-106.
- White Laboratories, Inc.: *See—*  
Markus, Richard L. 2,957,036.  
Markus, Richard L., and Neary. 2,923,662.
- White, Le Roy A. Antiseptic plastic. 2,951,766, 9-6-60, Cl. 106-15.
- White, Loyd J., and A. L. Anderson, to Southern Steel Co. Master actuating mechanism for operating cell doors and keyless locks. 2,961,076, 11-22-60, Cl. 189-7.
- White, Marshall P.: *See—*  
Pierce, Lawrence, and White. 2,949,569.
- White, Marshall P., to Westinghouse Electric Corp. Timing circuit. 2,949,545, 8-16-60, Cl. 307-88.5.
- White, Marshall P., and R. B. Immel, to Westinghouse Electric Corp. Overcurrent protection devices. 2,957,109, 10-18-60, Cl. 317-11.
- White Metal Rolling & Stamping Corp.: *See—*  
Larson, Clayton E. 2,936,849.  
Larson, Clayton E. 2,957,543.
- White, Morris, Fashions, Inc.: *See—*  
White, Morris. 2,922,451.
- White, Morris, to Morris White Fashions, Inc. Handbags. 2,922,451, 1-26-60, Cl. 150-29.
- White, Morris. Handbags. 2,946,364, 7-26-60, Cl. 150-28.
- White Motor Co., The: *See—*  
Gleason, Vernon E. 2,966,223.
- White, Norman O. Filter. 2,923,375, 2-2-60, Cl. 183-3.
- White, Paul. Anchor bolt assembly. 2,952,947, 9-20-60, Cl. 50-475.
- White, Peter T., and E. C. Housam, to The British Petroleum Co. Ltd. Catalytic reforming of hydrocarbons. 2,958,649, 11-1-60, Cl. 208-136.
- White, Philip F., to General Dynamics Corp. (Convair Division) Hinge structure. 2,943,756, 7-5-60, Cl. 217-60.
- White, Philip R.: *See—*  
Bouton, George M., Fisher, and White. 2,953,673.
- White, Philip R., R. F. Thomson, and C. F. Joseph, to General Motors Corp. Boron-containing ferrous metal having as-cast compacted graphite. 2,943,932, 7-5-60, Cl. 75-123.
- White, Ray C.,  $\frac{1}{4}$  to F. J. Kenney,  $\frac{1}{4}$  to C. M. Sugar and J. B. Hatala. Ventilation system for buildings. 2,936,692, 5-17-60, Cl. 98-32.
- White, Raymond A. Dental handpiece and control therefor. 2,928,174, 3-15-60, Cl. 32-27.
- White, Rex H., Jr., to United States of America, Army. Luminous sphere. 2,957,169, 10-18-60, Cl. 340-366.
- White, Richard G., to International Motors Corp. Adjustable license plate assembly. 2,964,351, 12-13-60, Cl. 296-57.
- White, Richard H. Retread tire. 2,961,025, 11-22-60, Cl. 152-187.
- White, Richard J.: *See—*  
Brennan, Thomas F., and White. 2,963,194.
- White, Richard L.: *See—*  
Tellefsen, Harold E., White, and Alessio. 2,931,018.
- White, Richard M. Portable crane. 2,953,259, 11-20-60, Cl. 212-58.
- White, Robert, to Armour and Co. Production of annular fertilizers. 2,963,358, 12-6-60, Cl. 71-37.
- White, Robert D., to International Basic Economy Corp. Valve. 2,924,242, 2-9-60, Cl. 137-623.
- White, Robert E.: *See—*  
Day, Richard A., Jr., and White. 2,961,490.
- White, Robert H.: *See—*  
Clark, Sidney F., Cowles, Marola, and White. 2,950,151.
- White, Robert S.: *See—*  
Goodhue, William V., Reynolds, and White. 2,926,014.
- White, Roger B., to The Glastic Corp. Fuse cartridge. 2,929,900, 3-22-60, Cl. 200-131.
- White, Roger B., to The Glastic Corp. Threaded shaft of glass fiber reinforced plastic. 2,949,054, 8-16-60, Cl. 85-47.
- White, Roger B., and G. F. Chaplin, to Continental Can Co., Inc. Closure cap. 2,957,595, 10-25-60, Cl. 215-40.
- White, Roger, Electron Devices, Inc.: *See—*  
Geiger, Richard H. 2,930,932.  
Geiger, Richard H. 2,953,713.
- White, Roland J.: *See—*  
Bonaccorsi, John R., and White. 2,944,202.  
Lewis, Delbert S., Norton, Schmidt, and White. 2,957,656.
- White, Samuel H. Fuel gas mixture for metal working. 2,951,750, 9-6-60, Cl. 48-197.
- White Sewing Machine Corp.: *See—*  
Arbib, Richard H. 2,958,304.  
Balcom, George A., and Wiltshire. 2,945,531.  
Hamlett, Sidney J. 2,943,586.
- White, Stanley F. Electro-acoustical transducer. 2,923,783, 2-2-60, Cl. 179-115.5.
- White, Thomas A. Rotary drilling bit. 2,950,903, 8-30-60, Cl. 255-61.
- White, Thomas F. Sanitary saw liner. 2,933,116, 4-19-60, Cl. 146-88.
- White, Tom, to Electraulic Presses. Control mechanism for hydraulic presses. 2,931,340, 4-5-60, Cl. 121-38.
- White, Walter A., to Henry J. Kaiser Co. Lubrication apparatus. 2,925,885, 2-23-60, Cl. 184-6.
- White, Walter R.: *See—*  
Nadeau, Gale F., and White. 2,943,937.
- White, Ward W.: *See—*  
Ryser, Leo W., White, Brown, and Franklin. 2,920,455.
- White, Warren D., to Cutler-Hammer, Inc. Precision indicating radar system. 2,943,892, 8-9-60, Cl. 343-5.



- White, Warren D., to Cutler-Hammer, Inc. Signal translation apparatus utilizing dispersive networks and the like, e.g. for panoramic reception, amplitude-controlling frequency response, signal frequency gating, frequency-time domain conversion, etc. 2,954,465, 9-27-60, Cl. 250-20.
- White, Wayne E.: *See*—  
Gilliland, Joe E., Ray, and White. 2,924,508.  
Gilliland, Joe E., Ray, and White. 2,955,914.
- White, Wayne G., to Union Carbide Corp. Ethylene-alkyl acrylate copolymer and process of producing same. 2,953,551, 9-20-60, Cl. 260-86.7.
- White, Wilfrid F., W. A. Landmann, and W. L. Fierce, to Armour and Co. Method of obtaining adrenocorticotrophic hormone preparation of enhanced potency. 2,945,785, 7-19-60, Cl. 167-74.
- White, Wilfrid G., to Wilfrid O. White & Sons, Inc. Automatic pilot. 2,934,690, 4-26-60, Cl. 318-489.
- White, Wilfrid O., & Sons, Inc.: *See*—  
White, Wilfrid G. 2,934,690.
- White, William E., to Clark Equipment Co. Brake fan. 2,959,255, 11-8-60, Cl. 188-264.
- White, William H.: *See*—  
King, Laurence F., and White. 2,956,946.
- White, William V.: *See*—  
Feldman, Jacob R., Levenson, and White. 2,947,634.
- White, Winthrop W. G. Table leg joint connection. 2,956,850, 10-18-60, Cl. 311-99.
- White, Woodrow W.: *See*—  
Howland, Louis H., and White. 2,964,490.
- White, Woodrow W., to United States Rubber Co. Method of making oil extended synthetic rubber and carbon black masterbatches. 2,955,096, 10-4-60, Cl. 260-33.6.
- White, Woodrow W., to United States Rubber Co. Method of making oil extended synthetic rubber and carbon black masterbatches. 2,955,097, 10-4-60, Cl. 260-33.6.
- Whitecar, Alten E., to Smith, Kline & French Laboratories. Device for spacing articles. 2,921,665, 1-19-60, Cl. 198-34.
- Whitecar, Alten E., to Smith Kline & French Laboratories. Cycling means for elevator control system. 2,940,543, 6-14-60, Cl. 187-29.
- Whitecar, Alten E., to Smith Kline & French Laboratories. Ampule feeding device. 2,949,998, 8-23-60, Cl. 198-33.
- Whitecar, Alten E., to Smith Kline & French Laboratories. Ampul orienting device. 2,953,237, 9-20-60, Cl. 198-33.
- Whited, Henry L.: *See*—  
Lechthaler, Louis H., Feinberg, and Whited. 2,931,625.
- White Eagle International, Inc.: *See*—  
Christy, Robert F. 2,955,922.
- Whitefield, Harry, and A. Chiantelassa. Automatic liquid distributing set. 2,925,936, 2-23-60, Cl. 222-20.
- Whitefield, Harry, and A. Chiantelassa. Manufacturing of tokens for token operated distributing machines. 2,957,258, 10-25-60, Cl. 40-27.5.
- Whitehall-Rand, Inc.: *See*—  
Brown, Thomas T. 2,949,550.
- Whitehead, Cyril C., to Bailey Meter Co. Television apparatus. 2,937,234, 5-17-60, Cl. 178-7.1.
- Whitehead, Harold S., to General Electric Co. Electrical error compensation arrangements for directional systems. 2,924,023, 2-9-60, Cl. 33-224.
- Whitehead & Kales Co.: *See*—  
Stough, Gerald D. 2,930,331.
- Whitehead, Leslie T., to Power Jets (Research and Development) Ltd. Blades for compressors, turbines and the like. 2,925,250, 2-16-60, Cl. 253-77.
- Whitehead, Richard K., Jr.: *See*—  
Whitehead, Richard K., Sr., and R. K. Whitehead, Jr. 2,943,812.
- Whitehead, Richard K., Sr., and R. K. Whitehead, Jr. Bobbin holder. 2,943,812, 7-5-60, Cl. 242-130.2.
- Whitehead, Robert C., Jr., to Minneapolis-Honeywell Regulator Co. Transmitting apparatus. 2,930,390, 3-29-60, Cl. 137-85.
- Whitehead, Robert C., Jr., to Minneapolis-Honeywell Regulator Co. Controller. 2,954,457, 9-27-60, Cl. 219-38.
- Whitehead, William, to Celanese Corp. of America. Narrow fabrics. 2,956,331, 10-18-60, Cl. 28-80.
- Whitehill, Alvin R.: *See*—  
Winterbottom, Robert, Broquist, and Whitehill. 2,930,702.
- Whitehill, Alvin R., F. B. Abondi, J. H. Mowat, and G. Krupka, to American Cyanamid Co. Proteolytic enzyme and methods for its production. 2,936,265, 5-10-60, Cl. 195-62.
- Whitehorn, Robert M.: *See*—  
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- Whitehouse, Irving P., to Republic Steel Corp. Process of making non-galling threaded titanium members. 2,941,288, 6-21-60, Cl. 29-420.5.
- Whitehouse, Irving P., and W. A. Reed, to Republic Steel Corp. Process of preparing iron powder capable of being rolled directly to sheet form. 2,947,620, 8-2-60, Cl. 75-5.
- Whitehouse, John B.: *See*—  
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- Whitehouse, Leonard A.: *See*—  
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- Whitehouse Products, Inc.: *See*—  
Lawson, William L. 2,922,348.  
Rigolini, Vinnie J. 2,924,155.
- Whitehurst, George. Fuel injection nozzles. 2,962,227, 11-29-60, Cl. 239-453.
- Whitehurst, Harry B., to Owens-Corning Fiberglas Corp. Metal coated fibers and treatments therefor. 2,920,981, 1-12-60, Cl. 117-71.
- Whitehurst, Harry B., to Owens-Corning Fiberglas Corp. Glass reinforced metals. 2,932,071, 4-12-60, Cl. 22-202.
- Whitehurst, Harry B., and W. H. Otto, to Owens-Corning Fiberglas Corp. Method of producing glass fibers with metal coating. 2,928,716, 3-15-60, Cl. 18-54.
- Whitehurst, Harry B., and W. H. Otto, to Owens-Corning Fiberglas Corp. Method of applying metal to glass filaments and apparatus therefor. 2,963,739, 12-13-60, Cl. 18-8.
- Whitehurst, Joe R.: *See*—  
Whitehurst, Marcus G. and J. R. 2,934,797.  
Whitehurst, Marcus G. and J. R. 2,935,435.
- Whitehurst, John C.: *See*—  
Leineweber, William F., Jr., and Whitehurst. 2,938,239.
- Whitehurst, Marcus G. and J. R., to Ideal Industries, Inc. Suction clearer for textile rolls and method. 2,934,797, 5-3-60, Cl. 19-139.
- Whitehurst, Marcus G. and J. R., to Ideal Industries, Inc. Method of increasing fiber length while drafting. 2,935,435, 5-3-60, Cl. 19-130.
- Whitelaw, Robert, and V. E. Field. Wound dressing. 2,952,354, 9-13-60, Cl. 206-63.2.
- Whiteley, John K.: *See*—  
Johnson, Arthur L., Morf, and Whiteley. 2,964,483.
- Whiteley, Robert S.: *See*—  
Dunlop, Donald D., Bauch, and Whiteley. 2,952,356.
- Whiteley, Robert S., and D. D. Dunlop, to Esso Research and Engineering Co. Fluid coking process. 2,953,517, 9-20-60, Cl. 208-127.
- Whitely, Richard L., to Radio Corp. of America. Magnetic device. 2,951,237, 8-30-60, Cl. 340-174.
- Whiteman, Donald R., to The Cyril Bath Co. Oscillating and overload releasing means for pipe forming assemblage of metal forming machines. 2,949,146, 8-16-60, Cl. 153-40.
- Whiteman, Roy D. Metal strip can opener. 2,961,120, 11-22-60, Cl. 220-52.
- Whitenack, Mirl E., to The Swiss Colony Inc. Condensate control device. 2,961,165, 11-22-60, Cl. 236-56.
- Whitenack, Taylor D., Jr., to Engelhard Industries, Inc. Electrical discharge lamp. 2,921,221, 1-12-60, Cl. 313-318.
- Whitenight, Harvey A.: *See*—  
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- Whitesel, Harry A., and W. R. Bower, to Amana Refrigeration, Inc. Frost attractor for refrigerators. Re. 24,782, 2-16-60, Cl. 62-275.
- Whitesell, John C., to Crane Co. Foundry system. 2,960,735, 11-22-60, Cl. 22-20.
- Whitfield, Gordon H., to Imperial Chemical Industries Ltd. Oxidation process. 2,959,613, 11-8-60, Cl. 260-524.
- Whitfield, Harold R., to Kelvin & Hughes Ltd. Measurement of the speed of vehicles. 2,947,983, 8-2-60, Cl. 343-8.
- Whitfield, Joseph E. Multiple arc generated rotors having diagonally directed fluid discharge flow. 2,922,377, 1-26-60, Cl. 103-128.
- Whitin Machine Works: *See*—  
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Newbegin, Everett H. 2,929,321.
- Whiting Corp.: *See*—  
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Bennett, Richard C., and Dedert. 2,929,690.
- Whiting, Cuthbert R., 10% to E. L. Taylor. Speed-torque converter. 2,924,991, 2-16-60, Cl. 74-675.
- Whiting, James C., to Orenda Engines Ltd. Gravity controlled outlet selecting valve. 2,934,077, 4-26-60, Cl. 137-38.
- Whiting, Raymond D.: *See*—  
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- Whitlock, Robert A., Jr., to Aquamatic Inc. Multiport valve. 2,926,698, 3-1-60, Cl. 137-625.29.
- Whitlock, Robert A., Jr., to Aquamatic Inc. Control system for water treatment apparatus. 2,937,753, 5-24-60, Cl. 210-105.
- Whitman, Harlan M., to Curtis 1000 Inc. Banking envelope. 2,936,945, 5-17-60, Cl. 229-72.
- Whitman, Harlan M., to Curtis 1000, Inc. Envelope for banking use. 2,944,728, 7-12-60, Cl. 229-80.
- Whitman, Harlan M., to Curtis 1000, Inc. Continuous envelope stripper. 2,961,136, 11-22-60, Cl. 225-97.
- Whitman, Harlan M., to Curtis 1000, Inc. Bank-by-mail envelope. 2,963,282, 12-20-60, Cl. 229-72.
- Whitman, Vernon E., to Graflex, Inc. Photographic camera. 2,936,690, 5-17-60, Cl. 95-64.
- Whitmire, Blanton J.: *See*—  
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- Whitmire, Homer E. and B. J., to Whitmire Research Laboratories, Inc. Treatment of cattle. 2,952,584, 9-13-60, Cl. 167-53.2.
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- Whitmore, Charles H.: *See*—  
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- Whitmore, Charles H. Centrifugal dust collector. 2,944,632, 7-12-60, Cl. 183-77.
- Whitmore, Horace B. Coupling device. 2,937,661, 5-24-60, Cl. 137-565.
- Whitmore, John F.,  $\frac{1}{2}$  to Richard Co. Pruning apparatus. 2,940,486, 6-14-60, Cl. 143-43.
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- Whitmore, Keith E., and J. Williams, to Eastman Kodak Co. Planographic dye transfer process. 2,940,849, 6-14-60, Cl. 90-3.
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Highberger, John H., and Whitmore. 2,934,447.
- Whitnah, Richard G., to North American Aviation, Inc. Diode ring modulation device. 2,962,674, 11-29-60, Cl. 332-43.
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Cook, John B. 2,932,687.  
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- Whitney Chain Co.: See—  
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- Whitney, Donald R., to General Motors Corp. Precision spindle. 2,919,960, 1-5-60, Cl. 308-122.
- Whitney, Gordon E.: See—  
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- Whitney, Gordon E., to International Business Machines Corp. Arithmetic unit using magnetic core counters. 2,923,472, 2-2-60, Cl. 235-160.
- Whitney, Lewis H., to Whitney Chain Co. Chain sprocket. 2,932,207, 4-12-60, Cl. 74-243.
- Whitney, Mark O. Anchor handling pivotally traversing hoist. 2,940,412, 6-14-60, Cl. 114-210.
- Whitney, Ralph H.: See—  
Mumford, George V., and Whitney. 2,953,272.
- Whitney, Ralph H., to Owens-Illinois Glass Co. Dispensing closures. 2,921,724, 1-19-60, Cl. 222-562.
- Whitney, Raymond C., to Tectron Inc. Finned recuperator tubes and method of manufacture. 2,960,746, 11-22-60, Cl. 25-156.
- Whitney, Theodore R., and A. F. Fairbanks, to North American Aviation, Inc. Infrared landing system for aircraft. 2,944,151, 7-5-60, Cl. 250-83.3.
- Whitney, Vernon L., Jr., and J. L. Weiler, to Fairchild Engine and Airplane Corp. High altitude cooling system. 2,961,847, 11-29-60, Cl. 62-263.
- Whitney, W. A., Mfg. Co.: See—  
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- Whitney, William B., to Phillips Petroleum Co. Process of preparing lubricating oil additives by oxidation of high molecular weight hydrocarbons with nitric acid. 2,934,487, 4-26-60, Cl. 208-3.
- Whitney, William B., to Phillips Petroleum Co. Lubricant additive. 2,956,953, 10-18-60, Cl. 252-55.
- Whitsel, Travis S., Jr., and C. H. Edwards, Jr., to Phillips Petroleum Co. Apparatus for pelleting powdered material. 2,921,334, 1-19-60, Cl. 18-1.
- Whitso, Inc.: See—  
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- Whitson, Mrs. Clare H.: See—  
Whitson, John W. 2,964,239.
- Whitson, James, and Co. Ltd.: See—  
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- Whitson, John W.,  $\frac{1}{2}$  to Mrs. C. H. Whitson. Duplicating punch apparatus. 2,964,239, 12-13-60, Cl. 234-79.
- Whittall, Joseph A., and M. F. Barnes. Cranes. 2,924,428, 2-9-60, Cl. 254-93.
- Whitted, John B., to Whitso, Inc. Method of positioning inserts and machine therefor. 2,920,740, 1-12-60, Cl. 198-33.
- Whitted, John B., to Whitso, Inc. Shoe heel and lift construction. 2,923,071, 2-2-60, Cl. 36-36.
- Whitteker, Walter C.: See—  
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- Whittemore, Harold E., to Armstrong Cork Co. Volumetric feeder. 2,925,203, 2-16-60, Cl. 222-227.
- Whittenberger, Robert T., to United States of America. Agriculture. High viscosity plant cell suspensions. 2,929,720, 3-22-60, Cl. 99-105.
- Whittier, Carl H., to General Communication Co. Dials. 2,931,333, 4-5-60, Cl. 116-129.
- Whittier, Sidney B., to Polaroid Corp. Camera shutter mechanism. 2,966,102, 12-27-60, Cl. 95-11.5.
- Whittington, Kenneth W. H.: See—  
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- Whittle, Frank. Well drilling system. 2,937,007, 5-17-60, Cl. 255-4.
- Whittle, Frank. High-speed turbo-drill with reduction gearing. 2,937,008, 5-17-60, Cl. 255-4.
- Whittle, Paul S. Guard for the cutting edges of nail clipper and the like. 2,960,766, 11-22-60, Cl. 30-28.
- Whittle, Paul S., to Alabama Trailer Co. Device for indicating looseness in a vehicle wheel. 2,961,646, 11-22-60, Cl. 340-269.
- Whittle, Robert L.: See—  
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Poylo, Michael C., and Whittle. 2,947,978.
- Whittlesey, Welsh C., II, S. Jones, and F. W. Lewis, to United States of America, Army. Resilient keeper unit for hook and eye type fasteners. 2,942,310, 6-28-60, Cl. 20-92.4.
- Whittum, Warren C., to Farrel-Birmingham Co., Inc. Calendar or like device. 2,965,920, 12-27-60, Cl. 18-2.
- Whittum, Warren C., and D. W. MacLeod, to Farrel-Birmingham Co., Inc. Door structure for rubber mixers and the like. 2,939,616, 6-17-60, Cl. 222-512.
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- Whitworth, Fairchild, to The Sprague Meter Co. Three chamber meter. 2,932,198, 4-12-60, Cl. 73-267.
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- Wholorange Corp.: See—  
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- Whyte, Fred. Feeding and registration of sheets to printing and like machines. 2,939,703, 6-7-60, Cl. 271-53.
- Whyte, George, to R. L. Brown. Fastener. 2,933,791, 4-26-60, Cl. 24-73.
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- Wick, Richard, and F. Biedermann, to AGFA Aktiengesellschaft. Exposure regulating device. 2,933,011, 4-19-60, Cl. 88-24.
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- Wicke, Warner C., to United States of America, Navy. Method of making electronic tube grid. 2,962,429, 11-29-60, Cl. 204-143.
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- Wicker, Thomas H., Jr., and N. H. Shearer, Jr., to Eastman Kodak Co. Method of repelling rodents comprising applying a member of the group consisting of an ethylene dinitrile and ethylene dicarboxylic acid esters. 2,933,429, 4-19-60, Cl. 167-46.
- Wicker, Thomas H., Jr., M. A. McCall, and R. L. McConnell, to Eastman Kodak Co. Process for preparing substituted dialkyl nitroalkyl phosphates and thiophosphates. 2,964,528, 12-13-60, Cl. 260-294.8.
- Wickerham, Lynferd J.: See—  
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- Wickerham, Warren E., to Gulf Research & Development Co. Magnitude and integral recorder. 2,960,378, 11-15-60, Cl. 346-49.
- Wickerham, William R., to Westinghouse Electric Corp. Motor control apparatus. 2,922,096, 1-19-60, Cl. 318-207.
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- Wicklund, Birger J., to Aktiebolaget Separator. Centrifugal separator. 2,953,462, 11-1-60, Cl. 233-45.
- Wicklund, Harold P., to International Business Machines Corp. Transport apparatus. 2,953,822, 10-11-60, Cl. 271-50.
- Wickman, Axel C. Variable speed power transmission mechanisms. 2,959,984, 11-15-60, Cl. 74-638.
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- Wiczor, Sol B. Method and composition of preparing lead alkyl compounds. 2,960,515, 11-15-60, Cl. 260-437.
- Widakowich, Marius. Transistor inverters for feeding fluorescent tubes. 2,928,994, 3-15-60, Cl. 315-205.
- Widemann, Geo., Brewing Co., The: See—  
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- Wideroe, Rolf, to Aktiengesellschaft Brown, Boveri & Cie. Electron beam lens. 2,952,791, 9-13-60, Cl. 313-84.
- Widgen, Albert F., to American Machine and Metals, Inc. Washing machine door. 2,949,208, 8-16-60, Cl. 220-41.
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- Widmer, Gustav, to Ciba Ltd. Unsaturated ethers of aminotriazine formaldehyde condensation products and oxidative drying compositions containing such ethers. 2,953,536, 9-20-60, Cl. 260-21.
- Widmer, Gustav, and P. Zuppinger, to Ciba Ltd. Reaction product of a compound capable of reacting with hydroxyl groups, with an etherification product of a polyglycidyl ether and process of making the same. 2,960,483, 11-15-60, Cl. 260-18.
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- Widoff, Albert, and D. R. Powers, to Alden Sundries, Inc. Hair treating method and apparatus. 2,957,480, 10-25-60, Cl. 132-7.
- Wiebelhaus, Ralph F., and W. F. Mohr. Crop gathering device. 2,946,424, 7-26-60, Cl. 198-7.
- Wieben, Harold. Hitch for vehicles. 2,954,242, 9-27-60, Cl. 280-482.
- Wieboldt, Elmer F. Orchid cultivation device and method of cultivating orchids. 2,956,370, 10-18-60, Cl. 47-1.2.
- Wieczorek, Eugene E., and R. M. Cox, to In-sink-Erator Mfg. Co. Control device for disposal unit-programmed switch. 2,961,172, 11-22-60, Cl. 241-32.5.
- Wiedemann, Claus M. Method and apparatus for preserving the contents of pervious containers. 2,943,940, 7-5-60, Cl. 99-48.
- Wiedemann, Erwin, to Sandoz Ltd. Apparatus for the automatic operation of three-phase ultra-centrifuge driving motors. 2,940,029, 6-7-60, Cl. 318-231.
- Wiederhold, Harold C., to Empire Works. Furniture leg adapter. 2,965,426, 12-20-60, Cl. 311-109.
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- Wiederkehr, Karl P., to Allis-Chalmers Mfg. Co. Transformer tank bracing. 2,941,171, 6-14-60, Cl. 336-92.
- Wiedmann, Ludwig, to I-T-E Circuit Breaker Co. Combination clutch-brake. 2,941,640, 6-21-60, Cl. 192-18.
- Wiedmann, Ludwig, to I-T-E Circuit Breaker Co. Clutch device. 2,942,710, 6-28-60, Cl. 192-84.
- Wiedmann, Ludwig, to I-T-E Circuit Breaker Co. Electromagnetic clutch with automatically adjustable air gap. 2,945,573, 7-19-60, Cl. 192-84.
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- Wiedmann, Richard, to The Lunkenheimer Co. Method of making plastic laminated core boxes and patterns. 2,947,046, 8-2-60, Cl. 22-195.
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- Wiegand, Christian, and W. Wirth. Certain 1-alkenyl benzimidazoles. 2,965,648, 12-20-60, Cl. 260-309.2.
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- Ripley, Duane L. 2,924,693.
- Thomson, William L. 2,924,697.
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- Wiegel, Louis A., to Pick-in-Itig Inc. Fruit picking apparatus. 2,953,229, 9-20-60, Cl. 193-7.
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- Wiegert, Philip E., to Mallinckrodt Chemical Works. Iodobenzole acid derivatives. 2,939,881, 6-7-60, Cl. 260-519.
- Wiegert, Philip E., and R. D. Rands, Jr., to Mallinckrodt Chemical Works. Organic compounds. 2,963,474, 12-6-60, Cl. 260-211.
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- Wiener, Eino H. Can piercing devices. 2,949,668, 8-23-60, Cl. 30-6.1.
- Wienands, Hermann, to Mannesmann Aktiengesellschaft. Method for boring wells. 2,928,468, 3-15-60, Cl. 166-46.
- Wiener, George W., to Westinghouse Electric Corp. Method of heat treating silicon steel. 2,965,526, 12-20-60, Cl. 148-111.
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- Nelson, Alfred M., Stern, and Wiener. 2,936,169.
- Wiener, Murray: See—  
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- Wiener, Siegfert. Removable plug lock means. 2,922,298, 1-26-60, Cl. 70-367.
- Wiener, Warren A.: See—  
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- Wiener, Warren A., to United States of America, Air Force. Means for automatic target-limitation of a target seeking scanner. 2,964,629, 12-13-60, Cl. 250-83.3.
- Wienert, Fritz O. Rotary kilns. 2,941,791, 6-21-60, Cl. 263-33.
- Wier, Arthur H., to Center Master Corp. Drill press attachment. 2,950,638, 8-30-60, Cl. 77-55.
- Wier, Harvey J., Sr. Fish snare. 2,942,372, 6-28-60, Cl. 43-15.
- Wier, Joseph M., to Bell Telephone Laboratories, Inc. Transistor multivibrator frequency control. 2,929,030, 3-15-60, Cl. 331-113.
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- Wier, Robert, Jr., to The Firestone Tire & Rubber Co. Roll for cleaning continuous strip material. 2,929,088, 3-22-60, Cl. 15-230.
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- Wiese, Herbert K.: See—  
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- Wieselman, Irving L., and G. W. Brown, to Paramount Pictures Corp. Cryptography system. 2,961,482, 11-22-60, Cl. 178-5.1.
- Wieser, Friedrich, to Hytakos Aktiengesellschaft. Machine for the manufacture of shape-retaining pressings, in particular pads. 2,940,131, 6-14-60, Cl. 19-144.5.
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- Wiesmann, Joseph W., to H. H. Robertson Co. Building and combination air and wire distributing structure. 2,931,213, 4-5-60, Cl. 72-16.
- Wiesmann, Joseph W., to H. H. Robertson Co. Wire distributing apparatus. 2,931,533, 4-5-60, Cl. 220-3.4.
- Wiesmann, Joseph W., to H. H. Robertson Co. Building and combination air and wire distributing structure. 2,946,413, 7-26-60, Cl. 189-34.
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- Wiesner, George L., to American Cyanamid Co. Safety valve venting system for diphenylamine process. 2,943,111, 6-28-60, Cl. 260-576.
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- Wigert, John W., and C. F. Scholz, to Westinghouse Electric Corp. Transformers with molded containers. 2,930,011, 3-22-60, Cl. 336-96.
- Wigermann, Georg,  $\frac{1}{2}$  to W. Reiners. Diaphragm pump for non-lubricating and chemically aggressive liquids. 2,919,650, 1-5-60, Cl. 103-44.
- Wigermann, Georg,  $\frac{1}{2}$  to W. Reiners. Rotary slide valves for hydraulic piston machines. 2,944,529, 7-12-60, Cl. 121-62.
- Wigermann, Georg,  $\frac{1}{2}$  to W. Reiners. Mechanical power converter of variable transmission ratio. 2,962,915, 12-6-60, Cl. 74-687.
- Wigermann, Georg,  $\frac{1}{2}$  to W. Reiners. Rotary slide valves in hydraulic machines of the rotating cylinder type. 2,963,982, 12-13-60, Cl. 103-162.
- Wigermann, Georg,  $\frac{1}{2}$  to W. Reiners. Device for reducing noise in multi-cylinder piston machines. 2,963,983, 12-13-60, Cl. 103-162.
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- Fleck, Raymond N., and Wight. 2,935,467.
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- Wigner, Eugene P., to United States of America, Atomic Energy Commission. Neutronic reactor. 2,954,335, 9-27-60, Cl. 204-193.2.
- Wigner, Eugene P., to United States of America, Atomic Energy Commission. Neutronic reactors. 2,961,392, 11-22-60, Cl. 204-193.2.
- Wigner, Eugene P., and E. C. Creutz, to United States of America, Atomic Energy Commission. Cooled neutronic reactor. 2,928,781, 3-15-60, Cl. 204-193.2.
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- Wilckens, Eibe, W. C. Rainer, J. G. Germak, J. P. Hamilton, and E. M. Redding, to Crown Cork & Seal Co., Inc. Liquid plastic lining machine. 2,937,404, 5-24-60, Cl. 18-20.
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- Wilcoxon, Kenneth H., to American Machine & Foundry Co. Swimming and underwater viewing apparatus. 2,926,365, 3-1-60, Cl. 9-313.
- Wilcoxon, Kenneth H., to United States of America, Navy. Self-propelled remotely controlled buoy. 2,941,492, 6-21-60, Cl. 114-21.



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- Wildhaber, Ernest. Gearing. 2,930,248, 3-29-60, Cl. 74-459.5.
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- Wilhelm, Frederic D. Amusement and exercising device. 2,935,815, 5-10-60, Cl. 46-51.
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- Wilkalis, Joseph M., to Plax Corp. Bottle lining process and apparatus. 2,932,560, 9-13-60, Cl. 117-46.
- Wilkalis, Joseph M., and W. H. Peiler, to Plax Corp. Blow molding of hollow plastic ware. 2,936,481, 5-17-60, Cl. 18-5.
- Wilke, Gunther, to Studiengesellschaft Kohle m.b.H. New cyclododecatri-(1,5,9)-enes and a process for the production thereof concurrently with other cyclic hydrocarbons. 2,964,574, 12-13-60, Cl. 260-666.
- Wilke, Herbert F. Impact driver for well points and the like. 2,927,773, 3-8-60, Cl. 255-5.
- Wilke, Milton E.: *See*—  
Warren, Robert A., Wilke, and Coleman. 2,934,584.
- Wilkening Mfg. Co.: *See*—  
Braendel, Helmuth G. 2,963,423.
- Wilkening, Walter C., to John Mohr & Sons. Flexible gas seal for a blast furnace. 2,954,884, 10-4-60, Cl. 214-36.
- Wilkenloh, Wilhelm, and E. Jager, to Rheinstahl Wanheim Gesellschaft mit beschränkter Haftung. Pump means for hydraulic jacks. 2,954,740, 10-4-60, Cl. 103-196.
- Wilkins, Bernard. Plastic ring for blousing of trouser legs. 2,962,722, 12-6-60, Cl. 2-232.
- Wilkins, n Corp.: *See*—  
Wilkinson, Dewey L. 2,921,649.
- Wilkinson, Dewey L., to Wilkinson Corp. Air line oiler. 2,921,649, 1-19-60, Cl. 184-55.
- Wilkinson, Edward D. Device and method for cutting the front wheels of automobiles while performing front-end operations. 2,928,291, 3-15-60, Cl. 74-494.
- Wilkinson, Edward D. Archery bow. 2,957,469, 10-25-60, Cl. 124-24.
- Wilkinson, Edward D. Headlight testing apparatus and method. 2,958,134, 11-1-60, Cl. 33-46.
- Wilkinson, Jefferson R.: *See*—  
Aylward, William R., and Wilkinson. 2,930,027.
- Wilkinson, Max. Bird cage with conveyor type disposable floor. 2,938,496, 5-31-60, Cl. 119-17.
- Wilkes, Edward G. M., and P. W. Ray, to General Motors Corp. Indicators of variable values. 2,951,462, 9-6-60, Cl. 116-116.
- Wilkes, Gordon B., Jr., to General Electric Co. Positioning device. 2,929,546, 3-22-60, Cl. 230-114.
- Wilkes, John B., to California Research Corp. Activation of hydrogenation catalysts. 2,941,954, 6-21-60, Cl. 252-416.
- Wilkesmann, Gunter, to E. M. Scheidt. Carpet looms. 2,934,805, 10-4-60, Cl. 139-80.
- Wilkie, Stanley A. Drapery hooks. 2,946,107, 7-26-60, Cl. 24-86.
- Wilkie, Wallace J., to Jervis Corp. Release mechanism for ordnance apparatus and the like. 2,922,340, 1-26-60, Cl. 89-15.
- Wilkin, George D.: *See*—  
Anslow, Winston K., and Wilkin. 2,948,660.
- Wilkin, George R. Air-charged hydraulic unloader. 2,928,560, 3-15-60, Cl. 214-75.
- Wilkin, Lester A.: *See*—  
Bodley, Robert W., Ulm, and Wilkin. 2,948,432.
- Wilkins, Colbert W., to Owens-Illinois Glass Co. Cleavable release coating. 2,926,829, 3-1-60, Cl. 229-3.5.
- Wilkins, John, & Co. Ltd.: *See*—  
Penn, Alexander. 2,937,766.
- Wilkins, John D., to Olin Mathieson Chemical Corp. Heat exchanger. 2,924,437, 2-9-60, Cl. 257-130.
- Wilkins, John R. Charcoal retort. 2,941,927, 6-21-60, Cl. 202-98.
- Wilkins, Leon J., to Lockheed Aircraft Corp. Corner clamp. 2,953,174, 9-20-60, Cl. 144-290.
- Wilkins, Paul M., to Socony Mobil Oil Company, Inc. Method of reducing heat exchanger fouling. 2,953,514, 9-20-60, Cl. 208-95.
- Wilkins, Richard A., to Revere Copper and Brass Inc. Casting apparatus and method. 2,950,512, 8-30-60, Cl. 22-57.2.
- Wilkins, Robert E.: *See*—  
Woo, Way D., and Wilkins. 2,962,339.
- Wilkinson, Alvin H., to Cabot Shops, Inc. Oil well hoist. 2,954,131, 9-27-60, Cl. 214-2.5.
- Wilkinson, Alvin H., and W. G. Newhouse, to Cabot Shops, Inc. Telescopic derrick and locking means therefor. 2,923,381, 2-2-60, Cl. 189-14.
- Wilkinson, Clarence E., to Texaco Inc. Asphaltic compositions. 2,923,639, 2-2-60, Cl. 106-282.
- Wilkinson, Clarence E., to Texaco Inc. Coating compositions and coated structures. 2,939,794, 6-7-60, Cl. 106-15.
- Wilkinson, Clarence E., to Texaco Inc. Method for the preservation of wooden structures. 2,965,516, 12-20-60, Cl. 117-136.
- Wilkinson Chutes, Inc.: *See*—  
Marton, Andrew. 2,922,203.
- Wilkinson, Clinton A.: *See*—  
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- Wilkinson, Donald S.: *See*—  
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- Wilkinson, Estel W. Lead pointer. 2,926,633, 3-1-60, Cl. 120-96.
- Wilkinson, Herbert F.: *See*—  
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- Wilkinson, John R., to International Harvester Co. Hydraulically actuated scraper bowl lifting mechanism. 2,931,112, 4-5-60, Cl. 37-126.
- Wilkinson, John R., to International Harvester Co. Door opening mechanism for bottom dump vehicles. 2,943,886, 7-5-60, Cl. 298-35.
- Wilkinson, Joseph M.: *See*—  
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- Wilkinson Mfg. Co.: *See*—  
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- Wilkinson, Samuel C. W., to Crane Packing Ltd. Joining of elements composed of plastic materials. 2,963,394, 12-6-60, Cl. 154-116.
- Wilkins n Sword Ltd.: *See*—  
Cole, Eric L. 2,939,925.  
Glendinning, William G. 2,921,897.
- Wilkins, Jim P.: *See*—  
Trice, William L. 2,945,717.
- Wilkins, Jim P. Double action lock for caskets. 2,945,281, 7-19-60, Cl. 27-17.
- Wilkoft, Arthur E., to Youngstown Steel Car Corp. Lading anchor pins for vehicles. 2,939,406, 6-7-60, Cl. 105-369.
- Wilks, Louis P.: *See*—  
Trademan, Leo, Malina, and Wilks. 2,927,882.
- Will, Theodore, to Fund-Del, Inc. Book matches. 2,933,181, 4-19-60, Cl. 206-29.
- Will, Theodore, to Fund-Del Inc. Snap-up book match folders. 2,935,185, 5-3-60, Cl. 206-29.
- Willard, Frank E. Selective sequence timer. 2,928,911, 3-15-60, Cl. 200-38.
- Willard, Joe R., and J. F. Henahan, to Food Machinery and Chemical Corp. Pesticidal phosphorus esters. 2,928,862, 3-15-60, Cl. 260-461.
- Willard, Joe R., and J. F. Henahan, to Food Machinery and Chemical Corp. Pesticidal phosphorus esters. 2,941,920, 6-21-60, Cl. 167-22.
- Willard, John G.: *See*—  
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- Willard, Paul V., 1/2 to C. Thordson, and 1/2 to D. W. Barrows. Car top holding device. 2,940,652, 6-14-60, Cl. 224-42.1.
- Wille, Eduard, to Wille. Control for motor driven nut tightener. 2,951,389, 9-6-60, Cl. 74-337.
- Willems, Ebertus: *See*—  
Van Overbeek, Adrianus J. W. M., Willems, and Van Lottum. 2,935,623.
- Willems, Ebertus, and E. Netten, to North American Philips Co., Inc. Circuit arrangement comprising a phototransistor. 2,948,815, 8-9-60, Cl. 250-211.
- Willene, Joseph M., to Borg-Warner Corp. Clutch release lever. 2,947,398, 8-2-60, Cl. 192-99.
- Willersinn, Hans: *See*—  
Brandes, Adolf, Christmann, and Willersinn. 2,963,738.
- Willet, Howard D., to Crown Zellerbach Corp. Method for erecting boxes. 2,925,020, 2-16-60, Cl. 93-36.
- Willet, Richard M., to Iowa State College Research Foundation, Inc. Sweep circuit. 2,923,837, 2-2-60, Cl. 307-88.5.
- Willet, Merton J., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,955,435, 10-11-60, Cl. 62-161.
- Willetts, Elwood H. Tandem axle torsional suspension for vehicles. 2,951,710, 9-6-60, Cl. 280-104.5.
- Willey, Alfred, Jr. Valve wheel wrench. 2,920,517, 1-12-60, Cl. 81-90.
- Willey, Clarence F. Scoring device and method. 2,936,532, 5-17-60, Cl. 35-48.
- Willey, Claude W. Fishing rod holder. 2,961,209, 11-22-60, Cl. 248-41.
- Willey, Frank G., to Servo Corp. of America. Interlaced optical scanning means. 2,929,293, 3-22-60, Cl. 88-1.
- Willey, Lowell A., to Aluminium Co. of America. Method of relieving residual stresses in light metal articles. 2,949,392, 8-16-60, Cl. 148-125.
- Willhoft, Loren: *See*—  
Voss, Otto J., and Willhoft. 2,925,293.
- Willi, Richard B., to Baldwin-Lima-Hamilton Corp. Controllable pitch propeller. 2,925,131, 2-16-60, Cl. 170-160.32.
- William, Mrs. Lorelle M.: *See*—  
Miller, Harry J. 2,943,385.
- Williams, Albert J., Jr., to Leeds and Northrup Co. High-fidelity wide-band amplifier. 2,934,709, 4-26-60, Cl. 330-9.
- Williams, Alan E., to Massey-Ferguson Inc. Hitch for trailed implements. 2,935,146, 5-3-60, Cl. 172-317.
- Williams, Alan V.: *See*—  
Kesterton, Arthur J., and Williams. 2,965,370.
- Williams, Alexander W., R. H. Beckman, and D. E. Mook, to The Borden Co. Milk product. 2,966,409, 12-27-60, Cl. 99-56.
- Williams, Allison R.: *See*—  
Reswick, James B., and Williams. 2,920,924.
- Williams, Ardell C.: *See*—  
Mahmeister, James E., Peck, Haberer, and Williams. 2,929,768.
- Williams, Arthur. Roll-on applicator. 2,937,392, 5-24-60, Cl. 15-132.7.
- Williams, Arthur T.: *See*—  
Tidland, Charles R. 2,950,071.
- Williams, Arthur T., and C. R. Tidland. Positioning control means for web stripping device. 2,919,673, 1-5-60, Cl. 118-8.



- Williams, Beverly E., to Hodges Research and Development Co. Method of tendering and flavoring meat. 2,926,089, 2-23-60, Cl. 99-107.
- Williams, Beverly E., to Hodges Research and Development Co. Method of tendering and flavoring meat. 2,926,090, 2-23-60, Cl. 99-107.
- Williams, Beverly E., to Hodges Research and Development Co. Dehydro-packaging of fresh meats. 2,930,704, 3-20-60, Cl. 99-174.
- Williams, Beverly E., to Chas. Pfizer & Co., Inc. Process for treating fresh meats. 2,942,986, 6-28-60, Cl. 99-174.
- Williams, Beverly E., to Hodges Research and Development Co. Electric cooking device. 2,951,434, 9-6-60, Cl. 99-337.
- Williams, Beverly E., to Hodges Research and Development Co. Preservative treatment of vegetable produce. 2,955,940, 10-11-60, Cl. 99-154.
- Williams, Beverly E., to Hodges Research and Development Co. Processes for improving the flavor of meats. 2,961,321, 11-22-60, Cl. 99-107.
- Williams, Beverly E., to Hodges Research and Development Co. Process for the preservation of meats. 2,965,494, 12-20-60, Cl. 99-157.
- Williams, Byron. Loading semi-trailers on railway cars. 2,920,580, 1-12-60, Cl. 104-29.
- Williams, Byron L., Jr.: *See*—  
Culbertson, Harry M., and Williams. 2,957,835.  
Culbertson, Harry M., and Williams. 2,957,836.
- Williams, Byron L., Jr., to Monsanto Chemical Co. Preparation of melamine. 2,959,588, 11-8-60, Cl. 260-249.7.
- Williams, C. K., & Co.: *See*—  
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- Williams, Calvin C. Steam engine. 2,943,608, 7-5-60, Cl. 121-132.
- Williams, Carl F., to The Dow Chemical Co. Flotation process. 2,923,408, 2-2-60, Cl. 209-166.
- Williams, Charles B.: *See*—  
Magill, Donald G., Jr., and Williams. 2,960,559.
- Williams, Charles E.: *See*—  
Jenkins, Henry G., and Williams. 2,965,778.  
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Tyrwhitt, Norman H., and Williams. 2,934,742.
- Williams, Charles F.: *See*—  
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- Williams, Charles J., to Unicorn Engineering Corp. Air cushion for photographic processing machine. 2,919,706, 1-5-60, Cl. 134-122.
- Williams, Charles R.: *See*—  
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Sonnabend, Lawrence F., and Williams. 2,947,648.
- Williams, Charles R., to Monsanto Chemical Co. Treated fabrics. 2,959,497, 11-8-60, Cl. 117-138.8.
- Williams, Charlton H., and B. C. Cole; said Cole assor. to said Williams. Weighting unit for fiber attenuating apparatus. 2,924,855, 2-16-60, Cl. 19-136.
- Williams, Cledwyn: *See*—  
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- Williams, Chester I. Flexible socket. 2,962,789, 12-6-60, Cl. 25-131.
- Williams, Clifford C. Water pump unit. 2,954,742, 10-4-60, Cl. 103-260.
- Williams, Clifford W., to International Business Machines Corp. Pulse sensing system. 2,966,595, 12-27-60, Cl. 307-88.
- Williams, Clifford W., W. C. Seelbach, and A. M. Dumas, to International Business Machines Corp. Magnetic materials testing system. 2,934,696, 4-26-60, Cl. 324-34.
- Williams, David, and B. Greene, to United States of America, Army. Method of making an electronic components package. 2,934,814, 5-3-60, Cl. 29-155.5.
- Williams, David B.: *See*—  
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- Williams, David G.: *See*—  
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- Williams, David P., Sr., eighty-three and one-half hundredths (83½) to J. E. Morris. Exhaust gas purifier. 2,956,865, 10-18-60, Cl. 23-284.
- Williams, Dean N.: *See*—  
Jaffee, Robert I., Schwartzberg, and Williams. 2,940,845.
- Williams, De Wayne M., to Safety Socket Screw Co. Threaded fastener means including malleable withdrawable lock washer. 2,923,340, 2-2-60, Cl. 151-44.
- Williams, Don E., to Butler Mfg. Co. Cutout attachment for advertising signs. 2,938,289, 5-31-60, Cl. 40-125.
- Williams, Donald D., to Hughes Aircraft Co. Radar blind landing indicator. 2,949,604, 8-16-60, Cl. 343-14.
- Williams, Donald D., to Hughes Aircraft Co. Integrating accelerometer. 2,949,780, 8-23-60, Cl. 73-504.
- Williams, Earl P.: *See*—  
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Chiddix, Max B., and Williams. 2,946,824.  
Mayhew, Raymond L., and Williams. 2,955,137.
- Williams, Earl P., and R. L. Mayhew, to General Aniline & Film Corp. Fungicides for chlorophyllaceous plants. 2,920,995, 1-12-60, Cl. 167-30.
- Williams, Earl P., and R. L. Mayhew, to General Aniline & Film Corp. Nematode control. 2,922,740, 1-26-60, Cl. 167-22.
- Williams, Earl P. and R. L. Mayhew, to General Aniline & Film Corp. Addition products of N-alkyl-γ-hydroxycarboxylic acid amides and alkanolamines. 2,923,733, 2-2-60, Cl. 260-561.
- Williams, Edward B., Jr., ½ each to E. B. Williams III, J. W. and D. B. Williams. Drill bit. 2,953,354, 9-20-60, Cl. 255-61.
- Williams, Edward B., III: *See*—  
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- Williams, Estel G. Auxiliary ladder step. 2,934,162, 4-26-60, Cl. 182-120.
- Williams, Ferd E., to General Electric Co. Color information presentation system. 2,928,975, 3-15-60, Cl. 313-108.
- Williams, Ferd E., to General Electric Co. Color information presentation system. 2,928,980, 3-15-60, Cl. 315-10.
- Williams, Forrest V.: *See*—  
Ruehrwein, Robert A., and Williams. 2,966,424.
- Williams, Forrest V., to Monsanto Chemical Co. Silver halide dispersions. 2,957,767, 10-25-60, Cl. 96-114.
- Williams, Forrest V., and R. A. Ruehrwein, to Monsanto Chemical Co. Process for the production of boron phosphide. 2,966,426, 12-27-60, Cl. 117-106.
- Williams, Frank B., to United Aircraft Corp. Variable area exhaust nozzle control system. 2,936,581, 5-17-60, Cl. 60-35.6.
- Williams, Frank E.: *See*—  
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- Williams, Fred A. Fixture for releasably supporting radio frequency antenna. 2,924,416, 2-9-60, Cl. 248-320.
- Williams, Fred A. Meditation device. 2,946,133, 7-26-60, Cl. 35-23.
- Williams, Fred E. Tractor trailed cultivator. 2,957,530, 10-25-60, Cl. 172-256.
- Williams, Frederic C., to International Business Machines Corp. Apparatus for storing trains of pulses. 2,951,176, 8-30-60, Cl. 315-12.
- Williams, Frederic C., and T. Kilburn, to International Business Machines Corp. Electrical information storage apparatus. 2,928,983, 3-15-60, Cl. 315-20.
- Williams, Frederic C., T. Kilburn, and G. R. Hoffman, to National Research Development Corp. Electrostatic information storage. 2,932,763, 4-12-60, Cl. 315-8.5.
- Williams, Frederic C., and G. B. B. Chaplin, to National Research Development Corp. Shift register circuits. 2,937,288, 5-17-60, Cl. 307-88.5.
- Williams, Frederic C., and T. Kilburn, to International Business Machines Corp. Electrical storage apparatus. 2,948,830, 8-9-60, Cl. 315-12.
- Williams, Glynn H.: *See*—  
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- Zillman, Jack H., and Williams. 2,926,692.
- Williams, Harold H.: *See*—  
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- Williams, Harold W., to Bic Pen Corp. Plastic cartridge for containing liquid ink. 2,931,338, 4-5-60, Cl. 120-45.4.
- Williams, Harry: *See*—  
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- Williams, Harry, to Molins Machine Co. Ltd. Safety devices. 2,939,014, 5-31-60, Cl. 250-83.6.
- Williams, Harry A., and R. Alan, to Curtiss-Wright Corp. Arrangement for positioning ultrasonic probe. 2,940,305, 6-14-60, Cl. 73-67.8.
- Williams, Harry E. Coin controlled puppet apparatus. 2,924,909, 2-16-60, Cl. 46-245.
- Williams, Harry G.: *See*—  
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- Williams, Henry M., and H. M. Campbell, to Olin Mathieson Chemical Corp. Method of making plate-type heat exchanger. 2,920,380, 1-12-60, Cl. 29-157.3.
- Williams, Herbert H., Jr., and A. Ipser, said Ipser assor. to A. W. Lipes. Necktie knot simulator. 2,936,462, 5-17-60, Cl. 2-150.
- Williams, Howard F., and A. L. Minutoli, to Kestenman Bros. Mfg. Co. Bracelet linkage with detachable pivots. 2,948,110, 8-9-60, Cl. 59-79.
- Williams, Howard J., to The Bendix Corp. Fuel control system for gas turbines having separate inlet pressure and temperature compensating means in by-pass conduit. 2,954,669, 10-4-60, Cl. 60-29.28.
- Williams, Howard J., to The Bendix Corp. Control apparatus. 2,958,191, 11-1-60, Cl. 60-39.28.
- Williams, Howard J., to The Bendix Corp. Starting control for internal combustion engines. 2,958,376, 11-1-60, Cl. 158-36.4.
- Williams, Howard J., and F. R. Rogers, to The Bendix Corp. Power control system for gas turbine engines. 2,950,857, 8-30-60, Cl. 230-114.
- Williams, Howard T.: *See*—  
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- Williams, Hugh A., Jr.: *See*—  
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- Williams, Ira, to J. M. Huber Corp. Apparatus for testing materials for wear resistance. 2,929,240, 3-22-60, Cl. 73-7.
- Williams, Isaac P. Hose operated valve. 2,924,422, 2-9-60, Cl. 251-237.
- Williams, Ivan A. Punch and die assembly for making interlocking integral fasteners. 2,924,312, 2-9-60, Cl. 189-36.
- Williams, Jack, to United Kingdom Atomic Energy Authority of Patents Branch. Method of making uranium-uranium monocarbide cermet. 2,965,480, 12-20-60, Cl. 75-201.



- Williams, Jack L. R.: See—  
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- Williams, James C. Clergymen's apparel. 2,934,768, 5-3-60, Cl. 2-103.
- Williams, James D. L.: See—  
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- Williams, James M., Jr., and H. T. Montgomery. Roller cotton gin. 2,929,111, 3-22-60, Cl. 19-50.
- Williams, James T.: See—  
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- Williams, Joe C. Trash can holder. 2,937,760, 5-24-60, Cl. 211-71.
- Williams, John: See—  
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- Williams, John C.: See—  
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- Williams, John G.: See—  
To Worthington Corp. Hydrodynamic and hydrostatic bearing. 2,921,533, 1-19-60, Cl. 103-111.
- Williams, John G., to Worthington Corp. Turbo monobloc pump. 2,933,044, 4-19-60, Cl. 103-87.
- Williams, John G., to Worthington Corp. Sealed centrifugal pump. 2,960,938, 11-22-60, Cl. 103-111.
- Williams, John G., and A. A. Luoma, to Worthington Corp. Control system for a boiler feed pump driven by a turbine. 2,961,964, 11-29-60, Cl. 103-20.
- Williams, John H., to Oak Mfg. Co. Rotary switch. 2,960,581, 11-15-60, Cl. 200-11.
- Williams, John L. Wedge gate valve. 2,948,503, 8-9-60, Cl. 251-85.
- Williams, John L., and S. L. Kum. Self-adjusting wedge gate valve. 2,964,291, 12-13-60, Cl. 251-327.
- Williams, John R., and J. S. Shute, to Selas Corp. of America. Stove burner. 2,960,980, 11-22-60, Cl. 126-39.
- Williams, John S.: See—  
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- Williams, Joseph W.: See—  
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- Williams, Kenneth C.: See—  
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- Williams, Kenneth C., to Textile Machine Works. Method and apparatus for making run down patterned fabric. 2,962,881, 12-6-60, Cl. 66-50.
- Williams, Kenneth G. D., to A. H. Hunt (Capacitors) Ltd. Electrical capacitors. 2,920,375, 1-12-60, Cl. 29-25.42.
- Williams, Kenneth R.: See—  
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- Williams, Lawrence S., to Toledo Scale Corp. Weighing scale. 2,937,862, 5-24-60, Cl. 265-29.
- Williams, La Verne E., to Radiation, Inc. V antenna. 2,964,747, 12-13-60, Cl. 343-726.
- Williams, Leo C., to Miehle-Goss-Dexter, Inc. Sheet feeding apparatus. 2,936,171, 5-10-60, Cl. 271-12.
- Williams, Leo C., to Miehle-Goss-Dexter, Inc. Sheet handling apparatus. 2,957,691, 10-25-60, Cl. 271-88.
- Williams, Leonard M.: See—  
Rees, Kenneth A., Pastorek, Williams, and Herman. 2,945,799.
- Williams, Leslie T. D.: See—  
Childs, Anthony F., and Williams. 2,957,017.
- Williams, Lynn A., to Anocut Engineering Co. Control system for electrolytic grinding. 2,950,239, 8-23-60, Cl. 204-218.
- Williams, Lynn A., and W. F. Gradolph, Jr., to Anocut Engineering Co. Grinding apparatus. 2,961,394, 11-22-60, Cl. 204-218.
- Williams, Martin L. Printing machine. 2,942,544, 6-28-60, Cl. 101-269.
- Williams-McWilliams Industries, Inc.: See—  
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- Williams, Neal T.: See—  
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- Williams, Ned L. Variable valve lifter for internal combustion engines. 2,931,347, 4-5-60, Cl. 123-90.
- Williams, Norman C., to Power Brake Equipment Co. Exhaust brake system. 2,924,205, 2-9-60, Cl. 123-97.
- Williams, Norman C., to Power Brake Equipment Co. Two stroke cycle engine brake. 2,958,315, 11-1-60, Cl. 123-65.
- Williams, Paul D.: See—  
Culbertson, Robert D., Kendall, Wesenberg, and Williams. 2,939,988.
- McCullough, Jack A., Wunderlich, and Williams. 2,935,783.
- McCullough, Jack A., Wunderlich, and Williams. 2,952,789.
- Williams, Paul H.: See—  
Christian, Raymond A., Colley, Ganger, and Williams. 2,930,523.
- Williams, Paul H., A. J. Green, R. E. Schaefer, and H. A. Long, to The National Cash Register Co. Printing mechanisms. 2,935,934, 5-10-60, Cl. 101-93.
- Williams, Paul H., and A. J. Green, to The National Cash Register Co. Check aligning mechanism. 2,953,372, 9-20-60, Cl. 271-52.
- Williams, Paul H., G. B. Payne, and P. R. Van Ess, to Shell Oil Co. Epoxy aldimines. 2,953,579, 9-20-60, Cl. 260-348.
- Williams, Paul H., and W. K. Bramlage, to The National Cash Register Co. Coin ejectors. 2,954,037, 9-27-60, Cl. 183-4.
- Williams, Philip M., to Keyes Fibre Co. Molded pulp packing tray. 2,936,922, 5-17-60, Cl. 217-26.5.
- Williams, Philip S., to Jersey Production Research Co. Geophone. 2,920,308, 1-5-60, Cl. 340-17.
- Williams, Philip S., to Jersey Production Research Co. Combination drilling and testing process. 2,946,565, 7-26-60, Cl. 255-1.8.
- Williams, Ralph R. Antenna network employing a variable capacitance. 2,925,598, 2-16-60, Cl. 343-861.
- Williams, Ralph T., to General Dynamics Corp. Cable clamp. 2,932,870, 4-19-60, Cl. 24-125.
- Williams, Ray C., to Standard Car Truck Co. Stabilized spring suspension means for railway cars. 2,921,540, 1-19-60, Cl. 105-224.
- Williams, Ray C., to Standard Car Truck Co. Stabilized spring group for railway car truck. 2,948,528, 8-9-60, Cl. 267-9.
- Williams, Ray S., to Hagan Chemicals & Controls, Inc. Damping devices. 2,930,453, 3-29-60, Cl. 188-87.
- Williams, Ray S., to Hagan Chemicals and Controls Inc. Adjustable ratio rotary totalizers. 2,930,524, 3-29-60, Cl. 235-61.
- Williams, Richard A., to Philco Corp. Method for fabricating semiconductor devices. 2,930,108, 3-29-60, Cl. 29-23.3.
- Williams, Richard A., to Philco Corp. Semiconductive apparatus. 2,941,131, 6-14-60, Cl. 317-235.
- Williams, Richard A., to Philco Corp. Method for fabricating metal-semiconductor alloyed regions. 2,945,739, 7-19-60, Cl. 204-15.
- Williams, Richard B., to The Dow Chemical Co. Process for recovery of ethylene. 2,938,934, 5-31-60, Cl. 260-677.
- Williams, Richard D.: See—  
Armstrong, John W., Spears, and Williams. Re. 24,852.
- Williams, Richard E., to Minneapolis-Honeywell Regulator Co. Electric system. 2,944,193, 7-5-60, Cl. 315-241.
- Williams, Richard J., to American Metal Products Co. Sealing element for ball and socket joint. 2,932,534, 4-12-60, Cl. 287-85.
- Williams, Richard J., and R. G. Heyl, Jr., to American Metal Products Co. Vertically and horizontally adjusted seat frame. 2,921,621, 1-19-60, Cl. 155-14.
- Williams, Robert A., to Rawco Instruments, Inc. Electromagnetic switching device. 2,959,648, 11-8-60, Cl. 200-87.
- Williams, Robert D.: See—  
Abbott, Henry H., Rippere, Williams, and Williford. 2,949,506.
- Williams, Robert D., to Bell Telephone Laboratories, Inc. Coordinate switching arrangement. 2,954,440, 9-27-60, Cl. 179-22.
- Williams, Robert F.: See—  
Guentert, Louis F., Williams, and Parsons. 2,939,177.
- Williams, Robert H.: See—  
Hamilton, Lyle A., and Williams. 2,957,931.
- Williams, Robert H. Addressing machines. 2,925,031, 2-16-60, Cl. 101-132.5.
- Williams, Robert M., to National Broach & Machine Co. Method of and apparatus for internal gear shaving. 2,931,274, 4-5-60, Cl. 90-1.
- Williams, Robert M., and G. F. Baxter, to American-Marietta Co. Adhesive Resin and Chemical Division. Adhesive ingredient and process. 2,930,772, 3-29-60, Cl. 260-17.2.
- Williams, Roger B., Jr. See—  
Jackson, Donald E., and Williams. 2,932,025.
- Williams, Roger B., Jr., to Toledo Scale Corp. Electronic multiplier. 2,954,167, 9-27-60, Cl. 235-160.
- Williams, Rollie B., to Esso Research and Engineering Co. Combination analyzer-sampler. 2,955,252, 10-4-60, Cl. 324-5.
- Williams, Roy L.: See—  
Manninen, Thomas H., Lindroos, and Williams. 2,956,091.
- Williams, Russell C.: See—  
Carroll, John P., Mazzarines, Selyem, and Williams. 2,955,845.
- Williams, Russell E.: See—  
Hanks, Wesley C., Sr., and Williams. 2,941,633.
- Hanks, Wesley C., Sr., and Williams. 2,941,634.
- Williams, Russell J., to Bemis Bro. Bag Co. Bag. 2,957,394, 10-25-60, Cl. 93-35.
- Williams, Samuel B.: See—  
Borden, David M., and Williams. 2,962,206.
- Williams, Selden T., to Scovill Mfg. Co. Tubeless tire valve stem. 2,966,191, 12-27-60, Cl. 152-427.
- Williams, Sidney B.: See—  
Westcott, Vernon C., and Williams. 2,955,172.
- Williams, Sidney B., to Sprague Electric Co. Electrical components package. 2,949,182, 8-16-60, Cl. 206-65.
- Williams, Steele D. Plastic panels and apparatus and procedure for producing same. 2,960,146, 11-15-60, Cl. 154-32.
- Williams, Thomas B.: See—  
Schechter, William H., and Williams. 2,926,186.
- Williams, Victor R., and W. P. Bobbs, to Wesson Cutting Tools Ltd. Intermittent oiler. 2,965,193, 12-20-60, Cl. 184-81.
- Williams, Walter J.: See—  
De Brosse, Kenneth L., and Williams. 2,931,940.
- Williams, Walter J., and P. E. Kendall, to International Telephone and Telegraph Corp. Black body radiation source. 2,952,762, 9-13-60, Cl. 219-20.
- Williams, Walter L. Sharpener for hypodermic needles. 2,920,426, 1-12-60, Cl. 51-98.
- Williams-White & Co.: See—  
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- Williams, Wilfred, and D. Philip. Tipping skip or bucket. 2,919,948, 1-5-60, Cl. 294-73.
- Williams, William A., to T. B. Wood's Sons Co. Motion control sheave with lifetime lubrication. 2,952,161, 9-13-60, Cl. 74-230.17.
- Williams, William B., to International Minerals & Chemical Corp. Production of clarified acidic phosphatic solutions. 2,936,888, 5-17-60, Cl. 210-71.
- Williams, William B., and D. E. Tynan, to International Minerals & Chemical Corp. Defluorination of phosphoric acid. 2,962,357, 11-29-60, Cl. 23-165.
- Williams, William C., to Browne Window Mfg. Co., Inc. Window structure. 2,939,529, 6-7-60, Cl. 160-187.
- Williams, William H.: *See*
- Skinner, Lee B., Williams, and Westfield. 2,953,957.
- Williams, William J., to Rockwell-Standard Corp. Brake construction. 2,932,366, 4-12-60, Cl. 188-78.
- Williams, William J. Underspeed governor mechanism. 2,938,975, 5-31-60, Cl. 200-80.
- Williams, William L.: *See*
- Huhtanen, Charles N., and Williams. 2,962,378.
- Williams, William W.: *See*
- Garfield, Lavern F., and Williams. 2,945,476.
- Strobel, Albert E., Williams, and Wowk. 2,938,896.
- Williams, William W., and B. P. Freyermuth, to General Aniline & Film Corp. His p,p-(p-methoxy, meta-methyl benzotriazolyl) stilbene o,o'-disulfonic acid disodium salt. 2,927,866, 3-8-60, Cl. 117-33.5.
- Williams, Willis S. Golf putter handle. 2,949,304, 8-16-60, Cl. 273-81.3.
- Williams, Winston F., to Collins Radio Co. Counter display. 2,929,554, 3-22-60, Cl. 235-117.
- Williams, Winston F., to Collins Radio Co. Resetting slip clutch, torque operated. 2,938,613, 5-31-60, Cl. 192-56.
- Williams, Zelmur L. Windshield wiper. 2,925,617, 2-23-60, Cl. 15-250.4.
- Williamson, Anne O., to The Formfit Co. Brassiere. 2,920,627, 1-12-60, Cl. 128-465.
- Williamson, Archie O. G. O. Garis, and M. H. Boone, to Bros. Inc. Road roller. 2,954,088, 9-27-60, Cl. 180-20.
- Williamson, Carl S. Bait holder and dispenser. 2,948,986, 8-16-60, Cl. 43-55.
- Williamson Co., The: *See*
- Field, Jesse P. 2,963,783.
- Williamson, Corbett, to Georgia Kaolin Co. Clay mixer and blunger. 2,956,753, 10-18-60, Cl. 241-46.
- Williamson, David T. N., and H. Ogden, to National Research Development Corp. Servo-controlled drives. 2,949,742, 8-23-60, Cl. 60-97.
- Williamson, David T. N., and D. F. Walker, to Ferranti, Ltd. Servo-controlled drives. 2,951,344, 9-6-60, Cl. 60-97.
- Williamson, Floyd M. Hydraulic cushion for a press. 2,924,446, 2-9-60, Cl. 267-1.
- Williamson, Floyd M. Air pressure intensifier for hydraulically operated pressure pads. 2,933,307, 4-19-60, Cl. 267-1.
- Williamson, Floyd M. Gauge retainers. 2,935,292, 5-3-60, Cl. 251-285.
- Williamson, Floyd M. Hydraulic cushion for the die pad of a ram type press. 2,938,718, 5-31-60, Cl. 267-1.
- Williamson, Floyd M. Hydraulic cushions for die pads of ram type presses. 2,954,068, 9-27-60, Cl. 153-76.
- Williamson, Hilding V., to Chemetron Corp. Carbon dioxide discharge device. 2,966,039, 12-27-60, Cl. 62-52.
- Williamson, James, to National Research Development Corp. Salt complexes of 3:3'-ureido-bis-(8-(3-benzamido-p-toluidino)-1:3:5-naphthalene sulphonic acid). 2,945,847, 7-19-60, Cl. 260-96.5.
- Williamson, John, L. R. Klepper, and L. Brink, to National Distillers and Chemical Corp. Packing and dispensing means for plastic film. 2,965,272, 12-20-60, Cl. 225-48.
- Williamson, John E., to Union Corp. Ltd. Electrically operated grinding mills. 2,952,414, 9-13-60, Cl. 241-30.
- Williamson, John M., and G. C. Bogart, to Kordite Corp. Method of packing and a packing and dispensing unit for garment bags. 2,925,175, 2-16-60, Cl. 206-65.
- Williamson, Marshall I., to Federal Paper Board Co., Inc. Multicellular folding boxes. 2,944,718, 7-12-60, Cl. 229-28.
- Williamson, Marshall I., to Federal Paper Board Co., Inc. Multicellular folding box structures. 2,946,436, 7-26-60, Cl. 206-65.
- Williamson, Marshall I., to Federal Paper Board Co., Inc. Multicellular folding box structures. 2,946,498, 7-26-60, Cl. 229-28.
- Williamson, Marshall I., to Federal Paper Board Co., Inc. Handle for multicellular folding boxes. 2,946,501, 7-26-60, Cl. 229-52.
- Williamson, Marshall I., to Federal Paper Board Co., Inc. Single can carrier. 2,946,620, 7-26-60, Cl. 294-87.2.
- Williamson, Marshall I., to Federal Paper Board Co., Inc. Two can carrier. 2,946,621, 7-26-60, Cl. 294-87.2.
- Williamson, Marshall I. Method and device for converting a flat blank into a cellular structure. 2,960,014, 11-15-60, Cl. 93-37.
- Williamson, Norman B., to Jarman-Williamson Co. Linkage for parallel motion. 2,936,182, 5-10-60, Cl. 280-41.
- Williamson, Reginald M.: *See*
- Storm, John F., and Williamson. 2,940,311.
- Williamson, Richard H., to International Telephone and Telegraph Corp. Decade counting device. 2,936,955, 5-17-60, Cl. 235-132.
- Williamson, Robert M.: *See*
- Reeves, John P. 2,962,978.
- Williamson, Robert W.,  $\frac{1}{4}$  to O. D. Herron,  $\frac{1}{4}$  to J. H. Zimmers, and  $\frac{1}{4}$  to D. A. Hunter. Clamp. 2,941,432, 6-21-60, Cl. 81-17.2.
- Williamson, Robert W.,  $\frac{1}{4}$  to O. D. Herron and  $\frac{1}{4}$  to D. A. Hunter. Hydraulic stop device. 2,965,074, 12-20-60, Cl. 121-38.
- Williamson, Ruth B., and G. W. Rienks. Device usable as cradle or carriage. 2,957,186, 10-25-60, Cl. 5-101.
- Williamson, T. D., Inc.: *See*
- Ver Nooy, Burton. 2,932,837.
- Ver Nooy, Burton. 2,941,427.
- Ver Nooy, Burton. 2,951,255.
- Williamson, William R., to American Machine & Foundry Co., Inc. Apparatus for distilling sea water. 2,960,449, 11-15-60, Cl. 202-163.
- Williford, Jacob V., Jr., to Lido Land Co. Electric motor. 2,939,025, 5-31-60, Cl. 310-261.
- Williford, Oscar H.: *See*
- Abbott, Henry H., Rippere, Williams, and Williford. 2,949,506.
- Willinger, Allan H. Under gravel filter device. 2,935,199, 5-3-60, Cl. 210-169.
- Willingham, John R. Hole enlarging and finishing tool. Re. 2,4769, 1-19-60, Cl. 77-58.
- Willis, Claude E. F., to R. W. Crabtree & Sons Ltd. Web supply mechanism. 2,941,742, 6-21-60, Cl. 242-58.
- Willis, Clifford E., R. J. McWeeney, and C. H. Nichols, Jr., to Cleveland Pneumatic Industries, Inc. Servo actuator adapted to be operated by a plurality of control signals. 2,943,606, 7-5-60, Cl. 121-21.
- Willis, Delbert E., to Mack Trucks, Inc. Pre-balk synchronizer. 2,930,462, 3-29-60, Cl. 192-53.
- Willis, Eldredge. Water flow-regulating valve for a heat pump. 2,944,408, 7-12-60, Cl. 62-160.
- Willis, Grant N.: *See*
- Logan, James E., Russell, and Willis. 2,923,438.
- Woodward, Bernard, Jr., and Willis. 2,959,126.
- Woodward, Bernard, Jr., Willis, Small, and Schuchard. 2,965,028.
- Willis, Grant N., and F. A. Clary, Jr., to A. J. Mitchell Co. Button feeding attachment for sewing machines. 2,921,544, 1-19-60, Cl. 112-113.
- Willis, Grant N., to United-Carr Fastener Corp. Coded-card reader. 2,941,054, 6-14-60, Cl. 200-46.
- Willis, Grant N., L. H. Secombe, Jr., and I. Y. Lake, to United-Carr Fastener Corp. Machine for automatically assembling contacts in subminiature sockets. 2,961,753, 11-29-60, Cl. 29-206.
- Willis, John, to The English Electric Co. Ltd. Electrical protective relay systems. 2,953,722, 9-20-60, Cl. 317-36.
- Willis, John G., to International Standard Electric Corp. Carrier wave modulators and demodulators. 2,943,271, 6-28-60, Cl. 332-31.
- Willis Oil Tool Co.: *See*
- Willis, Robert S. 2,927,603.
- Willis, Robert J., and C. J. McGraw, to The Plas-Tex Corp. Reinforced molded container of flexible material. 2,950,032, 8-23-60, Cl. 222-465.
- Willis, Robert S., 97  $\frac{1}{2}$  % to Willis Oil Tool Co., and 2  $\frac{1}{2}$  % to E. L. Decker. Shut-off valve assembly for wells. 2,927,603, 3-8-60, Cl. 137-458.
- Willis, Sumner C.: *See*
- Barabas, John J., and Willis. 2,944,595.
- Barabas, John J., and Willis. 2,949,955.
- Willis, Sumner C., and J. J. Barabas, to Castro Convertible Corp. Power operated convertible sofa-bed. 2,934,770, 5-3-60, Cl. 5-13.
- Willis, Theodore R.: *See*
- Wirkler, Walter H., Anderson, and Willis. 2,934,267.
- Willison, Donald, to National Malleable and Steel Castings Co. Draft rigging. 2,944,682, 7-12-60, Cl. 213-45.
- Willison, Ralph E.: *See*
- Roberts, Lawrence M., and Willison. 2,937,711.
- Williston, Robert L.: *See*
- Wild, Norman R., and Williston. 2,945,233.
- Willits, Fred H. Wire tensioning device. 2,965,940, 12-27-60, Cl. 24-132.
- Willits, Glenn D., to General Electric Co. Terminal arrangement for electric apparatus. 2,934,739, 4-26-60, Cl. 339-220.
- Willits, Samuel P., and W. L. Mohan, to Chicago Aerial Industries, Inc. Parallax interval sensing device. 2,960,908, 11-22-60, Cl. 88-14.
- Willman, Frank L. Handle for barrel bolts and catches. 2,938,746, 5-31-60, Cl. 292-336.3.
- Willman, Philip E., to McGraw-Edison Co. Steam iron. 2,963,803, 12-13-60, Cl. 38-77.
- Willmer, Victor G. Carburettor vacuum control device. 2,944,646, 7-12-60, Cl. 192-3.
- Willmore, Knight N., 25 % to G. A. Barber. Combined dust and grease seal and key retainer. 2,930,659, 3-29-60, Cl. 308-3.5.
- Willmore, Knight N.,  $\frac{1}{4}$  to G. A. Barber. Load applying device. 2,938,402, 5-31-60, Cl. 74-424.8.
- Willmore, Patrick L., to Her Majesty The Queen In Right Of Canada, as represented by the Minister of Mines and Technical Surveys. Method of calibrating an electromagnetic seismograph. 2,939,079, 5-31-60, Cl. 324-158.
- Willmott, Herbert J., to United Shoe Machinery Corp. Pressure applying machines. 2,934,771, 5-3-60, Cl. 12-21.



- Willmund, Wolf-Dieter: *See*—  
Strauss, Wennemar, Kirstabler, Gundel, and Willmund. 2,956,956.
- Strauss, Wennemar, and Willmund. 2,950,235.
- Willner, Charles K. Straight bar knitting machines. 2,957,324, 10-25-60, Cl. 66-6.
- Willoughby, Elmer C., Jr.: *See*—  
English, Le Roy F., and Willoughby. 2,936,441.
- Willows, John M.: *See*—  
McKean, Herbert B., Ross, Smith, and Willows. 2,919,732.
- Willrodt, Marvin J.: *See*—  
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- Wills, Frank: *See*—  
Bryner, Joseph S., and Wills. 2,953,508.
- Wills, George B.: *See*—  
Ruhoff, John R., Gerfen, and Wills. 2,956,857.
- Wills, Lester H. Hydraulic loading and unloading device. 2,956,698, 10-18-60, Cl. 214-77.
- Wills, Marion C., to Koehring C. Universal attachment support for tractors. 2,955,844, 10-11-60, Cl. 280-150.
- Willsea, Jasper. Transfer mechanism. 2,959,301, 11-8-60, Cl. 214-1.
- Willsey, Charles H. Egg breaking machine. 2,921,667, 1-19-60, Cl. 198-179.
- Willsey, Charles H. Egg breaking machine. 2,966,184, 12-27-60, Cl. 146-2.
- Willshaw, William E.: *See*—  
Robertshaw, Robert G., and Willshaw. 2,933,643.
- Willshaw, William E., to The General Electric Co. Ltd. Electronic tubes for use as backward wave oscillators. 2,949,563, 8-16-60, Cl. 315-39.3.
- Willson, Corwin D. Chemo-kinetic engines. 2,943,450, 7-5-60, Cl. 60-39.34.
- Willson, Thomas C., Jr., to Plax Corp. Sheet shaping. 2,926,385, 3-1-60, Cl. 18-19.
- Willson, Weaver E., and A. L. Sneed. Tray assembly for attachment to a wheelchair. 2,937,694, 5-24-60, Cl. 155-127.
- Willwerth, John H., and J. R. West, to Sperry Rand Corp. Fertilizer distributor. 2,922,549, 1-26-60, Cl. 222-43.
- Willyoung, David M., to General Electric Co. Fluid-cooled rotor for dynamoelectric machine. 2,951,954, 9-6-60, Cl. 310-61.
- Wilmarth, Robert W., to International Telephone and Telegraph Corp. Slow wave propagating structure. 2,959,707, 11-8-60, Cl. 315-3.5.
- Wilmer, Rudolph H., and D. V. Huff, to The General Fireproofing Co. Sliding doors for cabinets. 2,936,206, 5-10-60, Cl. 312-322.
- Wilmette Screw Products: *See*—  
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- Wilmot-Breeder Ltd.: *See*—  
Jakeman, Harry, and Jeavons. 2,961,265.
- Marx, Ulrich F. 2,961,386.
- Wilmotte, Raymond M.: *See*—  
Greenspan, Martin, and Wilmotte. 2,921,134.
- Wilner, L. Bruce, to United States of America, Atomic Energy Commission. Tube shearing valve. 2,937,654, 5-24-60, Cl. 137-68.
- Wil-Pen Co.: *See*—  
Penn, Thomas R. 2,929,510.
- Wilsdorf, Walter F., Sr. Bug deflector for motor vehicles. 2,963,315, 12-6-60, Cl. 296-91.
- Wilson, Albert L., 50% to B. H. Martin. Combination spreader box and grain drill. 2,947,450, 8-2-60, Cl. 222-136.
- Wilson, Alexander T.: *See*—  
Thourson, Thomas L., and Wilson. 2,937,275.
- Wilson, Alfred C.: *See*—  
Tanner, Samuel W. 2,954,079.
- Wilson, Allen B.: *See*—  
MacChesney, Chester M., and Wilson. 2,940,732.
- Wilson, Allen B., to Acme Steel Co. Method of forming a container. 2,925,757, 2-23-60, Cl. 93-36.5.
- Wilson, Allen B., to Acme Steel Co. Apparatus for distributing barbed metal band. 2,948,049, 8-9-60, Cl. 29-7.1.
- Wilson, Allen B., and G. Stanius, to Acme Steel Co. Crimping tool for forming roof deck. 2,944,503, 7-12-60, Cl. 113-54.
- Wilson, Arthur, and L. C. Snelling, to L. C. Snelling (London) Ltd. Marking machines for cans and other containers. 2,935,015, 5-3-60, Cl. 101-44.
- Wilson Athletic Goods Mfg. Co., Inc.: *See*—  
Havey, John G., and Baker. 2,960,338.
- Turner, Archibald J. 2,957,177.
- Wilson, Benjamin J., to Union Carbide Corp. Process for the production of metals. 2,965,475, 12-20-60, Cl. 75-67.
- Wilson, Bernard T.: *See*—  
Burns, Cecil H., Jr., Donan, Wolfe, Eckdahl, Daugherty, Wilson, and Sarkissian. 2,954,546.
- Eckdahl, Donald E., Donan, Wolfe, Sprague, Sarkissian, Isborn, and Wilson. 2,924,381.
- Eckdahl, Donald E., Sprague, Dobbins, Wilson, and Sarkissian. 2,954,166.
- Wilson, Billy F.: *See*—  
Younans, Arthur H., Monaghan, Wilson, and Henrichs. 2,961,544.
- Wilson, Byron L. Mailbox supporting apparatus. 2,963,168, 12-6-60, Cl. 211-107.
- Wilson, Charles E.: *See*—  
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- Wilson, Charles V.: *See*—  
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- Beavers, Dorothy J., Wilson, and Graham. 2,940,855.
- Beavers, Dorothy J., Wilson, and Graham. 2,944,898.
- Carroll, Burt H., Elins, Graham, and Wilson. 2,944,900.
- Wilson, Christopher L. Process for improving the color stability of polyurethane cellular products. 2,921,866, 1-19-60, Cl. 117-98.
- Wilson, Christopher L. Electrolytic method of preparing ketoximes. 2,963,410, 12-6-60, Cl. 204-74.
- Wilson, Christopher L., and O. Shuffman, to Hudson Foam Plastics Corp. Cellular polyesterurethane product and preparation of same. 2,961,418, 11-22-60, Cl. 260-2.5.
- Wilson, Clarence R.: *See*—  
Wallace, John T., and Wilson. 2,940,232.
- Wilson, Clyde L.: *See*—  
Weeks, Lloyd E., and Wilson. 2,935,853.
- Wilson & Co., Inc.: *See*—  
Forsyth, John S. 2,940,862.
- Garapolo, Orlando. 2,966,186.
- Garapolo, Orlando, and Robertson. 2,924,924.
- Herman, Lloyd G. 2,938,794.
- Johnsen, Vernon L., and Burnett. 2,928,822.
- McGuire, Thomas H., and Moss. 2,952,696.
- Wilson, David A., to Hayssen Mfg. Co. Art of compression bundling. 2,962,848, 12-6-60, Cl. 53-124.
- Wilson, E. Milton, and A. F. Graefe, to Aerojet-General Corp. Rocket propellant fuel. 2,940,843, 6-14-60, Cl. 52-5.
- Wilson, Earl L. Satellite kite. 2,934,295, 4-26-60, Cl. 244-153.
- Wilson, Edgar G., and C. R. Pearce. Shoring apparatus. 2,925,981, 2-23-60, Cl. 248-354.
- Wilson, Edward R., to Avco Mfg. Corp. Transistorized harmonic generator. 2,930,003, 3-22-60, Cl. 331-117.
- Wilson, Edward S., to International Business Machines Corp. Noise discrimination circuit. 2,923,821, 2-2-60, Cl. 250-27.
- Wilson, Ernest V.: *See*—  
Matuszak, Alfred H., Wilson, and Gleason. 2,938,871.
- Wilson, Eugene R., to The Procter & Gamble Co. Detergent compositions. 2,965,576, 12-20-60, Cl. 252-137.
- Wilson, Evelyn H., and M. Tishler, to Merck & Co., Inc.  $\Delta^3,11,20$ -triketo-17-hydroxy-21-oxygenated steroids of the pregnane series and processes of preparing them. 2,933,515, 4-19-60, Cl. 260-397.45.
- Wilson, Evelyn H., and M. Tishler, to Merck & Co., Inc. Process of making 2,2,4-tribromo- $\alpha$ -alldihydrocortisone esters. 2,957,892, 10-25-60, Cl. 260-397.45.
- Wilson, Floyd L.: *See*—  
Kushler, Robert H., Grant, Streetman, Smith, McPherson, Karlstadt, and Wilson. 2,954,998.
- Wilson, Francis D., to The Babcock & Wilcox Co. Furnace with dumping hearth. 2,933,057, 4-19-60, Cl. 110-7.
- Wilson, Frank G. Sliding closure for a picnic basket. 2,959,315, 11-8-60, Cl. 217-124.
- Wilson, Frank G., 3rd. Protective receptacle mat. 2,922,553, 1-26-60, Cl. 222-572.
- Wilson, Frank R., to O. E. Wilson. Tube forming tool. 2,962,079, 11-29-60, Cl. 153-81.
- Wilson, Frederick S., to Socony Mobil Oil Co., Inc. Manufacture of aryl phosphate esters. 2,960,524, 11-15-60, Cl. 260-461.
- Wilson, Gardner P.: *See*—  
Chambers, Herbert I., Fischer, Sihvoen, and Wilson. 2,931,690.
- Wilson, Gardner P., to Bell & Howell Co. Linear induction motor servosystem for recording oscillograph. 2,931,963, 4-5-60, Cl. 318-22.
- Wilson, Gardner P., and K. O. Timothy, to Consolidated Electrodynamics Corp. Corrective circuits for amplifiers. 2,924,781, 2-9-60, Cl. 330-104.
- Wilson, George. Wrap around insulator. 2,921,115, 1-12-60, Cl. 174-174.
- Wilson, George A.: *See*—  
Finnegan, William B., Huff, and Wilson. 2,949,676.
- Wilson, George C., to General Motors Corp. Transmission. 2,929,267, 3-22-60, Cl. 74-645.
- Wilson, Glenn R., to Ford Motor Co. Bis (2,6-diisopropylphenoxy)dimethylsilane. 2,963,502, 12-6-60, Cl. 260-448.8.
- Wilson, Harland D., to The Electric Auto-Lite Co. Permanently bonded battery elements. 2,934,582, 4-26-60, Cl. 136-17.
- Wilson, Harland D., to Ford Motor Co. Battery mounting apparatus. 2,947,373, 8-2-60, Cl. 180-68.5.
- Wilson, Harold E., Jr., to The Martin Co. Method and apparatus for spray painting small articles. 2,944,512, 7-12-60, Cl. 118-303.
- Wilson, Harold W. Acidic fertilizer-containing slag. 2,927,851, 3-8-60, Cl. 71-62.
- Wilson, Harry W., and C. L. Dornbush, to Royal Container Co. Machine for packaging cartons. 2,947,125, 8-2-60, Cl. 53-61.
- Wilson, Harvey A. Pipe line for hot fluids and method of constructing same. 2,924,245, 2-9-60, Cl. 138-64.
- Wilson, Howe E. Machine for producing building blocks. 2,934,808, 5-3-60, Cl. 25-99.
- Wilson, Hubert N., and F. M. Glass, to United States of America, Atomic Energy Commission. Radiation detector. 2,936,401, 5-10-60, Cl. 315-59.



- Wilson, Irvin A. Laundry system. 2,944,416, 7-12-60, Cl. 68-27.
- Wilson, J. G., Corp. The: See—  
Zoll, Maurice B., Brown, and Smith. 2,946,377.
- Wilson, Jack K., N. E. and R. S. Pouch. 2,940,651, 6-14-60, Cl. 224-26.
- Wilson, Jack L.: See—  
Rockefeller, Harry E., and Wilson. 2,920,181.
- Wilson, Jack L., H. E. Rockefeller, and T. E. Butler, to Union Carbide Corp. Electric arc high-alloy metal deposition. 2,948,803, 8-9-60, Cl. 219-74.
- Wilson, James A.: See—  
Phelan, James M., and Wilson. 2,922,301.
- Wilson, James A., to Esso Research and Engineering Co. Method and apparatus for analyzing operation of spark-ignition engines. 2,962,654, 11-29-60, Cl. 324-15.
- Wilson, James A., to Esso Research and Engineering Co. Safety device for radiation level monitor systems. 2,963,588, 12-6-60, Cl. 250-83.6.
- Wilson, James A. Well swabs. 2,965,422, 12-20-60, Cl. 369-23.
- Wilson, James C., to Owens-Illinois Glass Co. Receptacle. 2,950,039, 8-23-60, Cl. 229-14.
- Wilson, James C., to Owens-Illinois Glass Co. Poultry box construction. 2,955,733, 10-11-60, Cl. 229-6.
- Wilson, James D., to Banner Metals, Inc. Nesting and stacking trays. 2,925,919, 2-23-60, Cl. 211-126.
- Wilson, James D., to Wire & Metal Mfg. Co. Nestable wheeled tray carrying rack. 2,928,681, 3-15-60, Cl. 280-33.99.
- Wilson, James E.: See—  
Sihvonen, Yro T., and Wilson. 2,942,184.
- Wilson, Jardine C., M. A. Nadler, I. Katz, and A. Walti, to North American Aviation, Inc. Method of preparing copolymer of silanols and isocyanatosilanes, resultant copolymer and method of coating the interior of containers therewith. 2,932,586, 4-12-60, Cl. 117-97.
- Wilson, Jesse A., Jr., and M. V. Friedell, to C. A. Norgren Co. Aerosol generator and lubricator and method of generating micron size aerosol. 2,966,312, 12-27-60, Cl. 239-338.
- Wilson, John, to Canadian Westinghouse Co. Ltd. Electric switches. 2,931,875, 4-5-60, Cl. 200-153.
- Wilson, John E., to Reynolds Metals Co. Apparatus for producing strengthened containers with metallic liners therein. 2,958,266, 11-1-60, Cl. 93-36.01.
- Wilson, John H. Portable rig mast and substructure. 2,922,501, 1-26-60, Cl. 189-11.
- Wilson, John H. Universal shaft drive compound for rotary drilling rigs. 2,924,121, 2-9-60, Cl. 74-665.
- Wilson, John H. Engine compounds for drilling rigs. 2,926,766, 3-1-60, Cl. 192-112.
- Wilson, John H. Brake system for hoisting drums. 2,928,505, 3-15-60, Cl. 188-77.
- Wilson, John H. Suction flow equalizer for mud pumps. 2,934,025, 4-26-60, Cl. 103-223.
- Wilson, John H. Universal shaft connected compound for rotary drilling rigs. 2,936,654, 5-17-60, Cl. 74-722.
- Wilson, John H. Resilient facings for drum flanges. 2,944,756, 7-12-60, Cl. 242-117.
- Wilson, John H. Drum assembly. 2,944,790, 7-12-60, Cl. 254-187.
- Wilson, John H. Combination vehicle and drilling rig frame. 2,948,511, 8-9-60, Cl. 254-166.
- Wilson, John H. Chain positioning tool. 2,950,899, 8-30-60, Cl. 254-78.
- Wilson, John H. Alarm signals for mud pumps. 2,956,510, 10-18-60, Cl. 103-202.
- Wilson, John H., and R. F. Bartosh, to Wilson Mfg. Co., Inc. Pump cylinder liner puller. 2,924,005, 2-9-60, Cl. 29-283.
- Wilson, John L.: See—  
Maier, Karl W., and Wilson. 2,952,089.
- Wilson, John L., to Olin Mathieson Chemical Corp. Choke-compensator adapter for metal-plastic firearm barrel. 2,932,915, 4-19-60, Cl. 42-79.
- Wilson, John L., to Olin Mathieson Chemical Corp. Gun barrel. 2,935,913, 5-10-60, Cl. 89-16.
- Wilson, John N.: See—  
Armstrong, Warren E., and Wilson. 2,940,940.
- Wilson, John R.: See—  
Redick, David C., and Wilson. 2,958,069.
- Wilson Jones Co.: See—  
Marano, Herbert W. 2,934,039.  
Marano, Herbert W. 2,941,208.
- Wilson, Joseph E., to Union Carbide Corp. Stabilized vinyl chloride resin compositions. 2,954,362, 9-27-60, Cl. 260-45.75.
- Wilson, Joseph E., to Phillips Petroleum Co. Stabilization of phosphoric acid. 2,955,919, 10-11-60, Cl. 23-165.
- Wilson, Keith E., to General Controls Co. Flow regulator. 2,960,109, 11-15-60, Cl. 137-517.
- Wilson, Lawrence, to The Cleveland Trencher Co. Heat transfer mechanism. 2,956,650, 10-18-60, Cl. 188-264.
- Wilson, Lawrence V., Jr.: See—  
Czenkusch, Edward L., and Wilson. 2,954,368.
- Wilson, Loren R.: See—  
Clark, John W., and Wilson. 2,926,262.
- Wilson Mfg. Co., Inc.: See—  
Wilson, John H., and Bartosh. 2,924,005.
- Wilson, Matthew W.: See—  
Lessig, Edward T., and Wilson. 2,964,262.  
Smith, John K., and Wilson. 2,919,527.
- Wilson, Matthew W., to The B. F. Goodrich Co. Process for treating cords. 2,932,078, 4-12-60, Cl. 28-72.
- Wilson, Matthew W., to The B. F. Goodrich Co. Tubeless tire. 2,934,126, 4-26-60, Cl. 152-362.
- Wilson, Myron S., to General Electric Co. Strip chart recorder. 2,937,820, 5-24-60, Cl. 242-75.43.
- Wilson, Norman E.: See—  
Wilson, Jack K., N. E. and R. S. 2,940,651.
- Wilson, Peter, to William Hollins & Co. Ltd. Yarn clearing apparatus. 2,936,511, 5-17-60, Cl. 28-64.
- Wilson, Porter C., and N. C. Adams. Flexible separable flag belt device. 2,966,356, 12-27-60, Cl. 273-1.
- Wilson, Quinn E.: See—  
Wilson, Frank R. 2,962,079.
- Wilson, Ralph A. Pneumatic feed for electric hand drill. 2,947,205, 8-2-60, Cl. 77-14.
- Wilson, Ralph C. Nailer. 2,945,235, 7-19-60, Cl. 1-45.
- Wilson, Raymond A., to Shell Oil Co. Conversion of heavy oils to gasoline using the fluidized catalyst technique. 2,944,963, 7-12-60, Cl. 208-149.
- Wilson, Raymond O., R. Sothern, and H. S. Brenner, to Olympic Screw & Rivet Corp. Blind rivet pulling tool. 2,965,258, 12-20-60, Cl. 218-42.
- Wilson, Reagan T., to Phillips Petroleum Co. Gravitating bed catalytic hydrocracking process. 2,931,767, 4-5-60, Cl. 208-68.
- Wilson, Rex C., and H. Van Jeppond, to Hazeltine Research, Inc. Cathode-ray tube beam sweep oscillator. 2,954,533, 9-27-60, Cl. 331-147.
- Wilson, Richard C., to United States of America, Navy. Resilient packer for stacked articles. 2,937,745, 5-24-60, Cl. 206-65.
- Wilson, Richard L., and R. J. Worbois, to Westinghouse Air Brake Co. Fluid pressure brake apparatus. 2,926,965, 8-1-60, Cl. 303-36.
- Wilson, Richmond W.: See—  
Given, Harold S., Knack, and Wilson. 2,952,944.
- Wilson, Robert C. Knock down animal toy. 2,927,397, 8-8-60, Cl. 46-22.
- Wilson, Robert C., to General Aniline & Film Corp. Method for the synthesis of dicarbocyanine dyes. 2,951,841, 9-6-60, Cl. 260-240.5.
- Wilson, Robert C., Jr., to Socony Mobil Oil Co., Inc. Method for manufacturing a catalyst comprising a caged composite of silica and magnesia. 2,947,708, 8-2-60, Cl. 252-452.
- Wilson, Robert E., to Cannon Electric Co. Pressure actuated electrical switch. 2,938,976, 5-31-60, Cl. 200-82.
- Wilson, Robert E., and W. E. Woods, to Radio Corp. of America. Gate-forming circuit. 2,923,818, 2-2-60, Cl. 250-27.
- Wilson, Robert H.: See—  
Winters, Charles E., Graham, Culver, and Wilson. 2,945,794.
- Wilson, Robert H., to Northrop Corp. Transistor clip. 2,924,809, 2-9-60, Cl. 339-258.
- Wilson, Robert L., to Bell Telephone Laboratories, Inc. Pulse distributing arrangements. 2,953,694, 9-20-60, Cl. 307-88.5.
- Wilson, Robert M., to Dare Products, Inc. Armored insulator. 2,931,853, 4-5-60, Cl. 174-170.
- Wilson, Robert M., to Dare Products, Inc. Supporting means for electric fence wire and the like. 2,955,150, 10-4-60, Cl. 174-159.
- Wilson, Robert M., to Dare Products, Inc. Adjustable ground clamp. 2,964,728, 12-13-60, Cl. 339-266.
- Wilson, Robert S.: See—  
Wilson, Jack K., N. E. and R. S. 2,940,651.
- Wilson, Robert W., to Thompson Ramo Wooldridge Inc. Fuel system. 2,944,597, 7-12-60, Cl. 158-36.4.
- Wilson, Robert W., to R. H. Bouligny, Inc. Press wheel assembly for planting implements. 2,950,770, 8-30-60, Cl. 172-538.
- Wilson, Robert W., to R. H. Bouligny, Inc. Plant tray structure for plant setting machines. 2,959,141, 11-8-60, Cl. 111-2.
- Wilson, Robert W., and O. R. Rowe, to R. H. Bouligny, Inc. Plant setting machine. 2,944,495, 7-12-60, Cl. 111-2.
- Wilson, Rosser L.: See—  
Salak, Michael, Keating, and Wilson. 2,943,713.
- Wilson, Roy K., to St. Joe Paper Co. Dome pack container. 2,939,624, 6-7-60, Cl. 229-43.
- Wilson, Roy W. Foldable wall structure for buildings. 2,942,658, 6-28-60, Cl. 160-40.
- Wilson, Rufus W.: See—  
Wald, John R., Jr., and Wilson. 2,946,603.
- Wilson, Rufus W., to Wald Industries, Inc. Article retriever. 2,964,204, 12-13-60, Cl. 214-355.
- Wilson, Rushen A.: See—  
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- Wilson, Samuel A., to National Tank Co. Hydrocarbon hydrate separation process and separation unit therefor. 2,943,124, 6-28-60, Cl. 260-676.
- Wilson, Sherman B. Accessory for barber tools. 2,929,140, 3-22-60, Cl. 30-133.
- Wilson, Sidney L., to S & W Curb Clamp, Inc. Curb form clamp. 2,965,950, 12-27-60, Cl. 25-118.
- Wilson, Thomas P., and G. F. Hurley, to Union Carbide Corp. Process for the sodium catalyzed hydrogenation of naphthalene. 2,929,854, 3-22-60, Cl. 260-667.
- Wilson, Thomas W. Interlocking pre-cast panels. 2,921,462, 1-19-60, Cl. 72-40.



- Wilson, Timothy L.: See—  
Miwa, Thomas K., Smith, and Wilson. 2,964,546.
- Wilson, Walter R., to General Electric Co. Electric protective equipment. 2,931,951, 4-5-60, Cl. 317-27.
- Wilson, Wendell B., to United States of America, Atomic Energy Commission. High pressure dies. 2,938,998, 5-31-60, Cl. 219-149.
- Wilson, William. Planing saw blade. 2,936,801, 5-17-60, Cl. 143-140.
- Wilson, William A., and T. D. Nevitt, to Standard Oil Co. Combination reforming and solvent extraction process. 2,956,006, 10-11-60, Cl. 208-96.
- Wilson, William C., and R. H. Anderson, to Pyroxylin Products, Inc. Pressing machine. 2,934,129, 4-26-60, Cl. 154-1.
- Wilson, William C., and R. H. Anderson, to Pyroxylin Products, Inc. Pressing machine with movable safety guard. 2,934,189, 4-26-60, Cl. 192-134.
- Wilson, William E., and L. L. Nicolaro, to Westinghouse Electric Corp. Leak-check valve. 2,951,513, 9-6-60, Cl. 141-65.
- Wilson, William J.: See—  
Sommers, Donald J., and Wilson. 2,938,175.
- Wilson, William M., to Eastwood-Nealley Corp. Method of seam brazing plastic coated fourdrinier wire. 2,930,117, 3-29-60, Cl. 29-527.
- Wilson, William P., to United States Borax & Chemical Corp. Slurry removal system. 2,920,635, 1-12-60, Cl. 137-15.
- Wilson, William P., to United States Borax & Chemical Corp. Method of leaching ores. 2,961,307, 11-22-60, Cl. 23-309.
- Wilson, William P., and T. M. Cramer, to United States Borax & Chemical Corp. Process for recovering flotation reagent. 2,936,887, 5-17-60, Cl. 209-166.
- Wilson, William R.: See—  
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- Wilson, William R., to Minneapolis-Honeywell Regulator Co. Level sensing apparatus. 2,924,234, 2-9-60, Cl. 137-392.
- Wilson, Wilmer G., and C. J. O'Rear, to Arkansas Fuel Oil Corp. Well tubing hanger. 2,928,635, 3-15-60, Cl. 248-56.
- Wilton, Henry T., to American Optical Co. Micro-film projector. 2,937,569, 5-24-60, Cl. 88-24.
- Wilton, Henry T., to American Optical Co. Stage for optical projector. 2,950,106, 8-23-60, Cl. 271-51.
- Wilton, Henry T., and W. E. Foley, to American Optical Co. Stage for opaque projector. 2,949,813, 8-23-60, Cl. 88-24.
- Wilton, Raymond C., to Collaro Ltd. Automatic record-changing phonograph. 2,919,924, 1-5-60, Cl. 274-10.
- Wilton, Robert, to American Gage & Machine Co. Electrical test instrument. 2,927,270, 3-1-60, Cl. 324-73.
- Wilton, William E.: See—  
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- Wiltse, Sumner D. Tube coupling having a reinforced sealing and locking ring. 2,944,840, 7-12-60, Cl. 285-232.
- Wiltshire, Arthur J.: See—  
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- Wiltshire, Elmore L., and O. R. Million, to Colorado Automotive Products Co. Fuel deflector. 2,966,150, 12-27-60, Cl. 123-52.
- Wilwerding, Leo J. Power operated pipe pushing machine. 2,935,298, 5-3-60, Cl. 254-29.
- Wiman, Karl O., to Kopperfors Aktiebolag. Device for automatically bundling material. 2,937,484, 5-24-60, Cl. 53-135.
- Wimberley, Herbert G. Fisherman's knot tying tool. 2,926,036, 2-23-60, Cl. 289-17.
- Wimmer, Georg: See—  
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- Winans, Robert F. Glide caster. 2,933,754, 4-26-60, Cl. 16-42.
- Winberg, Hilmer E.: See—  
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- Winberg, Ragnar W. Rotary feeder. 2,955,553, 10-11-60, Cl. 112-211.
- Winchell, Frank J., to General Motors Corp. Transmission. 2,932,989, 4-19-60, Cl. 74-759.
- Winchell, Frank J., to General Motors Corp. Transmission. 2,955,482, 10-11-60, Cl. 74-472.
- Winchell, Frank J., to General Motors Corp. Transmission. 2,965,205, 12-20-60, Cl. 192-66.
- Winchester, Albert G., H. E. Hortman, Jr., and G. Cummins, to Buffing, Inc. Work finishing machine. 2,935,822, 5-10-60, Cl. 51-79.
- Winchester, Russell A. Speed reducer, over-drive and braking unit. 2,923,177, 2-2-60, Cl. 74-740.
- Winco Ventilator Co.: See—  
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- Wincze, Joseph W.: See—  
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- Windeler, George, Co. Ltd.: See—  
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- Windemuth, Erwin: See—  
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- Windemuth, Erwin, H. Schnell, and O. Bayer, 1/2 to Mobay Chemical Co. and 1/2 to Farbenfabriken Bayer Aktiengesellschaft. High molecular weight polyether urethane polymers. 2,948,691, 8-9-60, Cl. 260-25.
- Windemuth, Erwin, W. Bunge, and O. Bayer, 1/2 to Farbenfabriken Bayer Aktiengesellschaft, and 1/2 to Mobay Chemical Co. Process for the production of isocyanate polymerization products. 2,954,365, 9-27-60, Cl. 260-77.5.
- Winder, Arthur S., and S. F. Geary, to Wharton Engineers (Elstree) Ltd. Pivotal mounting for masts, derricks and the like. 2,951,596, 9-6-60, Cl. 212-35.
- Winder, Clayton F., and E. M. Jones; said Winder assor. to The Baldwin Piano Co. Electrical circuit. 2,956,171, 10-11-60, Cl. 250-211.
- Winderl, Siegfried: See—  
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- Winders, George L.: See—  
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- Winders, William D., Jr.: See—  
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- Winders, William D., Sr., and W. D. Winders, Jr. Manifold business forms and method of producing them. 2,930,632, 3-29-60, Cl. 282-22.
- Windisch, Ernest. Easy-pull wool protector. 2,940,686, 6-14-60, Cl. 242-146.
- Windisch, Siegfried, and W. Bronn, to Versuchs-u. Lehranstalt für Spiritusfabrikation. Production of ergot alkaloids. 2,936,266, 5-10-60, Cl. 195-81.
- Wind-King Electric Mfg. Co.: See—  
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- Windmassinger, George, to George B. Henne & Co., Inc. Latch lock. 2,942,451, 6-28-60, Cl. 70-150.
- Windmoller & Holscher: See—  
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- Windower, Francis E., to The Dow Chemical Co. Frozen confection and method of making the same. 2,950,199, 8-23-60, Cl. 99-136.
- Windower, Francis E., S. M. Rodgers, Jr., and G. H. Beaver, to The Dow Chemical Co. Water-soluble thermoplastic cellulose ether compositions and films prepared therefrom. 2,953,607, 11-1-60, Cl. 106-180.
- Windower, Francis E., G. H. Beaver, and A. W. Anderson, to The Dow Chemical Co. Water soluble thermoplastic cellulose ether compositions. 2,965,508, 12-20-60, Cl. 106-189.
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- Windsor, Frederick N., and D. A. Green, to Mine Safety Appliances Co. Fluid pressure control device. 2,926,683, 3-1-60, Cl. 137-63.
- Windsor, R. H., Ltd.: See—  
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- Windsor, Richard T., to Hays Mfg. Co. Pilot control diaphragm valve. 2,951,503, 9-6-60, Cl. 137-606.
- Wine, William E.: See—  
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- Wine, William E., deceased; by O. Ingram and W. J. Gibson, co-executors, to Unicast Corp. Railway hopper car door locks. 2,962,982, 12-6-60, Cl. 105-308.
- Winegard Co.: See—  
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- Winegard, John R., to Winegard Co. TV antenna for color reception. 2,955,289, 10-4-60, Cl. 343-815.
- Winell, Lennart: See—  
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- Wineman, Robert J.: See—  
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- Wineman, Walter G., Jr. Metal shelving. 2,932,409, 4-12-60, Cl. 211-147.
- Wines, Warren R.: See—  
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- Winestock, Theodore L., to General Electric Co. Machine with hydraulically actuated carriage. 2,947,487, 8-2-60, Cl. 242-9.
- Winfield, Raymond. Time of event indicator. 2,922,576, 1-26-60, Cl. 235-92.
- Wing, George S., to Hi-Shear Rivet Tool Co. Lock nut with frangible driving portion. 2,940,495, 6-14-60, Cl. 151-21.
- Wing, George S., to Hi-Shear Rivet Tool Co. Hollow rivet having expander nut with curved deflector section and grooved locking rib. 2,959,999, 11-15-60, Cl. 85-40.
- Wing, Howard. Display stand. 2,954,250, 9-27-60, Cl. 287-54.
- Wing, Luman B. Corrugated spring steel bushing. 2,931,412, 4-5-60, Cl. 151-41.7.
- Wing, Russell T. Watch supporting devices. 2,926,825, 3-1-60, Cl. 224-4.
- Wing, Willis G., R. F. Garbarini, R. L. Wendt, and H. Rawitz, to Sperry Rand Corp. Vertical and velocity reference defining system. 2,936,627, 5-17-60, Cl. 74-5.34.
- Wingard, Henry S.: See—  
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- Wingard, James K., to E. W. Bliss Co. Tension reel jaw. 2,920,837, 1-12-60, Cl. 242-72.
- Winger, Wayne D.: See—  
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- Wingler, William C.: See—  
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- Winick, Jack I., to Research Interests Ltd. Reclining chairs. 2,925,122, 2-16-60, Cl. 155-116.



- Winkel Machine Co.: *See*—  
McAlpine, Charles H., McGowan, and Millenaar. 2,930,508.
- Winkel, Paul L. Rotary disc shoulder cutter. 2,946,145, 7-26-60, Cl. 37-143.
- Winkelman, D. W., Co.: *See*—  
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- Winkelmann, Otto J., to Chrysler Corp. Electromagnetic power steering mechanism. 2,925,741, 2-23-60, Cl. 74-388.
- Winkelmann, Otto J., to Chrysler Corp. Combination air spring-leaf spring suspension. 2,945,702, 7-19-60, Cl. 280-124.
- Winkelmann, Samuel A., to The Duraflex Co. Stop collar coupling. 2,959,435, 11-8-60, Cl. 287-52.09.
- Winker, Daniel E., to Physical Measurements Corp. Accelerometer. 2,959,057, 11-8-60, Cl. 73-516.
- Winker, James A.: *See*—  
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- Winkin, Justin P.: *See*—  
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- Winklepleck, Roy G., to Apra Precipitator Corp. Precipitator purge circuit. 2,931,457, 4-5-60, Cl. 183-7.
- Winkler, Albert H.: *See*—  
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- Winkler, Alfred, and W. Kaden, to AGFA Aktiengesellschaft. Reflex camera. 2,925,022, 2-16-60, Cl. 95-42.
- Winkler, Alvin L.: *See*—  
Hail, Marchand B., and Winkler. 2,943,558.
- Winkler, Alvin L., to Acme Steel Co. Strapping tool. 2,941,782, 6-21-60, Cl. 254-51.
- Winkler, Bernard C., and E. E. Jasheway, to General Electric Co. Desk mobile lifter. 2,937,850, 5-24-60, Cl. 254-8.
- Winkler, Daniel M.: *See*—  
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- Winkler, Edward D.: *See*—  
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- Winkler, Edward D., to Albert & J. M. Anderson Mfg. Co. Electrical connector. 2,955,273, 10-4-60, Cl. 339-45.
- Winkler, Eric H. Dual receptacle for printed type circuitry. 2,925,537, 2-16-60, Cl. 317-101.
- Winkler, Frederic C.: *See*—  
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- Winkler, Gernot M. R.: *See*—  
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- Winkler, Gernot M. R., to United States of America, Army. Automatic tuning system. 2,926,310, 2-23-60, Cl. 331-2.
- Winkler, Gernot M. R., to United States of America, Navy. Pulse time difference measurement. 2,934,702, 4-26-60, Cl. 324-68.
- Winkler, Gernot M. R., to United States of America, Army. Oscillator stabilizing system having plural phase lock channels controlled by a common reference oscillator. 2,942,203, 6-21-60, Cl. 331-2.
- Winkler, Gernot M. R., to United States of America, Army. Atomic frequency standard. 2,964,715, 12-13-60, Cl. 331-3.
- Winkler, Harry W., to The Borden Co. Flame sterilization. 2,963,389, 12-6-60, Cl. 134-19.
- Winkler, Howard W., and C. L. Greenwell. Attachment for power saws. 2,962,062, 11-29-60, Cl. 143-43.
- Winkler, Richard, and K. Dunnebie, to Berkeley Machine Co. Method and apparatus for registering and timing envelope blanks and similar work pieces in the processing thereof. 2,944,812, 7-12-60, Cl. 271-1.
- Winkler, Roy G. Feeding apparatus. 2,934,199, 4-26-60, Cl. 198-168.
- Winkler, Walter: *See*—  
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- Winn, Hugh, and S. Levy, to General Electric Co. Missile nose structure. 2,937,597, 5-24-60, Cl. 102-92.5.
- Winn, Lewis E. Ventilator switch. 2,951,250, 9-6-60, Cl. 4-213.
- Winn, Oliver H., to General Electric Co. Electrical measuring arrangement. 2,945,179, 7-12-60, Cl. 324-68.
- Winnacker, Karl, and A. Wolfram, to Knapsack-Griesheim Aktiengesellschaft. Process of storing and handling acetylene solutions. 2,925,384, 2-16-60, Cl. 252-1.
- Winnacker, Karl, and A. Wolfram, to Knapsack-Griesheim Aktiengesellschaft. Process of storing and handling acetylene solutions. 2,925,385, 2-16-60, Cl. 252-1.
- Winnen, Franklyn E.: *See*—  
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Benjamin, Milton L., and Winnen. 2,958,533.
- Winner, Forney D., and B. W. Niebel. Calculus disintegrator. 2,933,088, 4-19-60, Cl. 128-328.
- Winnicki, Henry S.: *See*—  
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- Winsel, August: *See*—  
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- Winsett, Joseph T. Snow clearing attachment for motor vehicles. 2,955,368, 10-11-60, Cl. 37-42.
- Winslow, Arthur F.: *See*—  
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- Winslow, Arthur F., to United States of America, Navy. Timing device. 2,945,441, 7-19-60, Cl. 102-16.
- Winslow, Charles A. Centrifugal-type fluid purifier. 2,952,330, 9-13-60, Cl. 183-2.5.
- Winslow, Elizabeth L.: *See*—  
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- Winslow, Fred H., to Hammond Laundry-Cleaning Machinery and Supply Co., Inc. Cleaning or washing apparatus. 2,931,505, 4-5-60, Cl. 210-364.
- Winslow, James C., to Winslow Product Engineering Corp. Collet foot attachment for pneumatic power drill. 2,935,905, 5-10-60, Cl. 77-55.
- Winslow, Lester M., and H. J. Shaw, to Research Corp. Wave guide output window. 2,929,035, 3-15-60, Cl. 333-98.
- Winslow Product Engineering Corp.: *See*—  
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- Winslow, Richard W.: *See*—  
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- Winsor, Donald L.: *See*—  
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- Winsor, Paul, III: *See*—  
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- Winstead, Thomas W., to Hedwin Corp. Container. 2,950,029, 8-23-60, Cl. 222-143.
- Winstead, Thomas W., to Hedwin Corp. Composite package. 2,954,901, 10-4-60, Cl. 222-183.
- Winston, Anthony, to Armstrong Cork Co. Modified polymeric titanium oxide films. 2,941,903, 6-21-60, Cl. 117-106.
- Winston, John M., and L. M. Forbush, to General Motors Corp. Brake adjusting device. 2,924,307, 2-9-60, Cl. 188-196.
- Winston, Larry S.: *See*—  
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- Winston, Rodney W., to Moore Business Forms, Inc. Sheet filing equipment. 2,937,646, 5-24-60, Cl. 129-16.
- Wintenberg, Adelbert C., to General Steel Castings Corp. Railway vehicle structure. 2,925,789, 2-23-60, Cl. 105-188.
- Winter, Arthur L. Flood control apparatus. 2,960,101, 11-15-60, Cl. 137-115.
- Winter, Billy B. Tubular feeding device. 2,940,639, 6-14-60, Cl. 222-60.
- Winter, Charles A., to Rhino Products Corp. Automobile wheel chock. 2,960,857, 11-22-60, Cl. 70-19.
- Winter, Charles H., Jr.: *See*—  
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- Winter, David F., and W. J. Smith, to Moloney Electric Co. High-voltage bushing. 2,953,628, 9-20-60, Cl. 174-142.
- Winter Dump Co. Ltd., The: *See*—  
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- Winter, Ernest F., and J. A. Wooldridge, to Shell Oil Co. Pipe line flow meter. 2,960,103, 11-15-60, Cl. 137-154.
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- Winter, Harry D.: *See*—  
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- Winter, Horst, and G. Lech, to Ford Motor Co. Motor vehicle wheel suspension. 2,932,505, 4-12-60, Cl. 267-15.
- Winter, John S.: *See*—  
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- Winter, Philippe E. Record player. 2,939,713, 6-7-60, Cl. 274-9.
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- Winterberg, Alexander. Method of preserving perishable foodstuffs. 2,961,322, 11-22-60, Cl. 99-166.
- Winterbottom, Robert, H. P. Broquist, and A. R. Whitehill, to American Cyanamid Co. Process of preserving dressed poultry. 2,930,702, 3-29-60, Cl. 99-157.
- Winterburn, George A. Magnetically actuated switches. 2,924,682, 2-9-60, Cl. 200-87.
- Winterhalter, Alfred C.: *See*—  
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- Winterhoff, Walter: *See*—  
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- Wintermantel, Norman G., to American Machine & Foundry Co. Method of making mudguards. 2,932,270, 4-12-60, Cl. 113-116.
- Wintermantel, Norman G., and T. I. Erstad, to American Machine and Foundry Co. Tricycle frame. 2,944,833, 7-12-60, Cl. 280-382.
- Wintermute, Glenn E.: *See*—  
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- Wintermute, Glenn E., and H. W. Carmichael, to Arvin Industries, Inc. Method of forming padded articles. 2,955,972, 10-11-60, Cl. 154-110.
- Winters, Charles E., C. B. Graham, J. S. Culver, and R. H. Wilson, to United States of America, Atomic Energy Commission. Neutronic reactor operational method and core system. 2,945,794, 7-19-60, Cl. 204-154.2.
- Winters, Donald F.: *See*—  
Thorpe, Robert J., and Winters. 2,942,418.
- Winters, John D., to Fansteel Metallurgical Corp. Crimping machine. 2,952,230, 9-13-60, Cl. 113-14.
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- Winters, William P., to American Can Co. Can body hook forming mechanism. 2,932,336, 4-12-60, Cl. 153-17.



- Winther, Jerrold B., to Eaton Mfg. Co. Dynamometer. 2,943,481, 7-5-60, Cl. 73—116.
- Winther, Martin P., to Eaton Mfg. Co. Magnetic powder clutch with variable gap. 2,921,657, 1-19-60, Cl. 192—215.
- Winther, Martin P., and R. C. Russell, to Eaton Mfg. Co. Synchronizing means for torque transmitting device. 2,948,370, 8-9-60, Cl. 192—4.
- Winther, Simon P. Tool. 2,947,564, 8-2-60, Cl. 294—100.
- Winthrop-Atkins Co., Inc.: *See—*
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- Nichols, Gordon E. 2,934,625.
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- Sampson, George H. 2,920,409.
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- Winthrop, Mitchell, to Swank, Inc. Necktie holder. 2,948,936, 8-16-60, Cl. 24—49.
- Winthrop, Stanley O., to American Home Products Corp.  $\alpha$ -(13-morpholy)-benzhydrol and its salts. 2,947,749, 8-2-60, Cl. 260—247.7.
- Winthrop, Stanley O., to American Home Products Corp. Sulfonium compounds and their preparation. 2,948,720, 8-9-60, Cl. 260—243.
- Wintie, Thomas D. G., and G. A. Jelley, to J. A. Crabtree & Co., Ltd. Push button operated electric switches. 2,933,577, 4-19-60, Cl. 200—153.
- Wintringham, William T., to Bell Telephone Laboratories, Inc. Multiple beam scanning system. 2,953,638, 9-20-60, Cl. 178—6.
- Wintriss, George, to Wintriss Inc. Pneumatic sound maker assembly. 2,928,203, 3-15-60, Cl. 46—180.
- Wintriss, George, to Industrial Electronic Hardware Corp. Method of manufacturing a socket for sub-miniature electronic devices. 2,955,352, 10-11-60, Cl. 29—155.55.
- Wintriss Inc.: *See—*
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- Wintrobe, Warner C., to Bendix Aviation Corp. Saturable transformer mixing and amplifying device. 2,920,264, 1-5-60, Cl. 323—56.
- Wintrobe, Warner C., and L. H. Bishop, to The Bendix Corp. Temperature rate responsive fuel control for a gas turbine engine. 2,962,860, 12-6-60, Cl. 60—39.28.
- Winz, Karl: *See—*
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- Winz, Karl, to G. M. Pfaff, A.G. Control system for group stitch sewing machines. 2,919,666, 1-5-60, Cl. 112—67.
- Winz, Karl, to G. M. Pfaff, A.G. Control system for seam welding of thermoplastic materials. 2,928,926, 3-15-60, Cl. 219—20.
- Winz, Karl, to G. M. Pfaff, A.G. Indicator for sewing machines. 2,941,487, 6-21-60, Cl. 112—210.
- Winz, Karl, and E. Wrase, to G. M. Pfaff, A.G. Conveyor. 2,919,790, 1-5-60, Cl. 198—38.
- Winzeler, John W., and A. J. Hatch, to The Strong Electric Corp. Arc lamp. 2,952,794, 9-13-60, Cl. 314—53.
- Winzen, Otto C., to Winzen Research, Inc. Balloon and method and apparatus for launching the same. 2,954,187, 9-27-60, Cl. 244—31.
- Winzen, Otto C., to Winzen Research, Inc. Balloon seal or the like having load bearing element and method of producing the same. 2,960,282, 11-15-60, Cl. 244—31.
- Winzen Research, Inc.: *See—*
- Winzen, Otto C. 2,954,187.
- Winzen, Otto C. 2,960,282.
- Winzenburg, Wilhelm, to VEB Kamera- und Kinowerke Dresden. Microfilm camera detachably connected with a field glass. 2,933,026, 4-19-60, Cl. 95—12.
- Winzenburg, Wilhelm, to VEB Kamera- und Kinowerke Dresden. Slotted cylindrical shutter for small photographic cameras. 2,938,442, 5-31-60, Cl. 95—31.
- Wiora, Joseph A., to Wiora Products Corp. Hose clamp. 2,945,277, 7-19-60, Cl. 24—281.
- Wiora Products Corp.: *See—*
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- Wipac Development Ltd.: *See—*
- Gayler, George A. 2,928,962.
- Gayler, George A. 2,963,599.
- Wippler, Constant G., to Compagnie de Saint-Gobain. Turbidimeter. 2,964,640, 12-13-60, Cl. 250—218.
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- Wirkkala, Benjamin. Tow sticks. 2,949,972, 8-23-60, Cl. 180—19.
- Wirkler, Walter H., W. G. Anderson, and T. R. Willis, to Collins Radio Co. Vertical speed computer and altitude control. 2,934,267, 4-26-60, Cl. 235—151.
- Wirsching, Robert J.: *See—*
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- Wirsching, Robert J., to Daimler-Benz Aktiengesellschaft. Anti-rotation plunger arrangement for injection pumps. 2,935,878, 5-10-60, Cl. 74—55.
- Wirsching, Robert J., to Daimler-Benz Aktiengesellschaft. Injection pump for internal combustion engine. 2,948,159, 8-9-60, Cl. 74—55.
- Wirsig, Stanley S.: *See—*
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- Wirt, James R.: *See—*
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- Wirth, Allan R.: *See—*
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- Messer, Albert S., and Wirth. 2,931,698.
- Wirth, Allan R., A. S. Messer, and A. M. Partansky, to The Dow Chemical Co. Polyphenolic polymer reserving agents for acrylonitrile polymer base fibers. 2,931,694, 4-5-60, Cl. 8—121.
- Wirth, Allan R., and A. S. Messer, to The Dow Chemical Co. Phosphorous-containing polyphenolic reserving agents for acrylonitrile polymer base fibers. 2,931,696, 4-5-60, Cl. 8—21.
- Wirth, Allan R., F. N. Norton, and A. S. Messer, to The Dow Chemical Co. Polyphenolic alkane reserving agents for acrylonitrile polymer base fibers. 2,931,697, 4-5-60, Cl. 8—21.
- Wirth, Edward C.: *See—*
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- Wiegand, Christian, and Wirth. 2,965,648.
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- Casida, John E., and Arthur. 2,927,881.
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- Wisdom, Betty J. Wiper of the type in which wiping element is stationary and article to be wiped is moved. 2,948,912, 8-16-60, Cl. 15—250.1.
- Wise Cecil S.: *See—*
- Lytton, Kenneth G., Wise, and Hendrix. 2,952,047.
- Wise, Ernest G., and A. Casboni. Apparatus for automatically producing cement blocks and the like. 2,941,274, 6-21-60, Cl. 25—41.
- Wise, Homer J., to The Huber & Wise Co. Actuator unit for rotary devices. 2,959,983, 11-15-60, Cl. 74—626.
- Wise, James C.: *See—*
- Angell, Pierce T., and Wise. 2,935,294.
- Dungan, Richard T., Long, Stupka, Taylor, and Wise. 2,966,140.
- Wise, James C., to The Marquardt Corp. Control system for variable area supersonic diffuser. 2,939,276, 6-7-60, Cl. 60—35.6.
- Wise, James C., to The Marquardt Corp. Engine diffuser spike positioning system. 2,939,277, 6-7-60, Cl. 60—35.6.
- Wise, James C., to Thompson Ramo Wooldridge Inc. Umbrella spraybar afterburner arrangement. 2,942,414, 6-28-60, Cl. 60—35.6.
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- Wise Potato Chip Co.: *See—*
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- Wise, Ralph H., to The Anderson Co. Motion conversion device. 2,925,743, 2-23-60, Cl. 74—424.8.
- Wise, Ralph H., to The Anderson Co. Power-operated antenna. 2,926,351, 2-23-60, Cl. 343—903.
- Wise, Ralph H., to The Anderson Co. Thrust bearing. 2,936,166, 5-10-60, Cl. 268—133.



- Wise, Ralph H., to The Anderson Co. Motion-transmitting mechanism. 2,938,401, 5-31-60, Cl. 74—424.8.
- Wise, Ralph H., to The Anderson Co. Motor mounting. 2,951,667, 9-6-60, Cl. 248—15.
- Wise, Ralph H., to The Anderson Co. Window operator. 2,955,816, 10-11-60, Cl. 268—124.
- Wise, Ralph H., to The Anderson Co. Clutch mechanism. 2,962,309, 11-29-60, Cl. 287—53.
- Wise, Ralph H., to The Anderson Co. Motion conversion unit. 2,966,069, 12-27-60, Cl. 74—424.8.
- Wise, Ralph H., to The Anderson Co. Motion conversion unit. 2,966,070, 12-27-60, Cl. 74—424.8.
- Wise, Ralph H., to The Anderson Co. Motion-transmitting device. 2,966,071, 12-27-60, Cl. 74—424.8.
- Wise, Ralph H., to The Anderson Co. Motion converting mechanism within motor shaft. 2,966,072, 12-27-60, Cl. 74—424.8.
- Wise, Ralph H., to The Anderson Co. Motion-transmitting device. 2,966,077, 12-27-60, Cl. 74—798.
- Wise, Robert A.: *See—*  
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- Wise, Robert T., to Drumstick, Inc. Apparatus for packaging an edible article. 2,934,872, 5-3-60, Cl. 53—296.
- Wise, Robert T., to Drumstick, Inc. Packaged edible article. 2,965,499, 12-20-60, Cl. 99—180.
- Wise, Samuel P., and B. O. Straus, to The Sherwin-Williams Co. Viscosity stabilization of latex emulsion paints containing proteins by inclusion therein of aldehydes. 2,956,962, 10-18-60, Cl. 260—8.
- Wise, William M. Hydraulic weighing scale. 2,920,654, 1-12-60, Cl. 137—778.
- Wiseman, Adolph D. Dental tool. 2,921,373, 1-19-60, Cl. 32—59.
- Wiseman, Arthur W.: *See—*  
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- Wiseman, Edward L.: *See—*  
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- Wiseman, Neil L., to General Dynamics Corp. Scale-of-two pulse counting circuit. 2,949,542, 8-16-60, Cl. 307—88.
- Wiseman, Neil L., to General Dynamics Corp. Variable multivibrator. 2,949,548, 8-16-60, Cl. 307—88.5.
- Wiseman-Shardlow, Arthur: *See—*  
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- Wisgrda, William M., to U.S. Electrical Motors, Inc. Self-aligning bearing structure. 2,942,918, 6-28-60, Cl. 308—72.
- Wishaw, Edgar E. Unloader for grain elevators etc. 2,941,842, 6-21-60, Cl. 302—52.
- Wisken, Adolf, and J. J. Baier. Method of heat treating metals by electrolytic processes. 2,953,672, 9-20-60, Cl. 219—71.
- Wiskoff, Arthur E., to Trico Machine Products Corp. Device for setting calipers and the like. 2,954,611, 10-4-60, Cl. 33—125.
- Wisler, John F.: *See—*  
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- Wisman, Andrew P., to C. G. Hartman. Assembly for supporting an outboard motor. 2,928,630, 3-15-60, Cl. 248—4.
- Wisman, Franklin O., to Bendix Aviation Corp. Solenoid valve. 2,935,091, 5-3-60, Cl. 137—623.
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- Wisner, Kenneth R., to Curtiss-Wright Corp. Method of making magnetic recording units. 2,943,384, 7-5-60, Cl. 29—155.59.
- Wisner, William R., to Corning Glass Works. Lamp manufacture. 2,946,641, 7-26-60, Cl. 316—19.
- Wisniewski, William E., to Ford Motor Co. Motor vehicle air suspension system having adjustable valve control. 2,939,723, 6-7-60, Cl. 280—124.
- Wisniewski, Henryk U. Prevention of screeching combustion in jet engines. 2,927,423, 3-8-60, Cl. 60—35.6.
- Wisspe Corp.: *See—*  
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- Wiss, J., & Sons Co.: *See—*  
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- Wissebach, Heinrich, to Lever Brothers Co. Edible fats and process of making same. 2,942,984, 6-28-60, Cl. 99—118.
- Wisseroth, Karl, and E.-G. Kastning, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Polymerization of olefins with catalyst of aluminum tributyl and titanium tetrachloride. 2,945,846, 7-19-60, Cl. 260—94.9.
- Wissmiller, Ivan L.: *See—*  
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- Wistrand, John C., to Brown & Bigelow. Desk air fan. 2,931,562, 4-5-60, Cl. 230—117.
- Wistrand, John C., to Brown & Bigelow. Automobile vacuum cleaner. 2,960,713, 11-22-60, Cl. 15—344.
- Wiswall, Richard H., to United States of America, Atomic Energy Commission. Separation of rare-earth metal fission products from liquid U-bi. 2,936,231, 5-10-60, Cl. 75—84.1.
- Wiswell, Grant A. Traffic center line method and apparatus. 2,931,279, 4-5-60, Cl. 94—15.
- Wiswesser, William J., to The Electric Storage Battery Co. Window canister assembly. 2,961,303, 11-22-60, Cl. 23—284.
- Wiszuk, Walter. Magnetic curtain and drapery rods. 2,948,407, 8-9-60, Cl. 211—105.3.
- Witcher, Clifford M., to United States of America, Army. Guidance device. 2,922,992, 1-26-60, Cl. 340—258.
- Witchey, Albert L., to Radio Corp. of America. Horn-type transducer. 2,942,071, 6-21-60, Cl. 179—115.5.
- Witco Chemical Co., Inc.: *See—*  
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- Withers, James C., and P. E. Ritt, Jr., to Melpar, Inc. Plating of iridium. 2,929,766, 3-22-60, Cl. 204—32.
- Withers, Louis A. Paper glove and method and apparatus for producing same. 2,950,482, 8-30-60, Cl. 2—169.
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- Witt, Daniel L.: *See—*  
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- Witt, Everette E., and F. W. Holt, Jr., to The Commonwealth Engineering Co. of Ohio. Dextran-sulfite liquor solids adhesives. 2,933,405, 4-19-60, Cl. 106—123.
- Witt, Everette E., and F. W. Holt, Jr., to The Commonwealth Engineering Co. of Ohio. Dextrin-dextran adhesives. 2,933,407, 4-19-60, Cl. 106—162.
- Witt, George A. Propeller. 2,948,254, 8-9-60, Cl. 115—117.
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- Witt, James, and R. L. Bower, to The Urex Co. Male urine drain. 2,940,450, 6-14-60, Cl. 128—295.
- Witt, Kenneth F., to Goodspeed Machine Co. Back-knife wood-turning lathe. 2,939,496, 6-7-60, Cl. 142—17.
- Witt, Richard P. Variable speed power transmission device. 2,941,409, 6-21-60, Cl. 74—217.
- Witt, Richard P., to ACF Industries, Inc. Tape recording. 2,965,708, 12-20-60, Cl. 178—6.6.
- Witt, Russell E., to Pacific Automation Products, Inc. Multi-conductor cable junction device. 2,962,542, 11-29-60, Cl. 174—76.
- Witt, Victor R., and R. C. Bradford, to International Business Machines Corp. Magnetic transducer. 2,922,231, 1-26-60, Cl. 340—174.
- Witt, Walter, to Minneapolis-Honeywell Regulator Co. Analyzing apparatus. 2,964,993, 12-20-60, Cl. 88—14.
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- Wittcoff, Harold, to General Mills, Inc. Paper product containing anionic polyamide resin suspensoid. 2,926,117, 2-23-60, Cl. 162—168.
- Witte, Alfred, to Durkoppwerke Aktiengesellschaft. Process for making universal joint. 2,932,081, 4-12-60, Cl. 29—149.5.
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- Witte, Norman H., and E. Sipos, to Central Soya Co., Inc. Treating soapstock. 2,929,714, 3-22-60, Cl. 99—4.
- Witte, Roy, to General Time Corp. Mechanism for automatically adjusting clock regulators. 2,948,109, 8-9-60, Cl. 58—109.
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- Witter, Mathias. Protective device. 2,943,866, 7-5-60, Cl. 280—150.
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- Wittl, Casimir T., and F. J. Jenkins, to The Goodyear Tire & Rubber Co. Pneumatic shock absorber. 2,964,139, 12-13-60, Cl. 188-87.
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- Wittnebert, Frederick R., R. L. Spaulding, and R. A. Lawton, to The Parker Pen Co. Fountain pen. 2,935,044, 5-3-60, Cl. 120-50.
- Wittren, Richard A., to Deere & Co. Hydraulic steering system. 2,920,712, 1-12-60, Cl. 180-79.2.
- Wittren, Richard A., to Deere & Co. Control mechanism. 2,936,649, 5-17-60, Cl. 74-473.
- Wittren, Richard A., to Deere & Co. Hydraulic control system. 2,943,500, 7-5-60, Cl. 74-334.
- Wittwer, Norman C., Jr., to Bell Telephone Laboratories, Inc. Electrode support and spacing structure for electron discharge devices. 2,933,636, 4-19-60, Cl. 313-357.
- Witucki, Robert M., and A. E. Lewis, to Curtiss-Wright Corp. Method and apparatus for forming refractory articles. 2,936,505, 5-17-60, Cl. 25-156.
- Witucki, Robert M., and R. L. Curtis, to Curtiss-Wright Corp. High temperature furnace. 2,966,537, 12-27-60, Cl. 13-22.
- Witz, Henry W., to Nursmatic Corp. Nipple for baby nursing bottle. 2,960,083, 11-15-60, Cl. 128-252.
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- Woellward, William D. Devices for marking indicator lines on road surfaces. 2,940,105, 6-14-60, Cl. 15-131.05.
- Wogerbauer, Alfred. Method and apparatus for the manufacture of sections. 2,950,376, 8-23-60, Cl. 219-67.
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- Wohman, Fred, to Hughes Aircraft Co. Elongated object straightening apparatus. 2,935,097, 5-3-60, Cl. 140-147.
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- Wolfe, Walter W., S. R. Walstrom, and V. V. Nash, to Superior Separator Co. Multi-function attachments-carrier for farm loaders and the like, 2,935,802, 5-10-60, Cl. 37-117.5.
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- Wolff, Hans H., and S. T. L. Pettersson, to Stora Kopparbergs Bergslags Aktiebolag. Sintered hard alloys, 2,939,796, 6-7-60, Cl. 106-43.
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- Wolfson, Anthony S.: *See*—  
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- Wolfson, Anthony S., to Eitel-McCullough, Inc. Electron tube socket, 2,957,095, 10-18-60, Cl. 313-51.
- Wolfson, Byron L. Automatic jump rope apparatus, 2,950,779, 8-30-60, Cl. 183-37.
- Wolfson, Samuel S. Window lock, 2,922,671, 1-26-60, Cl. 292-1.
- Wolfson, Willem J., to Shell Oil Co. Treatment of catalytically cracked distillates with polyalkylphenol prior to alkali treatment, 2,953,522, 9-20-60, Cl. 208-231.
- Wolinski, Leon E., to E. I. du Pont de Nemours and Co. Composition comprising polyethylene and an ethylenically unsaturated aliphatic hydrocarbon of 20-35 carbon atoms and article thereof, 2,924,584, 2-9-60, Cl. 260-33.6.
- Wolinsky, Albert, to General Precision Laboratory Inc. Microwave system for velocity measurements, 2,923,000, 1-26-60, Cl. 343-8.
- Wolke, Roy K.: *See*—  
Bloom, Arnold W., and Wolke, 2,921,209.
- Woll, Albert, to Dinglerwerke Aktiengesellschaft. Device for the compaction of soil and dumped materials, 2,937,537, 5-24-60, Cl. 74-61.
- Woll, Johann: *See*—  
Herold, Robert, Petschel, Woll, and Haas, 2,935,673.
- Wollak, Robert: *See*—  
List, Heinz, and Wollak, 2,932,557.
- Wollensak Optical Co.: *See*—  
Ranft, Ludwig G., and Eibl, 2,937,563.  
Turula, Eugene, and Lynch, 2,925,010.
- Wollentin, Otto R.: *See*—  
Greiner, Arno, and Wollentin, 2,924,190.
- Wollerton, Charles E., to General Electric Co. Closing control scheme for a circuit breaker, 2,921,238, 1-12-60, Cl. 317-22.
- Wollett, Ernest S., 2% to S. G. Loeffler. Packaging finely divided materials, 2,959,900, 11-15-60, Cl. 53-24.
- Wollin, Ernest: *See*—  
Oberhuber, William F., and Wollin, 2,960,047.
- Wolner, Carl F., to Magnovia Co., Inc. Magnetic polisher, 2,934,779, 5-3-60, Cl. 15-257.
- Wolman, Lane L., to General Precision, Inc. Servo system with noise suppression feedback, 2,965,823, 10-20-60, Cl. 318-28.
- Wolman, Lane L., to General Precision, Inc. Servo damping mechanism, 2,965,828, 12-20-60, Cl. 318-448.
- Wolnak, Bernard: *See*—  
Kozloff, Lloyd M., 2,945,735.  
Kozloff, Lloyd M., 2,945,736.
- Wolpin, Martin P.: *See*—  
Baltus, George T., and Wolpin, 2,947,286.  
Fletcher, Harold K., Seamone, and Wolpin, 2,950,703.
- Wolshin, Louis, 50% to Dr. S. Axelrod. Means for inflating life saving devices, 2,919,833, 1-5-60, Cl. 222-5.
- Wolshin, Louis, 50% to Dr. S. Axelrod. Inflatable beach mat and a supporting frame therefor, 2,946,067, 7-26-60, Cl. 5-344.
- Wolshin, Louis, 50% to S. Axelrod. Inflatable shelter device, 2,946,337, 7-26-60, Cl. 135-1.
- Wolsky, Sumner P., to United States of America, Navy. Method of making junction semiconductor devices, 2,937,961, 5-24-60, Cl. 148-1.5.
- Wolstenholme, Harold: *See*—  
Mather, William L., and Wolstenholme, 2,934,072.
- Wolter, Harry A., to Diamond National Corp. Pulp molding apparatus, 2,948,337, 8-9-60, Cl. 162-392.
- Wolter, Harry A., to Diamond National Corp. Tray feeding apparatus, 2,948,434, 8-9-60, Cl. 221-221.
- Wolter, Harry A., to Diamond National Corp. Pulp molding apparatus, 2,961,042, 11-22-60, Cl. 162-394.



- Wolters, Carl F., to Sperry Rand Corp. Bolt relocking device for safes. 2,947,160, 8-2-60, Cl. 70-1.5.
- Wolters, Everett R. Control for heating unit. 2,949,958, 8-23-60, Cl. 158-42.4.
- Wolters, Everett R. Heating unit control. 2,961,040, 11-22-60, Cl. 158-4.
- Wolverine Equipment Co.: See—  
Gerrish, Grenville B. 2,938,714.
- Wolverine Fabricating & Mfg. Co., Inc.: See—  
Schiedelbein, Maurice C. 2,957,784.
- Wolverson, Thomas H.: See—  
Taylor, Humphrey G. 2,949,617.  
Taylor, Humphrey G., Powell, and Wolverson. 2,929,081.
- Wolz, Hermann: See—  
Schraufstatter, Ernst, Gottsacker, and Wolz. 2,945,782.
- Womack, Jack M., to Cavalier Corp. Carbonated beverage dispenser. 2,944,703, 7-12-60, Cl. 222-76.
- Womack, Walter H.: See—  
Simmons, Archie L., and Womack. 2,946,126.
- Wonder Products Co.: See—  
Koller, Edward J., and Parks. 2,937,022.  
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- Wonders, Harry R.: See—  
Medert, Warren C., and Wonders. 2,920,556.
- Wondrack, Edward R. Infant's toilet seat. 2,940,086, 6-14-60, Cl. 4-239.
- Wong, Herbert K., to University of Illinois Foundation. Ceiling structure. 2,943,367, 7-5-60, Cl. 20-4.
- Wong, William: See—  
Faatz, Albert C., Jr., Loporto, and Wong. 2,937,077.
- Wonneberger, William P., to Automatic Canteen Co. of America. Measuring apparatus. 2,965,140, 12-20-60, Cl. 141-1.
- Wonso, Stanley. Painting roller. 2,927,334, 3-8-60, Cl. 15-132.5.
- Woo, Way D., to Minneapolis-Honeywell Regulator Co. Information signal processing apparatus. 2,934,746, 4-26-60, Cl. 340-174.
- Woo, Way D., and R. E. Wilkins, to Raytheon Co. Apparatus for concentrating flux in magnetic printing. 2,962,339, 11-29-60, Cl. 346-74.
- Wood, Alan, Steel Co.: See—  
Ehlinger, Louis J. 2,924,153.  
Taylor, Harold E. 2,934,806.
- Wood, Andrew C., to American Can Co. One-piece flat bottom paper cup. 2,925,208, 2-16-60, Cl. 229-1.5.
- Wood, Arthur D., to National Research Council. Aircraft with split flaps and gas jet boundary layer control. 2,940,690, 6-14-60, Cl. 244-12.
- Wood Associates, Inc.: See—  
Tufty, Harold G. 2,955,991.
- Wood & Brooks Co.: See—  
Hucke, Ewald W., and Mitchell. 2,963,934.
- Wood, Byron A. Conveyor mechanism for garments on hangers. 2,947,407, 8-2-60, Cl. 198-66.
- Wood, Charles W., to Standard-Thomson Corp. Double valve thermostat. 2,926,853, 3-1-60, Cl. 236-34.
- Wood, Charles W., and N. T. Pierce, to Lamson Corp. Carrier for pneumatic tube system. 2,961,187, 11-22-60, Cl. 243-35.
- Wood Conversion Co.: See—  
Carlson, Lorian A. 2,952,101.  
Carlson, Lorian A. 2,963,058.  
Duvall, Thure C. 2,926,417.  
Heritage, Clark C. 2,940,133.  
Heritage, Clark C. 2,940,134.  
Heritage, Clark C. 2,940,135.
- Wood, Cyrus F.: See—  
Hurlbert, Clifford F., and Wood. 2,934,892.
- Wood, Cyrus F., to Westinghouse Electric Corp. Control apparatus. 2,934,966, 5-3-60, Cl. 74-105.
- Wood, Daniel R., to General Dynamics Corp. Crimping tool. 2,933,000, 4-19-60, Cl. 81-15.
- Wood, David D.: See—  
Schroeder, Robert C. 2,963,992.
- Wood, Donald W.: See—  
Hill, Arthur B., and Wood. 2,935,538.
- Wood, Edward L.: See—  
Aske, Charles B., Jr., and Wood. 2,963,325.  
Aske, Charles B., Jr., and Wood. 2,964,354.  
Barnes, James H. 2,937,426.  
Barnes, James H. 2,937,902.  
Barnes, James H. 2,937,904.  
Barnes, James H. 2,963,319.  
Barnes, James H. 2,964,357.
- Wood, Edward L., to Gar Wood Industries, Inc. Tire trim. 2,937,901, 5-24-60, Cl. 301-37.
- Wood, Edward L., to Gar Wood Industries, Inc. Tire trim. 2,937,903, 5-24-60, Cl. 301-37.
- Wood, Edward L., 1/2 to C. B. Aske, Jr. Vehicle wheel trim. 2,963,324, 12-6-60, Cl. 301-37.
- Wood, Edward L., 1/2 to Charles B. Aske, Jr. Tire trim. 2,963,326, 12-6-60, Cl. 301-37.
- Wood, Edwin H. Starting stalls for use on racecourses. 2,949,095, 8-16-60, Cl. 119-15.5.
- Wood Electric Co., Inc.: See—  
Brackett, Lawrence W. 2,955,177.
- Wood Electric Corp.: See—  
Brackett, Lawrence W. 2,958,749.  
Wood, Morris B. 2,960,587.  
Wood, Morris B. 2,961,513.
- Wood, Frederick B., to International Business Machines Corp. Apparatus for printing on heat sensitive media. 2,957,315, 10-25-60, Cl. 62-3.
- Wood, Fredric E., to Automatic Electric Laboratories, Inc. Telephone exclusion key. 2,946,856, 7-26-60, Cl. 179-99.
- Wood, Gar, Industries, Inc.: See—  
Gwinn, Joseph M., Jr. 2,931,446.  
Gwinn, Joseph M., Jr. 2,939,594.  
Gwinn, Joseph M., Jr. 2,963,802.  
Wood, Edward L. 2,937,901.  
Wood, Edward L. 2,937,903.  
Wreford, John S. 2,931,850.  
Wreford, John S. 2,939,902.
- Wood, George. Means for modifying the operating characteristics of internal combustion engines. 2,948,274, 8-9-60, Cl. 123-198.
- Wood, George. Hydraulic lash adjusters. 2,966,151, 12-27-60, Cl. 123-90.
- Wood, George A., Jr.: See—  
Lamada, Ralph M., Jr., Whitehouse, Di Maggio, Hall, and Wood. 2,954,906.
- Wood, George I., Jr., and F. C. Egley, to Western Tool and Stamping Co. Traction wheel driving means. 2,963,103, 12-6-60, Cl. 180-70.
- Wood, Gross W., to R. G. L'Esperance. Support clip. 2,921,393, 1-19-60, Cl. 40-11.
- Wood, Gross W., to R. G. L'Esperance. Advertising display support for price panels. 2,941,321, 6-21-60, Cl. 40-11.
- Wood, Herbert H., to Thomas Walker Ltd. Separable fastening devices for wearing apparel. 2,950,516, 8-30-60, Cl. 24-222.
- Wood, Herbert H., to Thomas Walker Ltd. Fastening devices for wearing apparel. 2,964,817, 12-20-60, Cl. 24-227.
- Wood, Homer J., to The Garrett Corp. Variable speed drive. 2,940,338, 6-14-60, Cl. 74-740.
- Wood, Homer J., to The Garrett Corp. Cooling turbine. 2,958,458, 11-1-60, Cl. 230-116.
- Wood, James: See—  
Douglas, Jack B., and Wood. 2,953,886.
- Wood, James M., Sr.: See—  
Wheeler, George R., and Wood. 2,934,986.
- Wood, James M. Receptacle for litter. 2,931,550, 4-5-60, Cl. 224-42.42.
- Wood, James Q., and L. W. Pollock, to Phillips Petroleum Co. Drying of wet carbon black pellets. 2,952,921, 9-20-60, Cl. 34-36.
- Wood, John, Jr.: See—  
Bingford, Robert S., Bolgen, Cheeseman, and Wood, Jr. 2,963,082.
- Wood, John A., to The Martin Co. General purpose trailer. 2,947,565, 8-2-60, Cl. 296-3.
- Wood, John F., to Electro-Voice, Inc. Phonograph pickup cartridge case and mechanism. 2,921,145, 1-12-60, Cl. 179-100.41.
- Wood, John F., to Electro-Voice, Inc. Transducer power supply for oscillators. 2,928,052, 3-8-60, Cl. 331-185.
- Wood, John F., to Electro-Voice, Inc. Dual needle phonograph cartridge. 2,931,658, 4-5-60, Cl. 274-36.
- Wood, John F., to Electro-Voice, Inc. Drive mechanism. 2,937,816, 5-24-60, Cl. 242-55.12.
- Wood, Joseph D.: See—  
Caswell, Arthur S., and Wood. 2,955,182.
- Wood, Joseph K., to General Spring Corp. Spring support. 2,929,594, 3-22-60, Cl. 248-54.
- Wood, Joseph K. Spring support. 2,949,270, 8-16-60, Cl. 248-54.
- Wood, Leo K. D., to Foster Wheeler Ltd. Apparatus for the evaporation or distillation of water. 2,921,004, 1-12-60, Cl. 202-177.
- Wood, Lorin A. Length adjusting structure. 2,930,639, 3-29-60, Cl. 287-58.
- Wood, Louis S. Automatic dual pump single-multiple stage low-high pressure fluid supply means. 2,965,036, 12-20-60, Cl. 103-10.
- Wood, Marc, Societe Anonyme pour la Promotion des Echanges Techniques Internationaux: See—  
Gewiss, Lucine V. 2,950,656.
- Wood, Marion L.: See—  
Henle, Robert A., and Wood. 2,943,791.
- Wood, Marion L., to International Business Machines Corp. Integrating device. 2,942,779, 6-28-60, Cl. 235-154.
- Wood, Morris B., to Wood Electric Corp. Trip-free overload circuit breaker. 2,960,587, 11-15-60, Cl. 200-116.
- Wood, Morris B., to Wood Electric Corp. Trip-free circuit breaker. 2,961,513, 11-22-60, Cl. 200-116.
- Wood, Morris E., to Higbie Mfg. Co. Spinning reel. 2,925,229, 2-16-60, Cl. 242-84.2.
- Wood Newspaper Machinery Corp.: See—  
Keightley, William E. 2,920,887.  
Ricards, Charles L., Tollison, Campbell, and Oderman. 2,945,438.  
Scott, David J. 2,953,090.  
Tollison, Paul L., and Ricards. 2,944,306.
- Wood, O. Wendell, to Johnson & Johnson. Method for perforating movie film splicing tape. 2,955,066, 10-4-60, Cl. 154-125.
- Wood, Orville T., to Pratt, Read and Co., Inc. Apparatus and method for constructing pivotal connections. 2,947,849, 8-2-60, Cl. 219-150.
- Wood, Orville T., to Pratt, Read & Co., Inc. Two-part plastic flange. 2,948,180, 8-9-60, Cl. 84-251.



- Wood, Paul R., to United States Rubber Co. Butyl rubber powder, method of making, and asphalt composition containing same. 2,952,650, 9-13-60, Cl. 260—28.5.
- Wood, Philip: *See*—  
Bird, Raymond, and Wood. 2,935,259.
- Wood Processes (Oregon) Ltd.: *See*—  
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- Wood Products Development Co., Inc.: *See*—  
Tibbals, Charles E. 2,961,021.
- Wood, Richard H.: *See*—  
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- Wood, Richard H. High voltage power line clamp. 2,931,004, 3-29-60, Cl. 339—109.
- Wood, Robert. Fifth wheel. 2,960,352, 11-15-60, Cl. 280—433.
- Wood, Robert M.: *See*—  
Hamilton, George, and Wood. 2,942,568.
- Wood, Robert S.: *See*—  
Booth, Douglas, and Wood. 2,932,254.  
Weikart, John, Bushnell, Ward, and Wood. 2,959,538.
- Wood Shovel and Tool Co., The: *See*—  
Olvey, Charles L. 2,937,046.
- Wood, Straud K., and W. J. Friesen. Fluid timed parking meter. 2,963,851, 12-13-60, Cl. 58—141.
- Wood, Sumner C.: *See*—  
Henwood, James B., and Wood. 2,920,691.
- Wood, Thomas K. Apparatus for manufacturing glass beads. 2,945,326, 7-19-60, Cl. 49—58.
- Wood, Thomas K. Apparatus for manufacturing glass beads. 2,947,115, 8-2-60, Cl. 49—58.
- Wood, Wilbur G.: *See*—  
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- Wood, Wilfred R. Inboard propulsion unit for boats. 2,961,988, 11-29-60, Cl. 115—41.
- Wood, William A., Jr., and H. M. Strub, Jr., to The Duplan Corp. Yarn and method of making same. 2,962,857, 12-6-60, Cl. 57—157.
- Wood, William L.: *See*—  
Gray, James H., and Wood. 2,943,431.
- Wood, William L., to Allis-Chalmers Mfg. Co. Cotton picking spindle means. 2,935,835, 5-10-60, Cl. 56—50.
- Wood, William M., to Laukhuff-Pratt Mfg. Corp. Automatic packaging machine and method of forming a tube from a web. 2,951,322, 9-6-60, Cl. 53—28.
- Wood, William P. Water saving means for water closets. 2,939,152, 6-7-60, Cl. 4—67.
- Wood, William S.: *See*—  
Holmes, William R., Le Feuvre, Lait, and Wood. 2,930,803.
- Wood, Winchester R., to General Electric Co. Nested flexible coupling for dynamoelectric machines. 2,956,187, 10-11-60, Cl. 310—75.
- Woodacre, Ernest E., to E. I. du Pont de Nemours and Co. Method for the preparation of tinting patterns for plastic sheeting. 2,957,766, 10-25-60, Cl. 96—27.
- Woodall Industries, Inc.: *See*—  
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- Woodard, Dudley H.: *See*—  
Allen, Lloyd R., and Woodard. 2,944,879.  
Allen, Lloyd R., and Woodard. 2,944,880.
- Woodard, Roy S. Window. 2,920,358, 1-12-60, Cl. 20—11.
- Woodard, Vernon L., to Hiller Aircraft Corp. Driver's seat. 2,963,074, 12-6-60, Cl. 155—5.
- Woodberry, Norman T., to American Cyanamid Co. Dry strength paper. 2,959,514, 11-8-60, Cl. 162—168.
- Woodberry, Norman T., to American Cyanamid Co. Water-soluble reaction composition of hydroxylamine with acrylamide-acrylonitrile copolymer. 2,959,574, 11-8-60, Cl. 260—85.5.
- Woodbury, William W., to International Business Machines Corp. Electronic calculator. 2,923,469, 2-2-60, Cl. 235—61.9.
- Woodbury, William W., G. J. Toben, and N. A. Vogel, to International Business Machines Corp. High speed punch. 2,951,534, 9-6-60, Cl. 164—111.
- Wooderson, Trevor: *See*—  
Still, Michael H., Wooderson, and Fry. 2,960,877.
- Woodfield, Luther E. Flounder gig. 2,951,306, 9-6-60, Cl. 43—6.
- Woodford, Fred W., to The Eagle-Picher Co. Production of barium hydroxide. 2,927,000, 3-1-60, Cl. 23—186.
- Woodford Mfg. Co.: *See*—  
Noland, Wayne B. 2,932,313.
- Woodhead, Ebert A. Retractable stirrup supporting device. 2,935,833, 5-10-60, Cl. 54—48.
- Woodhead, James, to International Computers and Tabulators Ltd. Printing apparatus. 2,954,860, 10-4-60, Cl. 197—19.
- Woodhead, Jonas, & Sons Ltd.: *See*—  
Martin, Gavin P. B. 2,946,582.
- Woodhull, John K. Hair gathering vacuum cleaner attachment. 2,933,753, 4-26-60, Cl. 15—360.
- Woodle, Robert A.: *See*—  
McCoy, Frederic C., McClure, Woodle, and Murphy. 2,935,468.
- Woodle, Robert A., J. K. McKinley, R. F. Huhndorff, and C. H. McIntosh, to Texaco Inc. Naphtha treating process. 2,943,037, 6-28-60, Cl. 108—79.
- Woodling, George V. Fluid coupling connection with contractible sleeve. 2,930,635, 8-29-60, Cl. 285—341.
- Woodling, George V. Fluid thread sealing connection. 2,960,353, 11-15-60, Cl. 285—89.
- Woodman Co., Inc., The: *See*—  
Woodman, Daniel E. 2,923,399.  
Woodman, Daniel E. 2,945,580.
- Woodman, Daniel E., to The Woodman Co., Inc. Rotating conveyor. 2,923,399, 2-15-60, Cl. 198—210.
- Woodman, Daniel E., to The Woodman Co., Inc. Vibrating-agitating type feeder. 2,945,580, 7-19-60, Cl. 198—59.
- Woodman, Jess O. Dent removing hand tool for sheet metal. 2,834,984, 5-3-60, Cl. 81—15.
- Woodman, Kenneth L., to Westinghouse Electric Corp. Electronic ovens. 2,956,144, 10-11-60, Cl. 219—10.55.
- Woodmansee, John B. Automatic moisture extractor for compressed air lines. 2,958,394, 11-1-60, Cl. 183—41.
- Woodrey, Kenneth C. Toy golfer. 2,960,796, 11-22-60, Cl. 46—245.
- Woodring, Clarence W., and J. E. Knepper. Stencil with magnetic holding means. 2,935,936, 5-10-60, Cl. 101—128.1.
- Woodring, William B., and R. E. Morgan, to Olin Mathieson Chemical Corp. Set trigger mechanism. 2,935,808, 5-10-60, Cl. 42—69.
- Woodrow, Louis J. Discardable dentifrice applicator. 2,932,044, 4-12-60, Cl. 15—131.
- Woodruff, Eugene H., and P. H. Seay, to The Upjohn Co. 3,4-dihydroxyphenyl isopropyl ketone. 2,929,848, 3-22-60, Cl. 260—592.
- Woodruff, Maurice D., and C. K. Textor, to The Bauer Bros. Co. Disc refiner. 2,947,485, 8-2-60, Cl. 241—32.
- Woodruff, Ralph D., to D. W. Winkelman Co. Portable gantry crane. 2,936,907, 5-17-60, Cl. 212—13.
- Woodruff & Stokes Co.: *See*—  
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- Woods, Doris M.: *See*—  
Woods, George B. 2,950,487.
- Woods, George B., deceased (D. M. Woods, executrix), to E. F. Connors, Jr. Swimming fin device. 2,950,487, 8-30-60, Cl. 9—304.
- Woods, Gordon K. Magnetic hydrometer. 2,922,300, 1-26-60, Cl. 73—32.
- Woods, Harold A.: *See*—  
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- Woods, Harry P. Rotary lawn sprinkler. 2,962,220, 11-29-60, Cl. 239—97.
- Woods, Henry B.: *See*—  
Baur, George W., and Woods. 2,920,872.
- Woods, Herbert J., to Burlington Industries, Inc. Method of producing slub yarns. 2,927,417, 3-8-60, Cl. 57—156.
- Woods, Herbert J., to Burlington Industries, Inc. Slubbing attachment for spinning frame. 2,929,114, 3-22-60, Cl. 19—143.5.
- Woods, James H. Air de-contaminator. 2,937,712, 5-24-60, Cl. 183—25.
- Woods, Jay C.: *See*—  
Kanady, William E., and Woods. 2,963,179.
- Woods, John A.: *See*—  
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- Woods, John A., to Libbey-Owens-Ford Glass Co. Method of fabricating multiple glass sheet glazing units. 2,923,099, 2-2-60, Cl. 49—82.
- Woods, John A., to Libbey-Owens-Ford Glass Co. Method of producing multiple sheet glazing units. 2,951,317, 9-6-60, Cl. 49—82.
- Woods, John E., to Standard-Thomson Corp. Pressure operated valve. 2,925,936, 2-23-60, Cl. 251—57.
- Woods, John E., to Standard-Thomson Corp. High pressure transducer. 2,931,228, 4-5-60, Cl. 73—368.4.
- Woods, John E., to Standard-Thomson Corp. Ambient-compensated actuator. 2,941,404, 6-21-60, Cl. 73—368.3.
- Woods, John P., to The Atlantic Refining Co. Automatic volume control for seismograph signal amplifier. 2,958,048, 10-25-60, Cl. 330—144.
- Woods, John T.: *See*—  
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- Woods, Leroy R., to International Electronic Research Corp. Vibration table. Re. 2,4816, 4-26-60, Cl. 73—71.6.
- Woods, Leroy R., to International Electronic Research Corp. Tube shield liner. 2,935,549, 5-3-60, Cl. 174—35.
- Woods, Leroy R., to International Electronic Research Corp. Tube shield and base assembly. 2,951,108, 8-30-60, Cl. 174—35.
- Woods, Mary J.: *See*—  
Rudner, Bernard, and Woods. 2,946,790.
- Woods, Robert C., to The American Brass Co. Method of detecting surface conditions of sheet metal. 2,947,212, 8-2-60, Cl. 88—14.
- Wood's, T. B., Sons Co.: *See*—  
Williams, William A. 2,952,161.
- Woods, Verle W. Method of preparing suspensions of insecticides. 2,957,803, 10-25-60, Cl. 167—43.
- Woods, William E.: *See*—  
Wilson, Robert E., and Woods. 2,923,818.
- Woods-Hill, William, to International Computers and Tabulators Ltd. Electronic calculating apparatus. 2,954,927, 10-4-60, Cl. 235—159.
- Woodside, Frank G.: *See*—  
McGuire, George E., Uren, and Woodside. 2,923,418.
- Woodson, Robert A.: *See*—  
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- Woodson, William S., Jr., to The Manhattan Shirt Co. Sewing thread. 2,959,910, 11-15-60, Cl. 57—153.
- Woodthorpe, Geoffrey L. H.: *See*—  
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- Woodward, Arthur E.: See—  
Sixbey, Samuel R., and Woodward. 2,963,672.
- Woodward, Bernard, Jr., and G. N. Willis. Vibration controlled mine. 2,959,126, 11-8-60, Cl. 102-19.2.
- Woodward, Bernard, Jr., G. N. Willis, H. Small, and E. A. Schuchard. Fuze for depth charge. 2,965,028, 12-20-60, Cl. 102-7.
- Woodward, Clifford C., and C. T. Koochembere. Pilot and ejection seat energy absorption system. 2,945,654, 7-19-60, Cl. 244-122.
- Woodward, David S.: See—  
Finch, Lowell C. 2,958,510.
- Woodward, David W., and V. F. Chu, to E. I. du Pont de Nemours and Co. Photographic elements and processes of photography. 2,927,019, 3-1-60, Cl. 96-7.
- Woodward, David W., and V. F. Chu, to E. I. du Pont de Nemours and Co. Multilayer color photographic film. 2,927,024, 3-1-60, Cl. 96-74.
- Woodward, Eugene E., to Kerr-McGee Oil Industries, Inc. Sizing fibrous cellulosic materials. 2,954,313, 9-27-60, Cl. 162-171.
- Woodward, Fred E.: See—  
Montross, Charles F., Woodward, and Wuerth. 2,920,088.
- Woodward Governor Co.: See—  
Leeson, Plato J., and Weatherford. 2,965,137.
- Oldenburger, Rufus. 2,960,629.
- Oldenburger, Rufus, and Drake. 2,931,342.
- Plummer, Harland C. 2,943,607.
- Plummer, Harland C. 2,959,157.
- Woodward, Hiram W. Process for shaping sheet plastic material. 2,949,639, 8-23-60, Cl. 18-56.
- Woodward Iron Co.: See—  
Molloy, Thomas E., and Walters. 2,948,933.
- Woodward, J. G., to Radio Corp. of America. Noise elimination in a recorder-reproducer system. 2,957,953, 10-25-60, Cl. 179-100.2.
- Woodward, Kenneth E., to United States of America, Army. Protective container for electronic assemblies. 2,948,126, 8-9-60, Cl. 62-316.
- Woodward, Kenneth E., and R. Butterworth, to United States of America, Army. Fluid-cooled electrical module assembly. 2,942,856, 6-28-60, Cl. 257-250.
- Woodward, Lewis J.: See—  
Ellis, John C., Hoagland, and Woodward. 2,930,937.
- Woodward, Myrnesth L., H. E. Todd, and G. W. Onksen, to General Motors Corp. Automatic headlight dimmer system. 2,965,813, 12-20-60, Cl. 317-130.
- Woodward, Robert L. Skeleton wheels. 2,965,026, 12-20-60, Cl. 101-420.
- Woodward, Robert L. Skeleton wheels. 2,965,027, 12-20-60, Cl. 101-420.
- Woodward, Robert M.: See—  
Butler, Charles K., and Woodward. 2,937,436.
- Woodward, Stephen G., and C. A. Hartman, to Bendix Aviation Corp. Fuel supply system. 2,948,272, 8-9-60, Cl. 123-119.
- Woodward, Stewart A., to General Electric Co. Key operated multiple switch. 2,947,825, 8-2-60, Cl. 200-5.
- Woodward, William L. Magnetic control for float valves. 2,963,037, 12-6-60, Cl. 137-416.
- Woodworth, John H., to Socony Mobil Oil Co., Inc. Marine seismic transducer system. 2,923,916, 2-2-60, Cl. 340-17.
- Woodworth, Paul M., to National Concrete Masonry Association. Masonry construction systems. 2,957,278, 10-25-60, Cl. 50-273.
- Woodworth, Richard E., to Cook Electric Co. Antiskid device. 2,947,579, 8-2-60, Cl. 303-24.
- Woody, Irvin L. Lawn mower with adjustable roller. 2,929,190, 3-22-60, Cl. 56-249.
- Woodzick, Walter. Fishhooks. 2,932,116, 4-12-60, Cl. 43-44.6.
- Woofter, Robert C.: See—  
Lander, Richard J., Sims, and Woofter. 2,955,178.
- Woofter, Robert C., and R. G. Van Wingerden, to General Motors Corp. Socket and terminal means for pin-type lamp bulb connection. 2,953,769, 9-20-60, Cl. 339-191.
- Woolcock, James W., to Imperial Chemical Industries Ltd. Production of unsaturated hydrocarbons and methanol. 2,964,551, 12-13-60, Cl. 260-449.5.
- Wooldridge, James A.: See—  
Winter, Ernest F., and Wooldridge. 2,960,103.
- Wooldridge, Wilfred E. Antifungal antibiotic from *S. coelicolor* var. *aminophilus*. 2,956,925, 10-18-60, Cl. 167-65.
- Wooldridge, William A.: See—  
Cronin, Edward F., and Wooldridge. 2,937,359.
- Woolf, Cyril: See—  
Smith, Lee B., and Woolf. 2,942,036.
- Woolf, Don R., to Curtiss-Wright Corp. Propeller blade construction. 2,960,760, 11-22-60, Cl. 29-190.
- Woof, Julius I., and H. E. Ziemann, to Research Corp. Digital analogue multiplier. 2,966,302, 12-27-60, Cl. 235-151.
- Woolson, Martin G., R. E. Horman, and P. E. Seeley, to Westinghouse Electric Corp. Pulse stretching circuit. 2,933,687, 4-19-60, Cl. 328-58.
- Woollett, Ralph, and G. Boast, to F.N.F. Machinery Mfg. Co. Ltd. Warp knitting machines. 2,943,468, 7-5-60, Cl. 66-86.
- Woolsey, Theodore A., to Aeroquip Corp. Flexible fluid line coupling with spring loaded seal rings. 2,937,037, 5-17-60, Cl. 285-233.
- Woolslayer, Homer J., and C. Jenkins, to Lee C. Moore Corp. Barge-carried oil well drilling equipment. 2,934,905, 5-3-60, Cl. 61-46.5.
- Woolslayer, Homer J., C. Jenkins, R. C. Maxwell, and J. W. Born, to Lee C. Moore Corp. Apparatus and method for multiple well drilling. 2,963,123, 12-6-60, Cl. 189-11.
- Woolslayer, Homer J., and C. Jenkins, to Lee C. Moore Corp. Oil well derrick and method of erection. 2,963,124, 12-6-60, Cl. 189-15.
- Woolworth, Richard G., to Animal Trap Co. of America. Protective cover. 2,920,758, 1-12-60, Cl. 206-46.
- Wooten, Spencer D., Jr. Combined fire alarm and intercommunication system. 2,942,245, 6-21-60, Cl. 340-213.
- Wooten, William A. System for modulating a magnetic field for electrical reproduction. 2,933,555, 4-19-60, Cl. 178-6.6.
- Wooten, William A. Magnetic field reproducing apparatus. 2,943,156, 6-28-60, Cl. 179-100.2.
- Wootton, William C. Slider for installation of curtains. 2,934,782, 5-3-60, Cl. 16-93.
- Wootton, William C., to United-Carr Fastener Corp. Fastener keeper. 2,942,905, 6-28-60, Cl. 292-17.
- Wootton, William R., to Babcock & Wilcox Ltd. Nuclear power plant. 2,946,732, 7-26-60, Cl. 204-193.2.
- Wootton, William R., to Babcock & Wilcox Ltd. Nuclear reactor vapour generating and power plant. 2,952,602, 9-13-60, Cl. 204-193.2.
- Worbois, Robert J.: See—  
Wilson, Richard L., and Worbois. 2,926,965.
- Worcester Automatic Machine Co.: See—  
St. Jean, Robert R. 2,951,725.
- St. Jean, Robert R., and Warman. 2,924,342.
- Worcester, Joseph T. Commercial shrimp net. 2,948,980, 8-16-60, Cl. 43-9.
- Worcester Valve Co., Inc.: See—  
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- Sanctuary, Robert E. 2,963,263.
- Worden, Donald A.: See—  
Kowalski, Slawomir, and Worden. 2,930,404.
- Worden, Edgar C., to Synthetic Mica Corp. Method and apparatus for manufacturing synthetic mica. 2,923,754, 2-2-60, Cl. 13-23.
- Worden, Floyd O. Cattle oiler. 2,925,065, 2-16-60, Cl. 119-157.
- Worden, Floyd O. Sled mounted distributor for hay, straw and the like. 2,934,229, 4-26-60, Cl. 214-505.
- Worden, Floyd O. Chemical applicator for live stock. 2,949,885, 8-23-60, Cl. 119-157.
- Worden, Howard L. Buoyant wobbling type fish lure. 2,950,560, 8-30-60, Cl. 43-42.19.
- Worden, Lyle D., to Air Hydraulics, Inc. Paint mixing machine. 2,965,363, 12-20-60, Cl. 259-67.
- Wordie, John D.: See—  
Schaeffer, William D., and Wordie. 2,951,104.
- Wordsworth, Jack, to Armstrong Patents Co. Ltd. Hydro-pneumatic suspension units for vehicles. 2,942,873, 6-28-60, Cl. 267-64.
- Wordsworth, Jack, to Armstrong Patents Co. Ltd. Hydraulic piston and cylinder apparatus. 2,953,367, 9-20-60, Cl. 267-15.
- Wordsworth, Jack, and J. S. Eckersley, to Armstrong Patents Co. Ltd. Piston and cylinder arrangements. 2,922,636, 1-26-60, Cl. 267-15.
- Worffell, Udo, R. Behnisch, and F. Mietzsch, to Farbenfabriken Bayer Aktiengesellschaft. Sulfonamides. 2,921,066, 1-12-60, Cl. 260-239.95.
- Work, Guy W.: See—  
White, Joseph C., and Work. 2,951,802.
- Work, Lincoln T.: See—  
Trotter, Frederick J., Montgomery, Work, and Naeser. 2,935,402.
- Work, Lincoln T. Protopectin composition and method of preparation. 2,952,548, 9-13-60, Cl. 99-90.
- Workman, Francis, and L. N. Scheer. Prefabricated siding for buildings. 2,938,376, 5-31-60, Cl. 72-19.
- Workman, Harold A. Signalling device for roadside delivery receptacles. 2,927,726, 3-8-60, Cl. 232-34.
- Workman, Lawrence H.: See—  
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- Workman, Thomas E.: See—  
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- Workman, Woodrow I., to International Packings Corp. Closure device. 2,926,939, 3-1-60, Cl. 286-5.
- Workman, Woodrow I., to International Packings Corp. Piston seal. 2,927,830, 3-8-60, Cl. 309-23.
- Worldsbest Industries, Inc.: See—  
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- Worlidge, Ronald F., to The Loewy Engineering Co. Ltd. Extrusion handling equipment. 2,925,909, 2-23-60, Cl. 207-1.
- Worlidge, Ronald F., to The Loewy Engineering Co. Ltd. Extrusion pull-out devices. 2,923,679, 3-15-60, Cl. 279-1.
- Wormser, Eric M., and R. D. De Waard, to Barnes Engineering Co. Thermistor bolometers utilizing metal backing blocks. 2,963,673, 12-6-60, Cl. 338-18.
- Wormser, Eric M., and R. D. De Waard, to Barnes Engineering Co. Construction for thermistor bolometers. 2,963,674, 12-6-60, Cl. 338-18.
- Wormuth, Wilbur J., to General Electric Co. Low shrinkage silicone rubber composition containing a mixture of fillers. 2,938,011, 5-24-60, Cl. 260-37.



- Worn, David K.: *See*—  
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- Worn, George A., and E. J. Vanderman, to The Lummus Co. Tube welding. 2,928,166, 3-15-60, Cl. 29—157.5.
- Worn, George A., and G. W. Evans, Jr., to The Lummus Co. Condenser deaerator. 2,939,685, 6-7-60, Cl. 257—43.
- Worobey, Raymond G.: *See*—  
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- Woronoff, Malcolm. Mobile camera for lateral underground subway surveying and recording. 2,932,243, 4-12-60, Cl. 95—11.5.
- Worrall, Ashton L., Jr., to United States Rubber Co. Belt and gear drive. 2,934,967, 5-3-60, Cl. 74—229.
- Worrall, Ashton L., Jr., to United States Rubber Co. Belt and gear drive. 2,937,538, 5-24-60, Cl. 74—229.
- Worrel, Calvin J., to Ethyl Corp. Mercaptan preparation. 2,951,874, 9-6-60, Cl. 260—609.
- Worrell, Edsel A., and L. L. Kimball, to United States of America, Air Force. Multiple path ultrasonic delay line. 2,927,284, 3-1-60, Cl. 333—30.
- Worrell, Robert L.: *See*—  
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- Worsham, James E., and H. H. Stent, to General Electric Co. Variable blockage flame stabilizer. 2,936,585, 5-17-60, Cl. 60—39.72.
- Worst, Joseph C., to General Electric Co. Combination washer-dryer. 2,943,473, 7-5-60, Cl. 68—12.
- Worst, Joseph C., to General Electric Co. Combination washer-dryer. 2,961,861, 11-29-60, Cl. 68—12.
- Worstell, Hairston G., to Phillips Petroleum Co. Automatic engine cycle. 2,924,095, 2-9-60, Cl. 73—116.
- Worswick, Ronald J., to United States of America, Air Force. Sheet distributing machine. 2,919,917, 1-5-60, Cl. 271—64.
- Worth, Donald F.: *See*—  
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- Worth Engineering and Development Co.: *See*—  
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- Worth, Francis C., to Adolph Gottscho, Inc. Marking apparatus. 2,923,232, 2-2-60, Cl. 101—35.
- Worth, Francis, to Adolph Gottscho, Inc. Marking apparatus. 2,963,962, 12-13-60, Cl. 101—35.
- Worth, Harry J., to Union Oil Co. of California. Shear stable barium 12-hydroxy stearate grease containing a boron ester compound. 2,943,054, 6-28-60, Cl. 252—40.7.
- Worth, Harry J., to Union Oil Co. of California. Barium 12-hydroxy stearate grease containing a boron ester compound. 2,943,055, 6-28-60, Cl. 252—40.7.
- Worth, John L., to Sun Oil Co. Method and apparatus for conversion of organic reactants. 2,934,495, 4-26-60, Cl. 208—176.
- Worth, Maurice W., to James Lees and Sons Co. Cut and loop Axminster loom and method. 2,946,350, 7-26-60, Cl. 139—7.
- Worth, Maurice W., to James Lees and Sons Co. Axminster pile fabric. 2,946,355, 7-26-60, Cl. 139—401.
- Worth, Robert N., to Northrop Corp. Portable metal slotting saw. 2,921,492, 1-19-60, Cl. 83—471.
- Worth, Sidney V., and S. L. Yarbrough, to Philco Corp. Manufacture of electrical appliances with printed wiring panels. 2,923,859, 2-2-60, Cl. 317—101.
- Worth, Sidney V., and R. C. Rebling. Child's story book with shiftable pictures. 2,946,137, 7-26-60, Cl. 35—35.
- Worthington, Albert E., to California Research Corp. Countoured logging sonde. 2,942,111, 6-21-60, Cl. 250—83.3.
- Worthington Corp.: *See*—  
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- Hamilton, Clark B., and Pickle. 2,956,730.
- Hilkemeier, Louis G. 2,919,808.
- Hilkemeier, Louis G. 2,950,906.
- Jekat, Walter K. 2,921,804.
- Jekat, Walter K., Doolin, and Esatow. 2,956,505.
- Leopold, Wilbur B., and Towle. 2,950,683.
- Nicholas, Andrew J. 2,956,729.
- Nicholas, Andrew J., and Soumerai. 2,948,458.
- Pawlicki, Stefan S. 2,955,540.
- Rothenberg, Jerome H. 2,921,822.
- Seiden, Richard M. 2,954,991.
- Soumerai, Henri. 2,926,840.
- Szlachcic, Julian A. 2,922,390.
- Szlachcic, Julian A., and Dupler. 2,921,570.
- Tower, Henry M. 2,963,218.
- Watson, Ralph M., and Larrecq. 2,934,316.
- Williams, John G. 2,921,533.
- Williams, John G. 2,933,044.
- Williams, John G. 2,960,938.
- Williams, John G., and Luoma. 2,961,964.
- Worthington, Samuel L. Combination daubing and polishing device or the like. 2,945,250, 7-19-60, Cl. 15—118.
- Wortley, Gordon: *See*—  
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- Wortman, Herman B., and J. T. Thompson, to Westinghouse Electric Corp. Outdoor metal-clad switchgear. 2,952,799, 9-13-60, Cl. 317—103.
- Wortmann, Adolf. Insulator with cap in socket. 2,947,802, 8-2-60, Cl. 174—200.
- Wory, Daniel. Method for filling a hole in metal sheeting. 2,941,286, 6-21-60, Cl. 29—401.
- Woth, Theodore J.: *See*—  
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- Wotiz, John H., to Diamond Alkali Co. Stabilization of metal contaminated chloromethyl benzenes. 2,958,709, 11-1-60, Cl. 260—651.
- Wotring, Gaylord H., to General Electric Co. Range timer. 2,921,150, 1-12-60, Cl. 200—38.
- Wotring, John A.: *See*—  
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- Wottring, LeRoy: *See*—  
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- Wouk, Victor, to Sorensen & Co., Inc. Measuring circuits. 2,939,067, 5-31-60, Cl. 321—15.
- Wouters, Louis R., to United States of America, Atomic Energy Commission. Radiation wave detection. 2,951,158, 8-30-60, Cl. 250—71.5.
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- Wowra, Arthur B. Guard for dental drills and blank therefor. 2,924,013, 2-9-60, Cl. 32—29.
- Woyden, Stanley J. Automatic engine starting circuit. 2,952,782, 9-13-60, Cl. 290—37.
- Woydt, Eduard. Continuously variable drives. 2,929,269, 3-22-60, Cl. 74—687.
- Woydt, Eduard. Fluid pump or motor. 2,952,219, 9-13-60, Cl. 103—174.
- Woydt, Eduard, and A. Hauff; said Hauff assor. to said Woydt. Infinitely variable gear. 2,939,342, 6-7-60, Cl. 74—687.
- Woytych, Raymond M., to Giddings & Lewis Machine Tool Co. Attachable ways for machine columns. 2,947,224, 8-2-60, Cl. 90—11.
- Wraase, Wilbur A.: *See*—  
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- Wrase, Erich: *See*—  
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- Wrase, Erich, to G. M. Pfaff A.G. Loop taker lubrication for sewing and the like machines. 2,939,415, 6-7-60, Cl. 112—256.
- Wray, Edward J., to Canadian General Electric Co., Ltd. Brushgear assembly. 2,947,895, 8-2-60, Cl. 310—239.
- Wreford, John S., to Gar Wood Industries, Inc. Liquid-cooled welding cable. 2,931,850, 4-5-60, Cl. 174—15.
- Wreford, John S., to Gar Wood Industries, Inc. Welding cable. 2,939,902, 6-7-60, Cl. 174—15.
- Wren, John B., and J. H. Penney, to Westinghouse Electric Corp. Lint-free fan-cooled dynamoelectric machine. 2,924,729, 2-9-60, Cl. 310—56.
- Wren, John B., J. H. Penney, and C. W. Irwin, to Westinghouse Electric Corp. Clutch brake mechanism. 2,933,169, 4-19-60, Cl. 192—18.
- Wrench, Bernard E.: *See*—  
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- Wrenchall, Charlton L., J. R. McMahan, and R. C. Otke, to Chas. Pfizer & Co., Inc. Method of treating fresh meat. 2,942,982, 6-28-60, Cl. 99—107.
- Wride, Donald C. Silent cam follower. 2,966,152, 12-27-60, Cl. 123—90.
- Wride, William J., to Phillips Petroleum Co. Solvent recovery. 2,951,880, 9-6-60, Cl. 260—666.
- Wride, William J., and R. L. Kimmel, to Phillips Petroleum Co. Recovery of entrained polymer solids from gases. 2,953,557, 9-20-60, Cl. 260—94.9.
- Wright, Alexander M., to Chandler-Evans Corp. Vortex pump. 2,923,246, 2-2-60, Cl. 103—96.
- Wright, Alexander M. Fluid flow controls. 2,923,926, 2-2-60, Cl. 340—236.
- Wright, Alexander M., to Chandler-Evans Corp. Fluid clutch controlled vortex pump. 2,933,129, 4-19-60, Cl. 158—36.4.
- Wright, Alexander M., to Chandler-Evans Corp. Temperature control apparatus for turbojet engine. 2,952,974, 9-20-60, Cl. 60—39.3.
- Wright, Alexander M., and J. O. Nash, to Chandler-Evans Corp. Fuel control for internal combustion engine. 2,933,130, 4-19-60, Cl. 158—36.4.
- Wright, Allen J. Ladder top bumper. 2,925,877, 2-23-60, Cl. 182—108.
- Wright, Barry Corp.: *See*—  
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- Wright, Ben L.: *See*—  
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- McCain, Cecil C., Slaight, and Wright. 2,942,392.
- Wright, Bernard: *See*—  
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- Wright, Calvin A. Pitchometer and grinder mount. 2,941,301, 6-21-60, Cl. 33—174.
- Wright, Charles H.: *See*—  
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- Wright, Clifford B.: *See*—  
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- Wright, Clyde E.: *See*—  
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- Ingwer, Carl H., and Wright. 2,948,326.
- Wright, Dale E., deceased; S. Lacy, administrator, to The Ryan Aeronautical Co. Cascaded magnetic amplifier. 2,942,175, 6-21-60, Cl. 323—89.
- Wright, Edward J.: *See*—  
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- Wright, Edward J., to Deering Milliken Research Corp. Twisting arrangement. 2,946,175, 7-26-60, Cl. 57—58.3.
- Wright, Eric L., to Richards Structural Steel Co., Ltd. of Phoenix Iron Works. Driving means for conveyors. 2,966,078, 12-27-60, Cl. 74—805.



- Wright, Esmond P. G., and J. Rice, to International Standard Electric Corp. Timing equipment. 2,927,305, 3-1-60, Cl. 340-174.
- Wright, Esmond P. G., and J. Rice, to International Standard Electric Corp. Computing systems. 2,927,306, 3-1-60, Cl. 340-174.
- Wright, Esmond P. G., and J. Rice, to International Standard Electric Corp. Intelligence storage equipment. 2,932,009, 4-5-60, Cl. 340-174.
- Wright, Esmond P. G., J. Rice, and J. D. Reynolds, to International Standard Electric Corp. Electrical storage of intelligence. 2,932,688, 4-12-60, Cl. 178-2.
- Wright, Esmond P. G., and C. Parker, to International Standard Electric Corp. Mounting arrangements for components of electrical circuits. 2,942,332, 6-28-60, Cl. 29-155.55.
- Wright, Esmond P. G., D. A. Weir, and J. Rice, to International Standard Electric Corp. Information handling equipment. 2,945,625, 7-19-60, Cl. 235-155.
- Wright, Esmond P. G., D. A. Weir, and J. Rice, to International Standard Electric Corp. Teleprinter exchange system incorporating storage devices. 2,952,731, 9-13-60, Cl. 178-2.
- Wright, Esmond P. G., D. A. Weir, and J. Rice, to International Standard Electric Corp. Electric signalling systems. 2,952,732, 9-13-60, Cl. 178-2.
- Wright, Esmond P. G., J. Rice, and N. F. Fossey, to International Standard Electric Corp. Telegraphy encoding equipment comprising magnetic storage means. 2,958,726, 11-1-60, Cl. 178-17.
- Wright, Frank, to Prince-Smith & Stells Ltd. Yarn supply means in textile twisting machines. 2,930,181, 3-29-60, Cl. 57-83.
- Wright, Frank E.: See—  
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- Wright, George E. Multiple stage molding machine. 2,956,326, 10-18-60, Cl. 25-100.
- Wright, George J.: See—  
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- Wright, George W., to Tokheim Corp. Pressure-regulated fuel supply system. 2,920,690, 1-12-60, Cl. 158-36.3.
- Wright, George W., to Tokheim Corp. Dispenser control mechanism. 2,942,759, 6-28-60, Cl. 222-34.
- Wright, George W., and J. D. Clymer, to Tokheim Corp. Liquid fuel pumping apparatus. 2,935,025, 5-3-60, Cl. 103-87.
- Wright, George W., and J. D. Clymer, to Tokheim Corp. Motor-pump unit for automotive fuel. 2,947,259, 8-2-60, Cl. 103-87.
- Wright, George W., and J. A. Reynolds, to Tokheim Corp. Submersible pump. 2,960,937, 11-22-60, Cl. 103-87.
- Wright, George W., J. C. Kerr, and B. W. Foss, to Tokheim Corp. Impact and temperature responsive valve. 2,962,035, 11-29-60, Cl. 137-39.
- Wright, Gordon K., to Carrier Corp. Mechanical control for ice level in storage bin. 2,961,842, 11-29-60, Cl. 62-137.
- Wright, Harry D.: See—  
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- Wright, Henry T., to Derry Damask Mills, Inc. Float cutting mechanism. 2,966,174, 12-27-60, Cl. 139-291.
- Wright, Henry W. Shovel cart. 2,932,103, 4-12-60, Cl. 37-130.
- Wright, Howard B., M. B. Moore, and M. R. Vernsten, to Abbott Laboratories. Halogenated arylalkamine ethers. 2,928,832, 3-15-60, Cl. 260-247.7.
- Wright, Howard B., and M. B. Moore, to Abbott Laboratories. Method of inhibiting growth of fungi. 2,935,439, 5-3-60, Cl. 167-30.
- Wright, James H.: See—  
Karr, Clarence, Jr., Weatherford, and Wright. 2,960,479.
- Wright, Jay L., to Wright Mfg. Co. Combination evaporative cooler and ice box. 2,968,046, 12-27-60, Cl. 62-312.
- Wright, Jay L., and L. N. Tenney, to Wright Mfg. Co. Air filtering and purifying apparatus for air coolers. 2,926,747, 3-1-60, Cl. 183-4.3.
- Wright, Jay L., and O. C. Melgaard, to Wright Mfg. Co. Louver assembly. 2,959,117, 11-8-60, Cl. 98-40.
- Wright, Jerauld G., and D. S. L. Durie, to Her Majesty the Queen in the right of Canada as represented by the Minister of National Defence. Mechanical triangle solving mechanism. 2,933,242, 4-19-60, Cl. 235-61.
- Wright, John G.: See—  
Chafin, James M., Wright, and Wynn. 2,936,457.
- Wright, John G., J. M. Chafin, and G. M. Wynn, to The Autosoler Co. Wire package and support. 2,944,758, 7-12-60, Cl. 242-129.
- Wright, John R.: See—  
Armbruster, John T., and Wright. 2,938,426.
- Wright, John R., to American Optical Co. Eye testing instruments. 2,923,200, 2-2-60, Cl. 88-22.
- Wright, John R., to American Optical Co. Eye testing instruments. 2,949,810, 8-23-60, Cl. 88-22.
- Wright, John R., to Radio Condenser Co. Thrust bearing. 2,956,844, 10-18-60, Cl. 308-233.
- Wright, John W. T.: See—  
Howles, Donald A., and Wright. 2,937,308.
- Wright, Joseph: See—  
Butler, Henry J., and Wright. 2,934,173.
- Wright, Lawrence T.: See—  
Birkness, Harold A., Randall, and Wright. 2,943,674.
- Wright, Malcolm H.: See—  
Amsel, Donald, and Wright. 2,948,207.
- Wright, Manfred G.: See—  
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- Wright Mfg. Co.: See—  
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- Wright, Jay L. 2,966,046.
- Wright, Jay L., and Melgaard. 2,959,117.
- Wright, Jay L., and Tenney. 2,926,747.
- Wright, Oscar L.: See—  
Thompson, Charles E., and Wright. 2,931,773.
- Wright, Oscar L., to Continental Oil Co. Preparation of oil-dispersible highly basic sulfonates. 2,924,617, 2-9-60, Cl. 260-505.
- Wright, Oscar L., to Pittsburgh Coke & Chemical Co. Process of nitrating aromatic hydrocarbons aided by an aromatic ion exchange resin. 2,948,759, 8-9-60, Cl. 260-646.
- Wright, Oscar L., to Pittsburgh Coke & Chemical Co. Dry mixture. 2,952,581, 9-13-60, Cl. 167-14.
- Wright, Peter M., and P. S. Brandon, to Marconi's Wireless Telegraph Co. Ltd. Radar systems. 2,933,725, 4-19-60, Cl. 343-14.
- Wright, Peter M., and P. S. Brandon. Frequency modulated radar system. 2,965,896, 12-20-60, Cl. 343-17.5.
- Wright, Preston M.: See—  
Searles, William G., and Wright. 2,954,800.
- Wright, R. G., Co., Inc.: See—  
Edmunds, Ernest R. 2,956,297.
- Faust, Francis S. 2,926,811.
- Wright, Richard H.: See—  
Fiet, Owen O., and Wright. 2,958,721.
- Wright, Robert D., to Chicago Rawhide Mfg. Co. Controlled gap seal. 2,948,555, 8-9-60, Cl. 286-11.13.
- Wright, Robert E.: See—  
Colgate, Stirling A., Ferguson, Furth, and Wright. 2,946,914.
- Wright, Robert H.: See—  
Klinec, Ronald W., Porter, Wright, and Zitko. 2,955,563.
- Wright, Robert L., Jr., to Westinghouse Electric Corp. Non-electronic eccentricity detector. 2,957,126, 10-18-60, Cl. 324-34.
- Wright, Robert L., Jr., to Westinghouse Electric Corp. Non-electronic eccentricity indicator. 2,957,127, 10-18-60, Cl. 324-34.
- Wright, Robert M., to The American Oil Co. Annular venturi injector. 2,952,401, 9-13-60, Cl. 250-95.
- Wright, Rufus W.: See—  
Halpern, Otto, Johnson, and Wright. 2,951,247.
- Wright, Sheldon G., and R. M. Fowler, to Union Carbide Corp. Method for the production of aluminum carbide. 2,942,951, 6-28-60, Cl. 23-208.
- Wright, Thomas G.: See—  
Cochran, Carl J., Lawson, and Wright. 2,920,989.
- Wright, Dr. Thomas J.: See—  
Randall, Herman P. Re. 24,793.
- Wright, Walter P. Cabinet with built-in garbage receptacle. 2,934,390, 4-26-60, Cl. 312-270.
- Wright, Wilbur. Pug-mill mixer for asphalt plant. 2,961,224, 11-22-60, Cl. 259-104.
- Wright, Wilbur. Combined combustion chamber and skimmer blower for portable asphalt plant. 2,961,227, 11-22-60, Cl. 263-21.
- Wright, Wilbur C.: See—  
Riker, Ralph W., Brayton, and Wright. 2,929,688.
- Wright, William B., Jr., R. A. Hardy, Jr., and H. J. Brabander, to American Cyanamid Co. Diphenyl alkylenediamines and methods of preparing the same. 2,944,081, 7-5-60, Cl. 260-562.
- Wright, William H.: See—  
Cranford, John M., Teague, and Wright. 2,956,322.
- Wright, William T., to Minneapolis-Honeywell Regulator Co. Servomotor control apparatus for dirigible craft. 2,950,431, 8-23-60, Cl. 318-489.
- Wright, William W. Closure and carrying means for box-like containers. 2,922,566, 1-26-60, Cl. 229-46.
- Wrightfield, Ralph C., to Curtis Companies Inc. Method for securing rubber-like weather stripping. 2,924,007, 2-9-60, Cl. 29-450.
- Wrighton, Robert J., and C. E. Cushman, to Pacific Scientific Co. Control line regulator. 2,921,480, 1-19-60, Cl. 74-501.5.
- Wrightway Engineering Co.: See—  
Goodrie, Joseph J. 2,941,729.
- Goodrie, Joseph J. 2,962,226.
- Wrigley, Walter, F. E. Houston, and J. E. De Lisle, to Research Corp. Navigational apparatus. 2,953,858, 9-27-60, Cl. 33-204.
- Wrigley, Walter, F. E. Houston, and J. E. De Lisle, to Research Corp. Navigation system. 2,953,926, 9-27-60, Cl. 74-5.37.
- Wrigley, William B.: See—  
Scott, Thomas R., Jr., Robertson, and Wrigley. 2,954,537.
- Wrist, Peter E.: See—  
Burkhard, George, and Wrist. 2,928,466.
- Wrist, Peter E., to The Ontario Paper Co. Ltd. Drainage element for paper machines. 2,928,465, 3-15-60, Cl. 162-352.
- Wrob, Ronald M., D. T. Carlson, and F. N. Stephens, to Hallmark Cards, Inc. Embossing apparatus. 2,943,560, 7-5-60, Cl. 101-23.
- Wrobel, Werner, to Metabowerk Closs, Rauch & Schnizler K.G. Variable-ratio V-bent drive. 2,941,412, 6-21-60, Cl. 74-230.17.



- Wroblewski, Richard E., and H. I. Nolen, to Equipment Mfg., Inc. Rack construction. 2,948,409, 8-9-60, Cl. 211-147.
- Wroby, John S.: *See*—  
Forbush, Lothrop M., Rusnack, Stofflet, and Wroby. 2,956,632.
- Wroby, John S., to General Motors Corp. Road noise isolation means for a motor vehicle suspension support. 2,939,720, 6-7-60, Cl. 280-106.5.
- Wroby, John S., to General Motors Corp. Resilient mounting for a vehicle suspension system. 2,962,279, 11-29-60, Cl. 267-63.
- Wrotnowski, Arthur C., and T. J. Gillick, Jr., to American Felt Co. Gaskets. 2,930,106, 3-29-60, Cl. 28-80.
- Wroughton, Oliver L. Window lock. 2,931,676, 4-5-60, Cl. 292-211.
- Wruck, Quayne L., to Allen-Bradley Co. Apparatus for the automatic spraying of coatings on objects. 2,961,990, 11-29-60, Cl. 118-2.
- Wszolek, Walter R., to W. R. Grace & Co. Ethylene polymerization. 2,945,019, 7-12-60, Cl. 260-94.9.
- Wu, Bosco, to McGraw-Edison Co. Transistor amplifier with A.V.C. 2,949,579, 8-16-60, Cl. 330-13.
- Wu, Yao H.: *See*—  
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- Wubbe, Henry J.: *See*—  
Hedeen, Carl E., Louton, and Wubbe. 2,934,375.  
Leslie, James D., and Wubbe. 2,937,045.
- Wucherpfennig, Walter: *See*—  
Aldinger, Ulrich, Stoll, and Wucherpfennig. 2,937,636.
- Wuellner, James A., and R. W. Watson, to Standard Oil Co. Lubricant composition. 2,965,571, 12-20-60, Cl. 252-50.
- Wuellner, James A., and C. G. Brannen, to Standard Oil Co. Lubricant composition. 2,965,572, 12-20-60, Cl. 252-51.5.
- Wuerth, Fritz: *See*—  
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- Wuerth, John M., to North American Aviation, Inc. Kinetic vector computing accelerometer. 2,929,246, 3-22-60, Cl. 73-178.
- Wuerthner, John P.: *See*—  
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- Wuertz, Emil S., to The Murray Co. of Texas, Inc. Variable speed pulley. 2,957,359, 10-25-60, Cl. 74-230.17.
- Wuesthoff, Edward M., to Westinghouse Electric Corp. Condensate disposal means for self-contained air conditioners. 2,941,382, 6-21-60, Cl. 62-280.
- Wuesthoff, Edward M., and G. P. Marcy, to Westinghouse Electric Corp. Air conditioning apparatus. 2,942,439, 6-28-60, Cl. 62-429.
- Wujciak, Donald W.: *See*—  
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- Wulc, Stanley S., to Vector Mfg. Co., Inc. Handle for oscillator. 2,940,114, 6-14-60, Cl. 16-126.
- Wulf, Horst-Dieter, and N. Roh, to Chemische Werke Huls Aktiengesellschaft. Process for the preparation of dibenzylbenzenes. 2,954,412, 9-27-60, Cl. 260-668.
- Wulff, Cal W.: *See*—  
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- Wulff, Cal W., to Holland Co. Bolster damping arrangement for railway car trucks. 2,936,721, 5-17-60, Cl. 105-197.
- Wulff, Carl: *See*—  
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Dohr, Manfred, Krause, and Wulff. 2,956,068.
- Wulff, Carl, and M. Dohr, to Dehydtag, Deutsche Hydrierwerke G.m.b.H. Stabilizing polyvinyl chloride with acetals of polyhydric alcohols. 2,922,776, 1-26-60, Cl. 260-45.8.
- Wulff Process Co.: *See*—  
Coberly, Clarence J. 2,936,162.  
Coberly, Clarence J. 2,945,905.  
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- Wulffaert, Frank R.: *See*—  
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- Wulfsberg, Paul G.: *See*—  
Smith, John W., and Wulfsberg. 2,926,346.
- Wulms, Petrus J. M., to N.V. Verenigde Textiel-En Oliefabrieken Afd. P. H. Kaars Sijpsteijn. Hose, particularly a fire hose and a process for its manufacture. 2,926,699, 3-1-60, Cl. 138-55.
- Wultsch, Ferdinand. Highly effective device for wet-separation. 2,943,800, 7-5-60, Cl. 241-42.
- Wunder, August H. Detachable supporting rail for receptacles, etc. 2,936,146, 5-10-60, Cl. 248-201.
- Wunderlich, Clarence B.: *See*—  
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- Wunderlich, George F.: *See*—  
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McCullough, Jack A., Wunderlich, and Williams. 2,952,789.
- Wunderlich, Raffael. Apparatus for producing a mechanical movement depending upon the oscillatory motion of a vibrating member. 2,953,726, 9-20-60, Cl. 317-123.
- Wünning, Jochen: *See*—  
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- Wuppermann, Theodor, G.m.b.H.: *See*—  
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- Wurbs, Anna: *See*—  
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- Wurbs, Eberhard, deceased; A. Wurbs, nee Siegmund, and U. Wurbs, joint heirs, to B. Siegmund. Rust-preventing agent. 2,933,400, 4-19-60, Cl. 106-14.
- Wurbs, Ulrike: *See*—  
Wurbs, Eberhard. 2,933,400.
- Wurdack, William D. Nylon coating. 2,963,385, 12-6-60, Cl. 117-73.
- Wurgart, Robert L. Fruit-orientating machine. 2,935,175, 5-3-60, Cl. 198-33.
- Wurgart, Robert L. Hand-off device. 2,939,572, 6-7-60, Cl. 198-210.
- Wurgler, John W., to Allis-Chalmers Mfg. Co. Magnetically actuated mechanical interlock. 2,929,002, 3-15-60, Cl. 317-187.
- Würker, Carl H. Zigzag stitch attachment for needle equipped sewing machines. 2,942,563, 6-28-60, Cl. 112-160.
- Wurlitzer Co., The: *See*—  
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Miessner, Benjamin F. 2,932,231.
- Wurlitzer, Rudolph Co., The: *See*—  
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Andersen, Clifford W. 2,949,053.  
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- Wurmbock, Dr., G.m.b.H.: *See*—  
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- Wurmbock, Egon: *See*—  
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- Wurmbock, Gabriele, O., and E., to Dr. Wurmbock, G.m.b.H. Applicator for the treatment of finger and toe nails and like body parts. 2,961,682, 11-29-60, Cl. 15-210.
- Wurmbock, Oscar: *See*—  
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- Wurst, Frank L., to Chicago Bridge & Iron Co. Apparatus for raising tank shells. 2,919,896, 1-5-60, Cl. 254-105.
- Wurster, Edward D.: *See*—  
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- Wurtenberg, Oscar A.: *See*—  
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- Wurth, William A., Jr.: *See*—  
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- Wurtt Spindelfabrik G.m.b.H.: *See*—  
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- Wurtz, Clifford H.: *See*—  
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- Wurtz, John G., Jr.: *See*—  
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- Wurzburger, Otto B.: *See*—  
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- Wurzburger, Otto B., to National Starch and Chemical Corp. Preparation of starch derivatives. 2,935,510, 5-3-60, Cl. 260-233.3.
- Wurzburger, Paul D.: *See*—  
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- Wurzburger, Paul D., and A. H. Milbrodt, to The Weatherhead Co. Separable coupling for fluid conduits. 2,958,544, 11-1-60, Cl. 284-18.
- Wurzschmitt, Bernhard: *See*—  
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- Wüst, Karl, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the purification of 1,1,1-trimethylol propane. 2,930,818, 3-29-60, Cl. 260-637.
- Wutz, Helmut M. Electrical element assembly. 2,933,709, 4-19-60, Cl. 338-275.
- Wyandotte Chemicals Corp.: *See*—  
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- Wyant, Gerald W. Washroom unit. 2,939,755, 6-7-60, Cl. 312-245.
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- Wycech, Casmir E. Open head ratchet wrench. 2,954,715, 10-4-60, Cl. 81-58.1.
- Wyckoff, Ralph D.: *See*—  
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- Wye, Edwin J.: *See*—  
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- Wyeth, Nathaniel C., to E. I. du Pont de Nemours and Co. Bobbin chuck. 2,941,735, 6-21-60, Cl. 242-46.2.
- Wygant, James C.: *See*—  
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- Wykoff, Walter R.: *See*—  
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- Wylde, Joseph R.: See—  
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- Wylie, John E.: See—  
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- Wylie, Matthew, & Co.: See—  
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- Wylie, Matthew J. G., to Matthew Wylie & Co. Nailing machines. 2,965,901, 12-27-60, Cl. 1-302.
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- Wyma, Edwin R., to International Business Machines Corp. Printed wiring assembly. 2,951,184, 8-30-60, Cl. 317-101.
- Wyndham, Gisela A. M. Device for preparing material for stitching into pleats. 2,948,241, 8-9-60, Cl. 112-146.
- Wyndham, Paul L., to Telephone Mfg. Co. Ltd. Fault indicating circuits. 2,955,237, 10-4-60, Cl. 317-148.5.
- Wynes, Alfred C. Redirecting deflected boreholes. 2,950,900, 8-30-60, Cl. 255-1.6.
- Wynngaert, William A., to Kaiser Aluminum & Chemical Corp. Dummy head or block for end of extrusion ram. 2,925,176, 2-16-60, Cl. 207-9.
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- Wynn, Norman R., to Western Electric Co., Inc. Vibratory feed mechanism. 2,935,174, 5-3-60, Cl. 198-30.
- Wynn, Norman R., to Ilford Ltd. Production of multilayer photographic materials. 2,941,898, 6-21-60, Cl. 117-34.
- Wynn, Robert O. Impact nose fuze for a torpedo. 2,965,035, 12-20-60, Cl. 102-70.2.
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- Wysong, Paul V., Jr., to General Motors Corp. Air compressor with high turbulence head. 2,942,775, 6-28-60, Cl. 230-238.
- Wysong, Paul V., Jr., to General Motors Corp. Fluid compressor. 2,963,217, 12-6-60, Cl. 230-190.
- Wysse, Eugen, to Ernst Schoch A.-G. Tying apparatus for rods, wires or the like preferably for tying reinforcing rods crossing each other. 2,945,514, 7-19-60, Cl. 140-93.
- Wyss, Max, to Kugler Fonderie et Robinetterie S.A. Pilot controlled main valve. 2,959,390, 11-8-60, Cl. 251-43.
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- Yaegle, Raymond R.: See—  
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- Yaffe, David W., to Cory Corp. Electrical deodorizing device. 2,931,880, 4-5-60, Cl. 219-19.
- Yaffack, John J. Christmas tree wrapping machine. 2,966,111, 12-27-60, Cl. 100-13.
- Yager, Gerald L.: See—  
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- Yager, Harry L., to Northwest Tube & Metal Fabricators. Mounting bracket for an automobile parking bumper. 2,936,150, 5-10-60, Cl. 248-316.
- Yahnke, Grace: See—  
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- Yahnke, James G., deceased; G. Yahnke, executrix. Spraying device. 2,943,795, 7-5-60, Cl. 239-128.
- Yakem, Charles. Automatic lighting system circuit closing apparatus. 2,956,208, 10-11-60, Cl. 315-316.
- Yakubik, Michael A., to The Goodyear Tire & Rubber Co. Method of embedding particles in plastic sheet material. 2,936,814, 5-17-60, Cl. 154-26.
- Yale, Harry L.: See—  
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- Yale, Harry L., to Olin Mathieson Chemical Corp. Chemical compounds. 2,926,171, 2-23-60, Cl. 260-326.3.
- Yale, Harry L., to Olin Mathieson Chemical Corp. Mercurial diuretics. 2,928,855, 3-15-60, Cl. 260-431.
- Yale, Harry L., and F. A. Sowinski, to Olin Mathieson Chemical Corp. Phenothiazine derivatives. 2,931,810, 4-5-60, Cl. 260-243.
- Yale, Harry L., and J. Bernstein, to Olin Mathieson Chemical Corp. Pharmaceutical compounds. 2,943,086, 6-28-60, Cl. 260-243.
- Yale, John W., Jr.: See—  
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- Yamaguchi, Hideo, to Nikka Rubber Co. Footwear. 2,954,617, 10-4-60, Cl. 36-11.5.
- Yamaguchi, Takao. Dynamic balancing apparatus. 2,946,224, 7-26-60, Cl. 73-461.
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- Yamaji, Keizo, to Canon Camera Co., Inc. Varifocal lens systems. 2,937,572, 5-24-60, Cl. 88-57.
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- Yamasaki, James N., to Controls Co. of America. Interval timer. 2,925,478, 2-16-60, Cl. 200-38.
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- Yamazaki, Shigeo: See—  
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- Yamen, Irving A., and W. W. Smith, to Dust-Tex Corp. Collapsible mop support. 2,932,048, 4-12-60, Cl. 15-147.
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- Yan, Maxwell M., and E. C. Hale, to Abitibi Power & Paper Co., Ltd. Synthetic lumber-pressure-slam. 2,964,792, 12-20-60, Cl. 18-47.5.
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- Yanda, John D. Automatic vehicle hand brake release. 2,945,571, 7-19-60, Cl. 192-4.
- Yandell, James L. Bottom hole camera. 2,940,370, 6-14-60, Cl. 95-11.
- Yando, Stephen, to Sylvania Electric Products Inc. Electroluminescent devices. 2,922,923, 1-26-60, Cl. 315-55.
- Yando, Stephen, to Sylvania Electric Products Inc. Delay line. 2,922,967, 1-26-60, Cl. 333-30.
- Yando, Stephen, to Sylvania Electric Products Inc. Color television beam registration system. 2,927,152, 3-1-60, Cl. 178-5.4.
- Yando, Stephen. Servo mechanisms. 2,930,360, 3-29-60, Cl. 121-41.



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- Yando, Stephen, to Sylvania Electric Products Inc. Piezo-electric device. 2,945,984, 7-19-60, Cl. 315-55.
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- Yang, Denis C. Power indicator. 2,947,168, 8-2-60, Cl. 73-136.
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- Yates, Robert N., and H. E. Hutzelman, to Yates Plastic Sales, Inc. Floor mat. 2,919,458, 1-5-60, Cl. 15-239.
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- Yeager, Marvin L., to Herrick L. Johnston, Inc. Suspension system for container for storing liquefied gas. 2,926,810, 3-1-60, Cl. 220-15.
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- Yellott, John I., and P. R. Broadley, to Bituminous Coal Research, Inc. Ash separator battery for powdered coal-burning pressurized combustion systems. 2,954,097, 9-27-60, Cl. 183-30.
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- Yeomans, Clive M., to The Martin Co. Reactor with horizontal control rod moving mechanisms. 2,938,847, 5-31-60, Cl. 204-193.2.
- Yeomans, Donald E., and A. D. Busby, to Imperial Chemical Industries Ltd. Method of operating an electric arc furnace. 2,951,890, 9-6-60, Cl. 13-34.
- Yerger, John F. Hot bearing detector. 2,963,691, 12-6-60, Cl. 340-231.
- Yerkovich, Simon, to L. J. Leishman. Motor-driven cassette returning means for X-ray spot film devices. 2,928,005, 3-8-60, Cl. 250-66.
- Yerkovich, Simon, to L. J. Leishman. Selector mechanisms for X-ray spot film devices. 2,939,957, 6-7-60, Cl. 250-66.
- Yerks, Richard W.: See—
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- Yerks, Richard W., to Underwood Corp. Paper guide shield for business machines. 2,950,802, 8-30-60, Cl. 197-127.
- Yerman, Emil A., and E. F. Ulrich. Fishing tackle. 2,953-153, 11-1-60, Cl. 43-43.14.
- Yervant, John. Barbecue stand. 2,925,813, 2-23-60, Cl. 126-25.



- Yeske, Laurel R., to J. I. Case Co. Adjustable mounting means for a reciprocating mower. 2,946,171, 7-26-60, Cl. 56-25.
- Yetman, William H. Sign construction. 2,925,676, 2-23-60, Cl. 40-125.
- Yetter, Harry G. Joiner device for plows. 2,950,771, 8-30-60, Cl. 172-736.
- Yezek, Milton, to General Foods Corp. Carton. 2,933,230, 4-19-60, Cl. 229-17.
- Ygge, Torsten, to Aktiebolaget Skoglund & Olson. Centrifugal pumps. 2,939,402, 6-7-60, Cl. 103-103.
- Yhap, Ernesto F., to International Business Machines Corp. Universal logic block. 2,952,792, 9-13-60, Cl. 313-108.
- Yim, Earl, Jr., to United States of America, Navy. Mandrel for extrusion coating propellant grains. 2,963,740, 12-13-60, Cl. 18-13.
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- Yochem, Donald E. Container and closure. 2,958,439, 11-1-60, Cl. 220-38.5.
- Yochem, Donald E. Closure for a container. 2,965,256, 12-20-60, Cl. 215-43.
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- Yogus, William, and F. J. Cloutier, to The Valeron Corp. Boring tools with individually adjustable tool cartridges. 2,946,245, 7-26-60, Cl. 77-58.
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- Yoler, Yusuf A., to General Electric Co. Fluid flow generators. 2,937,523, 5-24-60, Cl. 73-147.
- Yoler, Yusuf A., to General Electric Co. Attitude sensing and control system. 2,951,659, 9-6-60, Cl. 244-14.
- Yonash, Joseph F. Grain saver sieve for combine. 2,923,409, 2-2-60, Cl. 209-394.
- Yonemoto, Akira. Universal duplicator apparatus (photography by non-chemical process). 2,930,845, 3-29-60, Cl. 178-6.
- Yonkers, Robert A., to Bissell Carpet Sweeper Co. Tubular sectional handle with interlocking means. 2,939,163, 6-7-60, Cl. 15-145.
- Yonkers, William A., to Radio Frequency Laboratories, Inc. Method and apparatus for pulling down magnets. 2,930,944, 3-29-60, Cl. 317-157.5.
- Yontar, Mehmet, to McGraw-Edison Co. Sheet record machine. 2,931,692, 4-5-60, Cl. 346-138.
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- York, Bernard H., to Voi-Shan Industries, Inc. Recess-gripping driver. 2,961,022, 11-22-60, Cl. 145-50.
- York, Charles J., and A. J. F. Schwarz, to Allied Laboratories, Inc. Bovine rhinotracheitis vaccine and methods of production. 2,934,473, 4-26-60, Cl. 167-78.
- York, Charles J., and A. J. Schwarz, to Allied Laboratories, Inc. Bovine rhinotracheitis vaccine and methods of production. 2,941,925, 6-21-60, Cl. 167-78.
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- Yost, Oscar A. Sprinkling bottle and cap for perfume and other volatile liquids. 2,921,745, 1-19-60, Cl. 239-326.
- Yost, Paul E., to General Mills, Inc. Mechanical balloon load releasing device. 2,924,408, 2-9-60, Cl. 244-137.
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- Yost, Paul E., to General Mills, Inc. Balloon gondola. 2,950,882, 8-30-60, Cl. 244-31.
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- Youmans, Arthur H., to Well Surveys, Inc. High temperature scintillation detector. 2,949,534, 8-16-60, Cl. 250-71.5.
- Youmans, Arthur H., R. Monaghan, B. F. Wilson, and T. A. Henrichs, to Well Surveys, Inc. Source shield for density logging instruments. 2,961,544, 11-22-60, Cl. 250-108.
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- Young, David W., to Sinclair Refining Co. Poly-caproamide-6 containing N-acyl p-aminophenol. 2,934,517, 4-26-60, Cl. 260-45.9.
- Young, David W., to Sinclair Refining Co. Method for preparing N-acyl-p-amino phenols. 2,945,870, 7-19-60, Cl. 260-404.
- Young, David W., to Sinclair Refining Co. Load carrying lubricant. 2,960,469, 11-15-60, Cl. 252-42.7.
- Young, David W., and R. L. May, to Sinclair Refining Co. Synthetic lubricating oil composition. 2,929,786, 3-22-60, Cl. 252-56.
- Young, David W., and P. V. Smith, Jr., to Esso Research and Engineering Co. Nonvolatile organic compositions stabilized by N-alkyl p-hydroxybenzamide. 2,959,550, 11-8-60, Cl. 252-40.7.
- Young, Donald C., to Collier Carbon and Chemical Corp. Non-corrosive ammoniacal ammonium salt solutions. 2,957,762, 10-25-60, Cl. 71-59.
- Young, Donald M.: See—  
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- Young, Donald M., and F. Hostettler, to Union Carbide Corp. Polyurethane resins from lactone polyesters. 2,933,478, 4-19-60, Cl. 260-77.5.
- Young, Donald R.: See—  
Brennemann, Andrew E., De Lano, and Young. 2,955,281.  
De Lano, Ralph B., Jr., and Young. 2,966,634.  
O'Day, Marcus D., and Young. 2,929,925.
- Young, Douglass A., L. J. Lunas, and J. Walsweer, to Westinghouse Electric Corp. Recording devices. 2,924,499, 2-9-60, Cl. 346-145.
- Young, Edward A.: See—  
Purse, Frank V., and Young. 2,948,166.
- Young, Einar T.: See—  
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- Young, Einar T., to Sun Oil Co. Jacking mechanism for seadrome. 2,947,148, 8-2-60, Cl. 61-46.5.



- Young, Einar T., and A. H. Marsh, to Sun Oil Co. Means for blending, proportioning metering and dispensing two liquids. 2,931,538, 4-5-60, Cl. 222-26.
- Young, Everett C. Potato peeler. 2,958,355, 11-1-60, Cl. 146-204.
- Young, Farrile S., to Gulf Interstate Engineering Co. Fluid pressure retaining means for pipe connecting units. 2,934,361, 4-26-60, Cl. 285-306.
- Young, Forrest J.: *See*—  
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- Young, Fred M., to Young Radiator Co. Trussed radiator core-unit. 2,932,489, 4-12-60, Cl. 257-154.
- Young, Fred W., to S. N. Goldman. Baby seats for telescoping grocery carts. 2,931,662, 4-5-60, Cl. 280-33.99.
- Young, Fred W., to S. N. Goldman. Telescoping grocery cart having moveable bottom. 2,958,536, 11-1-60, Cl. 280-33.99.
- Young, Fred W., to S. N. Goldman. Brake mechanism for telescoping carts. 2,958,537, 11-1-60, Cl. 280-33.99.
- Young, Frink M., to Epsco, Inc. Voltage controlled oscillator. 2,960,668, 11-15-60, Cl. 331-145.
- Young, Frink M., B. M. Gordon, and S. Rigby, to Epsco, Inc. Frequency discriminator. 2,961,611, 11-22-60, Cl. 328-141.
- Young, Furman N. B.,  $\frac{1}{2}$  to A. D. Timmons. Casing spear. 2,953,406, 9-20-60, Cl. 294-86.
- Young, George G. Mixing apparatus for semi-liquids. 2,956,522, 10-18-60, Cl. 107-31.
- Young, George M.: *See*—  
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- Young, George V. High frequency chopper system. 2,927,274, 3-1-60, Cl. 330-10.
- Young, George V.,  $\frac{1}{2}$  to P. J. Pohl. Video image frame recording and reproducing system. 2,955,157, 10-4-60, Cl. 178-6.6.
- Young, Gloyd H., and W. H. Dailey, Jr., to Midland-Ross Corp. Roll seal for strip heater. 2,929,614, 3-22-60, Cl. 263-3.
- Young, Harland H., and E. F. Christopher, to Swift & Co. Process of reacting protein with isocyanic acid and then with aldehyde and polymerized product prepared therefrom. 2,923,691, 2-2-60, Cl. 260-6.
- Young, Harland H., and K. H. Spitzmueller, to Swift & Co. Emulsifying agents in shortening and process of producing same. 2,963,371, 12-6-60, Cl. 99-118.
- Young, Harold C.: *See*—  
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- Young, Harry A.: *See*—  
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- Young, Harry E. B., and D. Finlayson, to British Celanese Ltd. Melt spinning apparatus. 2,922,187, 1-26-60, Cl. 18-8.
- Young, Harry S., to Sun Oil Co. Process for the preparation of a substantially metal-free solid alpha-olefin polymer. 2,951,833, 9-6-60, Cl. 260-93.7.
- Young, Henry B., and L. W. Bilderback, to ACF Industries, Inc. Refinery fitting. 2,942,754, 6-28-60, Cl. 220-40.
- Young, Hobert D., to Sinclair Refining Co. Operation of internal combustion engines of the compression ignition type. 2,934,047, 4-26-60, Cl. 123-1.
- Young, Hobert D., to Sinclair Refining Co. Composition. 2,934,048, 4-26-60, Cl. 123-1.
- Young, Hobart P., and J. J. Hickerson, to Signode Steel Strapping Co. Tying material and method of coating same. 2,952,561, 9-13-60, Cl. 117-49.
- Young, Howard S.: *See*—  
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- Young Iron Works: *See*—  
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- Lindberg, Robert H. 2,952,929.
- Young, James A., Jr.: *See*—  
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- Young, James E.: *See*—  
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- Young, James H., to E. I. du Pont de Nemours and Co. Peroxide bleaching compositions and their use. 2,927,082, 3-1-60, Cl. 252-186.
- Young, James H., to E. I. du Pont de Nemours and Co. Treatment of aluminum surfaces. 2,948,392, 8-9-60, Cl. 206-84.
- Young, James M., to West Allis Concrete Products Co. Inc. Apparatus for manufacturing pretensioned, reinforced concrete sections. 2,962,785, 12-6-60, Cl. 25-1.
- Young, John Jr., to Sperry Rand Corp. Method of winding stators. 2,952,069, 9-13-60, Cl. 29-155.5.
- Young, John C. and M. S., to Venetian Folding Door Corp. Panel assembly. 2,952,311, 9-13-60, Cl. 160-159.
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- Young, John D.: *See*—  
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- Young, John Z., F. F. W. Roberts, and D. J. Causley. Apparatus for counting discrete particles. 2,927,219, 3-1-60, Cl. 250-220.
- Young, John Z., W. K. Taylor, and D. J. Causley. Apparatus for counting a number of regions in a scanning field. 2,966,299, 12-27-60, Cl. 235-92.
- Young, Keith P., to Universal Development and Engineering Co., Inc. Case stacker. 2,919,821, 1-5-60, Cl. 214-6.
- Young, Kenneth C.: *See*—  
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- Young, L. A., Spring & Wire Corp.: *See*—  
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- Tischler, Henry J., and Ciesielski. 2,941,583.
- Young, Lawrence J. Printed circuits. 2,963,748, 12-13-60, Cl. 18-59.
- Young, Leo, to United States of America, Air Force. Pulse amplitude measuring device. 2,936,418, 5-10-60, Cl. 324-98.
- Young, Leo C.: *See*—  
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- Page, Robert M. 2,948,893.
- Young, Leonard P. Resistance devices. 2,960,673, 11-15-60, Cl. 338-221.
- Young, Luther O.: *See*—  
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- Young, Manly S., Sr. Outdoor poster advertising apparatus. 2,935,806, 5-10-60, Cl. 40-31.
- Young, Marvin S.: *See*—  
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- Young, John C. and M. S. 2,952,312.
- Young, Mervin W. Vacuum frame mask for photographic reproduction. 2,929,309, 3-22-60, Cl. 95-77.
- Young, Michael R. P.: *See*—  
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- Young, Nat. Contour sheet for mattresses. 2,963,715, 12-13-60, Cl. 5-334.
- Young, Norman H., Jr., to International Telephone and Telegraph Corp. Electric amplifier control. 2,928,051, 3-8-60, Cl. 330-128.
- Young, Norman H., Jr., to International Telephone and Telegraph Corp. Direction-finding system with phase comparing and indicating system. 2,928,088, 3-8-60, Cl. 343-106.
- Young, Paul H., to Armstrong Cork Co. Calendaring unit. 2,964,785, 12-20-60, Cl. 18-2.
- Young Radiator Co.: *See*—  
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- Young, Ray A.: *See*—  
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- Young, Ray C., and R. A. Rusca, to United States of America, Agriculture. Fiber cleaner. 2,931,071, 4-5-60, Cl. 19-93.
- Young, Reginald S., to The British Aluminum Co. Ltd. Electric measuring instruments. 2,920,268, 1-5-60, Cl. 324-34.
- Young, Richard W.: *See*—  
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- Goodman, Joseph J., and Young. 2,923,668.
- Lopresti, Rocco J., Safr, Young, and Rauh. 2,940,980.
- Young, Richard W., and G. Berkelhammer, to American Cyanamid Co. Preparation of S-1 (N-substituted carbamoyl) alkyl O,O-dialkyl phosphorodithioates. 2,959,610, 11-8-60, Cl. 260-461.
- Young, Robert G.: *See*—  
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- Young, Robert G., to Sperry Rand Corp. Twister-hook. 2,946,356, 7-26-60, Cl. 140-119.
- Young, Robert G., and J. H. Hollyday, to Sperry Rand Corp. Implement tongue position control. 2,963,303, 12-6-60, Cl. 280-462.
- Young, Robert M., to King-Seely Corp. Liquid level indicating mechanism. 2,923,156, 2-2-60, Cl. 73-313.
- Young, Roland S.: *See*—  
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- Young, Ronald D.: *See*—  
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- Young, Roy N. Separator. 2,954,124, 9-27-60, Cl. 209-98.
- Young, Samuel, Jr., to Standard Oil Co. Method of preparing alkyl resin from isophthalic acid. 2,954,354, 9-27-60, Cl. 260-22.
- Young, Samuel, Jr., and R. E. Van Strien, to Standard Oil Co. Method of preparing alkyl resin from isophthalic acid. 2,954,355, 9-27-60, Cl. 260-22.
- Young, Serenus H. A., small interests to various assignees. Plastic containers. 2,939,603, 6-7-60, Cl. 220-4.
- Young, Stephen A. Valve and mounting means therefor. 2,955,295, 10-11-60, Cl. 4-192.
- Young, Stephen A. Adjustable nut and shoulder unit for pipe to plate joint. 2,961,914, 11-29-60, Cl. 85-32.
- Young, Victor E.: *See*—  
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- Young, Virgil H., Jr.: *See*—  
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- Young, Walter T., Jr., to Chicopee Mfg. Corp. Chelated metal compounds. 2,936,316, 5-10-60, Cl. 260-439.
- Young, Willard G., to Ogden Corp. Wall hung water closet. 2,945,240, 7-19-60, Cl. 4-252.
- Young, William E.: *See*—  
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- Young, William F., to Resistance Welders Ltd. Power-operated clamping mechanism. 2,961,529, 11-22-60, Cl. 219-161.
- Young, William G.: *See*—  
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- Young, William O., Jr., to E. I. du Pont de Nemours and Co. Yarn handling. 2,953,289, 9-20-60, Cl. 226-7.
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- Young, William R., Jr., to Bell Telephone Laboratories, Inc. Translator. 2,922,996, 1-26-60, Cl. 340-347.
- Young, William R., Jr., to Bell Telephone Laboratories, Inc. Tape transmitter control circuit. 2,924,657, 2-9-60, Cl. 178-17.



- Youngberg, Charles H.: *See*—  
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- Youngberg, Dave P.: *See*—  
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- Youngblood, George R., and O. T. Ivey. Double garbage can stand. 2,931,517, 4-5-60, Cl. 211-71.
- Younghaus, Richard P. Sleeve check valve. 2,920,645, 1-12-60, Cl. 137-496.
- Youngman, Edward A., and R. M. Roberts, to Shell Oil Co. Production of sodium perborate in stable form. 2,947,602, 8-2-60, Cl. 23-60.
- Youngquist, Robertson: *See*—  
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- Youns, Delmar C., to Dow Corning Corp. Fabric having controlled stretch. 2,951,277, 9-6-60, Cl. 28-78.
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- Yunker, Elmer L., to Bell Telephone Laboratories, Inc. High speed switching circuits employing slow acting components. 2,936,117, 5-10-60, Cl. 235-165.
- Younkin, James R. Electric translating systems. 2,959,725, 11-8-60, Cl. 321-18.
- Yount, Richard V., to Imperial Chemical Industries Ltd. Tubular inserts. 2,966,373, 12-27-60, Cl. 285-213.
- Yourke, Hannon S.: *See*—  
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- Yourke, Hannon S., to International Business Machines Corp. Transistor switching circuits. 2,964,652, 12-13-60, Cl. 307-88.5.
- Youtcheff, John S.: *See*—  
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- Youthed, Sidney E., to J. S. & F. Folkard, Ltd. Method for jointing thermoplastic synthetic resin pipes, pipe fittings and the like. 2,958,906, 11-8-60, Cl. 18-59.
- Youtie, Robert K. Automatic bailer. 2,959,144, 11-8-60, Cl. 114-185.
- Yovanovich, Joseph T. Internal winding mandrel. 2,941,453, 6-21-60, Cl. 93-80.
- Yovanovitch, Lazare. Firearm with rearward swinging breech block. 2,952,934, 9-20-60, Cl. 42-28.
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- Yragui, Simon J. Transistor circuit having temperature compensating means. 2,956,179, 10-11-60, Cl. 307-88.5.
- Yu, Se Puan, and B. D. McNary, to General Electric Co. Crossed-field device. 2,965,797, 12-20-60, Cl. 315-39.65.
- Yuba Consolidated Industries, Inc.: *See*—  
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- Yule, John A. C., to Time, Inc. Circuit for altering intelligence to carrier signal ratio. 2,932,691, 4-12-60, Cl. 178-71.
- Yule, Ian M. Improved tool for grinding annular valve seats. 2,956,380, 10-18-60, Cl. 51-241.
- Yule, Ian M. Fluid drive and tool incorporating same. 2,956,450, 10-18-60, Cl. 74-730.
- Yuni, William: *See*—  
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- Yunker, Martin H., Jr., and T. Higuchi, to Wisconsin Alumni Research Foundation. Stabilization of alkyl nitrites. 2,927,939, 3-8-60, Cl. 260-466.
- Yurek, Allen A., and P. L. Webb. Prefabricated sleeve antenna. 2,954,559, 9-27-60, Cl. 343-875.
- Yurgartis, Watson C., to International Business Machines Corp. Phase angle measuring apparatus. 2,930,978, 3-29-60, Cl. 324-83.
- Yurka, August, Jr.: *See*—  
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- Yurka, August, Jr., to The Cyril Bath Co. Bending apparatus for bending metal stock flatwise into curvilinear form. 2,931,417, 4-5-60, Cl. 153-54.
- Yusuf, Mehmed, also known as Y. M. Borvalli, and J. A. Etur. Process for treating arseniuretted or sulfarsenic cobalt, nickel or cobalt and nickel ores. 2,959,467, 11-8-60, Cl. 23-144.
- Yusz, Daniel P. Bottle container. 2,944,695, 7-12-60, Cl. 220-21.
- Yutzy, Henry C., and J. H. Van Campen, to Eastman Kodak Co. Multilayer reversal color material. 2,937,086, 5-17-60, Cl. 96-74.
- Z and W Machine Products, Inc.: *See*—  
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- Zaba, Tadeusz, to Aktiengesellschaft Brown, Boveri & Cie. Gas turbine plant and method of operating the same. 2,959,005, 11-8-60, Cl. 60-39.55.
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- Zaber, Adolph J., to American Air Filter Co., Inc. Air dust coupling. 2,951,717, 9-6-60, Cl. 285-311.
- Zablocki, Henry S.: *See*—  
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- Zabor, Robert C.: *See*—  
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- Zabriske, Douglas M., to The Western Union Telegraph Co. Facsimile stylus and damping mechanism. 2,938,761, 5-31-60, Cl. 346-139.
- Zabriske, Douglas M., and F. L. O'Brien, to The Western Union Telegraph Co. Shockproofed facsimile recorder. 2,961,287, 11-22-60, Cl. 346-74.
- Zabrocki, Anthony J.,  $\frac{1}{2}$  to V. G. Campbell. Minnow pall. 2,963,814, 12-13-60, Cl. 43-56.
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- Zachary, Robert A., to United States of America, Navy. Automatic gain control for monopulse radar. 2,943,317, 6-28-60, Cl. 343-17.1.
- Zachos, Louis G. Liquid level indicator. 2,942,349, 6-28-60, Cl. 33-126.7.
- Zachow, Frank H. Drill sharpening apparatus. 2,932,924, 4-19-60, Cl. 51-125.
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- Zack, Albert, to Sylvania Electric Products Inc. Process of making wafer coils. 2,961,521, 11-22-60, Cl. 219-19.
- Zack, Albert, to Sylvania Electric Products Inc. Electrical inductor. 2,965,865, 12-20-60, Cl. 336-192.
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- Zacur, Alex O., to Joy Mfg. Co. Screw wedge burster. 2,954,219, 9-27-60, Cl. 262-9.
- Zaech, Emile. Ship and submarine salvaging device. 2,936,194, 5-10-60, Cl. 294-65.5.
- Zagar, Asher I., to Ettco Tool & Machine Co., Inc. Hydraulic check for air drilling units. 2,953,122, 9-20-60, Cl. 121-45.
- Zagar, Asher I., to Ettco Tool & Machine Co., Inc. Adjustable collet-type chuck. 2,960,344, 11-15-60, Cl. 279-97.
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- Zagwyn, Anthony T., to A. J. Industries Corp. Resilient wheel mounting of cart wheels. 2,957,707, 10-25-60, Cl. 280-124.
- Zaha, Abe. Automotive trailer having caster wheels. 2,949,317, 8-16-60, Cl. 280-456.
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- Zahn, Edward J., to The Gates Rubber Co. Power transmission belt. 2,936,640, 5-17-60, Cl. 74-232.
- Zahn, Harold E., to Gould-National Batteries, Inc. Storage batteries. 2,934,585, 4-26-60, Cl. 136-147.
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- Zahner, Charles F., to Curtiss-Wright Corp. Automatic digital signal keyer. 2,953,642, 9-20-60, Cl. 178-79.
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Zajic, James E., to Grain Processing Corp. Process for preparing beta-carotene. 2,959,521, 11-8-60, Cl. 195-28.

Zajic, James E., to Grain Processing Corp. Process for preparing beta-carotene. 2,959,522, 11-8-60, Cl. 195-28.

Zak, Alphonse J. Exercising machine. 2,924,214, 2-9-60, Cl. 128-25.

Zakarin, David. Home permanent hair waving devices. 2,948,284, 8-9-60, Cl. 132-9.

Zalai, Andras: See—

Varga, Jozsef, Rabo, Zalai, and Steingaszner. 2,939,835.  
Zaldastani, Othar, and M. C. Junger. Structural material. 2,933,146, 4-19-60, Cl. 181-33.

Zale, Walter A., to General Motors Corp. Work holder chuck device. 2,942,891, 6-28-60, Cl. 279-1.

Zalesak, Thomas A. Spark intensifier for spark plugs. 2,965,779, 12-20-60, Cl. 313-51.

Zaleski, John F.: See—

Stavis, Gus, Saltzman, and Zaleski. 2,940,075.  
Zaleski, John F. Pressurized liquid dispenser. 2,930,513, 3-29-60, Cl. 22-386.5.

Zalkind, Albert M. Novelty and amusement device. 2,931-135, 4-5-60, Cl. 46-118.

Zalkind, Albert M. Educational toy. 2,963,796, 12-13-60, Cl. 35-22.

Zalkind, Joseph. Device for separating interleaved carbons. 2,931,551, 4-5-60, Cl. 225-93.

Zalkind, Joseph. Devices for separating and sorting manifold sets. 2,931,552, 4-5-60, Cl. 225-101.

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Zalkind, Joseph. Devices for separating and sorting manifold sets. 2,964,224, 12-13-60, Cl. 225-101.

Zalkind, Louis A., to Libby Engineering Ltd. Withdrawable duct ventilating system. 2,939,378, 6-7-60, Cl. 98-115.

Zalm, Pieter, to North American Philips Co., Inc. Method of producing zinc selenide. 2,929,678, 3-22-60, Cl. 23-50.

Zambrow, John L., to United States of America, Atomic Energy Commission. Method of making wire fuel elements. 2,947,676, 8-2-60, Cl. 204-154.2.

Zamenack, John H. Hacksaw blade clamp. 2,930,421, 3-29-60, Cl. 145-35.

Zamperi, Enrico M.: See—

White, Harry G., and Zamperi. 2,946,430.

Zampol, Peter. Method of photography. 2,928,734, 3-15-60, Cl. 96-27.

Zanardo, Giuseppe. Automatic answering and recording electronic apparatus suitable for association with calling circuits. 2,937,237, 5-17-60, Cl. 179-6.

Zanarini, Giuseppe. Synchronized saw-tooth generator. 2,922,120, 1-19-60, Cl. 331-151.

Zanca, Joseph: See—

Catalano, Charles, and Zanca. 2,954,640.

Zandberg, Paul I., and H. L. Diamond, said Diamond assor. to said Zandberg. Dental stone or plaster. 2,941,890, 6-21-60, Cl. 106-38.3.

Zandberg, Paul I., and M. L. Lappin. Bur chuck. 2,955,831, 10-11-60, Cl. 279-78.

Zandelin, Johan S. Telephone subscriber's index. 2,957,260, 10-25-60, Cl. 40-104.

Zander, Rolf A.: See—

Vigren, Sten D., Zander, and Claesson. 2,928,915.

Zander, Werner: See—

Gollos, Wolfgang, and Zander. 2,958,995.

Zandon, Victor A.: See—

Smith, William A., and Zandon. 2,950,007.

Zanegood, Eric. Drinking glass for swallowing pills and the like. 2,940,447, 6-14-60, Cl. 128-222.

Zang, Robert F., to Hupp Corp. Safety belt assemblies. 2,963,080, 12-6-60, Cl. 155-189.

Zangerle, Walter, to H. Leuenberger. Priming device for fluorescent tubes. 2,935,659, 5-3-60, Cl. 317-141.

Zängl, Karl. Process of and machine for treating used tires. 2,946,375, 7-26-60, Cl. 157-13.

Zanichowsky, Martin, to Allied Control Co., Inc. Electric switch. 2,962,571, 11-29-60, Cl. 200-159.

Zanini, Luigi. Process to embody wooden laths with coating of plastic material. 2,926,729, 3-1-60, Cl. 160-236.

Zanini, Luigi. Device for the automatic cutting of slots on window shutter slats or the like. 2,953,173, 9-20-60, Cl. 144-136.

Zankl, Frank: See—

Barker, Orrin W., Martin, Osburn, and Zankl. 2,963,945.  
Lukey, John B., Osburn, and Zankl. 2,925,018.

Zankl, Frank, to Kearney & Trecker Corp. Backlash eliminator. 2,959,976, 11-15-60, Cl. 74-441.

Zanotto, Paul C., and T. J. Smith, to Syntrol Co. Feeder bowl level switch and hopper control. 2,921,713, 1-19-60, Cl. 222-56.

Zanow, Andrew L., to National Malleable and Steel Castings Co. Draft gear. 2,948,413, 8-9-60, Cl. 213-43.

Zantop, Ernst: See—

Lang, Andre, and Zantop. 2,933,635.

Zapadoceske Autodruzstvo: See—

Nahodil, Antonin. 2,957,551.

Zapadomoravske Strojirny, narodni podnik: See—

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Zaphiropoulos, Renn, to Chromatic Television Laboratories, Inc. Color structure for cathode-ray tubes designed for polychrome image reproduction. 2,936,399, 5-10-60, Cl. 315-21.

Zapolski, Bronislaw, to American Radiator & Standard Sanitary Corp. Toilet seat attachment. 2,955,296, 10-11-60, Cl. 4-239.

Zappacosta, Amedeo D., to United States of America, Navy. Dual channel superheterodyne receiver. 2,930,025, 3-22-60, Cl. 340-2.

Zarabara, Theodore: See—

Berry, Henry E., Hirschle, and Zarabara. 2,947,137.

Zaremsky, Baruch: See—

Fuchsman, Charles H., Zaremsky, and Hansen. 2,949,439.

Zarnke, Albert H. Collapsible seat for golfers. 2,944,593, 7-12-60, Cl. 155-78.

Zaro, Louis, to Morrison Products, Inc. Blower wheel. 2,932,446, 4-12-60, Cl. 230-134.

Zarouni, Alfred: See—

Bissell, Henry M., and Zarouni. 2,964,656.

Zarrillo, Salvatore N.: See—

Mucher, George J., and Zarrillo. 2,945,199.

Zarrillo, Salvatore N., to Clarostat Mfg. Co., Inc. Hub coupling for electrical controls. 2,926,033, 2-23-60, Cl. 287-52.05.

Zarrillo, Salvatore N., to Clarostat Mfg. Co., Inc. Assembly for the control of electrical units. 2,941,175, 6-14-60, Cl. 338-134.

Zartler, Herbert P., to Wittek Mfg. Co. Hose clamp construction. 2,934,805, 5-3-60, Cl. 24-279.

Zartler, Herbert P., to Wittek Mfg. Co. Hose clamp construction. 2,955,340, 10-11-60, Cl. 24-279.

Zaruba, Leon L. Decoy anchor device. 2,942,370, 6-28-60, Cl. 43-3.

Zarwell, Cedric E.: See—

De Smidt, Woodrow A., and Zarwell. 2,946,871.

Zasada, Steven K., to United States of America, Navy. Dan buoy indicators. 2,957,446, 10-25-60, Cl. 116-107.

Zasadny, Peter to Portable Electric Tools, Inc. Switch mounting. 2,936,329, 5-10-60, Cl. 174-53.

Zastrow, Harold G., to Waldorf Paper Products Co. Ribbon spool holder. 2,953,245, 9-20-60, Cl. 206-52.

Zatyko, Frank, Sr. Method for making sheet metal V-pulleys. 2,929,345, 3-22-60, Cl. 113-51.

Zaugg, Harold E.: See—

Michaels, Raymond J., Jr., and Zaugg. 2,925,420.  
Michaels, Raymond J., Jr., and Zaugg. 2,946,793.

Zaugg, Harold E., to Abbott Laboratories. Scopolamine and scopolamine esters of alpha, alpha diphenyl propionic acid. 2,927,925, 3-8-60, Cl. 260-292.

Zaugg, Harold E., and R. J. Michaels, Jr., to Abbott Laboratories. 2-benzhydrylidene- $\Delta^2$ -tropene and lower alkyl halide quaternaries. 2,923,711, 2-2-60, Cl. 260-292.

Zaugg, Harold E., and R. J. Michaels, Jr., to Abbott Laboratories. Guanidine salts of barbituric acids. 2,932,643, 4-12-60, Cl. 260-256.4.

Zaugg, Harold E., R. J. Michaels, Jr., and H. J. Glenn, to Abbott Laboratories. 2,2-diphenyl-3-thiolpropionic acid and derivatives thereof. 2,940,992, 6-14-60, Cl. 260-470.

Zaugg, Harold E., and R. W. De Net, to Abbott Laboratories. 1-methyl-5(2',2'-diphenyl-3'-ethyl-4'-furylmethyl)-amidazole and salts and lower alkyl quaternaries. 2,946,803, 7-26-60, Cl. 260-309.

Zaugg, Harold E., and R. W. De Net, to Abbott Laboratories. (5-methyl-4-imidazolyl)-diphenyl carbinol salts and lower alkyl quaternaries. 2,946,804, 7-26-60, Cl. 260-309.

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Zauncoosky, Stanley and V. M. Sewing appliance. 2,922,554, 1-26-60, Cl. 223-61.

Zauncoosky, Violet M.: See—

Zauncoosky, Stanley and V. M. 2,922,554.

Zauner, Otto, to Kimble Glass Co. Tool for shaping glass vials. 2,952,943, 9-20-60, Cl. 49-7.



- Zavada, Anthony W., to Rockwell Mfg. Co. Thrust roller liner for nutating disc meters and assembly thereof. 2,960,074, 11-15-60, Cl. 121-69.
- Zavarella, Arthur: *See*—  
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- Zaveruha, Victor A., to The Coulter & McKenzie Machine Co., Inc. Machine and method for shaping articles. 2,929,281, 3-22-60, Cl. 80-19.
- Zavist, Algerd F.: *See*—  
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- Zavody presneho strojirenstvi Gottwaldov, narodni podnik: *See*—  
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- Závody Rudych Letnic 1930, Narodni Podnik: *See*—  
Koleda, Martin, and Mrazek. 2,929,858.
- Zdansky, Ewald A., and H. H. Geffcken. Crystallizing apparatus. 2,960,843, 11-22-60, Cl. 62-123.
- Zearfoss, Elmer W., Jr., to Philco Corp. Sliding door structure. 2,930,667, 3-29-60, Cl. 312-304.
- Zearfoss, Elmer W., Jr., and E. E. Demand, to Philco Corp. Refrigeration. 2,966,041, 12-27-60, Cl. 62-60.
- Zebarth, Ralph S., to Gordon Johnson Co. Apparatus for processing poultry having means for localized scalding. 2,924,845, 2-16-60, Cl. 17-11.2.
- Zebarth, Ralph S., to Gordon Johnson Co. Machine for removing the heads of dressed poultry. 2,924,846, 2-16-60, Cl. 17-12.
- Zebarth, Ralph S., to Gordon Johnson Co. Cleaner and conditioner for poultry parts. 2,927,341, 3-8-60, Cl. 17-11.
- Zebarth, Ralph S., to Gordon Johnson Co. Power drive for chain conveyor assembly. 2,931,486, 4-5-60, Cl. 198-203.
- Zebley, Donald D. Conveyor construction. 2,944,658, 7-12-60, Cl. 198-177.
- Zecchini, Pierre Y. Pad for dispensing liquid, pasty and pulverulent products. 2,961,677, 11-29-60, Cl. 15-131.
- Zechel, William J., to Studebaker-Packard Corp. Combined body, brake system and accelerator pedal assembly. 2,920,711, 1-12-60, Cl. 180-77.
- Zechman, Richard, and H. Knapp, to Robert Bosch, G.m.b.H. Fuel injection system. 2,941,519, 6-21-60, Cl. 123-32.
- Zechtzer, Sol, to Philco Corp. Amplitude modulated pentode with linearity control. 2,930,994, 3-29-60, Cl. 332-37.
- Zeco Research Corp.: *See*—  
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- Zeeb, Stanley H.: *See*—  
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- Zegers, Inc.: *See*—  
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- Zeh, Manfred: *See*—  
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- Zehnder, Walter: *See*—  
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- Zehrlaut, Herbert A. R., to Zeco Research Corp. Process of treating aluminous cement and product. 2,919,997, 1-5-60, Cl. 106-104.
- Zeider, John C., and L. Corb, to Dorsilium Corp. of America. Simulated gold alloy. 2,935,400, 5-3-60, Cl. 75-157.
- Zeldler, Howard M., to AMP Inc. Drive circuit. 2,959,731, 11-8-60, Cl. 323-89.
- Zeldler, Reinhold C., to Borg-Warner Corp. Friction clutch. 2,920,731, 1-12-60, Cl. 192-68.
- Zeidler, Reinhold C., to Borg-Warner Corp. Transmission. 2,950,630, 8-30-60, Cl. 74-645.
- Zeidler, Reinhold C., and R. J. Berr, to Borg-Warner Corp. Disconnect clutch assembly. 2,931,476, 4-5-60, Cl. 192-89.
- Zeigle, Kenneth C., to Electric Vendors, Inc. Saving stamp vending machine. 2,962,148, 11-29-60, Cl. 194-10.
- Zeigle, Kenneth C., to Electric Vendors, Inc. Vending machine for trading stamps and the like. 2,964,313, 12-13-60, Cl. 271-2.4.
- Zeigle, Kenneth C., and A. A. Wersal, to Electric Vendors, Inc. Variable stamp vending and money changing machine. 2,941,644, 6-21-60, Cl. 194-10.
- Zeigler, Herman A. Fishing rod handle, with reel, self-locking device. 2,955,376, 10-11-60, Cl. 43-22.
- Zeigler, Philip B.: *See*—  
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Lincoln, Clovis W., and Zeigler. 2,919,679.
- Zeigler, Philip B., and G. A. Edwards, to General Motors Corp. Hose arrangement. 2,956,586, 10-18-60, Cl. 137-563.
- Zeile, Karl, H. Köppe, and W. Konz, to C. H. Boehringer Sohn. Process for the production of bead polymerizates from cyclic internal esters of  $\alpha$ -hydroxy carboxylic acids. 2,951,828, 9-6-60, Cl. 260-77.5.
- Zellman, Roy H.: *See*—  
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- Zellman, Roy H., and O. von Mehren, to The Thew Shovel Co. Demountable superstructure for motor cranes and the like. 2,965,245, 12-20-60, Cl. 212-69.
- Zeisig, Harry C., Jr.: *See*—  
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- Zeisloff, Harry C.: *See*—  
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- Zeisloff, Harry C., to General Motors Corp. Servomechanism. 2,965,076, 12-20-60, Cl. 121-147.
- Zeiss, Carl: *See*—  
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- Zeiss, Harold H., and W. Herwig, to Monsanto Chemical Co. Condensation processes. 2,953,610, 9-20-60, Cl. 260-673.
- Zeiss Ikon A.G.: *See*—  
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- Zeiss Ikon A.G. Stuttgart: *See*—  
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- Zeissler, Albert B.: *See*—  
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- Zeitlin, Edward J. Automobile tire with means for attachment of chains, tire boot, etc. 2,946,367, 7-26-60, Cl. 152-222.
- Zeitschel, Ruth H., to Rohm & Haas Co. Quaternary ammonium compounds of the uridoalkylammonium type. 2,947,748, 8-2-60, Cl. 260-247.2.
- Zeitz, Karl H.: *See*—  
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- Zeldin, Lawrence, to Bjorksten Research Laboratories, Inc. Polymerization of ethylene. 2,962,489, 11-29-60, Cl. 260-94.9.
- Zelinka, Richard J., to Minneapolis-Honeywell Regulator Co. Semiconductor devices. 2,923,870, 2-2-60, Cl. 317-235.
- Zeller Corp., The: *See*—  
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- Zeller, Paul: *See*—  
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Gutmann, Hugo, Straub, and Zeller. 2,934,539.  
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- Zeller, Robert C., to The Zeller Corp. Insulator electrode assembly for spark plugs and method of forming the same. 2,954,495, 9-27-60, Cl. 313-136.
- Zellerhoff, Bruno: *See*—  
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- Zellmer, Neale A.: *See*—  
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- Zellweger A.G.: *See*—  
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- Zellweger Ltd. Uster Factories for Apparatus and Machines: *See*—  
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- Zelt, Elmer J., to General Electric Co. Electrical junction boxes. 2,924,639, 2-9-60, Cl. 174-59.
- Zeman, Bernard L., to Allis-Chalmers Mfg. Co. Tilttable engine guard for tractor vehicles. 2,965,187, 12-20-60, Cl. 180-69.
- Zeman, Ladimir R. Fluid actuated motion translating device. 2,948,460, 8-9-60, Cl. 230-114.
- Zemanek, Joseph, Jr.: *See*—  
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- Zemanek, Joseph, Jr., and W. G. Hicks, to Socony Mobil Oil Co., Inc. System for acoustic pulse frequency logging. 2,956,634, 10-18-60, Cl. 181-5.
- Zempliner, Louis L. Process of extracting pyridine carboxylic acids as bisulfates. 2,949,468, 8-16-60, Cl. 260-295.5.
- Zempliner, Louis L. Recovery of the sulfonation products of quinoline. 2,950,283, 8-23-60, Cl. 260-283.
- Zenczak, Piotr, to Grenco, Inc. Method of producing, separating and recovering reaction products from bark. 2,947,764, 8-2-60, Cl. 260-397.25.
- Zenftman, Henryk, to Imperial Chemical Industries Ltd. Anion exchange resins from esters of acrylic acids with polyhydroxy substituted quaternary ammonium salts. 2,946,758, 7-26-60, Cl. 260-2.1.
- Zenisek, Ladislav: *See*—  
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- Zenith Radio Corp.: *See*—  
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 Bell, John F. 2,964,623.  
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 Crotty, Francis W. 2,926,019.  
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 Miller, Bertrand J. 2,939,916.  
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- Zenitz, Bernard L.: *See*—  
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- Zenitz, Bernard L., to Sterling Drug, Inc. 3-alkyl-4-hydroxy-methyl-4-alkyloxazolidines. 2,964,530, 12-13-60, Cl. 260—307.
- Zenn, Kenneth M., to P. Curland. Handbag with disappearing handle. 2,960,135, 11-15-60, Cl. 150—12.
- Zenner, Walter J., to Teletype Corp. Tape feed mechanism for a high speed punch or reader. 2,924,452, 2-9-60, Cl. 271—24.
- Zephyr Laundry Machinery Co.: *See*—  
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- Zephyr Mfg. Co.: *See*—  
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- Zerbe, Richard O.: *See*—  
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- Zerbe, Louis J. Cushioning member. 2,942,653, 6-28-60, Cl. 155—187.
- Zergher, Kemper A.: *See*—  
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- Zerle, Ludwig: *See*—  
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 Leimer, Albert, and Zerle. 2,966,593.
- Zerlin, Hans, to Jagenberg-Werke Aktie-Ges. Method and apparatus for closing or sealing containers of paper, cardboard, or the like carton-forming material. 2,920,432, 1-12-60, Cl. 53—371.
- Zerlin, Hans, to Jagenberg-Werke Akt.-Ges. Methods of and means for producing, processing and for treating articles. 2,931,276, 4-5-60, Cl. 93—39.1.
- Zern, Warren B. Woodworking apparatus for cutting a miter on trim and door stops. 2,940,485, 6-14-60, Cl. 143—38.
- Zern, Warren B. System for hanging doors. 2,949,948, 8-23-60, Cl. 144—309.
- Zern, Warren B. System for hanging doors. 2,966,181, 12-27-60, Cl. 144—144.
- Zerna, Wolfgang, and L. Muhe, to Philipp Holzmann Aktiengesellschaft. Cast tensioning head for anchoring tensioning members, preferably for prestressed concrete. 2,934,935, 5-3-60, Cl. 72—108.
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- Zeta Electronics: *See*—  
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- Zeta-Northern Co.: *See*—  
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- Zetterlund, Arthur, to Kolman Mfg. Co. Screening plant. 2,922,510, 1-26-60, Cl. 198—60.
- Zetti, Toni, to Heinrich Bartz K.G. Multiple-way valve. 2,921,604, 1-19-60, Cl. 137—625.43.
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- Ziegler, John A., to The Griffith Laboratories, Inc. Method of smoking sausage meat. 2,944,909, 7-12-60, Cl. 99—229.
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- Zilli, David A. Photographic process. 2,927,020, 3-1-60, Cl. 96-32.
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- Zimmer, Peter, to Zimmer's Successors Co. Printing textiles and like materials. 2,965,020, 12-20-60, Cl. 101-123.
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- Zimmerman, Benjamin E. Alarm system. 2,921,299, 1-12-60, Cl. 340-274.
- Zimmerman, Charles L.: See—  
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- Zimmerman, Elizabeth M., to Philco Corp. Electrochemical method, electrolyte therefor, and method for producing said electrolyte. 2,931,758, 4-5-60, Cl. 204-14.
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- Zimmerman, Ralph E.: See—  
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- Chyle, John J., and Zimmermann. 2,952,231.
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- Zink, John S., Jr., Edwards, Duncan, and Reed. 2,964,121.
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- Zoller, Ronald E., to The Babcock & Wilcox Co. Method and apparatus for generating, super-heating, and reheating steam with steam temperature control by selective gas recirculation. 2,922,406, 1-26-60, Cl. 122-478.
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- Zoltok, Harry. Tube connector. 2,952,484, 9-13-60, Cl. 287-54.
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- Bellek, Frank G. Outdoor receptacle cover. 189,452, 12-20-60, Cl. D26-13.
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- Berglund, Olof H., to Aktiebolaget Albin Hagstrom. Control panel for a guitar or similar article. 188,348, 7-5-60, Cl. D56-1.
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- Blum, Louis, to Blumcraft of Pittsburgh. Architectural grille. 187,494, 3-22-60, Cl. D54-2.
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- Blum, Louis, to Blumcraft of Pittsburgh. Railing post. 187,640, 4-12-60, Cl. D13-7.
- Blum, Louis, to Blumcraft of Pittsburgh. Handrail unit. 187,979, 5-24-60, Cl. D13-7.
- Blum, Louis, to Blumcraft of Pittsburgh. Mounting bracket for railing posts. 188,238, 6-21-60, Cl. D13-7.
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- Bobrick, Mitchell, to Sunbeam Lighting Co. Hospital bed light unit. 188,508, 8-2-60, Cl. D48-20.
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- Boka, Victor P., Jr., and J. A. Herman. Spray nozzle for cleaning the interior of tanks or the like. 188,023, 5-24-60, Cl. D91-1.
- Bold, Lucille L. Flatiron holder. 188,390, 7-12-60, Cl. D49-6.
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- Boldt, Melvin H., to Zenith Radio Corp. Combined escutcheon and face plate for a television receiver cabinet. 187,393, 3-8-60, Cl. D56-4.
- Boldt, Melvin H., to National Presto Industries, Inc. Pressure cooker. 187,609, 4-5-60, Cl. D44-1.
- Boldt, Melvin H., to National Presto Industries, Inc. Electric oven. 187,901, 5-10-60, Cl. D81-10.
- Boldt, Melvin H., to Zenith Radio Corp. Hearing aid. 187,926, 5-17-60, Cl. D26-14.
- Boldt, Melvin H., to Zenith Radio Corp. Hearing aid. 187,927, 5-17-60, Cl. D26-14.
- Boldt, Melvin H., to Zenith Radio Corp. Television receiver. 188,132, 6-7-60, Cl. D56-4.
- Boldt, Melvin H., to Zenith Radio Corp. Portable radio cabinet. 188,351, 7-5-60, Cl. D56-4.
- Boldt, Melvin H. Phonograph cabinet. 188,769, 9-6-60, Cl. D56-4.
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- Bonistall, John F. Combination tooth brush and tumbler holder. 187,520, 3-29-60, Cl. D4-3.
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- Bowne, Martin S., to Lee Clay Products Co. Compression type pipe joint. 189,229, 11-8-60, Cl. D91-3.
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- Brown, Harry W., to Cutler-Hammer, Inc. Rocker button actuator for an electric switch. 188,325, 7-5-60, Cl. D26-13.
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- Budke, Ernst, and R. J. Renaud, to Sylvania Electric Products Inc. Fluorescent lighting fixture. 188,436, 7-19-60, Cl. D48-23.
- Budovec, Joseph E., to Jefferson Electric Co. Transformer for energizing neon signs or similar article. 189,478, 12-27-60, Cl. D26-15.
- Budovec, Joseph E., to Jefferson Electric Co. Transformer for energizing neon signs or similar article. 189,479, 12-27-60, Cl. D26-15.
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- Carpenter, Staley A., to The B. F. Goodrich Co. Embossed plastic sheet material. 187,363, 3-1-60, Cl. D87-3.



- Carpenter, Staley A., to The B. F. Goodrich Co. Embossed plastic sheet material. 189,512, 12-27-60, Cl. D87-3.
- Carpenter, Staley A., to The B. F. Goodrich Co. Embossed plastic sheet material. 189,513, 12-27-60, Cl. D87-3.
- Carreiro, Joseph : See—
- Sklaroff, William B., and Carreiro. 187,855.
- Carrier Corp. : See—
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- Long, Douglas A. 189,070.
- Rinaldi, Joseph A. 187,565.
- Carse, Clifford C. Dispensing head for liquids. 187,974, 5-24-60, Cl. D2-3.
- Carter, Herman H. Ornamental metalwork panel. 187,297, 2-23-60, Cl. D54-2.
- Carter, Paul H., T. E. Marion, and R. L. Morse, to Universal Machine Co., Inc. Filling machine for ice cream or the like. 188,295, 6-28-60, Cl. D55-1.
- Carthew, Garry M., to Peter Pepper Products, Inc. Combined clock and perpetual calendar. 188,801, 9-13-60, Cl. D42-7.
- Cartier, Inc. : See—
- Mayeur, Jean. 188,601.
- Carty, Margaret F. C. Pitcher. 189,204, 11-8-60, Cl. D44-21.
- Casco Products Corp. : See—
- Mozneck, Ulysses S. 186,982.
- Case Mfg. Corp. : See—
- Young, Willard G. 187,365.
- Castaneda, Albert U., to Angelus Souvenir & Mfg. Co. Holster. 187,533, 3-29-60, Cl. D30-1.
- Castillo, Herman B., to Temprite Products Corp. Wall mounted water cooler or the like. 188,572, 8-9-60, Cl. D67-4.
- Castle, Alfred B. : See—
- Bryson, Henry K., and Castle. 189,289.
- Caterpillar Tractor Co. : See—
- Babbitt, John H., Jr., Clancy, Gerber, and Sons. 188,314.
- Bacon, Roger J., Fabere, and Mogk. 189,024.
- Beyer, Frederick W., Jr., and Sieving. 188,840.
- Jefferson, Charles R., and Fuzzell. 187,582.
- Catto, Kenneth A., to Code-A-Phone Electronics, Inc. Automatic telephone recording apparatus. 188,794, 9-13-60, Cl. D26-14.
- Catto, Kenneth A., to Code-A-Phone Electronics, Inc. Automatic telephone recording apparatus. 188,795, 9-13-60, Cl. D26-14.
- Caulkins, Bruce D., to Atlas Supply Co. Tire. 188,304, 6-28-60, Cl. D90-20.
- Caurette, Gabriel E., to Compagnie Generale des Etablissements Michelin (Robert Puiseux & Cie). Tire. 187,575, 3-29-60, Cl. D90-20.
- Cavalero, John V. Key chain. 187,425, 3-15-60, Cl. D17-3.
- Cavella, Joseph C. Holder for record albums. 188,603, 8-16-60, Cl. D33-3.
- Cawl, Allen P. : See—
- Belicka, Michael E., Brundage, Cawl, and Guild. 189,394.
- Centre Brass Works, Inc. : See—
- Kraft, Jack. 188,115.
- Cericola, John H. Automobile emblem. 188,239, 6-21-60, Cl. D14-6.
- Cerrito, John A. Jewelry finding. 187,881, 5-10-60, Cl. D45-19.
- Cerrito, John A. Jewelry finding. 187,997, 5-24-60, Cl. D45-19.
- Cerrito, John A. Jewelry finding. 187,998, 5-24-60, Cl. D45-19.
- Cerrito, John A. Jewelry finding. 188,911, 9-27-60, Cl. D45-19.
- Chalcraft, Charles P. Game board. 188,548, 8-9-60, Cl. D34-5.
- Champion Heater Co., Inc. : See—
- Cooper, William M. 188,926.
- Champion Spark Plug Co. : See—
- Hanke, John H. 187,098.
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- Chandler, Linden H. : See—
- Beall, Richard W., Jr. 187,672.
- Chapin, Charles J., to The Astatic Corp. Phonograph stylus and holder therefor or similar article. 188,763, 9-6-60, Cl. D26-14.
- Chapin, Charles J., to The Astatic Corp. Combined phonograph pickup cartridge and mounting bracket therefor. 188,764, 9-6-60, Cl. D26-14.
- Chapin, Claire A. Badge. 188,664, 8-23-60, Cl. D29-2.
- Chaplin, George F., to Continental Can Co., Inc. Closure cap for bottles or the like. 188,771, 9-6-60, Cl. D58-26.
- Chapman, Ceil, to Samuel Chapman, Inc. Dress or the like. 186,974, 1-5-60, Cl. D3-26.
- Chapman, Ceil, to Samuel Chapman, Inc. Dress or the like. 187,065, 1-19-60, Cl. D9-2.
- Chapman, Ceil, to Samuel Chapman, Inc. Dress or the like. 187,417, 3-15-60, Cl. D3-26.
- Chapman, Ceil, to Samuel Chapman, Inc. Dress or the like. 187,418, 3-15-60, Cl. D3-26.
- Chapman, Ceil, to Samuel Chapman, Inc. Dress or the like. 187,419, 3-15-60, Cl. D3-26.
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- Chapman, Ceil. Dress or similar article. 188,980, 10-11-60, Cl. D3-26.
- Chapman, Dave, to Scovill Mfg. Co. Coffee maker. 187,238, 2-16-60, Cl. D44-26.
- Chapman, Dave, to Scovill Mfg. Co. Vacuum cleaner. 187,325, 3-1-60, Cl. D3-26.
- Chapman, David, to Brunswick Corp. Combined chair and rack. 189,093, 10-25-60, Cl. D33-11.
- Chapman, David, and R. G. Reineman, to Brunswick Corp. Chair or the like. 189,347, 11-29-60, Cl. D15-1.
- Chapman, Frederick D. : See—
- Anderson, Douglas W., and Chapman. 187,076.
- Chapman, Frederick D., to Scovill Mfg. Co. Lawn sprinkler head. 187,576, 3-29-60, Cl. D91-1.
- Chapman, Frederick D., and K. Yamasaki, to Hussmann Refrigerator Co. Refrigerated display case. 188,082, 5-31-60, Cl. D80-11.
- Chapman, Frederick D., to Otto Bernz Co., Inc. Lawn sprinkler or similar article. 188,929, 9-27-60, Cl. D91-1.
- Chapman, Samuel, Inc. : See—
- Chapman, Ceil. 186,974.
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- Charak, Nathan. Garment hanger. 187,092, 1-19-60, Cl. D80-8.
- Chiariello, Joseph L. Applicator comb. 188,479, 7-26-60, Cl. D86-8.
- Chicago Dynamic Industries, Inc. : See—
- Koel, Jerry C. 188,119.
- Chinn, Thomas and P. Joe. Electric cooker and server combination. 187,681, 4-12-60, Cl. D81-17.
- Christenson, Trace S., Jr., and H. B. Barber, to Peabody Seating Co., Inc. Desk or similar member. 187,137, 2-2-60, Cl. D33-11.
- Christenson, Trace, Jr., and R. L. Gallup, to The Majestic Co., Inc. Barbecue grill. 188,641, 8-16-60, Cl. D81-25.
- Christenson, Trace, Jr., and R. L. Gallup, to The Majestic Co., Inc. Free-standing fireplace. 188,973, 10-4-60, Cl. D81-7.
- Christenson, Trace S., Jr., and H. B. Barber, to Peabody Seating Co., Inc. Table. 187,596, 4-5-60, Cl. D33-14.
- Christenson, Trace S., Jr., and H. B. Barber, to Peabody Seating Co., Inc. Chair. 188,241, 6-21-60, Cl. D15-1.
- Christiansen, James S. Muzzle for a spear fishing gun. 188,328, 7-5-60, Cl. D30-1.
- Christoffersen, Kurt E., to Artistic Wire Products Co., Inc. Drainer basket. 187,430, 3-15-60, Cl. D44-29.
- Christoffersen, Kurt E., to Artistic Wire Products Co., Inc. Drainer basket. 187,431, 3-15-60, Cl. D44-29.
- Christoffersen, Kurt E., to The Artistic Wire Products Co. of Conn., Inc. Drainer basket. 188,254, 6-21-60, Cl. D44-29.
- Christoffersen, Kurt E., to The Artistic Wire Products Co. of Conn., Inc. Drainer basket. 189,311, 11-22-60, Cl. D44-29.
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- Reynolds, Frederick. 187,371.
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- Chupa, Charles M. : See—
- Rice, Russel O., Chupa, and Smajd. 189,228.
- Smajd, Carl F., and Chupa. 187,175.
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- Clapp, Roy A. : See—
- Haviland, Douglas L., Kallenberg, and Clapp. 187,307.
- Clapper, Donald H. Combination earth roller and tractor. 189,290, 11-22-60, Cl. D14-3.
- Clark, Edward B., to General Electric Co. Telephone connection box or similar article. 188,850, 9-20-60, Cl. D26-14.



- Clark Equipment Co.: *See*—  
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- Clark, Geoffrey F.: *See*—  
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- Clark, Joseph C. Fishing reel. 187,535, 3-29-60, Cl. D31-4.
- Clark, Walter. Traller. 187,786, 5-3-60, Cl. D14-3.
- Clarke, Houghton W., to Mealpack Corp. Hand truck. 189,291, 11-22-60, Cl. D14-3.
- Clarke, Robert E. Inflated play horse. 188,123, 6-7-60, Cl. D34-15.
- Claus, Earl W., to White-Rodgers Co. Casing for a thermostat, or the like. 186,997, 1-5-60, Cl. D52-7.
- Claus, Earl W., to White-Rodgers Co. Casing for a thermostat, or the like. 187,199, 2-9-60, Cl. D52-7.
- Claus, Earl W., to White-Rodgers Co. Casing for a thermostat, or the like. 187,390, 3-8-60, Cl. D52-7.
- Clay, Eugene O., to North American Aviation, Inc. Fastener tool. 189,000, 10-11-60, Cl. D54-14.
- Clayton, La Verne E., to Amerock Corp. Hinge. 188,485, 8-2-60, Cl. D10-9.
- Clayton, La Verne E., to Amerock Corp. Knob. 188,509, 8-2-60, Cl. D50-3.
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- Cleaver, Clyde P., to American Encaustic Tiling Co. Tile. 189,033, 10-18-60, Cl. D18-2.
- Cleek, Charles L. Hand blinker-signal light. 188,518, 8-2-60, Cl. D72-1.
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- Coats, Claude D., to Disneyland, Inc. Amusement ride car. 187,036, 1-12-60, Cl. D34-15.
- Cobaugh, Robert F. Electrical connector. 188,105, 6-7-60, Cl. D26-1.
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- Cocker Machine and Foundry Co.: *See*—  
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- Cohen, David A. Game board. 187,872, 5-10-60, Cl. D34-5.
- Cohen, Harvey G., and W. Currie, to Congoleum-Nairn Inc. Hard surface floor covering or similar article. 188,648, 8-16-60, Cl. D92-17.
- Cohen, Harvey G., to Congoleum-Nairn Inc. Hard surface floor covering or similar article. 189,014, 10-11-60, Cl. D92-17.
- Cohen, Morton R. Table. 186,984, 1-5-60, Cl. D33-14.
- Cohen, Morton R. Table. 186,985, 1-5-60, Cl. D33-14.
- Cohen, Morton R. Table. 187,990, 5-24-60, Cl. D33-14.
- Cohen, Morton R. Table. 188,056, 5-31-60, Cl. D33-14.
- Cohen, Morton R. Table. 188,330, 7-5-60, Cl. D33-14.
- Cohen, Morton R. Table. 188,331, 7-5-60, Cl. D33-14.
- Cohen, Morton R. Chair. 189,346, 11-29-60, Cl. D15-1.
- Cohn, Irwin, to Great American Plastics Co. Toy grandfather clock or similar article. 188,253, 6-21-60, Cl. D34-15.
- Cohn, Sidney. Boot. 188,752, 9-6-60, Cl. D7-7.
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- Cole, Edwin I., to The Stiffel Co. Base for table lamps. 189,207, 11-8-60, Cl. D48-20.
- Cole, Edwin I., to The Stiffel Co. Base for table lamps. 189,364, 11-29-60, Cl. D48-20.
- Cole, Junior R., and A. L. Brown. Electric guitar. 188,349, 7-5-60, Cl. D56-1.
- Cole, Raymond C. Brassiere. 188,760, 9-6-60, Cl. D20-4.
- Cole, Raymond C. Brassiere. 188,761, 9-6-60, Cl. D20-4.
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- Coleman, Edwin D., deceased; M. A. Riskind and The Northern Trust Co., executors, to Coleman Instruments, Inc. Photoelectric colorimeter for reading and graphing the absorption curves of electrophoretic strips. 189,027, 10-18-60, Cl. D16-2.
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- Collin, Herbert S. Carton for storing and shipping or the like. 187,087, 1-19-60, Cl. D58-12.6.
- Collinger, William W., M. C. Rosen, W. E. Hunn, and E. Levin. Children's theater. 187,659, 4-12-60, Cl. D34-15.
- Collins, Harry J., Jr., to Cutler-Hammer, Inc. Cover for an electric circuit controller casing. 187,225, 2-16-60, Cl. D26-13.
- Collins, Harry J., Jr., to Cutler-Hammer, Inc. Openable cover for an electric circuit controller enclosure. 187,226, 2-16-60, Cl. D26-13.
- Collins, Harry J., Jr., to Cutler-Hammer, Inc. Openable cover for an electric circuit controller casing. 187,227, 2-16-60, Cl. D26-13.
- Collins, Harry J., Jr., to The Trane Co. Unit heater casing. 189,278, 11-15-60, Cl. D81-19.
- Collins, Harry J., Jr., to Baso Inc. Thermostat. 189,493, 12-27-60, Cl. D52-7.
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- Collord, James C., to The Heekin Can Co. Portable cooler. 187,404, 3-8-60, Cl. D67-4.
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- Conroy, Edward J., to The International Silver Co. Spoon or similar article of flatware. 189,217, 11-8-60, Cl. D54-12.
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- Cook, Ernest E., and H. J. Sadler. Pump housing. 187,674, 4-12-60, Cl. D65-1.
- Cooper, Augustus H. Combined radiator cover, planter, and shelves. 187,722, 4-19-60, Cl. D81-21.
- Cooper, William M., to Champion Heater Co., Inc. Portable space heater. 188,926, 9-27-60, Cl. D81-20.
- Copping, Brian, to Swivelier Co., Inc. Adjustable lighting fixture and wall recess combination. 188,690, 8-23-60, Cl. D48-4.
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- Cordis, Nat. Hormone pellet implanter for animals or similar article. 189,172, 11-1-60, Cl. D83-12.
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- Corning Glass Works: *See*—  
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- Corwin, Arthur H. Child's vehicle. 187,236, 2-16-60, Cl. D34-15.
- Corwin, Sylvan E. Wall clock or similar article. 187,189, 2-9-60, Cl. D42-7.
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- Cory Corp.: See—
- Fischer, Henry R., and Karlen. 187,613.
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- Spence, Robert S., and Minton. 187,099.
- Costen, Houston D. Combined rolled paper holder and dispenser. 189,105, 10-25-60, Cl. D52-2.
- Cothern, Myron R., to Texaco Inc. Combined advertising sign and standard. 188,306, 7-5-60, Cl. D1-12.
- Cottrell, Clarence J. Lamp base. 189,055, 10-18-60, Cl. D48-20.
- Cottrell, George W. Pipe cleaner. 188,157, 6-7-60, Cl. D85-7.
- Cousino, Bernard A. Sound reflecting device for speech practice. 189,450, 12-20-60, Cl. D25-1.
- Covey, Laird, and C. J. Jaworski, to Royal McBee Corp. Typewriter. 188,873, 9-20-60, Cl. D64-11.
- Cowley, William E., to American Saw and Tool Co. Combination tap wrench and holder. 188,072, 5-31-60, Cl. D54-16.
- Cowley, William E., and W. M. McCord, Jr., to American Saw and Tool Co. Abrading tool. 188,124, 6-7-60, Cl. D37-1.
- Cowley, William E., and W. M. McCord, Jr., to American Saw and Tool Co. Abrading tool. 188,337, 7-5-60, Cl. D37-1.
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- Craig, Burnie M., N. E. Roe, and A. Brandes, to Ekco Products Co. Combined handle and latch actuating unit. 188-042, 5-31-60, Cl. D10-8.
- Craig, Burnie M., and N. E. Roe, to The George Thompson Corp. Pepper mill or similar article. 189,310, 11-22-60, Cl. D44-22.
- Crane Co.: See—
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- Crane, Paul A. Shoe sole or similar article. 189,234, 11-15-60, Cl. D7-5.
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- McCabe, John B., and Wakeman. 187,473.
- Cress, Cornelia V. Combined holder and dispenser for string and the like. 189,423, 12-13-60, Cl. D41-1.
- Cretin-Maitenaz, Bernard, to Societe en Commandite Simple et en Nom Collectif a l'egard des Gerants, dite: Societe Industrielle et Commerciale des Ouvriers Lunetiers Cottet. Pair of spectacles. 188,626, 8-16-60, Cl. D57-1.
- Crimmins, David J., to The Thomas & Betts Co. Crimping tool. 188,392, 7-12-60, Cl. D54-13.
- Cripe, Gene H.: See—
- Tweedie, Thomas D., and Cripe. 187,012.
- Crocker, Percival B., to The Sentry Co. Tube furnace. 187-967, 5-17-60, Cl. D81-1.
- Cross, Arthur E., to General Brands, Inc. Snow plow blade. 187,874, 5-10-60, Cl. D35-2.
- Crotty Corp.: See—
- Crotty, Willard E. 187,763.
- Crotty, Willard E., to Crotty Corp. Life jacket. 187,763, 4-26-60, Cl. D71-1.
- Cuellar, Macario, Jr. Hat. 189,120, 11-1-60, Cl. D3-13.
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Humbert, Jack N., and I. W. Rybicki, to General Motors Corp. Wheel cover. 187,022, 1-12-60, Cl. D14-30.  
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Humphries, John B., to The Excelsior Hardware Co. Luggage latch. 188,469, 7-26-60, Cl. D50-7.  
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Husby, Donald E., and E. L. Izzi, to Westinghouse Electric Corp. Combined luminaire and slip fitter. 187,616, 4-5-60, Cl. D48-31.  
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- Huston, Elmo F.: See—  
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- Hvale, James L., to Ekco Products Co. Culinary beater.  
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- Hvale, James L., to Ekco Products Co. Receptacle handle.  
188,065, 5-31-60, Cl. D44-29.
- Hvale, James L., and R. A. Eckersberg, to Ekco Products Co.  
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- Hvale, James L., and W. F. Meara, to Ekco Products Co.  
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- Hyde, Robert W., to American Radiator & Standard Sanitary  
Corp. Cabinet sink. 187,420, 3-15-60, Cl. D4-2.
- Hydrocon, Inc.: See—  
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189,260, 11-15-60, Cl. D52-1.
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- Irving, James H. Combined swimming float and exerciser.  
187,626, 4-5-60, Cl. D71-1.
- Irwin, George, to Herbert George Co. Combined camera  
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- Irwin, Raymond A., and J. F. Sanlader, to Kaysun, Inc.  
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- Ischinger, Alfred E. Combined wrist watch and mirror.  
187,142, 2-2-60, Cl. D42-8.
- Ischinger, Alfred E. Combined wrist watch and mirror.  
187,193, 2-9-60, Cl. D43-4.
- Israel, Howard L., to Bonne Age, Inc. Carrying bag.  
187,516, 3-22-60, Cl. D87-3.
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- Ives, Thomas H., to Donald F. Duncan, Inc. Return top.  
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- Jackson, Duane O., to Distinguished Gift Manufacturers, Inc.  
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- Jackson, John F. B., and D. Colbridge, to A.P.V.-Paramount  
Ltd. Pipe fitting. 187,207, 2-9-60, Cl. D91-3.
- Jackson, Leslie K. Leg for a bedframe. 187,637, 4-12-60,  
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- Jackson, Philip W., Jr.: See—  
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- Jackson, W. L., Mfg. Co., Inc.: See—  
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- Jacobs, Arthur F., to Modeline Co. of California Inc. Lamp  
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- Jaffe, Joseph L., Jr., to The Perfecite Co. Wall lighting  
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- Jakeway, Gerald V., to Keeler Brass Co. Control knob.  
187,224, 2-16-60, Cl. D26-13.
- Jakeway, Gerald V., to Keeler Brass Co. Stove door handle.  
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- Jakeway, Gerald V., to Keeler Brass Co. Control knob.  
187,532, 3-29-60, Cl. D26-13.
- Jakeway, Gerald V., to Keeler Brass Co. Bracket for picture  
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- James, Mark S., Jr., to Mark Laboratories, Inc. Diaper pail  
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- Jameson, John J., and G. J. Kloppenburg, to Wilbert W.  
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- Jarrett, Elwood D., to Jarrett Electric, Inc. Masking unit  
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- Jarvis, William E., and C. Van Rensselaer, to Hewlett-  
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- Jefferson, Charles K., and J. E. Fuzzell, to Caterpillar Tractor  
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- Jefferson Electric Co.: See—  
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- Jepson, Ivar, and R. O. Ernest, to Sunbeam Corp. Portable  
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- Jepson, Ivar, and R. O. Ernest, to Sunbeam Corp. Electric  
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- Jepson, Ivar, and B. Kelly, to Sunbeam Corp. Can opener.  
189,184, 11-8-60, Cl. D22-2.
- Jepson, Ivar, and R. E. Cornwell, to Sunbeam Corp. Brush  
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- Johnson, Rush M., Jr., to The B. F. Goodrich Co. Tire. 188,165, 6-7-60, Cl. D90-20.
- Johnson, Rush M., Jr., to The B. F. Goodrich Co. Tire. 188,166, 6-7-60, Cl. D90-20.
- Johnson, William F., to Corning Glass Works. Combined cable separator and hanger or similar article. 188,323, 7-5-60, Cl. D26-10.
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- Jolly, Carroll N. Combined ash tray and cigarette container or similar article. 187,447, 3-15-60, Cl. D85-2.
- Jolly, John G., to NuTone, Inc. Door chime signal housing. 187,569, 3-29-60, Cl. D72-1.
- Jones, Billy G. Portable outdoor cooker. 187,318, 2-23-60, Cl. D81-10.
- Jones, Clyde B., to Hughes Tool Co. Helicopter. 188,145, 6-7-60, Cl. D71-1.
- Jones, Robert D., and L. W. Emerson. Airplane. 188,226, 6-14-60, Cl. D71-1.
- Jordan, John W. Kite. 189,458, 12-20-60, Cl. D34-15.
- Jorgensen, David F. Paint can attachment for pouring and supporting a brush or the like. 187,421, 3-15-60, Cl. D9-2.
- Jorgensen, Irving W. Fountain brush. 187,179, 2-9-60, Cl. D9-2.
- Jorgensen, Irving W. Ice scraper. 188,096, 6-7-60, Cl. D9-6.
- Joseph, Stanley M. Portable barbecue grill. 187,095, 1-19-60, Cl. D81-10.
- Joy, Kenneth E. Inflatable exhibit hall. 187,690, 4-19-60, Cl. D13-1.
- Judson, William V., to General Electric Co. Clock or similar article. 187,288, 2-23-60, Cl. D42-7.
- Judson, William V., to General Electric Co. Clock or similar article. 187,334, 3-1-60, Cl. D42-7.
- Judson, William V., to General Electric Co. Clock or similar article. 187,936, 5-17-60, Cl. D42-7.
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- Kahney, Jack D., to United States Rubber Co. Breathable polymer coated fabric. 187,777, 4-26-60, Cl. D92-1.
- Kahney, Jack D., to United States Rubber Co. Breathable polymer coated fabric. 188,367, 7-5-60, Cl. D92-1.
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- Kates, Richard. Grid for cook-out grill. 188,779, 9-6-60, Cl. D81-25.
- Kates, Richard. Grid for cook-out grill. 188,780, 9-6-60, Cl. D81-25.
- Katz, Joseph M., to The Papercraft Corp. Ribbon dispenser package. 187,007, 1-5-60, Cl. D58-12.
- Kaufman, Samuel J. Combined cigarette lighter and clock. 187,103, 1-26-60, Cl. D42-7.
- Kaufman, Samuel J. Ball-rolling device. 187,601, 4-5-60, Cl. D34-15.
- Kaufman, William. Template for measuring the angles of human joints. 188,997, 10-11-60, Cl. D52-6.
- Kaupp, John, to Block Tool, Inc. Cartridge case trimmer or the like. 189,065, 10-18-60, Cl. D54-14.
- Kawa, Junnosuke, Y. Akioka, and I. Kaneko, to Seiko Denki Kogyo Kabushiki Kaisha. Projector. 187,203, 2-9-60, Cl. D61-1.
- Kawa, Junnosuke, Y. Akioka, and I. Kaneko, to Seiko Denki Kogyo Kabushiki Kaisha. Exposure meter or the like. 189,270, 11-15-60, Cl. D61-1.
- Kawecki, Eugene, to Sturdevant Mfg. Corp. Closure cap for gas tanks or the like. 188,632, 8-16-60, Cl. D58-26.
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- Keal, John J., to Modeline Co. of California, Inc. Lamp. 187,432, 3-15-60, Cl. D48-20.
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- Kegel, Francis C., and J. L. Homesberger. Sectional counter for tellers or the like. 188,447, 7-19-60, Cl. D80-2.
- Kellett, William B. Awning. 187,587, 4-5-60, Cl. D21-6.
- Kelley, Howard C., to W. L. Stensgaard and Associates, Inc. Tie bar. 188,329, 7-5-60, Cl. D33-8.
- Kelley, Thomas F. Inflatable baby bed. 187,638, 4-12-60, Cl. D5-5.
- Kellogg, Charles T., to Clemson Bros., Inc. Combination storing and dispensing display holder for coiled metal tape or the like. 187,052, 1-12-60, Cl. D58-13.
- Kellogg, Thomas W., of small percentages to various assignees. Spray valve. 187,904, 5-10-60, Cl. D91-3.
- Kellogg, Thomas W., to Comptometer Corp. Microphone. 187,987, 5-24-60, Cl. D26-14.
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- Kelma, Everett F., to Corning Glass Works. Cable separator and hanger. 189,090, 10-25-60, Cl. D26-10.
- Kelnhofner, John J. Vacuum cleaner. 189,124, 11-1-60, Cl. D9-2.
- Kemper, Frank H. Saving bank. 187,139, 2-2-60, Cl. D34-5.
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- Kennelly, Jeremiah D., and H. E. Williams, to Mars Signal-Light Co. Combined flood and search light or similar article. 189,429, 12-13-60, Cl. D43-20.
- Kent, Edward C., to A. G. Tourell & Co. Ltd. Stapling machine. 187,627, 4-5-60, Cl. D74-1.
- Keogh, John. Building block. 188,846, 9-20-60, Cl. D18-2.
- Keogh, John. Building block. 189,029, 10-18-60, Cl. D18-2.
- Kermes, Constantine J., and R. J. Stimson, to Sperry Rand Corp. Baler. 187,607, 4-5-60, Cl. D40-1.
- Kermes, Constantine J., E. B. Nolt, J. W. McDuffie, and O. W. Luck, to Sperry Rand Corp. Hay baler. 188,800, 9-13-60, Cl. D40-1.
- Ketcham, Richard L., to Ampex Corp. Container for magnetic tape reel. 187,720, 4-19-60, Cl. D58-12.
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- Keyes, Horace L., to H & S Metal Products Co. Car wheel unit. 189,085, 10-25-60, Cl. D14-30.
- Kidwell, Gaylor B. Container for pills or the like. 188,815, 9-13-60, Cl. D58-6.
- Kiefer, Le Roy E., to General Motors Corp. Refrigerator cabinet. 188,515, 8-2-60, Cl. D67-3.
- Kiegel, Joseph, and R. B. Kyle, to American Chicco Co. Rack for displaying and merchandising confectioneries or the like. 188,742, 8-30-60, Cl. D80-10.
- Kilbury, Paul D. Dual burner circulating heater. 187,358, 3-1-60, Cl. D81-1.
- Kilgore, Inc.: *See—*  
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- Kimberley, Walter R., to Samuel Stamping & Enameling Co. Front panel unit for a wall oven or the like. 187,168, 2-2-60, Cl. D81-25.
- Kimberly, Mildred E. Doll. 187,703, 4-19-60, Cl. D34-4.
- Kimura, Tak. Aqua sled. 189,073, 10-18-60, Cl. D71-1.
- Kindelberger, James H. Combined food broiler and serving tray. 187,237, 2-16-60, Cl. D44-10.
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- Kinsey, Lewis R. Master valve for stoves or the like. 188,878, 9-20-60, Cl. D78-1.
- Kinyon, Jessie P. Washboard or the like. 189,496, 12-27-60, Cl. D49-1.
- Kipp, Werner C., to Tarco Mfg. Co. Desk tray. 187,897, 5-10-60, Cl. D74-1.
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- Kirkpatrick, Marie A., to Lullaby Furniture Corp. Crib. 188,751, 9-6-60, Cl. D5-5.
- Kisky, Christian. Tooth brush. 189,414, 12-13-60, Cl. D9-2.
- Kittle, Frank A., E. C. Combs, and J. R. Hankins. Sled. 187,806, 5-3-60, Cl. D34-15.
- Kitts, Keith D., to General Time Corp. Clock. 187,037, 1-12-60, Cl. D42-7.
- Kivett, Jerome S., to Regal Plastic Co. Carrying case for bowling equipment and the like. 189,177, 11-1-60, Cl. D87-5.
- Kjellgren, Sigfred P. Pull. 189,084, 10-25-60, Cl. D10-8.
- Kjellgren, Sigfred P. Pull. 189,236, 11-15-60, Cl. D10-8.
- Klauber, Roger. Lace fabric or similar article. 187,945, 5-17-60, Cl. D47-6.
- Klein, Edward, to Quaker Stretcher Co. Combined tray table rack and serving table. 189,454, 12-20-60, Cl. 33-14.
- Klemm, Herman G., to Massey-Ferguson Ltd. Self-propelled combine. 188,206, 6-14-60, Cl. 40-1.
- Klinger, Guy G., and W. G. Sockel, to The Electric Storage Battery Co. Respirator mask and headgear combination or the like. 189,112, 10-25-60, Cl. D83-1.
- Kloppenburger, George J.: *See*—
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- Klosin, John J., to The Thomas & Betts Co. Parallel compression tap. 187,531, 3-29-60, Cl. D26-1.
- Klotz, Edward C., Jr., to McGraw-Edison Co. Portable evaporative cooler. 188,357, 7-5-60, Cl. D62-4.
- Kluge, Robert D., to Minneapolis-Honeywell Regulator Co. Photographic copying attachment for a camera or similar article. 187,892, 5-10-60, Cl. D61-1.
- Knapp-Monarch Co.: *See*—
- Knapp, Robert S. 189,440.
- Moore, Walter E. 187,323.
- Moore, Walter E. 187,836.
- Moore, Walter E. 188,513.
- Moore, Walter E. 188,662.
- Moore, Walter E. 188,925.
- Moore, Walter E. 188,975.
- Moore, Walter E. 188,976.
- Knapp, Robert S., to Knapp-Monarch Co. Electric toaster. 189,440, 12-13-60, Cl. D81-1.
- Knaust, Henry E. Hat or similar article. 187,178, 2-9-60, Cl. D3-13.
- Knoblauch, Grant E.: *See*—
- Macy, Donald, Weaver, and Knoblauch. 188,374.
- Macy, Donald, Weaver, and Knoblauch. 188,375.
- Knoll Associates, Inc.: *See*—
- Pettit, Donald C. 189,293.
- Pettit, Donald C. 189,294.
- Knoll, Florence S., to FSB Corp. Table or similar article. 188,900, 9-27-60, Cl. D33-14.
- Knowles, Frederick G., to Eastman Kodak Co. Motion picture camera. 187,116, 1-26-60, Cl. D61-1.
- Knox, Charles E., Jr. Combined portable filling station billboard and storage tank. 189,127, 11-1-60, Cl. D13-1.
- Knox Mfg. Co.: *See*—
- Petrick, Edward J. 188,825.
- Knudsen, Jan L., to Heywood-Wakefield Co. Chest of drawers. 189,040, 10-18-60, Cl. D33-6.
- Knudsen, Jan L., to Heywood-Wakefield Co. Triple dresser. 189,041, 10-18-60, Cl. D33-6.
- Kocens, Georges. Container insert for a cosmetic package. 188,352, 7-5-60, Cl. D58-2.
- Koci, Jerry C., to Chicago Dynamic Industries, Inc. Amusement game cabinet. 188,119, 6-7-60, Cl. D34-5.
- Koehler, Fred E.: *See*—
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- Koenig, Melvin. Box or similar article. 188,135, 6-7-60, Cl. D58-11.
- Koenigsberg, Max, to The Englander Co., Inc. Mattress. 188,483, 8-2-60, Cl. D5-2.
- Koenigsberg, Max, to The Englander Co., Inc. Mattress. 188,484, 8-2-60, Cl. D5-2.
- Koenigsberg, Victor, to Colgate-Palmolive Co. Bottle or the like. 189,437, 12-13-60, Cl. D58-8.
- Koeppel, Charles H. Abrading tool or similar article. 188,612, 8-16-60, Cl. D37-1.
- Koffler, Sol. Luggage handle. 188,582, 8-9-60, Cl. D87-2.
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- Marsh, Lucille R., Kofoed, and Darnutzer. 187,414.
- Marsh, Lucille R., Kofoed, and Darnutzer. 187,454.
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- Kohler, Herbert V. 187,844.
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- Kohler, Herbert V. 187,849.
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- Kohler, Herbert V. 188,644.
- Kohler, Herbert V. 188,645.
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- Kohler, Herbert V., to Kohler Co. Faucet fixture for a lavatory or similar article. 187,844, 5-3-60, Cl. D91-3.
- Kohler, Herbert V., to Kohler Co. Spout or similar article. 187,845, 5-3-60, Cl. D91-3.
- Kohler, Herbert V., to Kohler Co. Faucet handle or similar article. 187,847, 5-3-60, Cl. D91-3.
- Kohler, Herbert V., to Kohler Co. Shower head or similar article. 187,849, 5-3-60, Cl. D91-3.
- Kohler, Herbert V., to Kohler Co. Bath tub. 188,236, 6-21-60, Cl. D4-4.
- Kohler, Herbert V., to Kohler Co. Lift knob for plumbing fixture or similar article. 188,409, 7-12-60, Cl. D91-3.
- Kohler, Herbert V., to Kohler Co. Shower head or similar article. 188,644, 8-16-60, Cl. D91-3.
- Kohler, Herbert V., to Kohler Co. Shower head or similar article. 188,645, 8-16-60, Cl. D91-3.
- Kohler, Herbert V., to Kohler Co. Shower head or similar article. 189,117, 10-25-60, Cl. D91-3.
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- Kolkey, Leonard B. Storage rack or similar article. 189,356, 11-29-60, Cl. D33-3.
- Koller, Paul. Slide for a curtain rod. 188,492, 8-2-60, Cl. D21-1.
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- Kollmann, Karl J. Sewer cleaning machine. 187,687, 4-19-60, Cl. D9-2.
- Konle, Robert L., to Food Machinery and Chemical Corp. Starter lever for power lawn mowers. 187,332, 3-1-60, Cl. D40-1.
- Konle, Robert L., to Food Machinery and Chemical Corp. Starter lever for power lawn mowers. 187,333, 3-1-60, Cl. D40-1.
- Konopka, Alfred Z.: *See*—
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- Kopka, Donald F., to Chrysler Corp. Combined bumper, grille and lamp unit for an automobile. 187,212, 2-16-60, Cl. D14-18.
- Kopka, Donald F., to Chrysler Corp. Automobile wheel cover. 187,735, 4-26-60, Cl. D14-30.
- Kopp, Joseph. Glass chromatographic spray unit. 187,266, 2-23-60, Cl. D16-1.
- Korte, Alfred C., R. G. Hennemann, and E. L. Rapplean, to ACF Industries, Inc. Carburetor for an internal combustion engine. 189,074, 10-18-60, Cl. D77-1.
- Kortick, Leonard R. Combined container opener and knife sharpener. 188,619, 8-16-60, Cl. D44-29.
- Kouralis, Nicholas. Condiment dispenser. 189,490, 12-27-60, Cl. D44-22.
- Kraft, Jack, to Centre Brass Works, Inc. Fireplace implement support. 188,115, 6-7-60, Cl. D33-17.
- Kraines, Maurice H.: *See*—
- Duke, Alexander J. 187,268.
- Kramer, Marvin, and H. A. Dorn, to General Classics, Inc. Trophy base. 188,665, 8-23-60, Cl. D29-23.
- Krastel, Oscar J., to Capital Die Tool & Machine Co. Christmas tree holder or similar article. 188,862, 9-20-60, Cl. D35-3.
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- Kraus, Russell W. M. Night-light. 189,365, 11-29-60, Cl. D48-20.
- Kraus, Walter F., to International Business Machines Corp. Computer. 187,646, 4-12-60, Cl. D26-5.
- Kraus, Walter F., and J. J. La Due, to International Business Machines Corp. Computer console. 188,378, 7-12-60, Cl. D26-5.
- Kreienbrink, Eddie A. Aircraft simulating toy. 187,802, 5-3-60, Cl. D34-15.
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- Kremer, Lucien. Thermometer-hygrometer. 187,110, 1-26-60, Cl. D52-7.
- Kruskopf, Raymond B., to Gluek Brewing Co. Combined desk set and calendar. 187,766, 4-26-60, Cl. D74-1.
- Kuciewicz, Joseph, 1/2 to C. E. Willis. Fishing lure. 189,197, 11-8-60, Cl. D31-4.
- Kueper, Ernest R. Pile fabric floor covering. 188,588, 8-9-60, Cl. D92-4.
- Kueter, George B. Erasure shield. 188,560, 8-9-60, Cl. D52-6.
- Kuffler, Walter P. Lace. 188,733, 8-30-60, Cl. D47-6.
- Kuhl, Henry A. and P. R. Egg tray. 187,499, 3-22-60, Cl. D58-13.



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Kump, Ernest J. Building. 188,455, 7-26-60, Cl. D13-1.  
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Kuwabara, Tadashi. Motion picture film viewer. 188,141, 6-7-60, Cl. D61-1.  
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Vixler, Leslie F. 188,624.  
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Laganella, Anthony B., and C. E. McMenamin. Hand puppet. 188,945, 10-4-60, Cl. D34-4.  
Laganella, Anthony B., and C. E. McMenamin. Toy jack-in-the box. 188,951, 10-4-60, Cl. D34-15.  
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Laganella, Anthony B., and C. E. McMenamin. Balloon. 188,953, 10-4-60, Cl. D34-15.  
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La Gassey, Homer C., Jr., to Chrysler Corp. Fender for an automobile. 188,595, 8-16-60, Cl. D14-6.  
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Lambert, Harry E., to Packaging Corp. of America. Egg carton. 188,820, 9-13-60, Cl. D58-13.  
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Lambert, Harold A., to Universal Optical Co., Inc. Spectacle frame. 189,505, 12-27-60, Cl. D57-1.  
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Siegmann, John C. 188,408.  
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Laughlin, Clayton A., to Arthur Salm, Inc. Ash tray or similar article. 187,448, 3-15-60, Cl. D85-2.  
Laughlin, Clayton A., to Arthur Salm, Inc. Lazy susan or similar article. 188,908, 9-27-60, Cl. D44-10.  
Laughlin, Clayton A., to Wood Conversion Co. Tile or similar article. 189,030, 10-18-60, Cl. D18-2.  
Laughlin, Clayton A., to Arthur Salm, Inc. Pocket tool kit. 189,185, 11-8-60, Cl. D22-3.  
Laughlin, Clayton A., to Arthur Salm, Inc. Knife or the like. 189,243, 11-15-60, Cl. D22-3.  
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Lauterbach, Norman E., to Ritter Co., Inc. Operating light unit. 187,950, 5-17-60, Cl. D48-20.  
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Leavy, Natalie, to Decorative Fabrics Co., Inc. Flocked textile fabric. 188,586, 8-9-60, Cl. D92-1.  
Leavy, Natalie, to Decorative Fabrics Co., Inc. Flocked textile fabric. 188,587, 8-9-60, Cl. D92-1.  
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- Leubner, Courtney A., to Emil J. Paidar Co. Barber chair or similar article. 188,048, 5-31-60, Cl. D15-3.
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- Levy, Benjamin, to United Metal Goods Mfg. Co., Inc. Clock. 189,250, 11-15-60, Cl. D42-7.
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- Levy, Sidney E., E. Matsuoka, and B. C. Sharp, to University Loudspeakers, Inc. Loudspeaker. 188,542, 8-9-60, Cl. D26-14.
- Lewis, Allen N. Milk carton holder. 188,705, 8-23-60, Cl. D58-26.
- Lewis, Donald F., 1/2 to Peter Pepper Products, Inc. Multiple letter tray. 187,444, 3-15-60, Cl. D74-9.
- Lewis, Donald F., 1/2 to Peter Pepper Products, Inc. Letter tray. 187,830, 5-3-60, Cl. D74-9.
- Lewis, Jerome. Tumbler. 189,398, 12-6-60, Cl. D86-8.
- Lewis, Martin J., to Franklin Machine Products Co., Inc. Dispensing faucet for a coffee urn or the like. 187,416, 3-15-60, Cl. D2-3.
- Lewis, Paul M. Descent retarder. 188,425, 7-19-60, Cl. D34-15.
- Libauer, Robert S., to Stenoso Lettering Co. Stencil lettering card. 187,109, 1-26-60, Cl. D52-1.
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- Lohr, Raymond J., to Louis Marx & Co., Inc. Toy musical instrument. 187,541, 3-29-60, Cl. D34-15.
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- Mackay, John H., and D. K. Schleicher, 25% to said Mackay, 25% to said Schleicher, 25% to N. C. May, and 25% to J. A. Sutton. Mitt. 188,035, 5-31-60, Cl. D3-11.
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- Macy, Donald, J. F. Weaver, and G. E. Knoblauch, to Artcraft Venetian Blind Mfg. Co. of St. Louis. Door hood. 188,375, 7-12-60, Cl. D21-6.
- Maddox, John A. Table. 186,983, 1-5-60, Cl. D33-14.
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- Maffei, Leo J., to The American Hardware Corp. Handle unit. 189,126, 11-1-60, Cl. D10-8.
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- McCarthy, Deborah L. Manicurist's hand rest. 189,175, 11-1-60, Cl. D86-10.
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- McIlvain, William S. Stilt toy. 187,459, 3-22-60, Cl. D7-7.
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- McNair, Samuel L., and L. E. Fenn. Electrical facial vibrator or similar article. 187,723, 4-19-60, Cl. D83-1.
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- Meierjohan, Ernest. Porch trellis or similar article. 187,392, 3-8-60, Cl. D54-2.
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- Neal, Harry E. Book or the like. 187,778, 5-3-60, Cl. D6-2.
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- Nelson, Permil N. Game board or analogous article. 188,676, 8-23-60, Cl. D34-5.
- Nelson, Russell B., and R. K. Unter, to L. R. Nelson Mfg. Co., Inc. Sprinkler. 188,884, 9-20-60, Cl. D91-1.
- Neubauer, Robert G., to General Foods Corp. Bottle. 188,134, 6-7-60, Cl. D58-8.
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- Neumann, William A., to Summitville Tiles, Inc. Tile. 187,644, 4-12-60, Cl. D18-2.
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- Nickles, Ned F., to General Motors Corp. Automobile. 189,418, 12-13-60, Cl. D14-6.
- Niclaus, William L. Cup. 188,473, 7-26-60, Cl. D58-17.
- Niclaus, William L. Cup. 188,614, 8-16-60, Cl. D44-9.
- Nicolle, Charles. Combination holder and package for suppositories or the like. 189,404, 12-6-60, Cl. D58-2.
- Niederman, Stanley J., to Howard Parlor Furniture Co. Sectional sofa. 188,318, 7-5-60, Cl. D15-11.
- Nikitas, Nick C. Tea bag squeezer. 188,433, 7-19-60, Cl. D44-29.
- Nimmo, Raymond L., and W. A. Culwell. Body for a golfer's vehicle or the like. 188,533, 8-9-60, Cl. D14-3.
- Nixon, Robert C., to Chrysler Corp. Automobile wheel cover. 187,215, 2-16-60, Cl. D14-30.
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- Otto, Carl L., to Heywood-Wakefield Co. Chair. 188,488, 8-2-60, Cl. D15-1.
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- Overton, Edgar R. Playground device. 187,381, 3-8-60, Cl. D34-5.
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- Pacelli, William G., to Foster Grant Co., Inc. Pair of novelty spectacles or the like. 188,008, 5-24-60, Cl. D57-1.
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- Page, Staton C. Keg table. 188,797, 9-13-60, Cl. D33-14.
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- Poisson, Robert A., to Riegel Textile Corp. Plastic figured textile fabric. 189,178, 11-1-60, Cl. D87-3.
- Pokorny, Louis, and A. F. Leis. Fishing rod support. 188,943, 10-4-60, Cl. D31-4.
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- Polk, Emil S. Salad tongs. 187,937, 5-17-60, Cl. D44-4.
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- Pomerantz, Julie. Spoon or similar article of flatware. 187,242, 2-16-60, Cl. D54-12.
- Pomerantz, Julie. Spoon or similar article of flatware. 188,220, 6-14-60, Cl. D54-12.
- Pomper, Victor. Amplifier cabinet or similar article. 188,461, 7-26-60, Cl. D26-14.
- Pooch, Frank C., Jr. Portable carrier for gas tanks or the like. 189,506, 12-27-60, Cl. D58-5.
- Poracki, Emery J., to O'Keefe & Merritt Co. Counter top cooking unit. 187,771, 4-26-60, Cl. D81-25.
- Poracki, Emery J., to O'Keefe & Merritt Co. Counter top cooking unit. 188,361, 7-5-60, Cl. D81-25.
- Poracki, Emery J., to O'Keefe & Merritt Co. Control panel for cooking range or the like. 188,362, 7-5-60, Cl. D81-25.
- Poracki, Emery J., and W. C. Bruckman, to O'Keefe & Merritt Co. Recessed control panel for a cooking range or the like. 187,902, 5-10-60, Cl. D81-25.
- Porter, Donald C. Saber saw unit. 187,063, 1-12-60, Cl. D93-3.
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- Rosen, Sol A., to Solar Textile Co. Grille cloth. 188,885, 9-20-60, Cl. D92-1.
- Rosenberger, Maurice D. Combined hat and coat rack. 188,668, 8-23-60, Cl. D33-8.
- Rosenbusch, Otto T., to Chrysler Corp. Housing for an automobile tail lamp. 187,751, 4-26-60, Cl. D48-32.
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- Rothman, Emanuel A., to McPhilben Mfg. Co., Inc. Lighting fixture. 189,256, 11-15-60, Cl. D48-4.
- Rowell, William G., to Scully Signal Co. Conduit closure cap. 188,087, 5-31-60, Cl. D91-1.
- Rowland, Donald G., and W. Conway, to The B. F. Goodrich Co. Carpet underlay. 188,888, 9-20-60, Cl. D92-4.
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- Ruskin, Henry, to Swingline, Inc. Stapling machine or similar article. 187,509, 3-22-60, Cl. D74-1.
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- Russell, Eugene R., to McGraw-Edison Co. Control for electrical appliances or similar article. 187,222, 2-16-60, Cl. D26-13.
- Russell, Eugene R., to McGraw-Edison Co. Handle for cooking utensil. 188,910, 9-27-60, Cl. D44-29.
- Russell, Linus E., to Peters & Russell, Inc. Pump base. 187,673, 4-12-60, Cl. D65-1.
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- Russell, Valdemar P. Wall grille block. 187,528, 3-29-60, Cl. D18-2.
- Russell, William J., to Electric Steam Radiator Corp. Electric steam vaporizer. 187,171, 2-2-60, Cl. D83-1.
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- Rutkus, John, Jr., W. H. Armstrong, and J. G. Balmer, Jr., to Haloid Xerox, Inc. Document reproducing apparatus. 188,633, 8-16-60, Cl. D61-1.
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- Salveson, Arthur R., to Norbute Corp. Laboratory table unit. 188,418, 7-19-60, Cl. D16-2.
- Salvia, John A., to Wilmot Castle Co. Medical lamp head. 187,195, 2-9-60, Cl. D48-20.
- Salvia, John A., to Wilmot Castle Co. Medical lamp and supporting arm unit. 187,615, 4-5-60, Cl. D48-20.
- Salvia, John A., to Wilmot Castle Co. Supporting standard for a lamp or the like. 187,949, 5-17-60, Cl. D48-20.
- Salvia, John A., to Wilmot Castle Co. Dental light or similar article. 188,867, 9-20-60, Cl. D48-20.
- Salvia, John A., to Wilmot Castle Co. Dental light. 189,428, 12-13-60, Cl. D48-20.
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- Samuel, Chester J. Spinning baseball device. 187,801, 5-3-60, Cl. D34-15.
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- Schaefer, George E., to Brunswick Corp. Foul detector housing or the like. 188,546, 8-9-60, Cl. D34-5.
- Schaefer, George E., to Brunswick Corp. Foul detector housing or the like. 188,547, 8-9-60, Cl. D34-5.
- Schaefer, George E., R. I. Anderson, and R. G. Reineman, to The Brunswick-Balke-Collender Co. Chair or the like. 188,276, 6-28-60, Cl. D15-1.
- Schaefer, Robert A., to Hydrocon, Inc. Water conditioner. 187,843, 5-3-60, Cl. D91-1.
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- Schladermundt, Peter, C. L. Metzler, and W. H. Dennerlein, to The Gillette Co. Razor blade dispenser. 187,346, 3-1-60, Cl. D58-12.
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- Schlumbohm, Peter. Electric fan. 188,791, 9-13-60, Cl. D26-7.
- Schlumbohm, Peter. Combination cocktail shaker, humidifier and canister or the like. 189,393, 12-6-60, Cl. D2-3.
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- Schmitz, Russell O., and V. M. Vesely. Spoon or similar article. 188,002, 5-24-60, Cl. D54-12.
- Schnapp, William A. Combined chair and utility cart. 187,069, 1-19-60, Cl. D14-3.
- Schnur, Martin, and M. Appel. Box or similar article. 188,439, 7-19-60, Cl. D58-12.
- Schreckengost, Viktor, to The Murray Ohio Mfg. Co. Juvenile vehicle. 187,992, 5-24-60, Cl. D34-15.
- Schreckengost, Viktor, to The Murray Ohio Mfg. Co. Juvenile vehicle. 187,993, 5-24-60, Cl. D34-15.
- Schreckengost, Viktor, to The Murray Ohio Mfg. Co. Juvenile vehicle. 187,994, 5-24-60, Cl. D34-15.
- Schreckengost, Viktor, to Holophane, Inc. Luminaire. 189,057, 10-18-60, Cl. D48-31.
- Schreckengost, Viktor, to Harris-Intertype Corp. Sheet delivery apparatus. 189,385, 11-29-60, Cl. D64-11.
- Schrift-Gross, Evalin, and A. Milton. Check desk. 187,188, 2-9-60, Cl. D33-7.
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- Schwartz, Milton. Outdoor advertising sign. 188,930, 10-4-60, Cl. D1-12.
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- Seery, Robert F., and J. A. Ward, to Julius Blum & Co., Inc. Grillework for treillages. 189,369, 11-29-60, Cl. D54-2.
- Seibert, Leslie W., Jr., to Ekco Products Co. Hang up rack for kitchen tools and the like. 187,614, 4-5-60, Cl. D44-29.
- Seid, Eugene, and R. C. Morton, to California Computer Products, Inc. Graph plotter. 188,985, 10-11-60, Cl. D26-14.
- Seiden, Herman L., to Lectromatic Devices, Inc. Tape dispensing machine. 187,628, 4-5-60, Cl. D74-1.
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- Sellers, Evaline C., to McKinley Iron Works. Post unit for room dividers, grilles or the like. 189,131, 11-1-60, Cl. D13-1.
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- Shaver, Edward F., and R. P. Glover, to The Muter Co. (Jensen Mfg. Co. Division). Loud-speaker cabinet. 187,925, 5-17-60, Cl. D26-14.
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- Varacek, Joseph. Milk carton holder. 187,115, 1-26-60, Cl. D58-26.
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- Veersema, Reinhard W. J., to North American Philips Co., Inc. Dry shaver. 187,590, 4-5-60, Cl. D22-3.
- Veersema, Reinhard W. J., to North American Philips Co., Inc. Dry shaver. 188,599, 8-16-60, Cl. D22-3.
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- Verderber, Joseph. Air jig. 188,736, 8-30-60, Cl. D54-14.
- Verderber, Joseph. Air jig. 188,919, 9-27-60, Cl. D55-1.
- Verderber, Joseph. Air jig. 189,319, 11-22-60, Cl. D54-13.
- Verdier, Michel. Cigarette dispenser. 188,510, 8-2-60, Cl. D52-3.
- Verhagen, Edward L., to Regina Corp. Floor polisher. 188,410, 7-19-60, Cl. D9-2.
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- Vetere, Nicholas A., to Awnair Corp. of America. Carport or similar article. 188,275, 6-28-60, Cl. D13-1.
- Vetter, Rudolf. Optical objective. 189,382, 11-29-60, Cl. D61-1.
- Vickers, Harry L., to Mission Tube Distributing Co., Inc. Combined storage cabinet for electronic tubes and stand for electronic tube tester. 189,467, 12-20-60, Cl. D80-9.
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- Vitanza, Thomas. Television antenna. 187,649, 4-12-60, Cl. D26-14.
- Vixler, Leslie F., to Labasco, Inc. Burette holder. 188,563, 8-9-60, Cl. D54-13.
- Vixler, Leslie F., to Labasco, Inc. Adjustable laboratory clamp. 188,624, 8-16-60, Cl. D54-13.
- Vochelli, Julian P.: *See*—  
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- Voeltz, William F., Jr., to The Alva T. Smith Co. Liquid fuel container for boats or the like. 188,738, 8-30-60, Cl. D58-17.
- Vogel, Jakob H., to Interchemical Corp. Plastic coated fabric or similar article. 188,480, 7-26-60, Cl. D87-3.
- Vogel, Jakob H., to Interchemical Corp. Plastic coated fabric or similar article. 188,745, 8-30-60, Cl. D87-4.
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- Vogt, Richard, to Curtiss-Wright Corp. Water ski scooter. 188,708, 8-23-60, Cl. D71-1.
- Vogt, Richard, to Curtiss-Wright Corp. Aircraft. 189,462, 12-20-60, Cl. D71-1.
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- Von Seekamm, Egon F., to The Electric Storage Battery Co. Pair of sunglasses. 187,004, 1-5-60, Cl. D57-1.
- Von Seutter, Carl R., and R. C. Sullivan. Boat. 188,149, 6-7-60, Cl. D71-1.
- Vort, Maurice B. Iron stand. 187,159, 2-2-60, Cl. D49-6.
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- Vuilleminot, Robert P., to The Procter & Gamble Co. Bottle. 187,820, 5-3-60, Cl. D58-8.
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- Wadely, Harold E., to The Firth Carpet Co., Inc. Pile fabric floor covering. 187,850, 5-3-60, Cl. D92-4.
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- Walsh, Frank T., and G. A. Smith, to Ampex Corp. Magnetic tape reel. 187,329, 3-1-60, Cl. D26-14.
- Walsh, Frank T., and F. A. Farey, to Ampex Corp. Magnetic tape apparatus. 188,540, 8-9-60, Cl. D26-14.
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- Waltman, Charles T., and J. W. Norris, to Lennox Industries, Inc. Air treating unit. 187,822, 5-3-60, Cl. D62-4.
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- Wesley, Newton K., and G. S. Mattie, to Plasmatic, Inc. Combined contact lens support and mirror for an ophthalmometer. 188,814, 9-13-60, Cl. D57-1.
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- Wetherby, John K. Golf ball cleaner. 187,460, 3-22-60, Cl. D9-2.
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- Whitener, Loyd A., Jr., and H. B. Carpenter, to Southern Desk Co. Utility control, supply, and service unit for laboratory tables. 189,089, 10-25-60, Cl. D16-2.
- Whitney, Robert B. Aircraft. 187,311, 2-23-60, Cl. D71-1.
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- Wider, Anton J. Embroidered fabric or similar article. 188,366, 7-5-60, Cl. D92-1.
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- Wilkinson, Judkins E., to Atlanta Stove Works, Inc. Heater cabinet. 188,228, 6-14-60, Cl. D81-19.
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- Willey, David A. Mobile laboratory table and cabinet unit. 188,845, 9-20-60, Cl. D16-2.
- Williams, Edwin T., and F. R. Prill, to North American Aviation, Inc. Airplane. 188,144, 6-7-60, Cl. D71-1.
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- Wistrand, John C., to Brown & Bigelow. Pitcher. 187,612, 4-5-60, Cl. D44-21.
- Wistrand, John C., to Brown & Bigelow. Cigarette lighter. 187,952, 5-17-60, Cl. D48-27.
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- Woods, Carey F. Illuminable game device. 188,856, 9-20-60, Cl. D34-5.
- Woods, Robert A., and C. W. Haeckler, to Westinghouse Air Brake Co. Control machine for railway control or similar article. 187,922, 5-17-60, Cl. D26-13.
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- Wormser, Robert S., to The Mexico Forge, Inc. Play climber. 187,655, 4-12-60, Cl. D34-5.
- Wormser, Robert S., to The Mexico Forge, Inc. Playground climber. 187,656, 4-12-60, Cl. D34-5.
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- Wren, John P., to The Garrard Engineering and Mfg. Co. Ltd. Magazine for magnetic recording tapes or the like. 188,725, 8-30-60, Cl. D26-14.
- Wright, Harold N. Game board. 187,599, 4-5-60, Cl. D34-5.
- Wright, Jerry E., to Corning Glass Works. Dish stand or similar article. 189,050, 10-18-60, Cl. D44-10.
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- Yacura, Stephen B. Tile unit or the like for floors, walls or other surfaces. 187,739, 4-26-60, Cl. D18-2.
- Yamanaka, Taichi. Dental-unit. 187,645, 4-12-60, Cl. D24-1.
- Yamasaki, Kim: *See*—  
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- Yamasaki, Kim, to Speed-O-Print Corp. Copy machine. 188,571, 8-9-60, Cl. D64-11.
- Yarick, Henry W., Jr. Molded composition connector. 188,102, 6-7-60, Cl. D26-1.
- Yashica Co. Ltd. (Japanese name: Kabushikikaisha Yashica): *See*—  
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- Yashima Kogaku Kogyo Kabushiki Kaisha: *See*—  
Ushiyama, Yoshimasa. 187,622.
- Yeager, Joseph T., Sr. Model for a propulsion tube aircraft. 188,550, 8-9-60, Cl. D34-15.
- Yearley, George W., and W. E. Portz, to True Temper Corp. Hand tool or the like. 187,285, 2-23-60, Cl. D35-2.
- Ylinen, Klaus J. Illuminable grip strength indicator. 188,545, 8-9-60, Cl. D34-5.
- Yoder, Donald J.: *See*—  
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- Yoder, Florence S. Closure cap for cans or the like. 187,114, 1-26-60, Cl. D58-26.
- Yoshizumi, Kenji. Bottle. 188,009, 5-24-60, Cl. D58-8.
- Yoshizumi, Kenji, to General Foods Corp. Scouring pad dispenser. 189,261, 11-15-60, Cl. D52-2.
- Young, Marshall B., to Eagle Pencil Co. Ball point pen or similar article. 188,972, 10-4-60, Cl. D74-17.
- Young, Stephen A. Handle for faucets or the like. 187,096, 1-19-60, Cl. D91-3.
- Young, Stephen A. Handle for faucets or the like. 187,412, 3-8-60, Cl. D91-3.
- Young, Stephen A. Overflow plate for a bathtub or the like. 189,180, 11-1-60, Cl. D91-3.
- Young, Stephen A. Faucet handle or the like. 189,283, 11-15-60, Cl. D91-3.
- Young, Stephen A. Faucet handle. 189,284, 11-15-60, Cl. D91-3.
- Young, Sven A., to Shore-Calnevar, Inc. Wheel cover. 187,981, 5-24-60, Cl. D14-30.
- Young, Sven A., to Shore-Calnevar, Inc. Wheel cover. 187,982, 5-24-60, Cl. D14-30.
- Young, Sven A., to Shore-Calnevar, Inc. Wheel cover. 187,983, 5-24-60, Cl. D14-30.
- Young, Sven A., to Shore-Calnevar, Inc. Wheel cover. 188,183, 6-14-60, Cl. D14-30.
- Young, Sven A., to Shore-Calnevar, Inc. Wheel cover. 189,292, 11-22-60, Cl. D14-30.
- Young, Sylvia, to The S. K. Smith Co. Location indicator. 188,538, 8-9-60, Cl. D25-1.
- Young, Willard G., to Case Mfg. Corp. Wall hung water closet. 187,365, 3-8-60, Cl. D4-5.
- Zabriske, Fodick, to The Foley-Irish Corp. Combined washing basket and dispenser for tableware or the like. 187,666, 4-12-60, Cl. D49-1.
- Zaccaro, George. Holder for a milk carton or the like. 187,889, 5-10-60, Cl. D58-26.
- Zaiser, William, to The Wurlitzer Co. Electronic organ. 187,342, 3-1-60, Cl. D56-2.
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- Zapolski, Bronislaw, to A. L. Pion. Box or the like. 189,108, 10-25-60, Cl. D58-12.
- Zapolski, Bronislaw. Portable tape recorder. 189,353, 11-29-60, Cl. D26-14.
- Zbikowski, Ted, to Joseph Buegeleisen Co. Motorcycle saddle bag and tail lights unit. 187,725, 4-19-60, Cl. D90-3.
- Zbikowski, Ted, to Joseph Buegeleisen Co. Motorcycle saddle bag and tail light unit. 188,274, 6-21-60, Cl. D90-3.
- Zebarth, Ralph S., to Gordon Johnson Co. Combination storing and display food tray. 189,379, 11-29-60, Cl. D58-12.
- Zeek, Gerald R., to Brunswick Sports Products Co. Strap for skates and the like. 189,422, 12-13-60, Cl. D34-14.
- Zeller, Henry. Ventilating fan housing. 188,962, 10-4-60, Cl. D62-4.
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- Zierhut, Clarence D., to Eversharp, Inc. Safety razor blade dispenser. 187,562, 3-29-60, Cl. D58-12.
- Zierhut, Harold E., to Paper Mate Mfg. Co. Ball point pen or the like. 188,575, 8-9-60, Cl. D74-17.
- Zierhut, Harold E., to Paper Mate Mfg. Co. Writing instrument or the like. 188,576, 8-9-60, Cl. D74-17.
- Zimmer Industries, Inc.: *See*—  
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- Zimmer, Paul H., to Zimmer Industries, Inc. Trailer. 187,785, 5-3-60, Cl. D14-3.
- Zinn, William. Joined chopsticks. 188,125, 6-7-60, Cl. D44-4.
- Zirol, Alfred E.: *See*—  
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- Zolezzi, Walter M.: *See*—  
Brandt, Milton L., and Zolezzi. 189,123.
- Zoltowska, Maria A., to M. Silverman. Pocket mirror or similar article. 188,303, 6-28-60, Cl. D86-10.
- Zuckerman, Jack. Clothes hanger. 188,578, 8-9-60, Cl. D80-8.
- Zuckerman, Samuel G. Height indicating slide. 187,493, 3-22-60, Cl. D52-1.
- Zurawinski, Mitchell, to Bell Aircraft Corp. Airplane. 187,675, 4-12-60, Cl. D71-1.
- Zwickel, Abraham I., to Nu-Lite Products, Inc. Chair. 187,984, 5-24-60, Cl. D15-1.



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- Anderson, Frederic W., to Stark Bro's Nurseries and Orchards Co. Nectarine tree. 1,921, 3-15-60, Cl. 47-62.
- Anderson, Frederic W., to Stark Bro's Nurseries and Orchards Co. Nectarine tree. 1,929, 4-5-60, Cl. 47-62.
- Anderson, Frederic W., to Stark Bro's Nurseries and Orchards Co. Peach tree. 1,946, 5-24-60, Cl. 47-62.
- Anderson, Frederic W., to Stark Bro's Nurseries and Orchards Co. Nectarine tree. 1,947, 5-24-60, Cl. 47-62.
- Anderson, Frederic W., to Stark Bro's Nurseries and Orchards Co. Nectarine tree. 1,949, 6-7-60, Cl. 47-62.
- Armstrong Nurseries, Inc.: See—
- Swim, Herbert C. 1,894.
- Swim, Herbert C. 1,896.
- Swim, Herbert C. 1,897.
- Swim, Herbert C. 1,903.
- Swim, Herbert C. 1,904.
- Swim, Herbert C. 1,976.
- Swim, Herbert C. 1,988.
- Arnold-Fisher Co.: See—
- Fisher, Esther G. 1,937.
- Ball, George J. Inc.: See—
- Dunham, Orville O. 1,978.
- Dunham, Orville O. 1,979.
- Dunham, Orville O. 1,980.
- Dunham, Orville O. 2,001-7.
- Berkshires Grass Co., Inc. The: See—
- Tukacs, George. 1,924.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,898, 1-19-60, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,900, 1-19-60, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,905, 2-16-60, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,909, 2-16-60, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,910, 2-16-60, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,922, 3-22-60, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,923, 3-22-60, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,931, 4-12-60, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,932, 4-12-60, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,958, 7-12-60, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,981, 11-1-60, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,995, 12-6-60, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,996, 12-6-60, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,997, 12-6-60, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,998, 12-13-60, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,999, 12-13-60, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 2,000, 12-13-60, Cl. 47-61.
- Bountiful Ridge Nurseries: See—
- Stetler, James R. 1,955.
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- Cumming, Roderick W. 1,956.
- Brooks, Lenard L. Azalea plant. 1,983, 11-8-60, Cl. 47-60.
- Brunes, Charles C. Strawberry plant. 1,989, 11-22-60, Cl. 47-62.
- Burr, C. R., and Co., Inc.: See—
- Swim, Herbert C. 1,893.
- Collins, Julius L.: See—
- Kerns, Kenneth R., and Collins. 1,993.
- Columbia & Okanagan Nursery Co., Inc.: See—
- Hutchinson, Leonard R. 1,916.
- Conard-Pyle Co., The: See—
- Fisher, Esther G. 1,945.
- Meilland, Francis. 1,943.
- Meilland, Francis. 1,944.
- Meilland, Marie L. 1,939.
- Poulsen, Svend. 1,919.
- Corliss Bros. Inc.: See—
- Corliss, Clifford D. 1,960.
- Corliss, Clifford D., to Corliss Bros. Inc. Euonymus plant. 1,960, 7-19-60, Cl. 47-59.
- Crawford, Harold S., to The Willis Nursery Co. Barberry plant. 1,968, 8-23-60, Cl. 47-59.
- Cumming, Roderick W., to Bristol Nurseries, Inc. Chrysanthemum plant. 1,956, 6-28-60, Cl. 47-60.
- Dalton, Will M., deceased, by W. E. Dalton, administrator C.T.A., to W. E. Dalton. Apple tree. 1,994, 12-6-60, Cl. 47-62.
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- Dalton, Will M. 1,994.
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- Von Abrams, Gordon J. 1,991.
- Dunham, Orville O., to George J. Ball, Inc. Chrysanthemum plant. 1,978, 11-1-60, Cl. 47-60.
- Dunham, Orville O., to George J. Ball, Inc. Chrysanthemum plant. 1,979, 11-1-60, Cl. 47-60.
- Dunham, Orville O., to George J. Ball, Inc. Chrysanthemum plant. 1,980, 11-1-60, Cl. 47-60.
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- Dunham, Orville O., to George J. Ball, Inc. Chrysanthemum plant. 2,006, 12-13-60, Cl. 47-60.
- Dunham, Orville O., to George J. Ball, Inc. Chrysanthemum plant. 2,007, 12-13-60, Cl. 47-60.
- Elmer, Constance A.: See—
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- Elmer Roses: See—
- Weeks, O. L. 1,990.
- Fischer, Carl E., to Selected Glads, Inc. Gladiolus plant. 1,934, 4-12-60, Cl. 47-60.
- Fisher, Esther G., to Arnold-Fisher Co. Rose plant. 1,937, 4-26-60, Cl. 47-61.
- Fisher, Esther G., to The Conard-Pyle Co. Rose plants. 1,945, 5-17-60, Cl. 47-61.
- Fryer, Arthur, to E. P. Dering, d.b.a. Peterson & Dering. Rose plant. 1,917, 2-23-60, Cl. 47-61.
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- Gebhard, Harold L., deceased, and E. W. Gebhard, deceased, by L. M. Gebhard and M. A. Grigsby, executrices. Pear tree. 1,992, 12-6-60, Cl. 47-62.
- Gebhard, Lucille M.: See—
- Gebhard, Harold L. and E. W. 1,992.
- Gordon, Winifred L. Rose plant. 1,948, 5-31-60, Cl. 47-61.
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- Gebhard, Harold L. and E. W. 1,992.
- Hagler, Clinton L. Nectarine tree. 1,935, 4-19-60, Cl. 47-62.
- Hart, Fred C. Azalea plant. 1,977, 10-18-60, Cl. 47-60.
- Hemet Wholesale: See—
- Lindquist, Robert V. 1,971.
- Herholdt, Jan A. Rose plant. 1,970, 9-6-60, Cl. 47-61.
- Hoogervorst, Wilhelmus, to C. J. Van Bourgondien, Inc. Freesia plants. 1,938, 5-3-60, Cl. 47-60.
- Hutchinson, Leonard R., to Columbia & Okanagan Nursery Co., Inc. Apple tree. 1,916, 2-23-60, Cl. 47-62.
- Ishizu, Keiso. Chrysanthemum plant. 2,008, 12-27-60, Cl. 47-60.
- Jackson & Perkins Co.: See—
- Boerner, Eugene S. 1,898.
- Boerner, Eugene S. 1,900.
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 Tantau, Mathias. 1969.  
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- Kelley, James J. Flowering quince plant. 1940, 5-10-60, Cl. 47-60.
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- Kemp, Edgar H.: *See*—  
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- Kemp, Homer S.: *See*—  
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- Kerns, Kenneth R., and J. L. Collins, to Pineapple Research Institute of Hawaii. Pineapple plant. 1993, 12-6-60, Cl. 47-62.
- Kordes, Reimer, to Jackson & Perkins Co. Rose plant. 1986, 11-15-60, Cl. 47-61.
- Lee, Walter, to Monrovia Nursery Co. Pyracantha plant. 1959, 7-12-60, Cl. 47-59.
- Lindquist, Robert V., to Hemet Wholesale. Rose plant. 1971, 9-20-60, Cl. 47-61.
- Matek, Jacob E. Azalea plant. 1918, 2-23-60, Cl. 47-60.
- McDonald, William C. Rose plant. 1965, 8-9-60, Cl. 47-61.
- Meiland, Francis, deceased, by M. L. Meiland (nee Paolino), legal representative. Rose plant. 1911, 2-23-60, Cl. 47-61.
- Meiland, Francis, deceased, by M. L. Meiland (nee Paolino), legal representative. Rose plant. 1912, 2-23-60, Cl. 47-61.
- Meiland, Francis, deceased, by M. L. Meiland (nee Paolino), legal representative. Rose plant. 1913, 2-23-60, Cl. 47-61.
- Meiland, Francis, deceased, by M. L. Meiland (nee Paolino), legal representative, to The Conard-Pyle Co. Rose plant. 1943, 5-17-60, Cl. 47-61.
- Meiland, Francis, deceased, by M. L. Meiland (nee Paolino), legal representative, to The Conard-Pyle Co. Rose plant. 1944, 5-17-60, Cl. 47-61.
- Meiland, Marie L.: *See*—  
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- Meiland, Marie L., to The Conard-Pyle Co. Rose plant. 1939, 5-10-60, Cl. 47-61.
- Merrill, Grant. Peach tree. 1954, 6-21-60, Cl. 47-62.
- Merrill, Grant. Peach tree. 1966, 8-9-60, Cl. 47-62.
- Monrovia Nursery Co.: *See*—  
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- Moore, Ralph S. Miniature rose plant. 1950, 6-14-60, Cl. 47-61.
- Moore, Ralph S. Miniature rose plant. 1951, 6-14-60, Cl. 47-61.
- Moore, Ralph S. Miniature rose plant. 1952, 6-14-60, Cl. 47-61.
- Morey, Dennison H., Jr., to Jackson & Perkins Co. Rose plant. 1899, 1-19-60, Cl. 47-61.
- Morey, Dennison H., Jr., to Jackson & Perkins Co. Rose plant. 1906, 2-16-60, Cl. 47-61.
- Morey, Dennison H., Jr., to Jackson & Perkins Co. Rose plant. 1-907, 2-16-60, Cl. 47-61.
- Morey, Dennison H., Jr., to Jackson & Perkins Co. Rose plant. 1-908, 2-16-60, Cl. 47-61.
- Morey, Dennison H., Jr., to Jackson & Perkins Co. Rose plant. 1962, 7-26-60, Cl. 47-61.
- Morey, Dennison H., Jr., to Jackson & Perkins Co. Rose plant. 1964, 8-9-60, Cl. 47-61.
- Morey, Dennison H., Jr., to Jackson & Perkins Co. Rose plant. 1982, 11-1-60, Cl. 47-61.
- Morey, Dennison H., Jr., to Jackson & Perkins Co. Rose plant. 1984, 11-15-60, Cl. 47-61.
- Murray, Merritt J., to A. M. Todd Co. Mint plant. 1926, 4-5-60, Cl. 47-59.
- Murray, Merritt J., to A. M. Todd Co. Mint plant. 1927, 4-5-60, Cl. 47-59.
- Murray, Merritt J., to A. M. Todd Co. Mint plant. 1928, 4-5-60, Cl. 47-59.
- Nute, Norwood J. Blackberry plant. 1936, 4-19-60, Cl. 47-62.
- Paolino, Marie L.: *See*—  
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- Parker, Elizabeth B. Chrysanthemum plant. 1957, 7-5-60, Cl. 47-60.
- Peterson & Dering: *See*—  
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- Poulsen, Svend, to The Conard-Pyle Co. Rose plant. 1919, 3-1-60, Cl. 47-61.
- Prushek, Emil, to R. M. Kellogg Co. Chrysanthemum plant. 1953, 6-14-60, Cl. 47-60.
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- Rowland, Charles A., Jr. *Ilex crenata* plants (Japanese holly). 1902, 2-2-60, Cl. 47-59.
- Sand, Theodore K. Peach tree. 1941, 5-10-60, Cl. 47-62.
- Selected Glads, Inc.: *See*—  
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- Spoor, Gerald A. Eleagnus plant. 1942, 5-17-60, Cl. 47-59.
- Stark Bro's Nurseries and Orchards Co.: *See*—  
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 Anderson, Frederic W. 1929.  
 Anderson, Frederic W. 1946.  
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 Wood, Walter A. 1930.
- Stetler, James R., to E. H. and H. S. Kemp, d.b.a. Bountiful Ridge Nurseries. Peach tree. 1955, 6-28-60, Cl. 47-62.
- Sullivan, Charles E. Walnut tree. 1963, 8-9-60, Cl. 47-62.
- Swim, Herbert C., to C. R. Burr and Co., Inc. Rose plant. 1893, 1-5-60, Cl. 47-61.
- Swim, Herbert C., to Armstrong Nurseries, Inc. Rose plant. 1894, 1-5-60, Cl. 47-61.
- Swim, Herbert C., to Armstrong Nurseries, Inc. Rose plant. 1896, 1-19-60, Cl. 47-61.
- Swim, Herbert C., to Armstrong Nurseries, Inc. Rose plant. 1897, 1-19-60, Cl. 47-61.
- Swim, Herbert C., to Armstrong Nurseries, Inc. Rose plant. 1903, 2-2-60, Cl. 47-61.
- Swim, Herbert C., to Armstrong Nurseries, Inc. Rose plant. 1904, 2-2-60, Cl. 47-61.
- Swim, Herbert C., to Armstrong Nurseries, Inc. Peach tree. 1976, 10-18-60, Cl. 47-62.
- Swim, Herbert C., to Armstrong Nurseries, Inc. Camellia plant. 1988, 11-22-60, Cl. 47-60.
- Swim, Herbert C., and O. L. Weeks. Rose plant. 1985, 11-15-60, Cl. 47-61.
- Tantau, Mathias, to Jackson & Perkins Co. Rose plant. 1969, 8-30-60, Cl. 47-61.
- Tiret, Horace M. Fuchsia plant. 1972, 9-27-60, Cl. 47-60.
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- Thornburg, Wayne. Grapevine. 1895, 1-5-60, Cl. 47-62.
- Todd, A. M., Co.: *See*—  
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- Tremmel, Minnie K.: *See*—  
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 Tremmel, John P. and M. K. 1925.
- Tremmel, John P. and M. K. Peach tree. 1901, 2-2-60, Cl. 47-62.
- Tremmel, John P. and M. K. Peach tree. 1925, 3-29-60, Cl. 47-62.
- Tukacs, George, to The Berkshires Grass Co., Inc. Creeping bentgrass plant. 1924, 3-29-60, Cl. 47-59.
- Van Bourgondien, C. J., Inc.: *See*—  
 Hoogervorst, Wilhelmus. 1938.
- Verschuren, Hendrikus A. M., to Jackson & Perkins Co. Rose plant. 1961, 7-26-60, Cl. 47-61.
- Von Abrams, Gordon J., to E. P. Dering, d.b.a. Peterson & Dering. Rose plant. 1914, 2-23-60, Cl. 47-61.
- Von Abrams, Gordon J., to E. P. Dering, d.b.a. Peterson & Dering. Rose plant. 1915, 2-23-60, Cl. 47-61.
- Von Abrams, Gordon J., to E. P. Dering. Rose plant. 1991, 12-6-60, Cl. 47-61.
- Weeks, O. L.: *See*—  
 Swim, Herbert C., and Weeks. 1985.
- Weeks, O. L., to C. A. Elmer, trading as Elmer Roses. Rose plant. 1990, 11-29-60, Cl. 47-61.
- White, David W., to Selected Glads, Inc. Gladiolus plant. 1933, 4-12-60, Cl. 47-60.
- Willis Nursery Co., The: *See*—  
 Crawford, Harold S. 1968.
- Wood, Walter A., to Stark Bro's Nurseries and Orchards Co. Apple tree. 1930, 4-5-60, Cl. 47-62.



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## CLASSIFICATION OF PATENTS

<b>Class 1</b>	106: 2, 923, 940 2, 925, 601 2, 925, 602 2, 925, 603 2, 925, 604 2, 932, 033 2, 945, 236 2, 946, 061 2, 950, 481 2, 957, 176 2, 963, 707 2, 964, 752 108: 2, 961, 660 125: 2, 948, 897 134: 2, 942, 268 137: 2, 928, 096 2, 940, 082 141: 2, 943, 329 147: 2, 942, 825 149: 2, 936, 457 165: 2, 930, 044 177: 2, 924, 826 187: 2, 921, 315 2, 929, 069 210: 2, 921, 316 2, 923, 008 2, 926, 354 2, 938, 214 211: 2, 940, 083 220: 2, 945, 237 222: 2, 942, 269 260: 2, 944, 262 301: 2, 956, 284 302: 2, 956, 901	50: 2, 947, 004 2, 965, 903 51: 2, 922, 165 2, 964, 755 68: 2, 929, 071 69.5: 2, 931, 043 2, 932, 827 73: 2, 931, 044 74: 2, 942, 271 2, 942, 272 76: 2, 927, 325 80: 2, 942, 273 81: 2, 935, 748 83: 2, 929, 072 86: 2, 959, 788 87: 2, 952, 022 88: 2, 932, 034 91: 2, 939, 150 2, 942, 274 93: 2, 959, 789 94: 2, 919, 443 2, 948, 898 2, 948, 899 97: 2, 923, 945 98: 2, 920, 328 2, 932, 828 103: 2, 934, 768 105: 2, 936, 460 2, 953, 790 106: 2, 932, 035 115: 2, 941, 210 116: 2, 927, 326 2, 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## Class 8—Con.

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94.31: 2,952,507  
94.32: 2,934,398  
94.33: 2,938,763  
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115.6: 2,955,014  
116: 2,945,738  
2,955,015  
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116.3: 2,965,436  
117: 2,947,594  
127: 2,925,316  
127.6: 2,925,317  
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129: 2,923,597  
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2,937,069  
142: 2,949,336  
149.2: 2,939,760  
149.3: 2,922,695  
151.2: 2,947,595  
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2,953,424  
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159: 2,929,674

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6: 2,926,363  
2,942,282  
2,956,292  
2,963,717  
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8: 2,944,267  
2,944,268  
9: 2,935,750  
2,941,217  
11: 2,933,739  
14: 2,955,299  
15: 2,961,671  
30: 2,964,764  
38: 2,964,765  
41: 2,949,617  
42: 2,929,081  
43: 2,952,857  
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312: 2,959,796

- 313: 2,926,365  
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## Class 10

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26: 2,939,160  
27: 2,953,704  
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76: 2,925,610  
89: 2,923,015  
95: 2,958,877  
96: 2,938,221  
101: 2,920,332  
105: 2,923,951  
2,926,366  
106: 2,954,570  
107: 2,923,952  
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120.5: 2,940,093  
122: 2,938,222  
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138: 2,950,490  
140: 2,949,618  
155: 2,927,333  
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## Class 11

- 1: 2,921,322  
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2,943,336  
2,945,246  
2,956,295  
2: 2,922,172  
2,925,612  
4: 2,962,733

## Class 12

- 1: 2,923,016  
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2,962,735  
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7.1: 2,952,858  
2,963,718  
7.5: 2,963,719  
8.3: 2,945,247  
2,963,720  
8.8: 2,925,613  
12: 2,955,302  
12.4: 2,926,367  
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2,933,743  
2,958,878  
12.41: 2,936,467  
16.2: 2,937,388  
17: 2,924,835  
2,958,879  
18.2: 2,948,001  
20: 2,932,834  
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21: 2,934,771  
33.4: 2,923,953  
36.8: 2,942,836  
38: 2,962,738  
50: 2,934,772  
53.3: 2,933,745  
53.5: 2,940,095  
53.7: 2,926,368  
58.5: 2,933,721  
66: 2,953,795  
86.7: 2,943,337  
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87: 2,948,006  
97: 2,948,002  
103: 2,934,773  
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115.6: 2,941,220  
127: 2,934,774  
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- 142: 2,928,110  
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146: 2,919,453  
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## Class 13

- 1: 2,937,216  
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9: 2,929,858  
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12: 2,927,143  
13: 2,921,107  
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14: 2,942,046  
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16: 2,921,108  
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17: 2,933,545  
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20: 2,930,825  
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23: 2,923,754  
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25: 2,962,538  
26: 2,960,556  
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31: 2,937,217  
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33: 2,936,326  
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34: 2,951,890

## Class 14

- 16: 2,945,248  
2,953,797  
18: 2,960,704  
27: 2,944,270  
71: 2,964,767

## Class 15

- 1.5: 2,948,003  
1.7: 2,923,954  
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2,950,495  
2,960,712  
180: 2,932,050  
181: 2,929,086

- 182: 2,921,328  
2,921,329  
2,942,838  
2,932,051  
2,935,756  
2,963,730  
184: 2,946,075  
2,958,087  
187: 2,920,334  
2,958,889  
198: 2,923,958  
2,962,745  
199: 2,958,890  
200: 2,936,472  
202: 2,943,341  
209: 2,932,052  
2,935,841  
2,936,473  
2,938,223  
2,941,229  
2,942,285  
2,947,016  
2,948,911  
2,949,623  
2,952,862  
2,955,312  
2,961,681  
210: 2,923,020  
2,928,114  
2,942,286  
2,958,088  
2,961,682  
2,964,771  
215: 2,919,456  
229: 2,929,087  
2,940,108  
230: 2,929,088  
2,929,089  
2,935,757  
2,936,474  
231: 2,919,457  
2,936,475  
235.3: 2,945,253  
235.4: 2,952,028  
235.8: 2,947,017  
236: 2,930,065  
2,935,758  
2,944,275  
2,946,076  
2,957,192  
2,961,683  
237: 2,933,750  
238: 2,946,077  
239: 2,919,458  
2,934,778  
244: 2,922,180  
2,962,746  
2,964,772  
245: 2,920,335  
2,920,336  
2,922,181  
2,923,021  
2,924,839  
2,924,840  
2,925,615  
2,926,375  
2,929,090  
2,937,393  
2,964,773  
246: 2,938,224  
2,947,018  
2,948,007  
2,961,686  
247: 2,942,287  
2,926,374  
2,932,047  
2,958,086  
144: 2,948,009  
145: 2,921,326  
2,939,163  
146: 2,922,179  
147: 2,921,327  
2,932,048  
2,941,227  
2,959,802  
148: 2,932,049  
152: 2,954,575  
159: 2,939,164  
2,948,910  
2,965,912  
161: 2,962,744  
167: 2,934,776  
2,935,755  
171: 2,934,777  
2,958,888  
172: 2,941,228  
176: 2,963,729  
179: 2,927,336  
2,950,495  
2,960,712  
180: 2,932,050  
181: 2,929,086

- 250.32: 2,932,843  
2,946,078  
2,956,299  
2,958,892  
2,965,914  
2,965,915  
250.33: 2,942,288  
250.34: 2,964,774  
2,964,775  
250.36: 2,939,165  
2,952,865  
250.4: 2,925,617  
2,925,618  
2,926,376  
2,940,110  
250.42: 2,948,011  
2,953,804  
2,955,313  
2,964,776  
250.5: 2,923,022  
2,929,091  
2,943,343  
2,948,012  
257: 2,921,330  
2,933,751  
2,934,779  
257.6: 2,932,023  
257.9: 2,924,841  
258: 2,930,067  
2,943,344  
261: 2,926,377  
265: 2,923,024  
2,957,194  
2,961,684  
2,961,685  
267: 2,950,496  
268: 2,923,025  
2,937,394  
302: 2,927,338  
2,957,195  
306: 2,956,300  
2,956,301  
2,962,747  
310: 2,953,805  
311: 2,933,752  
2,944,278  
312: 2,931,061  
315: 2,953,806  
316: 2,948,013  
317: 2,932,053  
320: 2,954,576  
321: 2,932,844  
323: 2,920,337  
2,935,760  
2,937,395  
2,937,396  
2,941,231  
2,948,913  
2,961,688  
2,964,777  
2,965,916  
327: 2,958,893  
2,958,894  
328: 2,945,254  
330: 2,923,959  
2,959,804  
332: 2,954,577  
344: 2,960,713  
345: 2,953,807  
346: 2,932,845  
349: 2,960,714  
351: 2,930,068  
355: 2,950,497  
356: 2,938,225  
2,949,624  
360: 2,933,753  
363: 2,932,054  
365: 2,921,331  
371: 2,932,055  
2,946,079  
2,948,014  
2,961,689  
373: 2,960,715  
375: 2,930,069  
2,946,080  
377: 2,941,232  
379: 2,959,805  
387: 2,962,748  
398: 2,941,233  
402: 2,934,780  
404: 2,951,257  
410: 2,923,960  
417: 2,960,716  
2,961,690

## Class 16

- 1: 2,944,279  
2,953,809  
2: 2,957,196  
2,961,691  
4: 2,926,378



7: 2,919,459 2,942,289	153: 2,920,340 2,958,090	<b>Class 18</b>	8: 2,923,969 2,923,970	18: 2,921,338 2,934,786	45: 2,933,765 2,937,400	54: 2,930,671 2,934,400
10: 2,958,895 2,927,339	154: 2,958,090 2,927,340		2,928,121 2,930,080	2,936,484 2,942,295	2,937,124 2,944,290	2,935,371 2,935,372
16: 2,928,115 2,941,234	159: 2,939,169 2,941,236	1: 2,920,344 2,921,334	2,932,062 2,932,850	2,942,296 2,948,924	2,961,708 2,932,064	2,935,373 2,937,070
21: 2,929,092 2,944,280	163: 2,948,917 2,954,578	2,923,029 2,923,965	2,932,851 2,936,482	19: 2,919,468 2,920,340	46: 2,932,551 2,934,399	2,937,922 2,939,761
2,947,021 2,960,717	164: 2,923,966 2,947,024	2,923,966 2,924,847	2,940,122 2,943,350	2,922,192 2,926,385	47: 2,947,596 2,955,906	2,940,818 2,942,931
2,963,732 2,964,778	168: 2,937,399 2,963,733	2,932,061 2,933,759	2,947,027 2,947,028	2,928,124 2,929,102	47.2: 2,919,471 2,923,033	2,945,739 2,946,650
33: 2,950,498 2,942,290	169: 2,920,341 2,932,056	2,946,086 2,947,026	2,947,029 2,949,633	2,936,485 2,937,403	2,929,106 2,931,067	2,947,597 2,947,598
2,951,258 2,933,754	171: 2,963,734 2,963,734	2,948,918 2,952,033	2,954,582 2,955,320	2,938,485 2,952,875	2,938,233 2,925,620	2,948,581 2,948,582
42: 2,923,961 2,923,961	172: 2,923,963 2,926,382	2,952,867 2,952,866	2,958,097 2,958,899	2,953,814 2,958,901	47.3: 2,921,342 2,934,787	2,948,583 2,948,584
44: 2,923,961 2,948,914	176: 2,933,756 2,955,314	2,952,867 2,952,868	2,959,813 2,960,723	2,962,758 2,921,339	47.5: 2,919,472 2,921,344	2,952,508 2,953,425
45: 2,923,026 2,932,846	178: 2,947,025 2,959,808	2,955,318 2,960,720	2,962,755 2,963,739	2,952,035 2,937,404	2,921,343 2,922,193	2,953,426 2,953,427
49: 2,945,255 2,958,089	179: 2,961,695 2,934,784	2,960,721 2,923,967	2,964,787 2,964,788	2,952,036 2,954,585	2,928,128 2,928,129	2,953,428 2,954,270
2,960,718 2,930,070	182: 2,924,843 2,940,116	2,927,342 2,927,343	2,965,924 2,965,925	2,954,585 2,943,354	2,929,107 2,929,108	2,954,271 2,955,017
2,937,397 2,950,499	185: 2,964,782 2,964,783	2,927,344 2,928,119	9: 2,919,466 2,922,189	2,945,259 2,948,925	2,930,082 2,933,766	2,955,907 2,956,855
2,962,749 2,964,779	191: 2,930,075 2,955,315	2,933,760 2,940,119	2,932,852 2,949,634	2,958,902 2,958,903	2,934,788 2,934,789	2,957,747 2,957,748
52: 2,949,625 2,953,810	197: 2,929,095 2,933,757	2,941,239 2,944,283	2,957,200 2,920,347	2,964,789 2,951,262	2,939,177 2,940,125	2,958,569 2,960,385
55: 2,923,962 2,930,071	2,939,170 2,941,237	2,946,087 2,946,088	2,923,971 2,923,972	2,921,340 2,946,092	2,941,253 2,941,254	2,961,289 2,961,290
2,933,755 2,944,281	2,943,345 2,965,917	2,948,920 2,954,580	2,936,483 2,938,231	2,957,202 2,959,816	2,942,299 2,942,300	2,962,341 2,962,342
59: 2,956,302 2,920,338	198: 2,932,057 2,934,785	2,955,319 2,958,094	2,938,231 2,942,294	2,961,703 2,921,341	2,942,300 2,943,355	2,963,340 2,965,437
66: 2,932,847 2,940,111	<b>Class 17</b>	2,958,897 2,959,811	2,944,285 2,944,286	30: 2,919,469 2,921,341	2,943,356 2,944,291	2,966,390 2,966,391
2,953,811 2,946,081		2,963,736 2,963,737	2,946,089 2,946,090	2,923,031 2,923,975	2,946,094 2,948,019	2,966,391 2,967,726
80: 2,959,806 2,921,332	1: 2,922,185 2,932,058	2,963,737 2,962,752	2,947,030 2,948,922	2,923,976 2,928,125	2,948,927 2,949,637	54.7: 2,948,927 55: Re.24,784
2,922,182 2,939,166	2: 2,928,117 2,938,229	2,965,919 2,965,920	2,952,871 2,958,098	2,928,125 2,933,763	2,951,263 2,952,037	2,929,109 2,930,083
82: 2,922,182 2,939,166	2,938,229 2,948,915	2,939,172 2,938,479	2,958,099 2,958,900	2,937,405 2,938,232	2,952,038 2,952,039	2,933,769 2,935,763
2,952,030 2,964,780	2,952,030 2,960,719	2,936,480 2,944,284	2,958,900 2,961,701	2,939,176 2,940,123	2,952,877 2,954,587	2,935,764 2,936,489
2,965,918 2,926,325	3: 2,930,076 2,959,809	2,944,284 2,949,631	2,961,701 2,965,926	2,944,288 2,950,501	2,954,587 2,955,324	2,936,489 2,938,234
83: 2,926,325 2,938,229	4: 2,955,316 2,959,810	2,949,632 2,952,869	2,965,926 2,952,869	2,950,501 2,952,876	2,956,306 2,956,307	2,938,235 2,938,236
85: 2,921,333 2,962,750	5: 2,928,118 2,946,084	2,956,304 2,961,698	2,952,869 2,961,698	2,953,815 2,954,586	2,956,308 2,958,904	2,939,178 2,940,126
86: 2,921,333 2,922,182	7: 2,946,084 2,932,849	2,961,698 2,965,921	2,961,698 2,965,921	2,954,586 2,957,203	2,961,704 2,961,705	2,943,357 2,945,262
87: 2,944,282 2,959,807	8: 2,932,849 2,945,256	2,965,922 2,931,062	2,965,922 2,931,062	2,957,203 2,962,756	2,964,792 2,961,706	2,945,263 2,951,264
87.2: 2,930,072 2,961,693	11: 2,924,844 2,926,383	2,962,754 2,921,335	2,962,754 2,921,335	2,962,756 2,963,740	2,965,930 2,962,760	2,952,040 2,952,041
87.4: 2,934,781 2,924,842	2,927,341 2,940,117	2,921,336 2,923,030	2,921,336 2,923,030	2,963,740 2,926,384	2,962,760 2,965,929	2,952,041 2,953,816
87.6: 2,924,842 2,939,167	2,941,238 2,943,346	2,923,030 2,923,968	2,923,030 2,923,968	2,926,384 2,944,287	2,965,931 2,929,103	2,953,817 2,954,588
90: 2,949,626 2,934,782	2,952,031 2,952,032	2,938,230 2,939,173	2,938,230 2,939,173	2,944,287 2,945,258	2,929,103 2,936,486	2,954,588 2,956,309
93: 2,934,782 2,930,073	2,952,032 2,957,198	2,943,347 2,948,921	2,943,347 2,948,921	2,945,258 2,947,031	2,936,486 2,941,250	2,960,727 2,961,712
95: 2,937,398 2,958,092	11.1: 2,929,096 2,939,171	2,958,092 2,960,722	2,958,092 2,960,722	2,947,032 2,952,872	2,928,130 2,928,131	2,961,713 2,962,764
105: 2,940,112 2,940,113	11.2: 2,919,461 2,924,845	2,958,093 2,960,722	2,958,093 2,960,722	2,952,872 2,955,321	2,931,068 2,933,767	2,964,794 2,964,795
2,957,197 2,920,339	12: 2,947,022 2,964,784	2,945,257 2,919,462	2,945,257 2,919,462	2,955,321 2,963,741	2,933,767 2,936,487	55.05: 2,949,638 2,955,326
106: 2,920,339 2,961,694	18: 2,940,118 2,946,085	2,924,848 2,928,120	2,924,848 2,928,120	2,963,741 2,933,742	2,936,488 2,937,407	2,961,714 2,936,490
111: 2,941,235 2,951,259	21: 2,937,400 2,923,028	2,930,079 2,936,481	2,930,079 2,936,481	2,933,742 2,927,345	2,944,292 2,945,261	55.1: 2,944,293 2,920,351
123: 2,947,022 2,936,478	24: 2,923,028 2,929,098	2,937,401 2,940,120	2,937,401 2,940,120	2,927,345 2,965,927	2,947,036 2,928,127	2,923,978 2,924,852
125: 2,946,082 2,940,114	25: 2,929,098 Re.24,824	2,940,121 2,942,293	2,940,121 2,942,293	2,965,927 2,923,973	2,948,928 2,950,502	2,924,852 2,928,135
126: 2,940,114 2,922,184	32: 2,920,344 2,929,099	2,942,293 2,943,348	2,942,293 2,943,348	2,923,973 2,925,619	2,952,878 2,952,879	2,928,136 2,932,065
128.1: 2,922,184 2,956,303	24: 2,923,027 2,940,115	2,943,348 2,943,349	2,943,348 2,943,349	2,925,619 2,954,583	2,952,879 2,957,204	2,932,065 2,934,790
129: 2,923,027 2,938,227	135: 2,938,227 2,946,083	2,951,260 2,951,261	2,951,260 2,951,261	2,954,583 2,959,814	2,957,204 2,958,905	2,934,790 2,936,491
131: 2,940,115 2,938,227	138: 2,932,848 2,935,761	2,952,034 2,954,581	2,952,034 2,954,581	2,959,814 2,941,241	2,960,724 2,960,725	2,936,491 2,939,179
135: 2,946,083 2,932,848	140: 2,926,380 2,926,381	2,958,898 2,959,812	2,958,898 2,959,812	2,941,241 2,941,242	2,960,725 2,961,710	2,942,301 2,944,294
138: 2,932,848 2,935,761	2,929,093 2,930,074	2,963,738 2,963,738	2,963,738 2,963,738	2,941,242 2,941,243	2,961,711 2,962,763	2,944,295 2,948,929
139: 2,935,761 2,926,380	2,939,168 2,948,916	5.1: 2,924,349 5.3: 2,961,699	5.1: 2,924,349 5.3: 2,961,699	2,941,243 2,941,244	48.8: 2,920,350 2,928,133	2,949,639 2,952,042
140: 2,926,380 2,926,381	2,949,627 2,964,781	5.7: 2,948,017 2,948,018	5.7: 2,948,017 2,948,018	2,941,244 2,941,245	53: 2,926,390 2,933,768	2,952,043 2,959,819
2,929,093 2,930,074	144: 2,927,023 2,948,015	6: 2,952,870 2,953,813	6: 2,952,870 2,953,813	2,941,246 2,941,247	2,955,325 2,957,204	2,963,744 2,963,745
2,939,168 2,948,916	145: 2,947,023 2,948,015	8: 2,919,464 2,919,465	8: 2,919,464 2,919,465	2,941,248 2,948,923	54: 2,919,970 2,923,598	2,964,796 2,964,796
2,949,627 2,964,781	2,949,628 2,962,751	2,920,345 2,920,346	2,920,345 2,920,346	2,948,923 2,949,636	2,924,501 2,924,502	2,964,796 2,964,796
144: 2,927,023 2,948,015	2,949,628 2,962,751	2,922,187 2,922,188	2,922,187 2,922,188	2,949,636 2,955,323	2,924,503 2,924,504	2,964,796 2,964,796
145: 2,947,023 2,948,015	2,949,628 2,962,751			2,955,323 2,959,818	2,924,504 2,924,505	2,964,796 2,964,796
146: 2,934,783 2,938,228	2,949,628 2,962,751			2,959,818 2,962,761	43: 2,926,387 2,926,388	2,964,796 2,964,796
148: 2,919,460	2,949,628 2,962,751			2,962,761 2,963,743	2,926,387 2,926,388	2,964,796 2,964,796
	2,949,628 2,962,751			2,963,743 2,964,791	2,926,388 2,932,854	2,964,796 2,964,796
	2,949,628 2,962,751			2,964,791 2,965,928	2,932,854 2,933,764	2,964,796 2,964,796



## Class 18—Con.

57: 2, 932, 855  
2, 936, 492  
2, 941, 255  
2, 944, 296  
2, 946, 095  
2, 950, 503  
2, 952, 043  
2, 952, 880  
2, 953, 818  
2, 956, 310  
2, 957, 206  
2, 957, 207  
2, 960, 728  
2, 962, 765  
2, 962, 766  
2, 963, 746  
2, 964, 797  
58: 2, 920, 353  
2, 927, 346  
2, 935, 765  
2, 939, 180  
2, 941, 256  
2, 943, 358  
2, 945, 264  
2, 950, 504  
2, 953, 819  
2, 962, 767  
2, 964, 798  
58.3: 2, 937, 408  
2, 959, 820  
58.5: 2, 941, 257  
2, 959, 821  
58.7: 2, 929, 110  
2, 936, 493  
59: 2, 919, 474  
2, 920, 354  
2, 923, 035  
2, 925, 623  
2, 925, 624  
2, 928, 138  
2, 931, 069  
2, 932, 066  
2, 932, 856  
2, 934, 791  
2, 934, 792  
2, 936, 494  
2, 937, 409  
2, 937, 410  
2, 938, 237  
2, 938, 238  
2, 940, 127  
2, 940, 128  
2, 941, 258  
2, 942, 302  
2, 943, 359  
2, 944, 297  
2, 944, 298  
2, 945, 265  
2, 945, 266  
2, 946, 096  
2, 948, 020  
2, 948, 930  
2, 949, 640  
2, 949, 641  
2, 949, 642  
2, 949, 643  
2, 950, 505  
2, 950, 506  
2, 954, 589  
2, 955, 327  
2, 956, 311  
2, 956, 312  
2, 956, 313  
2, 957, 208  
2, 958, 906  
2, 958, 907  
2, 958, 908  
2, 958, 909  
2, 959, 822  
2, 961, 715  
2, 961, 716  
2, 961, 717  
2, 962, 768  
2, 963, 747  
2, 963, 748  
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59.2: 2, 959, 823  
60: 2, 922, 195  
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61: 2, 925, 625

## Class 19

39: 2, 941, 259  
51: 2, 924, 853  
7: 2, 925, 626  
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9: 2, 957, 209  
12: 2, 939, 181  
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50: 2, 929, 111  
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55: 2, 962, 769  
58: 2, 934, 793  
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65: 2, 931, 070  
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66: 2, 922, 196  
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67: 2, 932, 857  
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69: 2, 920, 355  
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70: 2, 930, 084  
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2, 952, 047  
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71: 2, 922, 197  
72: 2, 929, 112  
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76: 2, 934, 794  
79: 2, 939, 182  
80: 2, 938, 239  
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93: 2, 931, 071  
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98: 2, 928, 139  
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99: 2, 923, 980  
100: 2, 936, 495  
105: 2, 949, 645  
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106: 2, 935, 766  
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107: 2, 959, 824  
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108: 2, 933, 772  
111: 2, 929, 113  
114: 2, 937, 412  
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115: 2, 940, 129  
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127: 2, 946, 097  
129: 2, 927, 347  
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130: 2, 925, 627  
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135: 2, 958, 103  
136: 2, 924, 855  
137: 2, 931, 074  
139: 2, 928, 140  
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140: 2, 951, 268  
141: 2, 935, 767  
142: 2, 922, 199  
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143: 2, 932, 859  
143.3: 2, 948, 931  
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143.5: 2, 929, 114  
2, 925, 629  
144: 2, 933, 774  
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144.5: 2, 926, 397  
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153: 2, 940, 132  
155: 2, 919, 475  
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156: 2, 931, 076  
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157: 2, 948, 025  
2, 953, 823  
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159: 2, 925, 630  
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2, 939, 184  
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163: 2, 927, 350  
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166: 2, 944, 302  
167: 2, 960, 731

## Class 20

8: 2, 959, 826  
1: 2, 938, 243  
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2, 943, 366  
1.12: 2, 927, 351  
1.13: 2, 920, 782  
2, 961, 718  
2: 2, 921, 347  
2, 922, 200  
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3.5: 2, 928, 141  
4: 2, 920, 357  
2, 922, 201  
2, 924, 856  
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2, 947, 041  
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5: Re.24,828  
2, 928, 143  
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6: 2, 919, 478  
9: 2, 964, 807  
11: 2, 920, 358  
2, 934, 798  
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15: 2, 924, 858  
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16: 2, 922, 202  
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2, 923, 981  
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19: 2, 924, 859  
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23: 2, 931, 079  
2, 944, 303  
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27: 2, 925, 632  
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35: 2, 924, 860  
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2, 944, 304  
2, 958, 911  
36: 2, 944, 305  
2, 956, 314  
39: 2, 940, 138  
40: 2, 923, 037  
2, 927, 355  
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2, 939, 186  
2, 957, 210  
40.5: 2, 926, 396  
42: 2, 926, 397  
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2, 938, 246  
2, 945, 267  
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49: 2, 932, 861  
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52: 2, 921, 348  
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52.2: 2, 927, 349  
2, 927, 356  
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2, 939, 187  
2, 952, 048  
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52.4: 2, 948, 028  
53: 2, 926, 398  
2, 926, 399  
2, 938, 247  
55: 2, 921, 350  
2, 939, 188  
2, 947, 042  
2, 960, 734  
56: 2, 956, 315  
56.4: 2, 919, 477  
2, 923, 078  
2, 933, 779  
2, 934, 800  
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2, 945, 268  
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56.5: 2, 925, 633  
2, 928, 144  
2, 938, 780  
2, 934, 801  
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57.5: 2, 930, 088  
2, 936, 498  
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62: 2, 925, 634  
2, 926, 400  
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64: 2, 926, 401  
2, 933, 781  
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67: 2, 929, 116  
68: 2, 933, 783  
69: 2, 919, 478  
2, 922, 204  
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2, 932, 862  
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2, 954, 592

69: 2, 958, 912  
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71: 2, 924, 862  
2, 926, 402  
2, 928, 146  
74: 2, 946, 099  
92: 2, 937, 418  
2, 945, 270  
92.4: 2, 942, 310

## Class 21

2: 2, 953, 429  
2, 958, 570  
2.5: 2, 926, 066  
2, 947, 599  
2, 952, 509  
2, 952, 510  
2, 955, 018  
2, 955, 908  
2.7: 2, 923, 599  
2, 931, 700  
2, 943, 909  
2, 949, 338  
2, 961, 291  
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7: 2, 919, 971  
53: 2, 921, 832  
57: 2, 948, 585  
58: 2, 928, 717  
2, 938, 766  
60.5: 2, 925, 318  
2, 926, 988  
62: 2, 955, 331  
73: 2, 923, 039  
74: 2, 941, 265  
80: 2, 923, 985  
86: 2, 929, 117  
91: 2, 965, 936  
109: 2, 945, 271  
126: 2, 937, 419

## Class 22

1: 2, 942, 311  
2, 961, 720  
3: 2, 944, 306  
9: 2, 929, 118  
2, 931, 080  
2, 944, 307  
2, 957, 212  
10: 2, 929, 119  
2, 933, 785  
2, 933, 786  
2, 937, 420  
16: 2, 937, 421  
2, 950, 511  
20: 2, 940, 140  
2, 948, 932  
2, 956, 316  
2, 960, 735  
21: 2, 956, 317  
22: 2, 956, 318  
31: 2, 942, 312  
2, 952, 886  
33: 2, 962, 774  
34: 2, 956, 319  
35: 2, 948, 029  
36: 2, 928, 147  
2, 944, 308  
2, 945, 272  
2, 948, 933  
40: Re.24,901  
42: 2, 951, 270  
2, 962, 775  
2, 962, 776  
43: 2, 963, 755  
45: 2, 959, 828  
47: 2, 955, 332  
49: 2, 961, 721  
57.2: 2, 920, 359  
2, 944, 309  
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2, 950, 512  
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57.3: 2, 937, 422  
2, 941, 266  
2, 946, 100  
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2, 962, 777  
57.4: 2, 928, 148  
2, 936, 320  
58: 2, 920, 360  
2, 932, 863  
62: 2, 952, 054  
64: 2, 943, 368

65: Re.24,827  
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2, 937, 423  
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68: 2, 925, 635  
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2, 956, 321  
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73: 2, 923, 040  
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75: 2, 933, 787  
79: 2, 925, 636  
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82: 2, 922, 205  
84: 2, 921, 351  
2, 943, 370  
2, 946, 101  
2, 961, 722  
85: 2, 962, 779  
87: 2, 928, 149  
89: 2, 920, 361  
2, 939, 189  
2, 959, 830  
93: 2, 965, 938  
94: 2, 946, 102  
113.5: 2, 940, 141  
2, 948, 934  
2, 956, 322  
116: 2, 953, 826  
123: 2, 923, 987  
126: 2, 951, 272  
130: 2, 940, 142  
131: 2, 919, 479  
134: 2, 962, 780  
138: 2, 932, 070  
139: 2, 922, 206  
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147: 2, 925, 637  
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151: 2, 939, 190  
158: 2, 921, 352  
167: 2, 963, 757  
170: 2, 948, 031  
184: 2, 958, 106  
192: 2, 923, 041  
193: 2, 922, 207  
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194: 2, 946, 104  
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195: 2, 923, 990  
196: 2, 932, 864  
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199: 2, 962, 781  
200.1: 2, 932, 865  
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203: 2, 924, 863  
2, 957, 214  
209: 2, 946, 105  
210: 2, 952, 056  
212: 2, 953, 431  
214: 2, 928, 150  
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215: 2, 937, 425  
216: 2, 920, 362  
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216.5: 2, 948, 034  
217: 2, 958, 107

## Class 23

1: 2, 925, 319  
2, 928, 718  
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2, 937, 923  
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2: 2, 924, 604  
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2: 2, 935, 375  
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3: 2, 930, 673  
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2, 966, 392  
4: 2, 956, 856  
2, 965, 439  
14: 2, 920, 935  
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14.5: 2, 919, 972  
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2, 945, 742  
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2, 956, 857  
2, 958, 573  
2, 959, 462  
2, 964, 380  
2, 965, 440  
2, 966, 393  
16: 2, 926, 993  
2, 961, 293  
2, 962, 346  
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17: 2, 928, 722  
2, 936, 214  
18: 2, 929, 677  
2, 942, 940  
2, 963, 342



19: 2,937,072	106: 2,920,939	172: 2,946,659	209.2: 2,957,756	270.5: 2,941,872	16: 2,943,371	137: 2,920,365
2,937,073	2,943,915	2,955,920	209.3: 2,941,866	272: 2,955,923	2,953,827	2,922,209
2,937,074	2,948,588	177: 2,929,683	209.4: 2,957,755	273: 2,922,701	17: 2,935,773	2,931,086
22: 2,956,858	2,958,577	2,929,684	2,961,300	2,927,008	2,953,828	139: 2,928,152
23: 2,938,769	2,962,354	178: 2,926,999	209.6: 2,953,436	2,929,691	23: 2,931,083	2,947,052
2,943,912	2,921,837	182: 2,921,839	2,953,437	2,935,385	27: 2,957,217	143: 2,961,727
2,955,913	2,934,406	2,924,510	210: 2,937,076	2,944,875	30.5: 2,951,273	150: 2,928,153
2,963,343	2,938,770	2,940,830	2,943,917	2,956,863	33: 2,935,774	157: 2,948,038
24: 2,945,743	2,946,655	2,946,660	211: 2,927,003	274: 2,941,873	2,953,829	161: 2,926,407
25: 2,925,323	2,946,559	2,952,516	212: 2,937,077	277: 2,934,410	2,962,782	2,941,269
2,931,703	2,948,588	183: 2,950,172	213: 2,934,407	2,946,668	49: 2,946,106	2,944,312
2,964,381	2,948,597	184: 2,958,585	2,960,388	2,946,669	2,948,936	170: 2,920,366
27: 2,924,507	2,933,371	2,959,468	216: 2,929,686	2,956,864	2,963,759	2,945,275
30: 2,940,820	2,936,218	2,962,358	2,945,746	2,960,390	66: 2,923,991	2,954,594
31: 2,962,348	2,940,829	2,927,000	2,965,452	279: 2,924,513	2,926,405	2,965,942
48: 2,936,215	2,941,861	190: 2,935,378	219: 2,950,957	281: 2,925,329	2,933,790	2,965,943
50: 2,920,936	2,942,945	2,950,954	223.5: 2,924,511	293: 2,938,773	2,945,275	171: 2,938,254
2,921,834	2,946,657	2,955,921	2,927,004	2,939,770	2,943,372	2,948,939
2,929,678	2,958,578	191: 2,922,699	2,937,929	2,939,771	2,947,047	179: 2,920,367
2,933,707	2,950,952	2,926,071	2,938,772	2,950,180	2,957,218	184: 2,928,154
2,945,744	2,958,579	2,959,469	2,941,867	284: 2,943,920	2,926,408	191: 2,926,408
51: 2,936,216	2,962,355	192: 2,962,359	2,943,918	2,951,747	2,945,274	196: 2,919,481
2,942,941	2,932,550	193: 2,927,001	2,944,874	2,952,326	72.5: 2,931,084	2,936,500
2,949,340	2,955,026	196: 2,950,173	2,953,438	2,956,865	73: 2,924,864	201: 2,940,148
2,962,349	2,938,771	197: 2,966,396	2,955,022	2,957,757	2,930,990	2,959,832
52: 2,926,069	2,931,707	200: 2,935,379	224: 2,941,868	2,961,303	2,930,991	205: 2,929,123
53: 2,926,994	2,953,434	2,937,927	225: 2,919,976	2,927,009	2,931,085	2,925,155
2,931,741	2,959,465	2,939,767	2,958,586	2,927,845	2,933,791	2,928,156
56: 2,931,704	2,966,394	2,950,955	2,963,348	2,937,079	2,955,026	2,959,833
58: 2,940,821	2,923,600	2,959,470	227: 2,961,301	2,955,924	2,941,268	205.11: 2,932,872
2,940,822	2,949,342	201: 2,940,831	230: 2,927,005	2,964,391	2,947,048	2,945,276
2,943,913	2,952,515	2,954,277	2,932,558	286: 2,923,604	2,948,036	2,948,039
59: 2,920,937	2,966,395	2,957,752	2,937,930	2,936,220	2,948,037	2,958,111
2,952,512	2,937,928	2,962,359	2,946,665	2,925,331	2,948,937	2,960,740
2,957,749	2,956,859	2,931,708	2,950,176	2,927,846	2,948,938	2,965,944
2,961,294	2,959,466	2,933,373	2,950,958	2,930,679	2,950,513	205.13: 2,919,482
60: 2,947,602	2,958,580	2,937,928	2,953,439	2,931,711	2,953,830	2,939,192
61: 2,929,679	2,954,276	2,941,863	2,959,471	2,934,411	2,957,219	2,942,317
2,929,679	2,922,698	2,950,174	2,960,389	2,934,411	2,958,108	2,948,040
2,961,295	2,928,725	2,954,278	2,963,349	2,936,221	2,958,109	205.14: 2,923,993
64: 2,926,995	123: 2,958,580	2,957,753	2,963,350	2,940,835	2,958,914	2,953,831
65: 2,942,942	125: 2,954,276	2,960,387	2,965,453	2,941,874	2,958,915	205.15: 2,922,210
2,946,653	126: 2,922,698	2,961,298	2,921,841	2,943,921	2,961,723	2,928,157
66: 2,941,860	128: 2,928,725	2,964,386	2,926,072	2,943,922	2,961,724	2,933,792
2,962,350	139: 2,948,591	2,961,296	2,935,388	2,944,876	2,961,725	2,937,427
2,964,382	140: 2,965,447	2,961,297	2,937,968	2,945,748	2,962,783	2,939,193
67: 2,921,835	142: 2,961,296	2,942,944	2,942,952	2,949,346	2,964,813	2,946,109
78: 2,927,842	143: 2,919,973	2,942,945	2,949,345	2,949,347	2,964,814	2,949,653
2,940,824	2,930,677	2,942,946	2,963,351	2,952,527	2,924,865	2,965,945
79: 2,949,341	2,935,377	2,946,661	2,927,006	2,954,281	74: 2,924,865	205.16: 2,963,760
2,965,441	2,939,764	2,952,517	2,928,726	2,955,925	75: 2,929,121	205.17: 2,921,353
81: 2,965,442	2,939,765	2,952,518	2,929,687	2,956,866	85: 2,932,869	2,920,149
85: 2,926,996	2,946,658	2,952,519	2,935,383	2,961,304	2,932,868	208: 2,933,793
2,929,680	2,947,604	2,952,520	2,941,869	2,962,362	2,937,426	211: 2,951,274
2,942,943	2,947,605	2,952,521	2,950,177	2,965,454	2,940,144	2,960,741
2,942,944	2,950,169	2,952,522	2,950,178	2,965,455	2,940,145	213: 2,942,318
86: 2,965,443	2,951,743	2,952,523	2,951,745	2,955,926	2,950,514	214: 2,944,313
87: 2,927,843	2,955,915	2,952,524	2,953,440	290.5: 2,944,877	2,955,337	216: 2,933,794
2,928,723	2,958,581	2,963,346	2,962,360	292: 2,936,222	2,958,110	2,939,194
2,928,724	2,958,582	2,964,387	2,964,389	2,947,612	2,959,831	2,943,373
2,931,705	2,958,583	204: 2,921,840	2,940,834	2,944,878	85: 2,932,869	217: 2,923,043
2,936,217	2,964,383	2,929,685	2,955,922	2,947,613	2,960,737	2,926,409
2,940,825	144: 2,959,467	2,933,374	2,922,700	296: 2,960,391	86: 2,950,515	2,941,270
2,940,826	145: 2,921,838	2,937,075	2,923,603	297: 2,927,010	88: 2,962,784	2,947,053
2,940,827	2,956,860	2,946,662	2,925,327	300: 2,954,282	90: 2,928,151	219: 2,932,073
2,946,654	147: 2,929,681	2,946,663	2,943,919	301: 2,923,605	2,939,191	221: 2,922,211
2,948,587	2,956,861	2,946,664	2,953,441	2,923,606	97: 2,919,480	2,931,057
2,951,742	148: 2,941,862	2,952,525	2,935,384	2,926,075	2,920,363	2,936,501
2,952,513	149: 2,948,592	2,954,279	2,937,970	2,929,692	2,960,738	2,936,502
2,953,433	150: 2,955,916	2,961,299	2,955,025	2,931,712	98: 2,929,122	2,952,057
2,954,274	151: 2,920,940	2,963,347	2,961,302	2,935,386	103: 2,930,092	2,964,816
2,958,574	2,927,844	2,964,388	2,964,390	2,962,363	104: 2,923,042	222: 2,930,094
2,962,351	2,942,946	2,965,450	259.1: 2,929,688	2,965,456	2,944,311	227: 2,923,044
2,962,352	2,951,744	2,920,942	2,945,747	2,934,412	2,947,049	2,941,271
88: 2,920,938	2,953,435	2,931,709	2,946,666	302: 2,958,589	2,952,887	2,961,728
2,921,836	2,955,021	2,931,710	2,948,593	308: 2,934,413	107: 2,940,146	2,964,817
2,924,508	2,955,022	2,933,375	2,924,512	309: 2,961,307	109: 2,947,050	230: 2,927,357
2,925,324	2,957,751	2,942,950	2,926,073	310: 2,932,559	113: 2,930,093	2,931,088
2,925,325	2,964,384	2,943,916	2,950,179	2,949,348	122.6: 2,935,776	2,933,795
2,930,676	2,964,384	2,947,607	260: 2,942,953	312: 2,923,607	123: 2,955,338	2,941,272
2,934,405	152: 2,929,682	2,927,002	2,962,361	2,934,414	125: 2,932,870	2,952,058
2,943,914	2,936,219	2,919,975	261: 2,929,689	2,913,923	126: 2,926,324	2,956,324
2,945,745	2,952,514	2,937,076	262: 2,939,769	2,947,614	2,922,208	235: 2,923,045
2,952,514	153: 2,932,557	2,935,381	2,966,399	2,929,693	2,942,313	238: 2,949,554
2,954,275	2,939,766	2,940,833	2,926,074	2,933,377	2,940,147	241: 2,927,358
2,955,914	154: 2,920,941	2,941,865	2,929,690	2,935,387	2,942,313	243: 2,953,832
2,958,575	2,950,170	2,949,343	2,958,587	314: 2,949,349	2,958,916	245: 2,939,195
2,958,576	2,950,953	2,966,397	2,958,588	2,964,392	2,961,726	248: 2,920,368
2,963,344	2,964,385	2,966,398	266: 2,951,746	Class 24	129: 2,932,072	2,923,994
2,965,446	160: 2,923,601	207.5: 2,950,175	267: 2,925,328	3: 2,926,403	2,942,314	2,932,873
105: 2,924,509	161: 2,960,386	2,961,306	269: 2,920,943	8: 2,948,035	2,947,051	2,939,196
2,927,750	162: 2,955,917	208: 2,942,951	270: 2,921,842	10: 2,964,812	2,949,348	2,947,054
2,959,464	165: 2,925,326	209: 2,930,678	2,927,007	11: 2,926,404	130: 2,936,499	252: 2,920,369
		2,956,862	2,946,667	13: 2,954,593	132: 2,965,940	2,926,410
		209.1: 2,947,608	2,954,280		133: 2,965,941	2,948,041
		2,947,609	2,919,978		134: 2,942,315	2,927,359
		2,947,610	2,937,078		2,957,220	2,960,742
		2,947,611	2,941,871		2,960,739	257: 2,948,940
		2,949,344			10: 2,964,812	2,963,761
					11: 2,926,404	2,947,055
					13: 2,954,593	



## Class 24—Con.

262: 2,955,339  
263: 2,923,995  
2,924,866  
2,934,804  
2,939,197  
265: 2,932,074  
2,948,941  
2,953,833  
268: 2,922,212  
271: 2,920,370  
2,956,325  
274: 2,940,150  
277: 2,959,834  
279: 2,934,805  
2,936,503  
2,940,151  
2,941,273  
2,944,314  
2,955,340  
281: 2,945,277

## Class 25

1: 2,927,360  
2,927,361  
2,934,806  
2,946,110  
2,962,785  
2,962,786  
7: 2,937,428  
2,965,946  
11: 2,953,834  
22: 2,942,319  
2,954,595  
24: 2,930,095  
30: 2,926,411  
2,932,874  
2,948,042  
2,949,655  
2,961,729  
2,962,787  
2,965,947  
32: 2,932,875  
2,937,429  
2,948,942  
36: 2,923,996  
38: 2,924,867  
2,935,777  
2,945,278  
41: 2,932,876  
2,934,807  
2,938,255  
2,941,274  
2,954,596  
2,957,221  
2,957,222  
2,958,917  
2,961,730  
2,963,762  
2,964,818  
2,965,948  
42: 2,948,043  
2,964,819  
43: 2,965,949  
56: 2,926,412  
66: 2,925,638  
2,943,374  
82: 2,952,059  
87: 2,962,788  
99: 2,934,808  
100: 2,956,326  
107: 2,957,223  
118: 2,921,354  
2,926,413  
2,932,075  
2,937,430  
2,940,152  
2,942,320  
2,948,943  
2,949,656  
2,953,835  
2,954,597  
2,965,950  
120: 2,948,044  
121: 2,942,321  
2,958,918  
2,964,820  
122: 2,949,657  
127: 2,929,124  
128: 2,929,125  
2,941,275  
2,941,276  
2,946,111  
2,949,658  
129: 2,921,355  
130: 2,955,341  
131: 2,920,371  
2,930,096  
2,939,198  
2,940,153  
2,948,045

131: 2,948,046

2,948,944  
2,952,060  
2,953,836  
2,959,835  
2,960,743  
2,961,731  
2,962,789  
2,963,763  
2,964,821

131.5: 2,965,951

142: 2,921,356  
2,928,158  
2,945,279  
2,948,945  
2,948,946  
2,959,836  
2,960,744  
2,961,732  
153: 2,923,997  
2,927,362  
2,944,315  
154: 2,948,047  
2,948,947  
2,950,517  
2,952,061  
2,952,062  
2,963,764  
2,963,765  
155: 2,936,504  
2,960,745  
156: 2,919,483  
2,921,357  
2,930,097  
2,933,796  
2,936,505  
2,939,199  
2,940,154  
2,941,277  
2,944,316  
2,948,948  
2,952,888  
2,960,746  
2,962,790  
2,964,822  
2,964,823  
157: 2,922,213  
2,929,126  
2,930,098  
2,946,112  
2,948,949  
2,956,327  
2,960,747

## Class 26

1: 2,930,099  
2: 2,920,372  
2,922,214  
2,934,809  
2,961,733  
9: 2,933,797  
10.4: 2,962,791  
12: 2,960,748  
2,961,734  
16: 2,935,778  
18.5: 2,944,317  
19: 2,925,639  
28: 2,934,810  
29: 2,923,046  
33: 2,923,998  
54: 2,942,322  
2,955,342  
56: 2,929,127  
57: 2,961,735  
60: 2,951,275  
61: 2,923,999  
62: 2,935,779  
2,945,280  
63: 2,925,640  
2,952,889  
2,960,749  
66: 2,947,057  
68: 2,943,375  
69: 2,919,484  
2,923,047  
2,926,414  
2,947,058  
70: 2,936,506

## Class 27

1: 2,943,376  
14: 2,929,128  
17: 2,940,155  
2,945,281  
2,963,766  
19: 2,947,059  
2,964,824  
21: 2,942,323  
27: 2,946,113  
35: 2,940,156

## Class 28

1: 2,921,358  
2,921,359  
2,924,000  
2,924,001  
2,924,868  
2,926,415  
2,931,089  
2,931,090  
2,938,256  
2,938,257  
2,938,258  
2,940,157  
2,943,377  
2,945,282  
2,947,060  
2,949,659  
2,957,224  
2,958,112  
2,958,919  
2,961,736  
2,962,792  
4: 2,930,100  
5: 2,951,276  
8: 2,930,101  
2,936,507  
17: 2,926,416  
20: 2,941,278  
21: 2,936,508  
2,936,509  
2,958,920  
22: 2,942,324  
28: 2,924,869  
2,927,363  
2,927,364  
2,932,076  
2,963,767  
2,964,825  
2,964,826  
32: 2,956,328  
2,964,827  
38: 2,936,510  
2,955,897  
40: 2,935,780  
2,938,259  
43: 2,928,159  
49: 2,961,737  
51: 2,952,890  
2,955,343  
55: 2,924,002  
2,950,518  
2,950,519  
58: 2,944,318  
59.5: 2,930,102  
62: 2,944,319  
2,958,921  
64: 2,929,129  
2,936,511  
2,950,520  
2,955,922  
2,963,768  
2,963,769  
2,964,828  
71.3: 2,930,103  
2,925,643  
2,932,077  
2,935,778  
72: 2,925,641  
2,928,160  
2,932,078  
2,942,325  
2,950,521  
2,952,063  
2,955,344  
2,955,345  
2,956,329  
2,960,750  
2,962,794  
72.2: 2,920,373  
72.3: 2,936,512  
72.5: 2,952,891  
2,921,360  
74: 2,930,104  
2,949,660  
2,952,892  
76: 2,945,283  
2,952,893  
2,955,346  
2,960,752  
2,962,795  
77: 2,959,837  
78: 2,926,417  
2,936,513  
2,942,326  
2,943,378  
2,951,277  
2,956,330  
2,958,923  
2,959,838  
79: 2,943,379  
2,951,278  
2,958,113

80: 2,925,642

2,930,105  
2,930,106  
2,939,200  
2,942,327  
2,943,380  
2,948,950  
2,953,837  
2,956,331  
2,958,114  
81: 2,933,798  
2,953,838  
2,961,738  
82: 2,931,091  
2,932,079  
2,939,201  
2,939,202  
2,948,048  
2,953,839  
2,957,225  
2,959,839

## Class 29

1: 2,947,061  
2,952,894  
2,955,347  
2,963,770  
1.1: 2,943,381  
1.21: 2,920,374  
2,923,048  
2,933,799  
2,939,203  
2,958,116  
1.23: 2,958,922  
1.3: 2,958,115  
6: 2,944,320  
2,959,840  
7.1: 2,948,049  
8: 2,962,796  
14: 2,952,895  
20: 2,921,361  
21: 2,923,049  
2,928,161  
2,945,284  
2,954,598  
21.1: 2,964,829  
25.13: 2,922,216  
2,935,782  
2,943,382  
2,951,279  
25.14: 2,919,485  
2,921,363  
2,932,879  
2,944,322  
25.16: 2,935,783  
25.17: 2,926,419  
2,955,348  
25.19: 2,923,050  
2,927,365  
2,932,877  
25.2: 2,952,897  
2,952,898  
2,952,899  
2,952,900  
2,961,744  
2,963,772  
149.5: 2,931,092  
2,932,081  
2,947,063  
2,952,901  
2,955,350  
2,958,927  
155: 2,939,206  
155.5: 2,920,377  
2,925,645  
2,925,646  
2,928,165  
2,931,093  
2,934,813  
2,934,814  
2,935,785  
2,940,161  
2,942,330  
2,944,324  
2,947,064  
2,948,051  
2,948,954  
2,952,069  
2,955,351  
2,958,120  
2,958,926  
2,958,928  
2,960,754  
2,961,745  
2,961,746  
2,962,801  
2,962,802  
2,963,773  
2,964,835  
155.54: 2,920,378  
2,934,815  
2,963,774

43: 2,921,364

2,961,739  
46: 2,961,740  
57: 2,932,880  
76: 2,922,217  
2,923,052  
2,925,644  
2,933,800  
2,962,798  
78: 2,922,218  
2,930,110  
2,956,333  
2,958,118  
79: 2,949,661  
81: 2,921,365  
2,924,871  
2,928,164  
2,937,431  
2,965,952  
2,962,803  
2,961,741  
2,961,742  
2,963,801  
2,933,802  
2,935,784  
2,948,952  
2,952,067  
2,958,925  
2,959,841  
93: 2,920,376  
2,945,287  
2,950,522  
95: 2,924,872  
2,944,323  
2,950,523  
2,962,799  
2,963,832  
95.1: 2,940,159  
2,943,383  
96: 2,922,219  
2,930,111  
2,937,432  
2,949,662  
2,950,524  
2,955,349  
2,961,743  
97: 2,940,160  
98: 2,959,842  
103: 2,923,053  
2,937,433  
105: 2,930,112  
2,932,080  
2,945,288  
2,947,066  
2,958,119  
106: 2,925,649  
116: 2,960,753  
117: 2,964,834  
148.4: 2,929,131  
2,933,803  
2,946,115  
2,952,897  
2,952,898  
2,952,899  
2,961,744  
2,963,772  
149.5: 2,931,092  
2,932,081  
2,947,063  
2,952,901  
2,955,350  
2,958,927  
155: 2,939,206  
155.5: 2,920,377  
2,925,645  
2,925,646  
2,928,165  
2,931,093  
2,934,813  
2,934,814  
2,935,785  
2,940,161  
2,942,330  
2,944,324  
2,947,064  
2,948,051  
2,948,954  
2,952,069  
2,955,351  
2,958,120  
2,958,926  
2,958,928  
2,960,754  
2,961,745  
2,961,746  
2,962,801  
2,962,802  
2,963,773  
2,964,835  
155.54: 2,920,378  
2,934,815  
2,963,774

155.55: 2,925,647

2,930,113  
2,932,880  
2,932,881  
2,937,434  
2,941,279  
2,942,332  
2,944,323  
2,948,953  
2,953,842  
2,954,600  
2,955,352  
2,957,226  
2,958,929  
2,962,804  
2,963,775  
2,965,952  
155.56: 2,962,803  
155.57: 2,927,366  
2,929,132  
2,942,333  
2,945,289  
2,947,065  
2,952,068  
2,954,601  
2,960,755  
2,961,747  
2,963,776  
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2,964,836  
155.58: 2,920,379  
2,958,930  
2,960,756  
2,964,837  
2,965,954  
155.59: 2,936,515  
2,943,384  
2,949,663  
155.6: 2,965,953  
155.61: 2,958,931  
155.62: 2,957,227  
155.63: 2,933,804  
155.64: 2,958,121  
155.65: 2,933,805  
155.68: 2,927,367  
2,936,516  
155.7: 2,942,331  
155.71: 2,958,932  
2,960,757  
156.4: 2,925,648  
2,938,260  
2,960,758  
156.6: 2,919,486  
156.7: 2,948,052  
156.8: 2,925,649  
2,944,326  
2,944,327  
2,945,290  
2,947,066  
2,952,902  
2,957,228  
2,958,933  
2,959,843  
2,961,748  
2,965,955  
157: 2,927,368  
2,932,077  
2,952,901  
2,956,334  
2,957,229  
2,963,778  
157.1: 2,953,841  
157.3: 2,920,380  
2,927,369  
2,933,806  
2,936,517  
2,940,162  
2,941,280  
2,944,328  
2,948,053  
2,948,054  
2,949,664  
2,953,843  
2,956,335  
2,957,230  
2,958,934  
2,958,935  
2,959,844  
2,961,749  
2,963,779  
157.4: 2,946,116  
2,962,805  
157.5: 2,928,166  
159.01: 2,948,055  
159.2: 2,943,094  
2,964,838  
160: 2,925,650  
169.5: 2,960,759  
2,961,750  
173: 2,922,220  
2,947,067  
182: 2,942,334  
2,963,780

182.2: 2,940,163

182.3: 2,942,874  
2,941,281  
182.5: 2,927,221  
2,927,370  
2,928,167  
2,928,133  
2,945,291  
2,945,292  
2,947,068  
2,948,955  
2,951,280  
2,952,903  
2,957,231  
2,958,936  
182.7: 2,924,875  
2,942,335  
183: 2,963,781  
183.5: 2,940,381  
2,953,844  
2,963,782  
190: 2,960,760  
2,960,761  
2,963,783  
192: 2,957,232  
193.5: 2,944,329  
2,944,330  
2,948,056  
2,954,602  
194: 2,923,048  
2,928,169  
2,952,904  
2,958,937  
2,963,784  
195: 2,939,207  
2,941,282  
2,962,806  
2,964,839  
196.2: 2,937,435  
197: 2,947,069  
198: 2,924,004  
200: 2,921,366  
2,934,816  
2,944,331  
2,965,956  
201: 2,931,095  
2,946,117  
203: 2,934,817  
2,944,332  
2,949,665  
2,952,072  
2,959,845  
2,960,762  
2,961,752  
2,964,840  
2,965,957  
205: 2,920,382  
2,958,122  
206: 2,961,753  
207: 2,953,845  
208: 2,940,164  
2,942,336  
2,958,938  
2,961,754  
209: 2,931,096  
211: 2,922,222  
2,934,818  
2,940,165  
2,944,333  
2,949,666  
2,959,846  
213: 2,943,385  
2,951,281  
214: 2,964,841  
217: 2,965,958  
219: 2,940,166  
225: 2,921,367  
227: 2,948,057  
2,948,058  
229: 2,930,114  
2,958,123  
235: 2,939,208  
2,944,334  
2,944,335  
2,947,070  
2,947,071  
2,958,124  
2,959,847  
2,961,755  
2,961,756  
236: 2,941,283  
2,954,603  
2,957,233  
237: 2,920,383  
2,958,125  
240: 2,925,651  
2,929,134  
2,941,284  
244: 2,921,368  
245: 2,947,072  
252: 2,934,819  
2,950,525  
254: 2,962,807



259: 2,951,282	470.9: 2,932,885	60.5: 2,934,821	<b>Class 32</b>	46: 2,922,225	148: 2,923,062	199: 2,937,452
261: 2,953,846	2,961,761	2,952,911		2,925,656	2,941,298	2,937,453
262: 2,956,336	471.1: 2,940,169	2,958,128	1: 2,929,143	2,935,792	2,956,341	2,940,175
262: 2,924,005	2,943,387	62: 2,935,790	2: 2,934,823	2,941,296	2,928,180	2,941,304
267: 2,940,167	471.5: 2,919,487	90: 2,932,891	2,935,791	2,942,345	161: 2,923,063	201: 2,922,226
2,941,285	2,932,886	91: 2,938,265	2,941,295	2,958,134	164: 2,923,064	203: 2,923,067
2,947,073	2,943,388	2,943,391	4: 2,936,523	2,959,860	2,932,898	203.12: 2,921,379
270: 2,923,054	472.7: 2,920,385	2,960,767	8: 2,920,390	2,964,849	2,933,816	2,953,857
275: 2,932,082	472.9: 2,957,238	92: 2,949,669	10: 2,932,893	46.5: 2,954,608	2,943,395	203.18: 2,958,952
280: 2,924,006	473.3: 2,924,877	95: 2,937,440	12: 2,930,124	2,955,356	2,952,917	204: 2,924,885
2,947,074	474.3: 2,947,078	96: 2,933,810	2,930,125	2,958,135	2,957,248	2,925,662
282: 2,931,097	475: 2,926,421	100: 2,962,814	2,948,963	47: 2,925,657	2,963,792	2,940,176
283: 2,923,055	2,945,294	101: 2,956,339	2,921,371	2,927,375	2,952,076	2,941,305
400: 2,936,518	2,952,906	2,957,241	2,926,422	2,939,217	2,958,136	2,941,306
401: 2,939,209	2,961,762	102: 2,921,369	2,930,126	49: 2,957,245	2,939,220	2,953,858
2,941,286	487: 2,965,963	2,941,291	2,958,945	2,963,788	2,962,817	2,958,953
2,942,337	488: 2,937,438	2,961,765	2,959,856	50: 2,924,881	2,925,659	205: 2,930,137
2,943,386	2,957,239	115: 2,958,943	17: 2,924,011	2,925,658	2,933,817	2,933,820
2,946,118	492: 2,929,137	116: 2,964,844	2,958,946	2,931,101	169: 2,920,395	205.5: 2,940,177
2,951,293	2,937,439	123: 2,952,086	2,963,786	2,937,448	2,926,426	2,940,178
2,951,284	493: 2,944,339	124: 2,925,654	2,933,811	2,942,346	2,932,899	2,943,397
2,953,847	494: 2,945,295	2,938,266	2,937,443	2,951,292	2,941,299	206: 2,921,380
402: 2,944,336	495: 2,947,079	2,939,210	26: 2,949,671	2,932,895	2,952,918	2,928,183
404: 2,941,287	496: 2,945,296	2,946,122	27: 2,921,372	52: 2,927,374	2,958,950	2,939,221
406: 2,930,115	2,958,941	142: 2,938,267	2,923,060	53: 2,932,896	2,965,970	2,958,137
407: 2,920,384	504: 2,932,887	151: 2,924,879	2,924,012	56: 2,963,789	170: 2,924,019	207: 2,919,491
2,926,420	507: 2,924,009	160: 2,930,121	2,928,174	58: 2,946,126	2,936,526	211: 2,948,066
2,953,848	508: 2,965,964	162: 2,948,960	2,937,444	61: 2,940,172	2,952,077	2,961,774
2,958,939	513: 2,932,888	2,948,961	2,945,299	62: 2,931,102	2,953,855	212: 2,948,067
2,959,848	2,948,062	2,960,768	28: 2,924,880	64: 2,963,790	2,959,864	214: 2,946,131
2,965,959	522: 2,923,056	165: 2,941,292	29: 2,924,013	71: 2,924,014	171: 2,957,249	215: 2,952,920
408: 2,942,338	523: 2,958,127	2,963,785	32: 2,928,175	72: 2,925,357	172: 2,921,375	2,956,346
2,951,285	526: 2,932,085	167: 2,921,370	2,946,124	73: 2,933,814	2,932,090	2,946,122
2,961,757	527: 2,930,111	169: 2,951,286	2,952,914	75: 2,920,392	2,960,775	217: 2,965,973
410: 2,929,135	528: 2,930,118	186: 2,948,962	2,959,857	76: 2,928,179	2,946,129	220: 2,924,022
411: 2,948,956	2,931,098	187: 2,939,211	33: Re.24,898	2,928,179	2,921,376	2,930,138
414: 2,925,652	2,947,080	201: 2,941,293	2,937,445	2,931,103	2,923,065	2,933,821
417: 2,929,136	2,961,763	205: 2,953,852	2,950,533	2,934,828	2,924,020	222: 2,924,886
2,932,083	2,962,813	208: 2,959,855	2,958,130	2,947,085	2,924,021	2,957,250
2,938,261	542: 2,932,889	210: 2,938,268	35: 2,930,128	2,929,147	2,926,427	2,941,307
2,944,337	544: 2,927,372	212: 2,951,287	40: 2,937,446	2,929,148	2,929,148	224: 2,924,023
2,947,075	2,932,890	216: 2,964,845	46: 2,947,082	78: 2,942,347	2,930,132	2,959,865
2,959,849	2,938,263	219: 2,946,123	59: 2,921,373	80: 2,954,609	2,930,133	2,959,866
2,965,960	2,941,289	221: 2,928,171	60: 2,958,947	85: 2,919,489	2,932,900	225: 2,943,398
418: 2,936,519	545: 2,941,290	228: 2,930,122	62: 2,944,341	2,931,104	2,937,451	226: 2,922,228
2,957,234	547: 2,935,786	231: 2,934,822	63: 2,964,847	2,931,105	2,938,818	
419: 2,937,436	2,947,081	232: 2,942,340	66: 2,932,894	2,945,302	2,938,273	<b>Class 34</b>
2,940,168	552.3: 2,957,240	240: 2,939,212	2,954,606	2,948,065	2,938,274	1: 2,948,966
2,953,849	553: 2,965,965	245: 2,937,441	2,954,607	2,949,673	2,941,300	2,949,677
2,961,758	555: 2,956,337	247: 2,927,373	2,954,608	2,952,915	2,941,301	2,960,777
420: 2,932,882	558: 2,920,386	248: 2,923,058	2,959,858	86: 2,950,536	2,941,302	5: 2,930,139
2,932,223	2,961,764	2,944,340	<b>Class 33</b>	89: 2,942,348	2,941,303	9: 2,929,150
420.5: 2,922,223	<b>Class 30</b>	2,954,605	1: 2,922,224	90: 2,965,969	2,942,350	10: 2,928,184
2,922,883	2: 2,919,488	2,958,944	2,928,176	94: 2,959,861	2,943,396	2,933,822
2,941,288	2,938,264	249: 2,932,892	2,930,129	95: 2,954,610	2,944,342	2,956,347
421: 2,936,520	4: 2,929,138	251: 2,962,815	2,933,812	98: 2,924,882	2,950,537	12: 2,948,967
2,954,604	2,960,763	254: 2,951,289	2,934,824	107: 2,924,015	2,952,919	17: 2,926,428
422: 2,945,293	2,952,073	255: 2,952,912	2,934,826	112: 2,923,061	2,954,612	18: 2,939,222
423: 2,932,884	6.1: 2,949,668	258: 2,931,100	2,937,447	125: 2,921,374	2,956,342	23: 2,932,901
2,944,338	2,958,942	260: 2,939,213	2,938,270	2,924,016	2,956,344	26: 2,919,492
2,948,957	6.4: 2,933,850	261: 2,929,141	2,940,171	2,924,883	2,960,776	28: 2,920,397
2,950,763	8: 2,950,528	262: 2,964,846	2,945,300	2,932,088	2,961,770	30: 2,931,106
424: 2,937,437	8.5: 2,935,787	266: 2,939,214	2,945,301	2,948,965	2,961,771	32: 2,934,830
2,938,262	10: 2,933,807	2,942,341	2,947,082	2,954,611	2,963,793	36: 2,952,921
2,947,076	2,936,521	272: 2,938,269	2,949,673	2,958,949	2,964,850	43: 2,928,185
2,950,526	15: 2,925,653	2,945,298	2,951,291	2,963,791	2,964,850	45: 2,929,151
2,957,235	16: 2,924,878	2,956,340	2,952,074	126: 2,930,131	2,949,674	2,950,539
2,960,764	2,943,389	275: 2,952,913	2,952,075	126.7: 2,937,449	2,923,066	177: 2,923,066
2,962,808	2,956,338	276: 2,930,123	2,958,948	2,942,349	2,920,396	178: 2,920,396
427: 2,948,059	2,964,842	293: 2,920,388	2,960,770	2,929,145	2,925,660	46: 2,920,398
428: 2,949,667	2,964,843	2,924,010	2,961,767	2,929,146	2,927,377	48: 2,919,493
2,952,905	28: 2,960,766	2,940,170	2,946,125	127: 2,929,145	2,928,181	2,921,381
2,960,765	29: 2,955,354	304: 2,962,816	2,942,344	128: 2,946,127	2,928,182	2,921,382
429: Re.24,852	29.5: 2,946,121	307: 2,920,389	2,948,964	129: 2,926,424	2,930,134	2,933,823
2,927,371	30: 2,955,355	315: 2,949,670	2,959,859	2,937,450	2,933,819	2,936,527
430: 2,947,077	31: 2,959,853	324: 2,939,216	2,960,771	132: 2,946,136	2,946,130	2,941,308
431: 2,958,940	34: 2,952,907	325: 2,923,059	23: 2,929,144	134: 2,936,525	2,947,086	52: 2,942,352
432: 2,948,958	35: 2,953,851	327: 2,942,342	2,933,813	2,938,271	2,949,675	56: 2,944,345
433: 2,958,126	37: 2,933,808	329: 2,951,290	2,958,131	2,960,773	2,950,538	57: 2,921,383
444: 2,928,170	41.5: 2,933,809	340: 2,941,294	2,961,768	136: 2,951,293	2,958,951	2,924,887
445: 2,962,809	43: 2,920,387	341: 2,965,967	2,963,791	137: 2,929,146	2,924,884	2,929,152
2,962,810	2,923,057	342: 2,961,766	2,963,792	138: 2,920,393	2,938,275	2,933,824
446: 2,948,959	2,929,139	353: 2,950,531	2,963,793	143: 2,926,425	2,944,343	58: 2,939,223
450: 2,924,007	2,930,119	358: 2,943,392	2,963,794	147: 2,924,017	2,949,676	60: 2,941,309
451: 2,924,008	2,931,099	361: 2,943,392	2,963,795	2,924,018	2,956,345	63: 2,936,528
452: 2,961,759	2,935,788	362: 2,943,393	2,963,796	2,924,019	2,965,971	65: 2,941,310
454: 2,930,116	2,935,789	363: 2,943,394	2,963,797	2,924,020	2,967,249	66: 2,937,454
2,948,060	2,943,390	364: 2,943,395	2,963,798	180: 2,930,135	2,968,793	68: 2,952,078
2,965,961	2,943,391	365: 2,943,396	2,963,799	181: 2,921,377	2,940,174	69: 2,933,825
455: 2,961,760	2,943,392	366: 2,943,397	2,963,800	184.5: 2,930,136	2,921,377	72: 2,929,153
2,962,811	2,943,393	367: 2,943,398	2,963,801	2,924,018	2,930,136	75: 2,921,384
458: 2,924,876	2,943,394	368: 2,943,399	2,963,802	2,924,019	2,925,663	2,925,663
2,950,527	2,943,395	369: 2,943,400	2,963,803	185: 2,919,490	2,929,149	77: 2,940,177
2,959,850	2,943,396	370: 2,943,401	2,963,804	189: 2,934,829	2,942,351	79: 2,925,664
2,959,851	2,943,397	371: 2,943,402	2,963,805	2,946,128	2,945,359	82: 2,925,665
460: 2,932,084	2,943,398	372: 2,943,403	2,963,806	2,953,854	2,959,867	2,942,353
463: 2,942,339	2,943,399	373: 2,943,404	2,963,807	2,957,247	2,964,851	2,959,867
469: 2,955,353	2,943,400	374: 2,943,405	2,963,808	2,959,863	2,965,972	86: 2,933,826
470: 2,946,119	2,943,401	375: 2,943,406	2,963,809	2,960,774		92: 2,929,154
2,946,120	2,943,402	376: 2,943,407	2,963,810			2,952,922
470.1: 2,957,236	2,943,403	377: 2,943,408	2,963,811			95: 2,919,494
2,965,962	2,943,404	378: 2,943,409	2,963,812			
470.5: 2,957,237	2,943,405	379: 2,943,410	2,963,813			



## Class 34—Con.

- 95: 2,927,379  
2,938,276  
2,961,775  
2,964,852  
100: 2,964,853  
102: 2,925,666  
2,954,613  
103: 2,936,529  
104: 2,923,068  
105: 2,949,678  
112: 2,929,155  
114: 2,919,495  
2,931,107  
115: 2,919,496  
2,922,229  
2,950,540  
2,964,854  
121: 2,959,868  
124: 2,932,091  
2,956,348  
125: 2,934,831  
130: 2,960,778  
133: 2,927,380  
2,948,068  
2,949,679  
2,958,138  
2,958,139  
2,958,140  
2,961,776  
135: 2,959,869  
137: 2,930,140  
151: 2,919,497  
2,922,230  
2,959,870  
156: Re.24,871  
2,948,968  
159: 2,920,399  
2,926,429  
2,932,092  
2,932,902  
2,932,903  
163: 2,940,180  
167: 2,962,818  
170: 2,946,132  
176: 2,932,904  
203: 2,964,855  
213: 2,932,905  
225: 2,934,832  
2,951,294  
2,965,974  
238: 2,950,541

## Class 35

- 1: 2,928,186  
2,952,079  
2: 2,930,141  
2,952,080  
3: 2,924,888  
4: 2,934,833  
2,964,856  
5: 2,931,108  
6: 2,962,819  
7: 2,942,354  
8: 2,927,381  
2,933,827  
2,935,793  
2,948,069  
9: 2,921,385  
2,922,232  
2,924,024  
2,924,025  
2,924,889  
2,934,834  
2,937,455  
2,943,399  
2,943,400  
2,945,303  
2,947,087  
2,948,969  
2,953,859  
2,961,777  
2,965,975  
10: 2,924,890  
10.2: 2,924,891  
2,928,187  
2,938,277  
2,942,355  
2,947,088  
2,951,295  
2,961,296  
2,965,976  
10.4: 2,924,026  
2,924,892  
2,929,156  
2,929,157  
2,930,142  
2,932,093  
2,934,835  
2,937,458

- 10.4: 2,938,278  
2,941,311  
2,944,346  
2,948,970  
2,951,297  
2,955,360  
2,955,361  
2,960,779  
11: 2,935,794  
12: 2,924,027  
2,924,028  
2,924,893  
2,925,667  
2,926,430  
2,926,431  
2,927,382  
2,928,188  
2,930,143  
2,930,144  
2,932,094  
2,933,828  
2,934,836  
2,935,795  
2,935,796  
2,937,457  
2,937,458  
2,938,279  
2,938,280  
2,940,181  
2,943,401  
2,943,402  
2,944,347  
2,944,348  
2,947,089  
2,951,298  
2,954,614  
2,955,362  
2,958,141  
2,958,955  
2,961,778  
2,963,794  
2,963,795  
2,964,857  
2,965,977  
13: 2,929,158  
2,952,081  
14: 2,923,069  
2,947,090  
16: 2,933,829  
2,936,530  
2,958,142  
17: 2,945,304  
2,947,091  
18: 2,920,400  
2,920,401  
2,942,356  
2,942,357  
2,953,860  
2,962,820  
19: 2,924,894  
2,935,797  
2,945,305  
2,949,680  
22: 2,928,189  
2,945,306  
2,958,956  
2,959,871  
2,963,796  
23: 2,937,459  
2,946,133  
2,946,134  
2,956,349  
2,965,978  
24: 2,924,895  
2,925,668  
2,925,669  
2,931,109  
25: 2,922,233  
2,928,190  
2,940,182  
2,958,957  
2,965,979  
26: 2,932,095  
2,932,906  
2,954,615  
2,963,797  
28.3: 2,938,281  
2,941,312  
29: 2,930,145  
2,934,837  
2,939,224  
2,942,358  
2,946,134  
30: 2,949,681  
31: 2,919,498  
2,926,432  
2,930,146  
2,936,531  
2,946,135  
2,950,542  
2,965,980  
34: 2,929,159  
35: Re.24,910

- 35: 2,919,499  
2,919,500  
2,924,896  
2,925,670  
2,938,282  
2,945,307  
2,946,137  
2,950,543  
2,950,544  
36: 2,952,923  
40: 2,958,958  
44: 2,921,386  
45: 2,963,798  
46: 2,927,383  
2,932,907  
2,939,225  
2,941,313  
2,949,682  
2,957,251  
2,957,252  
2,958,959  
48: 2,932,908  
2,936,532  
2,946,138  
2,947,092  
2,952,924  
2,954,616  
49: 2,930,147  
2,949,683  
50: 2,940,183  
2,955,363  
53: 2,941,314  
54: 2,944,349  
56: 2,919,501  
2,965,981  
59: 2,919,502  
2,921,387  
63: 2,951,299  
2,956,350  
65: 2,947,093  
66: 2,955,364  
2,958,960  
73: 2,921,388  
2,922,234  
2,929,160  
2,937,460  
2,958,961  
2,961,779  
2,964,859  
74: 2,932,909  
2,959,872  
75: 2,923,070

## Class 36

- 1: 2,940,184  
2,941,315  
2: 2,945,308  
2,953,830  
2,934,838  
2,935,798  
2,936,533  
2,948,070  
2,948,971  
2,952,925  
2,958,962  
2,959,873  
2,965,982  
4: 2,933,831  
4.5: 2,932,910  
2,947,094  
7.1: 2,924,029  
7.3: 2,946,139  
7.5: 2,933,832  
2,958,963  
7.7: 2,932,096  
2,956,351  
7.8: 2,953,861  
8.5: 2,928,191  
2,932,911  
2,933,833  
2,933,834  
2,942,359  
2,945,309  
2,948,972  
2,952,082  
2,963,799  
2,963,800  
2,965,983  
9: 2,919,503  
2,926,433  
2,934,839  
2,943,403  
10: 2,958,964  
11: 2,926,434  
2,952,926  
11.5: 2,932,097  
2,945,310  
2,947,095  
2,954,617  
2,957,253  
13: 2,922,235

- 15: 2,930,143  
2,953,862  
16: 2,950,545  
2,958,965  
17: 2,921,389  
19.5: 2,946,140  
24.5: 2,936,534  
25: 2,936,535  
2,954,618  
28: 2,930,149  
30: 2,931,110  
32: 2,928,192  
34: 2,932,098  
2,934,840  
2,935,799  
2,938,283  
2,959,874  
35: 2,955,365  
36: 2,923,071  
2,932,099  
2,937,461  
2,940,185  
2,945,311  
2,956,352  
40: 2,923,072  
2,925,671  
2,949,684  
42: 2,935,800  
2,940,186  
2,943,404  
43: 2,940,187  
46.5: 2,955,366  
50: 2,925,672  
51: 2,958,966  
58.5: 2,926,435  
2,930,150  
58.6: 2,920,402  
59: 2,941,316  
61: 2,920,403  
2,920,404  
2,952,927  
68: 2,936,536  
2,946,141  
71: 2,928,193  
2,933,835  
2,938,284  
2,943,405  
2,949,685  
2,959,875  
2,961,780  
2,961,781  
2,965,984  
72: Re.24,897  
2,927,384  
2,932,912  
2,937,462  
2,941,317  
78: 2,922,236

## Class 37

- 2: 2,932,100  
2,943,406  
2,950,546  
2,964,860  
4: 2,931,111  
2,944,350  
8: 2,956,353  
19: 2,936,537  
42: 2,955,367  
2,955,368  
43: 2,944,351  
53: 2,919,504  
2,933,836  
2,950,547  
2,958,143  
54: 2,944,352  
61: 2,961,782  
63: 2,956,354  
65: 2,933,837  
67: 2,926,436  
2,950,548  
2,963,801  
71: 2,952,083  
72: 2,926,437  
80: 2,946,142  
86: 2,919,505  
2,935,801  
89: 2,940,188  
91: 2,942,360  
2,944,353  
92: 2,923,073  
2,946,143  
2,965,985  
94: 2,934,841  
2,952,928  
97: 2,940,189  
2,940,190  
2,956,355  
98: 2,942,361  
2,955,369  
99: 2,937,463

- 104: 2,921,390  
2,924,030  
2,924,897  
2,950,549  
105: 2,965,986  
108: 2,953,863  
2,957,254  
2,965,987  
110: 2,939,226  
117.5: 2,927,385  
2,932,101  
2,935,802  
2,952,084  
124: 2,935,803  
126: 2,922,237  
2,930,151  
2,931,112  
2,932,102  
2,941,318  
2,964,861  
2,965,988  
129: 2,923,074  
2,946,144  
2,949,686  
2,953,864  
130: 2,930,152  
2,932,103  
135: 2,957,255  
142: 2,919,506  
2,921,391  
2,925,673  
2,927,386  
2,927,387  
2,934,842  
2,936,538  
2,939,227  
2,940,191  
2,940,192  
2,949,687  
2,951,300  
2,952,085  
143: 2,940,193  
2,946,145  
2,964,862  
2,965,989  
144: 2,921,392  
2,927,388  
2,927,389  
2,933,838  
2,938,285  
2,942,362  
2,942,363  
2,943,407  
2,947,096  
2,948,973  
2,950,550  
2,963,802  
2,964,863  
145: 2,920,405  
2,950,551  
2,952,929  
2,947,097  
2,957,256  
156: 2,941,319  
2,961,783  
163: 2,959,876  
168: 2,964,864  
184: 2,923,075  
190: 2,926,438  
191: 2,962,822  
192: 2,946,146

## Class 38

- 2: 2,946,147  
2,960,780  
3: 2,964,865  
5: 2,938,286  
2,939,228  
11: 2,924,898  
12: 2,923,076  
14: 2,924,899  
22: 2,933,839  
2,949,688  
25: 2,958,967  
28: 2,961,784  
30: 2,939,229  
2,954,619  
36: 2,919,507  
41: 2,939,231  
2,948,071  
49: 2,931,113  
2,940,194  
57: 2,930,153  
59: 2,956,356  
66: 2,947,098  
77: 2,928,194  
2,940,195  
2,952,086  
2,963,803  
89: 2,957,257

- 100: 2,920,406  
104: 2,923,077  
105: 2,947,099  
111: 2,941,320  
121: 2,944,354  
127: 2,963,804  
135: 2,955,370  
139: 2,939,232  
2,939,233  
2,950,552  
144: 2,950,553

## Class 39

- 8: 2,924,031  
22: 2,925,674

## Class 40

- 1.5: 2,926,439  
2,930,154  
2: 2,929,161  
2,930,155  
2,934,843  
2,936,539  
2,937,464  
2,940,196  
2,953,865  
2,963,805  
2.2: 2,932,913  
5: 2,934,844  
10: 2,920,407  
2,923,078  
2,925,675  
2,931,114  
2,935,804  
2,948,072  
2,952,930  
10.5: 2,935,805  
11: 2,921,393  
2,924,900  
2,924,901  
2,930,156  
2,941,321  
16: 2,924,032  
2,950,554  
2,952,087  
2,964,866  
17: 2,928,195  
2,951,301  
20: 2,950,555  
21: 2,919,508  
2,926,440  
2,954,620  
2,954,621  
2,954,622  
2,961,785  
23: 2,962,824  
27.5: 2,957,258  
28.3: 2,956,357  
30: 2,951,302  
31: 2,935,806  
32: 2,923,079  
2,943,408  
2,947,100  
33: 2,941,322  
34: 2,946,148  
36: 2,938,287  
2,948,974  
2,957,259  
39: 2,953,866  
2,965,991  
52: 2,920,408  
53: 2,947,101  
63: 2,919,509  
2,936,540  
2,942,364  
2,943,409  
2,944,355  
2,954,623  
65: 2,963,806  
68: 2,945,312  
2,955,372  
70: 2,956,358  
79: 2,931,115  
2,931,116  
2,938,288  
2,940,197  
2,942,365  
2,954,624  
86: 2,928,196  
2,952,931  
102: 2,959,877  
104: 2,957,260  
2,960,781  
106.1: 2,943,410  
2,944,356  
2,948,975  
2,962,825  
106.22: 2,924,033  
106.25: 2,919,510  
106.3: 2,958,144  
2,959,878

- 106.31: 2,960,782  
106.53: 2,963,807  
107: 2,965,992  
111: 2,933,840  
113: 2,919,511  
2,932,104  
2,932,914  
2,952,932  
114: 2,921,394  
115: 2,947,102  
119: 2,934,845  
120: 2,926,441  
2,954,625  
2,958,968  
2,960,783  
122: 2,920,409  
124: 2,939,234  
2,951,303  
2,959,879  
2,963,808  
125: 2,925,676  
2,926,442  
2,932,105  
2,934,843  
2,938,289  
2,942,366  
2,948,976  
2,954,626  
2,954,627  
2,960,784  
2,960,785  
2,961,786  
126: 2,920,410  
2,954,628  
128: 2,961,787  
129: 2,933,841  
2,942,367  
2,954,629  
2,957,261  
130: 2,923,080  
2,924,034  
2,924,902  
2,924,905  
2,924,935  
2,928,197  
2,932,106  
2,940,198  
2,945,313  
2,948,073  
2,958,969  
2,959,880  
131: 2,928,198  
132: 2,929,162  
2,939,235  
2,941,323  
2,956,359  
135: 2,931,117  
2,962,826  
136: 2,938,290  
137: 2,961,788  
138: 2,924,036  
2,938,291  
140: 2,947,103  
2,956,360  
142: 2,959,881  
152: 2,931,118  
2,957,262  
2,958,970  
2,958,971  
2,959,882  
2,961,789  
152.1: 2,919,512  
2,928,199  
2,954,630  
154: 2,950,556  
158: 2,926,443  
2,926,444  
2,935,807  
2,942,368  
2,948,977  
2,951,304  
2,963,809  
159: 2,925,677  
209: 2,921,395  
300: 2,954,631  
2,956,361  
301: 2,940,199  
2,942,365  
302: 2,924,903  
308: 2,962,827  
309: 2,958,145  
310: 2,928,200  
311: 2,930,236  
2,939,237  
315: 2,924,037  
324: 2,945,314  
2,962,828  
2,962,829  
330: 2,932,107  
331: 2,954,632  
336: 2,955,371  
337: 2,962,823



Class 41

3: 2,957,263  
4: 2,938,292  
5: 2,928,081  
9: 2,958,146  
10: 2,920,412  
2,920,412  
2,922,238  
2,925,678  
2,928,201  
2,945,315  
2,956,362  
11: 2,922,239  
15: 2,953,867  
17: 2,961,790  
19: 2,958,148  
22: 2,931,119  
23: 2,948,074  
26: 2,949,689  
26: 2,964,867  
14: 2,937,931  
2,960,787  
37: 2,959,149  
39: 2,951,305  
42: 2,923,608  
2,925,332  
2,926,076  
2,927,011  
2,931,713  
2,938,774  
2,939,772  
2,940,836  
2,940,837  
2,940,838  
2,941,875  
2,942,954  
2,942,955  
2,942,956  
2,947,615  
2,952,528  
2,955,027  
2,955,927  
43: 2,950,181  
2,962,364

Class 42

1: 2,921,396  
2,948,978  
2,952,933  
16: 2,919,513  
2,922,240  
2,940,201  
2,952,088  
2,961,791  
2,963,810  
17: 2,926,445  
18: 2,931,120  
2,932,108  
2,933,842  
25: 2,929,163  
2,948,075  
28: 2,952,934  
41: 2,961,792  
50: 2,944,357  
2,956,365  
57: 2,930,157  
2,941,325  
2,958,150  
2,962,830  
58: 2,944,358  
59: 2,955,373  
65: 2,927,390  
66: 2,943,411  
2,945,316  
67: 2,958,151  
69: 2,920,413  
2,922,241  
2,926,446  
2,935,808  
2,940,202  
2,943,412  
2,960,788  
2,965,993  
70: 2,926,447  
2,942,369  
71: 2,926,448  
2,965,994  
74: 2,924,904  
2,925,679  
75: 2,941,326  
2,958,974  
76: 2,929,164  
2,952,089  
79: 2,922,242  
2,932,915  
2,937,465  
85: 2,933,843  
89: 2,944,359

Class 43

3: 2,929,165  
2,942,370  
2,947,104  
2,952,090  
4: 2,929,166  
2,948,979  
4.5: 2,925,680  
6: 2,951,306  
2,963,811  
7: 2,921,397  
9: 2,942,371  
2,948,980  
2,950,557  
11: 2,939,238  
12: 2,939,239  
2,954,633  
15: 2,921,696  
2,931,121  
2,932,109  
2,934,847  
2,934,848  
2,942,372  
2,964,868  
16: 2,924,038  
2,944,360  
2,944,361  
2,948,981  
2,955,374  
17: 2,921,399  
2,922,243  
2,923,082  
2,924,905  
2,929,167  
2,930,158  
2,931,122  
2,933,844  
2,934,849  
2,936,541  
2,939,240  
2,947,105  
2,948,076  
2,962,831  
2,964,869  
17.1: 2,927,391  
2,932,110  
17.2: 2,926,449  
2,940,203  
2,948,077  
2,950,558  
17.6: 2,955,375  
19: 2,932,111  
2,933,845  
2,948,078  
2,952,091  
2,958,975  
2,965,995  
20: 2,957,264  
21: 2,943,413  
22: 2,926,445  
2,955,376  
25.2: 2,943,414  
26.1: 2,951,307  
26.2: 2,922,244  
2,952,335  
35: 2,955,377  
36: 2,949,690  
41: 2,931,123  
2,937,456  
42.02: 2,932,112  
2,950,559  
2,964,870  
42.04: 2,956,364  
42.06: 2,922,245  
2,922,246  
2,937,467  
2,944,362  
2,952,092  
42.08: 2,960,789  
42.09: 2,923,083  
2,940,204  
2,954,634  
42.13: 2,935,809  
42.14: 2,926,415  
42.15: 2,948,982  
42.16: 2,940,205  
42.18: 2,946,149  
2,948,983  
42.19: 2,950,560  
42.21: 2,952,336  
42.22: 2,944,363  
2,963,812  
2,965,996  
42.24: 2,938,293  
42.26: 2,955,378  
42.33: 2,938,294  
2,956,366  
42.35: 2,923,084  
2,924,906  
2,933,846  
2,940,206

Class 44

2,955,379  
2,955,380  
42.36: 2,927,392  
42.39: 2,948,984  
42.4: 2,948,079  
42.43: 2,921,400  
42.44: 2,932,113  
42.47: 2,945,318  
2,957,265  
2,958,152  
42.48: 2,965,997  
42.5: 2,925,681  
2,945,317  
2,959,883  
42.74: 2,930,159  
2,933,847  
2,935,810  
2,961,793  
43.1: 2,925,682  
2,926,452  
2,937,468  
43.11: 2,924,039  
2,934,850  
2,963,813  
43.12: 2,928,202  
2,932,115  
2,938,295  
2,958,976  
2,959,884  
43.13: 2,920,414  
2,923,085  
2,924,907  
2,933,848  
2,940,207  
2,965,998  
43.14: 2,958,153  
43.15: 2,952,337  
43.16: 2,938,296  
43.2: 2,938,295  
43.4: 2,948,985  
43.6: 2,932,114  
44.2: 2,927,393  
44.6: 2,926,453  
2,932,116  
2,940,208  
2,962,832  
2,962,833  
2,962,834  
44.8: 2,922,247  
44.83: 2,926,454  
44.84: 2,929,168  
44.87: 2,965,999  
44.88: 2,937,469  
2,957,266  
2,957,267  
2,966,000  
44.9: 2,931,124  
44.91: 2,929,169  
44.95: 2,966,001  
44.97: 2,945,324  
44.99: 2,941,327  
53.5: Re.24,902  
2,931,125  
2,932,117  
2,947,106  
2,958,977  
54.5: 2,948,080  
2,956,365  
55: 2,923,086  
2,923,087  
2,948,986  
2,949,691  
2,966,002  
56: 2,927,394  
2,962,835  
2,963,814  
57: 2,936,542  
2,951,309  
57.5: 2,920,415  
2,924,908  
2,927,395  
2,932,118  
2,963,815  
58: 2,962,836  
81: 2,950,561  
92: 2,928,203  
2,947,107  
102: 2,950,562  
105: 2,935,811  
107: 2,928,204  
112: 2,941,328  
2,951,310  
129: 2,926,455  
131: 2,921,401  
2,944,364  
2,952,938  
2,953,868  
2,956,366  
2,964,871  
137: 2,931,126  
2,934,851  
2,963,816

Class 45

2,931,127  
2,950,563  
2,924,040  
2,926,456  
2,950,564  
2,958,154  
148: 2,940,209  
2,944,365  
2,957,268  
2,958,155

Class 46

1: 2,966,400  
2,935,388  
2,955,028  
3: 2,953,443  
6: 2,948,594  
7: 2,922,702  
2,922,703  
2,966,401  
10: 2,937,080  
14: 2,933,378  
15: 2,922,704  
24: 2,922,705  
26: 2,956,868  
35: 2,939,773  
40: 2,955,029  
2,963,352  
50: 2,949,350  
51: 2,929,694  
2,934,415  
52: 2,948,595  
56: 2,929,995  
2,936,223  
57: 2,927,012  
58: 2,922,706  
2,948,596  
2,965,458  
59: 2,925,333  
62: 2,927,013  
2,938,775  
63: 2,958,590  
2,919,979  
2,920,944  
2,930,680  
2,931,714  
2,933,379  
2,939,774  
2,940,839  
2,942,957  
2,948,597  
2,950,960  
2,953,444  
2,956,869  
2,958,591  
2,961,308  
2,965,459  
66: 2,922,707  
2,922,708  
2,928,727  
2,929,696  
2,935,389  
2,943,924  
2,943,925  
2,948,598  
69: 2,933,380  
2,935,390  
2,936,224  
2,937,932  
2,938,776  
2,948,599  
2,948,600  
70: 2,937,933  
2,941,876  
2,956,870  
72: 2,945,749  
2,961,309  
74: 2,930,681  
2,962,365  
75: 2,959,472  
76: 2,932,560  
2,959,473  
2,965,460  
77: 2,921,843  
2,938,777

Class 47

2,932,127  
2,950,563  
2,924,040  
2,926,456  
2,950,564  
2,958,154  
148: 2,940,209  
2,944,365  
2,957,268  
2,958,155

Class 48

1: 2,925,687  
2,935,817  
2,945,154  
2,947,109  
2,950,566  
2,951,314  
1.1: 2,928,210  
1.2: 2,928,211  
2,940,218  
2,952,096  
2,956,370  
1.5: 2,935,818  
2,961,798  
9: 2,945,322  
2,949,698  
2,961,799  
12: 2,932,127  
17: 2,950,567  
2,963,819  
21: 2,953,870  
32: 2,940,219  
33: 2,960,797  
34: 2,939,247  
2,960,798  
37: 2,930,162  
2,939,248  
2,945,323  
2,960,794  
2,961,795  
141: 2,934,857  
149: 2,942,378  
150: 2,924,042  
153: 2,929,170  
154: 2,931,130  
2,932,125  
156: 2,921,407  
2,944,368  
157: 2,927,400  
165: 2,966,005  
166: 2,938,302  
167: 2,931,138  
169: 2,954,641  
2,963,818  
173: 2,925,683  
2,925,684  
2,931,139  
2,934,858  
175: 2,923,091  
2,924,043  
2,939,244  
2,940,215  
2,946,152  
2,962,837  
177: 2,958,157  
180: 2,928,208  
2,928,209  
2,936,547  
189: 2,925,685  
201: 2,958,980  
202: 2,941,332  
2,946,153  
205: 2,937,475  
220: 2,938,303  
2,952,095  
2,960,795  
226: 2,964,876  
227: 2,957,273  
228: 2,932,917  
2,933,853  
2,941,333  
2,942,379  
2,959,892  
232: 2,922,253  
2,942,380  
2,954,642  
236: 2,961,796  
238: 2,940,216  
240: 2,952,941  
241: 2,925,686  
2,939,245  
242: 2,945,320  
243: 2,920,420  
2,932,126  
2,939,246  
2,949,695  
2,949,696  
2,949,124  
2,952,942  
244: 2,921,408  
2,923,092  
2,940,217  
2,943,418  
2,961,797  
245: 2,924,909  
2,932,918

Class 49

2,932,127  
2,950,563  
2,924,040  
2,926,456  
2,950,564  
2,958,154  
148: 2,940,209  
2,944,365  
2,957,268  
2,958,155

Class 50

1: 2,925,687  
2,935,817  
2,945,154  
2,947,109  
2,950,566  
2,951,314  
1.1: 2,928,210  
1.2: 2,928,211  
2,940,218  
2,952,096  
2,956,370  
1.5: 2,935,818  
2,961,798  
9: 2,945,322  
2,949,698  
2,961,799  
12: 2,932,127  
17: 2,950,567  
2,963,819  
21: 2,953,870  
32: 2,940,219  
33: 2,960,797  
34: 2,939,247  
2,960,798  
37: 2,930,162  
2,939,248  
2,945,323  
2,960,794  
2,961,795  
141: 2,934,857  
149: 2,942,378  
150: 2,924,042  
153: 2,929,170  
154: 2,931,130  
2,932,125  
156: 2,921,407  
2,944,368  
157: 2,927,400  
165: 2,966,005  
166: 2,938,302  
167: 2,931,138  
169: 2,954,641  
2,963,818  
173: 2,925,683  
2,925,684  
2,931,139  
2,934,858  
175: 2,923,091  
2,924,043  
2,939,244  
2,940,215  
2,946,152  
2,962,837  
177: 2,958,157  
180: 2,928,208  
2,928,209  
2,936,547  
189: 2,925,685  
201: 2,958,980  
202: 2,941,332  
2,946,153  
205: 2,937,475  
220: 2,938,303  
2,952,095  
2,960,795  
226: 2,964,876  
227: 2,957,273  
228: 2,932,917  
2,933,853  
2,941,333  
2,942,379  
2,959,892  
232: 2,922,253  
2,942,380  
2,954,642  
236: 2,961,796  
238: 2,940,216  
240: 2,952,941  
241: 2,925,686  
2,939,245  
242: 2,945,320  
243: 2,920,420  
2,932,126  
2,939,246  
2,949,695  
2,949,696  
2,949,124  
2,952,942  
244: 2,921,408  
2,923,092  
2,940,217  
2,943,418  
2,961,797  
245: 2,924,909  
2,932,918



## Class 47—Con.

60: P.P.2,003

P.P.2,004

P.P.2,005

P.P.2,006

P.P.2,007

P.P.2,008

61: P.P.1,893

P.P.1,894

P.P.1,896

P.P.1,897

P.P.1,898

P.P.1,899

P.P.1,900

P.P.1,903

P.P.1,904

P.P.1,905

P.P.1,906

P.P.1,907

P.P.1,908

P.P.1,909

P.P.1,910

P.P.1,911

P.P.1,912

P.P.1,913

P.P.1,914

P.P.1,915

P.P.1,917

P.P.1,919

P.P.1,937

P.P.1,939

P.P.1,943

P.P.1,944

P.P.1,945

P.P.1,948

P.P.1,950

P.P.1,951

P.P.1,952

P.P.1,958

P.P.1,961

P.P.1,962

P.P.1,964

P.P.1,965

P.P.1,969

P.P.1,970

P.P.1,971

P.P.1,981

P.P.1,982

P.P.1,984

P.P.1,985

P.P.1,986

P.P.1,987

P.P.1,990

P.P.1,991

P.P.1,998

P.P.1,999

P.P.2,000

62: P.P.1,895

P.P.1,901

P.P.1,916

P.P.1,921

P.P.1,925

P.P.1,929

P.P.1,930

P.P.1,935

P.P.1,936

P.P.1,941

P.P.1,946

P.P.1,947

P.P.1,949

P.P.1,954

P.P.1,955

P.P.1,963

P.P.1,966

P.P.1,967

P.P.1,974

P.P.1,975

P.P.1,976

P.P.1,989

P.P.1,992

P.P.1,993

P.P.1,994

## Class 48

38: 2,951,748

63: 2,919,980

2,931,715

2,957,758

2,965,461

86: 2,925,334

180: 2,924,514

2,939,775

2,939,776

2,957,759

2,965,462

184: 2,927,848

2,962,366

190: 2,930,682

2,953,871

193: 2,958,592

195: 2,919,981

2,921,844

2,935,391

196: 2,941,877

2,942,958

2,951,749

2,963,353

2,966,402

197: 2,942,959

2,951,750

2,920,945

2,924,515

2,925,335

2,946,670

2,961,310

2,962,367

2,963,354

2,963,355

2,965,463

2,926,077

2,921,845

2,923,609

2,927,847

2,932,561

2,940,840

2,942,960

2,953,445

2,920,946

2,917,917

2,919,919

2,937,937

2,939,939

2,943,920

2,933,855

2,947,113

2,948,988

2,950,568

2,954,644

2,964,878

2,923,098

2,934,860

2,940,220

2,961,800

2,948,989

2,951,315

2,957,275

2,926,457

2,957,276

2,958,159

2,935,819

2,950,569

2,952,943

2,957,277

2,939,249

2,942,382

2,949,701

2,920,421

2,955,383

2,956,371

2,928,212

2,928,213

2,952,097

2,960,800

2,963,820

2,958,242

17.1: 2,952,944

2,958,160

33: 2,941,334

35: 2,966,006

40: 2,928,214

2,964,879

45: 2,920,422

2,921,411

2,948,990

48: 2,924,044

2,948,991

2,952,098

53: 2,947,114

2,960,570

54: 2,926,458

2,936,549

2,945,325

2,955,384

55: 2,932,921

2,941,335

2,950,571

2,963,821

58: 2,945,326

2,947,115

61: 2,950,572

65: 2,922,255

2,937,476

67: 2,920,423

2,920,424

2,924,045

2,925,688

2,933,856

2,936,550

2,941,336

2,943,420

2,950,573

2,953,871

2,961,801

67: 2,963,822

72: 2,966,007

77: 2,932,922

2,933,857

2,951,316

2,958,161

2,960,801

2,960,802

2,962,838

2,964,880

78: 2,943,327

2,956,372

78.1: 2,924,046

2,948,082

79: 2,932,129

2,947,116

81: 2,940,221

2,946,156

2,949,702

2,950,574

2,955,385

2,955,386

2,959,894

82: 2,922,256

2,923,099

2,951,317

2,964,881

82.1: 2,958,162

2,963,823

84: 2,940,222

2,926,461

85: 2,926,459

2,931,141

2,937,477

2,963,824

89: 2,947,117

2,956,373

2,956,374

92: 2,931,142

92.5: 2,948,992

2,943,421

2,948,083

13: 2,943,582

22: 2,946,157

2,960,803

25: 2,952,945

43: 2,947,267

52: 2,944,370

2,961,802

64: 2,944,371

66: 2,953,872

2,963,825

72: 2,951,318

2,964,882

82: 2,962,839

100: 2,954,645

107: 2,949,703

114: 2,948,993

127: 2,950,575

2,963,826

128: 2,950,576

2,956,375

129: 2,959,895

132: 2,966,008

144: 2,958,982

168: 2,953,873

173: 2,948,994

179: 2,948,995

183: 2,959,896

186: 2,961,803

193: 2,944,372

202: 2,947,118

218: 2,959,897

224: 2,959,898

238: 2,961,804

262: 2,954,646

273: 2,957,278

283: 2,945,328

346: 2,958,983

354: 2,949,763

370: 2,963,827

413: 2,946,158

416: 2,961,805

425: 2,963,828

426: 2,948,084

442: 2,966,009

464: 2,949,704

465: 2,952,099

466: 2,947,119

468: 2,957,279

474: 2,952,946

2,954,647

475: 2,952,947

476: 2,953,874

479: 2,945,329

536: 2,949,705

2,952,947

2,954,648

2,938,306

Re. 2,944,372

2,952,101

2,961,806

2,962,841

2,944,374

3: 2,926,460

5: 2,925,689

2,944,373



29: 2,923,111	124: 2,919,528	266: 2,932,140	25: 2,931,155	235: 2,926,480	34: 2,952,965	132: 2,940,246
2,929,180	2,921,423	2,952,959	2,932,931	240: 2,957,297	2,959,906	2,954,661
2,931,149	2,930,172	2,961,815	2,932,932	241: 2,931,158	2,963,848	133: 2,953,895
2,933,867	2,946,166	268: 2,927,410	2,932,933	249: 2,924,057	2,964,897	134: 2,946,179
2,943,427	2,955,396	285: 2,940,234	2,934,874	255: 2,929,190	2,964,898	2,952,966
2,948,999	2,956,383	287: 2,948,096	2,938,322	294: 2,923,117	34.5: 2,934,884	2,959,908
2,949,712	2,961,812	296: 2,934,872	2,941,345	295: 2,920,436	2,955,409	139: 2,963,850
2,949,713	2,962,848	297: 2,928,222	2,946,171	299: 2,931,159	2,956,389	140: 2,936,569
30: 2,934,867	125: 2,924,925	310: 2,919,532	2,948,099	306: 2,922,268	35: 2,961,821	2,939,271
2,942,391	126: 2,920,430	311: 2,920,436	25.4: Re.24,811	311: 2,953,890	36: 2,953,893	2,944,383
2,958,168	2,953,882	314: 2,927,128	2,920,434	312: 2,960,814	2,955,410	2,959,909
31: 2,954,654	128: 2,955,397	314: 2,932,141	2,920,435	314: 2,963,845	2,957,301	2,964,900
32: 2,952,105	2,966,020	316: 2,942,394	2,924,928	314: 2,963,844	51: 2,924,930	142: 2,943,434
34: 2,921,420	2,963,839	317: 2,951,327	2,924,929	328: 2,928,225	52: 2,952,113	146: 2,929,195
2,941,340	134: 2,939,257	334: 2,933,873	2,926,478	334: 2,962,855	53: 2,961,822	153: 2,959,910
35: 2,929,181	135: 2,924,926	342: 2,950,590	2,926,479	336: 2,925,703	54: 2,932,149	156: 2,927,417
2,938,315	2,937,484	363: 2,955,401	2,928,223	339: 2,935,836	2,956,390	2,946,180
2,952,954	2,952,956	370: 2,934,873	2,929,186	341: 2,929,191	56: 2,924,062	2,936,570
2,956,382	137: 2,940,233	371: 2,920,432	2,930,176	372: 2,956,387	2,924,063	2,942,408
2,957,286	2,946,167	373: 2,925,699	2,931,156	376: 2,944,377	2,936,565	2,946,181
36: 2,962,844	140: 2,958,171	374: 2,929,183	2,931,157	377: 2,922,269	2,946,173	2,948,103
37: 2,925,694	141: 2,920,431	2,931,158	2,932,144	383: 2,962,855	58.3: 2,921,428	2,950,591
2,930,170	2,928,218	2,935,832	2,933,874	386: 2,925,703	2,939,267	2,952,116
2,934,868	2,949,001	2,937,486	2,934,875	389: 2,935,836	2,942,404	2,956,393
2,947,904	2,958,172	2,938,322	2,934,876	390: 2,924,053	2,946,175	2,962,857
2,948,094	142: 2,945,335	2,938,323	2,936,563	2,924,054	2,958,177	158: 2,935,838
2,955,393	2,964,891	2,938,324	2,938,323	2,924,055	2,958,177	160: 2,940,247
2,958,169	148: 2,919,529	2,938,325	2,939,266	2,924,056	2,961,823	162: 2,934,885
2,961,811	2,925,697	2,938,326	2,940,241	2,924,057	58.36: 2,949,725	2,940,248
2,962,845	2,938,317	2,938,327	2,942,396	2,924,058	58.52: 2,921,429	
2,963,834	154: 2,941,342	2,927,412	2,942,397	2,924,059	58.55: Re.24,840	
38: 2,924,920	2,956,384	2,940,235	2,945,338	2,924,060	58.76: 2,924,064	3: 2,943,435
39: 2,929,182	159: 2,932,929	2,946,172	2,946,173	2,924,061	2,961,825	5: 2,927,418
2,937,481	2,936,557	2,947,132	2,947,132	2,924,062	58.83: 2,932,936	2,934,886
2,938,316	161: 2,962,849	2,949,004	2,949,004	2,924,063	58.84: 2,958,995	16: 2,926,486
2,940,230	178: 2,958,173	2,952,110	2,952,110	2,924,064	58.86: 2,932,150	18: 2,926,486
42: 2,963,835	180: 2,923,115	2,952,961	2,952,961	2,924,065	2,932,151	21.12: 2,920,438
45: 2,925,695	2,928,219	2,953,888	2,953,888	2,924,066	2,936,566	2,927,419
48: 2,953,879	2,928,220	2,955,402	2,955,402	2,924,067	2,952,111	21.14: 2,924,067
51: 2,950,588	2,938,318	2,956,386	2,956,386	2,924,068	2,958,178	23: 2,929,196
52: 2,919,525	2,955,398	2,957,294	2,957,294	2,924,069	58.91: 2,944,381	2,949,727
53: 2,921,421	2,959,902	2,958,175	2,958,175	2,924,070	58.95: 2,926,483	2,949,727
2,960,809	2,963,840	2,959,903	2,959,903	2,924,071	59: 2,948,102	24: 2,958,179
54: 2,924,921	182: 2,919,530	2,960,810	2,960,810	2,924,072	60: 2,956,391	28: 2,920,439
55: 2,952,106	2,928,221	2,960,811	2,960,811	2,924,073	62: 2,944,382	2,923,123
57: 2,934,869	2,935,829	2,960,812	2,960,812	2,924,074	2,946,176	2,924,932
58: 2,923,112	2,943,429	2,960,813	2,960,813	2,924,075	65: 2,959,907	2,934,887
2,925,696	2,947,127	2,960,814	2,960,814	2,924,076	66: 2,932,152	2,936,571
59: 2,919,526	2,951,325	2,960,815	2,960,815	2,924,077	66.5: 2,933,830	2,936,572
2,935,826	2,966,021	2,960,816	2,960,816	2,924,078	67: 2,924,065	2,948,104
2,937,482	183: 2,939,258	2,960,817	2,960,817	2,924,079	75: 2,930,179	2,952,117
2,943,428	186: 2,957,289	2,960,818	2,960,818	2,924,080	76: 2,935,837	2,953,896
2,945,334	187: 2,937,485	2,960,819	2,960,819	2,924,081	77.3: 2,928,229	2,954,662
61: 2,920,429	188: 2,932,139	2,960,820	2,960,820	2,924,082	2,946,177	2,954,663
2,947,125	2,944,892	2,960,821	2,960,821	2,924,083	65: 2,959,907	2,954,664
2,951,323	190: 2,950,589	2,960,822	2,960,822	2,924,084	66: 2,932,153	2,958,180
2,952,955	191: 2,962,850	2,960,823	2,960,823	2,924,085	66.5: 2,933,831	38: 2,933,882
2,966,016	194: 2,951,326	2,960,824	2,960,824	2,924,086	67: 2,924,066	41: 2,922,276
62: 2,963,836	196: 2,936,558	2,960,825	2,960,825	2,924,087	75: 2,930,179	43: 2,919,536
2,966,017	198: 2,925,698	2,960,826	2,960,826	2,924,088	76: 2,935,837	46: 2,931,163
63: 2,949,714	2,945,336	2,960,827	2,960,827	2,924,089	77.4: 2,923,121	2,942,409
64: 2,932,927	2,962,851	2,960,828	2,960,828	2,924,090	78: 2,922,272	50: 2,938,327
2,945,334	2,962,852	2,960,829	2,960,829	2,924,091	79: 2,922,273	57.5: 2,929,197
2,955,394	201: 2,933,869	2,960,830	2,960,830	2,924,092	81: 2,930,181	2,948,106
2,957,287	203: 2,926,472	2,960,831	2,960,831	2,924,093	83: 2,930,182	2,958,996
66: 2,919,527	209: 2,931,152	2,960,832	2,960,832	2,924,094	85: 2,924,931	58: 2,948,107
67: 2,932,928	2,933,870	2,960,833	2,960,833	2,924,095	86: 2,927,416	76: 2,925,707
2,962,846	2,952,107	2,960,834	2,960,834	2,924,096	88: 2,921,430	79: 2,942,410
2,963,837	2,953,883	2,960,835	2,960,835	2,924,097	90: 2,927,417	80: 2,947,137
71: 2,955,395	211: 2,936,559	2,960,836	2,960,836	2,924,098	90: 2,927,418	2,966,027
73: 2,922,265	213: 2,955,399	2,960,837	2,960,837	2,924,099	92: 2,952,115	82: 2,928,231
2,934,870	214: 2,938,319	2,960,838	2,960,838	2,924,100	93: 2,933,881	83: 2,948,108
2,953,880	215: 2,961,813	2,960,839	2,960,839	2,924,101	98: 2,940,244	90: 2,927,420
74: 2,930,171	219: 2,921,424	2,960,840	2,960,840	2,924,102	100: 2,946,178	2,936,573
2,936,556	2,936,560	2,960,841	2,960,841	2,924,103	102: 2,925,704	2,936,574
2,964,890	225: 2,961,814	2,960,842	2,960,842	2,924,104	104: 2,939,270	2,951,332
2,966,018	228: 2,952,957	2,960,843	2,960,843	2,924,105	105: 2,953,894	2,951,333
76: 2,958,170	230: 2,926,473	2,960,844	2,960,844	2,924,106	106: 2,949,726	2,954,665
78: 2,953,881	2,930,173	2,960,845	2,960,845	2,924,107	108: 2,954,659	2,959,912
79: 2,923,113	2,946,168	2,960,846	2,960,846	2,924,108	115: 2,919,535	106: 2,919,538
2,963,838	2,952,958	2,960,847	2,960,847	2,924,109	116: 2,929,194	107: 2,958,997
80: 2,921,422	234: 2,933,871	2,960,848	2,960,848	2,924,110	120: 2,925,705	109: 2,927,421
2,924,052	235: 2,930,174	2,960,849	2,960,849	2,924,111	2,926,484	2,933,883
86: 2,966,019	236: 2,919,531	2,960,850	2,960,850	2,924,112	2,932,937	2,944,384
88: 2,947,126	237: 2,964,893	2,960,851	2,960,851	2,924,113	2,936,568	2,948,109
91: 2,940,231	240: 2,957,290	2,960,852	2,960,852	2,924,114	2,940,245	2,948,110
95: 2,933,868	241: 2,948,095	2,960,853	2,960,853	2,924,115	2,944,380	2,955,411
96: 2,924,922	246: 2,942,392	2,960,854	2,960,854	2,924,116	2,949,721	2,959,913
111: 2,924,923	248: 2,934,871	2,960,855	2,960,855	2,924,117	2,949,722	2,964,899
112: 2,923,114	249: 2,942,393	2,960,856	2,960,856	2,924,118	2,949,723	2,964,899
2,924,924	254: 2,935,830	2,960,857	2,960,857	2,924,119	2,949,724	2,964,899
2,931,150	257: 2,964,894	2,960,858	2,960,858	2,924,120	2,951,330	2,964,899
2,935,828	258: 2,933,872	2,960,859	2,960,859	2,924,121	2,952,964	2,964,899
2,940,232	259: 2,939,259	2,960,860	2,960,860	2,924,122	2,952,967	2,964,899
2,949,715	263: 2,941,343	2,960,861	2,960,861	2,924,123	2,952,968	2,964,899
2,951,324		2,960,862	2,960,862	2,924,124	2,952,969	2,964,899
2,957,288		2,960,863	2,960,863	2,924,125	2,952,970	2,964,899
2,962,847		2,960,864	2,960,864	2,924,126	2,952,971	2,964,899
123: 2,931,151		2,960,865	2,960,865	2,924,127	2,952,972	2,964,899
2,937,483		2,960,866	2,960,866	2,924,128	2,952,973	2,964,899
2,941,341		2,960,867	2,960,867	2,924,129	2,952,974	2,964,899
2,949,000		2,960,868	2,960,868	2,924,130	2,952,975	2,964,899

## Class 58

3: 2,943,435	5: 2,927,418	16: 2,926,486	21.12: 2,920,438	21.14: 2,924,067	23: 2,929,196	24: 2,958,179	28: 2,920,439	2,923,123	2,924,932	2,934,887	2,936,571	2,936,572	2,948,104	2,952,117	2,953,896	2,954,662	2,954,663	2,954,664	2,958,180	38: 2,933,882	41: 2,922,276	43: 2,919,536	46: 2,931,163	2,942,409	50: 2,938,327	57.5: 2,929,197	2,948,106	2,958,996	58: 2,948,107	59: 2,925,706	68: 2,919,537	76: 2,925,707	79: 2,942,410	80: 2,947,137	2,966,027	82:
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## Class 58—Con.

126: 2,920,440  
2,958,181  
127: 2,949,005  
138: 2,952,118  
140: 2,920,441  
2,938,328  
2,956,394  
2,958,998  
141: 2,963,851  
142: 2,945,341  
144: 2,941,350  
146: 2,932,154  
152: 2,926,487

## Class 59

7: 2,931,165  
2,964,902  
8: 2,938,529  
35: 2,939,272  
77: 2,943,436  
79: 2,919,539  
2,928,232  
2,932,155  
2,941,351  
2,943,437  
2,948,110  
2,949,729  
2,952,110  
2,952,120  
2,953,897  
2,956,395  
2,957,303  
80: 2,920,442  
2,963,852

## Class 60

1: 2,949,730  
6: 2,932,938  
2,949,731  
11: 2,919,540  
12: 2,924,068  
2,932,939  
2,932,940  
2,958,999  
13: 2,921,431  
2,924,069  
2,925,708  
2,929,198  
2,932,156  
2,933,884  
2,936,575  
2,939,273  
2,943,438  
2,952,968  
2,957,304  
2,957,305  
2,960,818  
14: 2,949,732  
2,956,396  
16: 2,931,166  
23: 2,928,233  
2,936,576  
2,956,397  
2,963,853  
2,964,903  
24: 2,951,334  
2,963,854  
25: 2,961,827  
26: 2,933,885  
2,942,411  
29: 2,921,432  
2,927,422  
30: 2,932,157  
2,937,490  
2,953,898  
32: 2,940,249  
35.4: 2,919,541  
2,925,709  
2,929,199  
2,929,200  
2,930,184  
2,932,158  
2,932,159  
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2,932,941  
2,932,942  
2,935,839  
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2,940,250  
2,941,352  
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2,945,342  
2,947,138  
2,949,006  
2,949,733  
2,951,335  
2,952,121  
2,952,969

35.4: 2,958,182  
2,959,915  
2,960,819  
2,963,855  
35.5: 2,922,277  
2,923,124  
2,932,943  
2,943,440  
2,944,386  
2,945,343  
2,948,111  
2,952,970  
35.54: 2,919,544  
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2,928,238  
2,929,204  
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2,932,164  
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37: 2,926,492  
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39.03: 2,955,419  
39.05: 2,944,396  
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39.09: 2,930,188  
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39.14: 2,919,547  
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39.46: 2,935,844  
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39.47: 2,951,338  
39.48: 2,935,846  
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39.51: 2,946,192  
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39.74: 2,920,449  
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2,935,848  
2,938,345  
2,940,259  
2,951,341  
2,952,126  
2,959,003  
2,963,862  
39.75: 2,945,350  
2,963,863  
39.76: 2,930,196  
39.77: 2,924,071  
2,937,500  
2,959,006  
39.8: 2,938,337  
39.82: 2,920,450  
2,925,717  
2,927,427  
2,929,210  
2,929,211  
2,931,175  
2,933,896  
2,936,586  
2,937,501  
2,941,363  
2,941,364  
2,942,420  
2,944,398  
2,944,399  
2,949,738  
2,958,196  
2,959,007  
2,963,864  
40: 2,927,428  
51: 2,922,280  
2,923,130  
2,935,849  
2,936,587  
2,938,346

51: 2,956,405  
2,963,865  
52: 2,921,437  
2,921,438  
2,921,439  
2,924,939  
2,924,940  
2,926,496  
2,926,497  
2,927,429  
2,928,243  
2,928,244  
2,929,212  
2,931,176  
2,932,166  
2,932,167  
2,932,947  
2,932,948  
2,934,899  
2,934,900  
2,935,850  
2,935,851  
2,936,588  
2,938,347  
2,939,283  
2,939,284  
2,940,260  
2,941,365  
2,942,421  
2,942,422  
2,944,400  
2,944,401  
2,945,351  
2,947,144  
2,948,118  
2,949,739  
2,950,599  
2,951,342  
2,952,127  
2,953,902  
2,954,671  
2,957,311  
2,958,197  
2,959,003  
2,959,009  
2,959,922  
2,960,828  
2,960,829  
2,962,863  
2,964,908  
53: 2,927,430  
2,929,213  
2,931,177  
2,932,949  
2,933,897  
2,936,589  
2,939,285  
2,943,451  
2,946,193  
2,946,194  
2,956,406  
2,956,407  
2,961,829  
2,962,864  
2,963,866  
54: 2,924,941  
2,924,942  
2,929,214  
2,932,950  
2,944,402  
2,952,976  
2,952,977  
2,954,672  
2,957,312  
2,961,830  
2,963,867  
54.5: 2,920,451  
2,921,440  
2,923,131  
2,923,132  
2,924,072  
2,924,943  
2,924,944  
2,924,945  
2,926,498  
2,926,499  
2,927,431  
2,927,432  
2,931,178  
2,931,179  
2,934,901  
2,937,502  
2,946,195  
2,946,196  
2,954,673  
2,954,674  
2,959,010  
2,961,831  
54.6: 2,920,452  
2,920,453  
2,924,073  
2,927,433

54.6: 2,928,245  
2,929,215  
2,929,216  
2,931,180  
2,932,168  
2,934,902  
2,936,590  
2,938,348  
2,938,349  
2,940,261  
2,941,366  
2,941,367  
2,941,368  
2,942,423  
2,945,352  
2,947,145  
2,949,740  
2,950,600  
2,952,128  
2,952,975  
2,954,675  
2,955,426  
2,955,427  
2,958,198  
2,959,011  
2,959,012  
2,960,830  
2,961,832  
2,964,909  
59: 2,929,217  
2,932,169  
60: 2,931,181  
2,934,903  
2,955,428  
2,961,833  
64: 2,927,434  
65: 2,949,013  
67: 2,921,441  
2,938,350  
2,959,013  
2,964,910  
70: 2,957,313  
73: 2,919,551  
2,924,074  
2,939,286  
2,955,429  
2,959,014  
97: 2,924,075  
2,924,076  
2,925,718  
2,928,246  
2,931,182  
2,932,951  
2,935,852  
2,936,591  
2,938,351  
2,939,287  
2,939,288  
2,940,262  
2,940,263  
2,945,353  
2,949,741  
2,949,742  
2,951,344  
2,951,344  
2,953,903  
2,956,408  
2,958,199  
2,959,923  
2,961,834  
2,961,911  
2,965,031  
2,966,032  
102: 2,929,218  
105: 2,939,289  
2,962,865  
108: 2,961,835

## Class 61

5: 2,922,281  
2,928,247  
2,928,248  
2,928,249  
2,930,197  
2,932,170  
2,934,904  
2,942,424  
2,947,146  
2,947,147  
2,950,601  
3: 2,931,183  
4: 2,920,454  
5: 2,928,250  
10: 2,962,866  
13: 2,940,264  
16: 2,958,200  
21: 2,922,282  
24: 2,961,826  
28: 2,932,171  
29: 2,928,251  
30: 2,949,743  
34: 2,949,744



35: 2,935,853	3: 2,966,033	51: 2,956,413	150: 2,956,417	240: 2,931,192	344: 2,955,441	9: 2,922,294
36: 2,929,219	4: 2,925,719	2,958,204	2,960,844	241: 2,930,205	2,963,885	2,924,954
2,960,831	2,929,220	2,964,917	2,961,843	242: 2,926,505	347: 2,949,019	2,934,919
41: 2,922,293	5: 2,920,457	2,922,287	2,949,016	243: 2,922,293	2,952,996	2,935,860
2,956,409	2,924,950	2,960,839	2,957,316	244: 2,930,206	2,959,033	2,943,463
43: 2,946,197	2,950,604	2,964,918	2,940,277	2,932,177	351: 2,955,442	2,957,322
45: 2,930,199	2,952,981	2,964,919	2,942,432	248: 2,927,441	353: 2,947,156	2,959,943
2,950,602	2,955,432	2,966,039	2,949,017	249: 2,938,363	354: 2,919,561	2,964,929
2,952,129	2,958,202	53: 2,922,288	2,954,680	250: 2,950,605	2,943,461	10: 2,930,210
2,959,921	6: 2,931,189	2,922,289	2,962,871	251: 2,936,596	2,943,462	2,948,128
46: 2,927,435	2,943,453	2,927,437	2,962,872	2,949,018	2,952,141	11: 2,929,231
2,933,898	2,952,982	2,932,175	156: 2,928,256	2,952,992	2,939,299	2,930,211
2,935,854	2,955,433	2,937,504	2,936,594	2,962,874	2,945,361	2,935,861
2,940,265	2,959,019	54: 2,928,254	2,947,153	255: 2,932,955	2,946,207	2,939,300
46.5: 2,919,552	2,963,871	2,929,221	2,966,042	256: 2,923,137	2,961,849	2,945,365
2,921,442	2,966,034	2,938,360	157: 2,923,135	2,929,227	366: 2,949,020	2,948,129
2,924,077	2,966,035	2,939,294	2,945,356	2,936,597	370: 2,961,850	2,949,021
2,924,946	7: 2,932,172	2,944,405	158: 2,951,351	2,955,438	371: 2,935,858	2,952,143
2,924,947	2,938,358	2,944,406	2,953,908	2,956,420	374: 2,920,462	2,958,213
2,927,436	2,940,268	2,958,205	159: 2,935,857	2,961,845	375: 2,951,353	13: 2,921,449
2,930,200	2,941,372	2,959,928	160: 2,919,558	2,962,875	376: 2,959,034	2,924,082
2,931,184	2,941,373	2,966,040	2,940,079	259: 2,926,506	377: 2,926,507	14: 2,932,179
2,934,905	2,941,374	55: 2,927,438	2,937,505	2,954,682	2,942,438	2,943,464
2,936,592	2,941,373	2,941,376	2,944,408	2,963,881	382: 2,929,228	2,951,854
2,938,352	9: 2,922,285	2,959,024	2,952,989	261: 2,961,846	2,960,848	15: 2,940,753
2,938,353	2,932,173	56: 2,949,746	2,958,206	262: 2,942,080	2,948,127	2,950,609
2,938,354	2,959,020	58: 2,921,444	2,959,027	2,941,380	2,959,938	2,959,944
2,939,290	2,964,913	2,940,272	2,964,922	2,945,357	390: 2,920,463	2,966,049
2,939,291	11: 2,919,554	2,956,414	161: 2,934,913	2,945,358	396: 2,946,208	16: 2,954,685
2,940,266	2,922,286	60: 2,942,428	2,955,435	264: 2,928,257	402: 2,925,723	17: 2,921,450
2,941,369	2,940,269	2,964,920	162: 2,937,509	2,953,909	2,928,261	2,952,144
2,941,370	2,954,677	2,966,041	163: 2,940,278	2,957,320	2,940,280	2,953,091
2,942,425	2,966,036	62: 2,959,025	2,952,990	2,958,210	2,958,211	2,953,910
2,944,403	12: 2,958,203	64: 2,942,429	168: 2,958,207	268: 2,961,847	407: 2,960,849	18: 2,947,157
2,946,198	2,960,835	2,948,123	169: 2,944,409	270: 2,966,045	409: 2,952,997	19: 2,942,440
2,947,148	13: 2,919,555	66: 2,927,439	2,947,154	271: 2,925,993	419: 2,924,081	21: 2,921,451
2,948,119	2,932,174	2,942,430	171: 2,922,291	2,957,321	2,928,262	2,923,141
2,948,120	2,934,906	69: 2,921,443	2,929,223	272: 2,943,460	2,954,684	2,942,955
2,953,904	2,946,199	71: 2,919,557	172: 2,929,224	275: Re.24,782	426: 2,929,229	2,928,263
2,954,676	2,947,151	73: 2,941,377	2,929,225	276: 2,928,258	2,959,035	2,947,158
2,959,015	2,951,346	2,941,378	2,959,028	2,930,207	427: 2,959,036	2,949,022
2,960,832	2,955,434	77: 2,943,455	173: 2,961,844	2,959,936	428: 2,920,464	23: 2,932,180
2,960,833	2,956,410	81: 2,928,255	2,963,876	2,963,882	2,930,208	2,945,366
2,961,837	2,959,926	2,953,906	174: 2,931,191	277: 2,940,279	2,940,281	2,952,145
2,963,868	2,960,836	2,956,415	2,952,137	2,954,683	429: 2,940,282	24: 2,943,465
48: 2,935,855	2,966,037	2,960,840	2,966,043	2,945,439	2,942,439	2,950,610
2,948,121	14: 2,964,914	85: 2,940,273	175: 2,925,722	2,961,848	2,945,362	27: 2,928,264
2,952,979	16: 2,940,274	2,940,274	177: 2,956,418	279: 2,941,381	2,959,037	2,945,367
2,961,838	17: 2,940,270	89: 2,959,929	180: 2,939,296	280: 2,927,442	441: 2,958,212	2,961,856
49: 2,941,371	2,952,983	91: 2,956,416	2,962,873	2,934,914	448: 2,961,851	2,964,930
53: 2,926,500	19: 2,939,293	93: 2,935,856	181: 2,958,208	2,941,382	451: 2,959,939	2,955,443
2,932,952	20: 2,936,598	2,959,939	183: 2,959,933	2,945,359	457: 2,926,508	2,962,880
2,938,355	2,951,347	94: 2,926,502	184: 2,943,457	2,959,030	458: 2,959,940	2,964,931
2,942,426	2,956,411	2,946,201	2,952,991	281: 2,920,459	2,959,941	2,920,465
2,947,149	2,962,867	101: 2,959,931	186: 2,937,510	282: 2,923,138	468: 2,963,886	2,927,445
2,952,130	21: 2,933,900	2,960,841	2,944,410	285: 2,952,994	471: 2,964,926	2,930,212
2,953,900	2,934,907	104: 2,929,222	2,957,317	288: 2,959,031	475: Re.24,802	2,942,441
2,961,839	2,952,134	2,948,124	192: 2,921,448	295: 2,952,995	476: 2,932,958	2,957,323
53.6: 2,963,869	22: 2,930,201	107: 2,942,431	2,959,934	296: 2,920,460	478: 2,929,230	2,959,945
57: 2,920,455	2,934,908	2,960,842	195: 2,920,458	2,932,956	494: 2,961,852	2,960,852
2,920,456	2,946,200	110: 2,964,921	2,959,935	297: 2,942,436	498: 2,935,859	30: 2,919,563
2,923,133	2,962,868	112: 2,963,875	196: 2,937,511	298: 2,936,598	511: 2,933,905	2,924,083
2,924,948	23: 2,941,374	114: 2,931,190	2,937,512	2,939,297	2,950,608	2,926,511
63: 2,939,292	24: 2,960,837	117: 2,921,445	2,944,411	299: 2,934,915	516: 2,934,917	2,928,265
2,952,131	2,963,872	2,921,446	2,949,750	300: 2,928,259	518: 2,961,853	2,937,514
65: 2,963,870	27: 2,952,984	2,934,911	2,954,681	301: 2,955,440	523: 2,934,918	2,939,301
72: 2,931,185	28: 2,953,905	2,938,361	2,956,419	2,962,876	526: 2,959,942	2,940,283
73: 2,940,267	2,960,838	2,945,355	2,957,318	304: 2,924,951	527: 2,936,599	2,943,466
2,942,427	29: 2,959,021	121: 2,937,506	2,963,877	2,924,952	530: 2,939,038	2,952,146
2,952,132	30: 2,959,022	123: 2,937,507	2,963,878	2,946,205	305: 2,919,559	2,953,911
74: 2,950,603	31: 2,930,202	129: 2,949,747	2,964,923	197: 2,936,595	312: 2,966,046	32: 2,929,232
2,955,431	2,940,271	132: 2,925,721	2,942,433	2,958,209	314: 2,959,032	2,934,920
2,958,201	32: 2,949,745	133: 2,922,290	2,958,209	199: 2,926,503	316: 2,960,847	
76: 2,948,122	34: 2,966,038	135: 2,930,203	2,948,125	203: 2,922,292	317: 2,945,360	
2,951,345	37: 2,933,901	2,941,379	2,942,433	204: 2,943,458	320: 2,949,752	
77: 2,931,186	2,941,375	2,946,202	2,956,419	205: 2,960,845	2,950,606	
78: 2,924,949	2,952,985	136: 2,959,932	2,957,318	208: 2,942,434	2,962,877	
79: 2,928,252	38: 2,924,078	137: 2,923,134	2,963,877	209: 2,932,176	321: 2,919,560	
2,933,899	2,952,986	2,934,912	2,963,878	2,959,029	323: 2,937,513	
82: 2,931,187	40: 2,926,501	2,937,508	2,964,925	2,964,924	324: 2,932,178	
	2,934,909	2,940,275	2,961,842	211: 2,955,436	2,950,607	
	2,947,152	2,949,749	138: 2,927,440	215: 2,929,226	325: 2,920,461	
	2,949,015	2,961,842	2,925,720	217: 2,943,459	329: 2,932,957	
	42: 2,919,556	2,943,456	2,940,276	222: 2,933,903	331: 2,963,883	
	2,925,720	2,959,026	2,952,987	223: 2,951,352	332: 2,963,884	
	45: 2,933,902	2,962,869	2,952,988	225: 2,923,136	334: 2,946,206	
	2,928,253	139: 2,921,447	2,954,679	230: 2,946,203	335: 2,952,139	
	2,931,188	2,952,988	2,962,870	233: 2,942,435	341: 2,927,443	
	2,932,953	140: 2,939,295	2,962,871	235: 2,955,437	342: 2,931,193	
	2,932,954	2,944,407	2,962,872	238: 2,946,204	2,947,155	
	2,938,357	144: 2,944,407	2,962,873	240: 2,960,846	2,952,140	
	2,943,452	148: 2,930,204	2,962,874	243: 2,952,138	2,962,879	
	2,944,404	2,952,136	2,962,875	246: 2,946,204	344: 2,923,139	
	2,947,150	149: 2,938,362	2,962,876	249: 2,949,751	2,931,194	
	2,949,014	2,951,349	2,962,877	250: 2,963,879	2,943,916	
	2,952,980	2,963,874	2,962,878	253: 2,939,298	2,939,298	
	2,959,017	2,945,354	2,962,879			
	2,959,018					
	2,959,925					
	2,964,912					

## Class 63

- 1: 2,930,209  
12: 2,931,195  
13: 2,956,422  
14: 2,936,600  
2,945,363  
2,952,998  
2,959,039  
2,961,854  
2,964,927  
15.2: Re.24,798  
15.6: 2,966,048  
15.65: 2,961,855  
31: 2,931,196

## Class 66

- 1: 2,930,213  
2,935,862  
6: 2,957,324  
8: 2,951,355  
9: 2,953,002  
2,953,912  
2,964,932  
14: 2,938,364  
2,959,040  
15: 2,943,467  
38: 2,941,383  
40: 2,919,564  
2,928,266  
41: 2,945,130  
2,953,003  
43: 2,919,565  
2,933,906  
2,934,921  
2,935,863  
2,939,302  
2,939,303  
2,941,385  
2,952,147  
2,959,946  
2,961,857

## Class 64

- 1: 2,926,509  
2,952,999  
3: 2,960,850  
4: 2,919,562  
2,923,140  
2,924,953  
2,952,142  
2,953,000  
6: 2,960,851  
7: 2,956,423  
8: 2,926,510  
2,927,444  
2,945,364  
2,964,928



## Class 66—Con.

- 48: 2, 932, 959  
2, 953, 004  
2, 954, 686  
2, 957, 325  
50: Re. 24, 912  
2, 962, 881  
54: 2, 963, 887  
55: 2, 960, 853  
2, 962, 882  
60: 2, 922, 295  
71: 2, 960, 854  
72: 2, 963, 888  
75: 2, 956, 424  
78: 2, 953, 005  
2, 958, 214  
84: 2, 931, 197  
85: 2, 937, 515  
2, 944, 412  
2, 944, 413  
2, 949, 754  
2, 949, 755  
2, 953, 913  
2, 959, 947  
86: 2, 921, 452  
2, 921, 453  
2, 924, 957  
2, 929, 233  
2, 932, 181  
2, 941, 386  
2, 943, 468  
2, 957, 326  
2, 959, 948  
2, 962, 883  
87: 2, 927, 446  
89: 2, 920, 466  
91: 2, 936, 601  
2, 940, 284  
93: 2, 933, 907  
96: 2, 923, 142  
2, 955, 444  
107: 2, 925, 724  
108: 2, 921, 454  
110: 2, 931, 198  
112: 2, 946, 209  
115: 2, 945, 368  
123: 2, 953, 914  
125: 2, 921, 455  
2, 944, 414  
2, 959, 949  
126: 2, 939, 304  
127: 2, 963, 889  
132: 2, 938, 365  
2, 949, 756  
134: 2, 930, 214  
135: 2, 956, 425  
138: 2, 920, 467  
2, 948, 131  
140: 2, 924, 958  
2, 940, 285  
2, 952, 148  
2, 961, 858  
145: 2, 934, 922  
146: 2, 949, 757  
147: 2, 933, 908  
2, 941, 387  
149: 2, 924, 084  
2, 924, 085  
150: 2, 959, 041  
152: 2, 920, 468  
153: 2, 932, 182  
154: 2, 927, 447  
156: 2, 943, 469  
157: 2, 933, 909  
2, 963, 890  
163: 2, 941, 388  
166: 2, 933, 910  
2, 936, 602  
168: 2, 919, 566  
173: 2, 919, 567  
174: 2, 942, 442  
176: Re. 24, 887  
2, 921, 456  
2, 921, 457  
177: 2, 952, 149  
2, 962, 884  
178: 2, 926, 512  
2, 945, 132  
2, 949, 023  
2, 962, 885  
182: 2, 925, 725  
2, 955, 445  
186: 2, 950, 611  
187: 2, 926, 513  
188: 2, 934, 923  
191: 2, 943, 924  
2, 943, 470  
2, 955, 446  
2, 957, 327  
192: 2, 923, 143  
2, 960, 855
- 193: 2, 936, 603  
195: 2, 927, 448  
199: 2, 942, 443  
200: 2, 946, 210  
2, 946, 211  
201: 2, 948, 133
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2. 1: 2, 945, 369  
7. 1: 2, 932, 960  
2, 933, 911  
2, 940, 286  
2, 943, 471  
2, 948, 134  
2, 949, 758  
2, 957, 328  
22. 5: 2, 959, 950  
23: 2, 945, 135  
31: 2, 955, 447  
53: 2, 963, 891  
87: 2, 961, 859
- Class 68**  
3: 2, 953, 915  
4: 2, 927, 449  
2, 932, 961  
5: 2, 932, 183  
2, 954, 687  
8: 2, 951, 356  
12: 2, 920, 469  
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2, 921, 458  
2, 923, 144  
2, 927, 450  
2, 928, 267  
2, 931, 199  
2, 931, 200  
2, 934, 925  
2, 934, 926  
2, 943, 472  
2, 943, 473  
2, 946, 212  
2, 949, 759  
2, 950, 612  
2, 950, 613  
2, 954, 688  
2, 955, 448  
2, 955, 449  
2, 956, 426  
2, 957, 329  
2, 959, 042  
2, 959, 043  
2, 960, 856  
2, 961, 860  
2, 961, 861  
2, 964, 933  
2, 966, 050  
13: 2, 940, 287  
17: 2, 929, 234  
2, 938, 912  
2, 938, 966  
2, 942, 444  
2, 943, 474  
2, 953, 066  
18: 2, 919, 568  
2, 924, 959  
2, 927, 451  
2, 928, 268  
2, 936, 604  
2, 939, 305  
2, 943, 474  
2, 944, 415  
2, 961, 862  
2, 962, 866  
2, 964, 934  
19: 2, 953, 007  
20: 2, 920, 471  
2, 941, 389  
2, 957, 330  
2, 961, 863  
22: 2, 949, 024  
23: 2, 921, 459  
2, 924, 086  
2, 930, 215  
2, 930, 216  
2, 933, 913  
2, 936, 605  
2, 942, 445  
2, 942, 446  
2, 947, 159  
2, 953, 008  
2, 957, 331  
2, 966, 051  
24: 2, 930, 217  
2, 941, 390  
2, 942, 447  
2, 953, 009  
2, 954, 689  
2, 955, 450
- 27: 2, 928, 269  
2, 932, 184  
2, 944, 416  
2, 961, 864  
28: 2, 955, 451  
58: 2, 937, 516  
2, 938, 367  
2, 965, 052  
131: 2, 921, 460  
2, 931, 201  
2, 932, 962  
132: 2, 945, 136  
134: 2, 959, 045  
140: 2, 963, 892  
143: 2, 934, 927  
175: 2, 963, 893  
178: 2, 939, 306  
181: 2, 959, 048  
184: 2, 940, 288  
2, 959, 047  
187: 2, 948, 137  
190: 2, 957, 332  
199: 2, 964, 936  
205: 2, 922, 296  
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2, 945, 370  
206: 2, 963, 894  
207: 2, 934, 928  
2, 922, 298  
2, 949, 025  
2, 961, 865  
210: 2, 959, 048  
214: 2, 940, 289  
242: 2, 955, 452  
253: 2, 962, 867  
255: 2, 937, 517  
258: 2, 948, 138  
262: 2, 957, 333
- Class 69**  
9. 5: 2, 938, 369  
19: 2, 938, 370  
20: 2, 933, 912  
22: 2, 931, 202  
33: 2, 966, 427  
37: 2, 949, 760  
42: 2, 932, 185  
46: 2, 941, 391  
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1. 5: 2, 942, 449  
2, 947, 160  
14: 2, 963, 895  
16: 2, 948, 139  
2, 949, 761  
19: 2, 960, 857  
21: 2, 926, 514  
2, 931, 203  
2, 931, 204  
25: 2, 928, 271  
2, 957, 355  
32: 2, 934, 929  
39: 2, 959, 951  
49: 2, 933, 915  
58: 2, 930, 218  
2, 955, 453  
65: 2, 940, 290  
2, 953, 010  
67: 2, 947, 161  
68: 2, 942, 450  
70: 2, 940, 291  
75: 2, 938, 371  
77: 2, 953, 916  
78: 2, 945, 371  
80: 2, 953, 011  
85: 2, 938, 372  
86: 2, 938, 373  
2, 962, 888  
89: 2, 926, 515  
92: 2, 931, 205  
2, 945, 372  
2, 958, 215  
2, 962, 889  
93: 2, 935, 864  
2, 946, 213  
2, 949, 353  
97: 2, 919, 569  
2, 937, 936  
100: 2, 953, 012  
2, 941, 880  
2, 945, 753  
118: 2, 946, 214  
134: 2, 936, 606  
135: 2, 924, 087  
144: 2, 922, 297  
145: 2, 956, 429  
146: 2, 931, 206  
2, 959, 952  
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2, 961, 866  
2, 960, 183  
2, 966, 054
- 150: 2, 942, 451  
2, 960, 858  
169: 2, 946, 215  
180: 2, 924, 960  
181: 2, 931, 207  
2, 939, 307  
2, 950, 614  
2, 963, 896  
192: 2, 933, 916  
210: 2, 959, 308  
211: 2, 919, 570  
216: 2, 920, 472  
2, 948, 140  
2, 950, 615  
241: 2, 940, 292  
252: 2, 964, 935  
264: 2, 934, 930  
273: 2, 951, 357  
276: 2, 928, 272  
277: 2, 936, 607  
298: 2, 920, 473  
309: 2, 964, 936  
313: 2, 926, 516  
332: 2, 951, 358  
333: 2, 925, 726  
2, 938, 374  
364: 2, 949, 762  
367: 2, 922, 298  
370: 2, 948, 141  
395: 2, 945, 373  
408: 2, 932, 963  
414: 2, 931, 208  
428: 2, 930, 219  
447: 2, 963, 897  
451: 2, 919, 571  
2, 920, 474  
2, 921, 461  
2, 940, 293  
2, 952, 150  
454: 2, 941, 392  
2, 942, 452  
455: 2, 931, 209  
2, 932, 186  
2, 956, 430  
456: 2, 924, 961  
2, 931, 210  
2, 961, 867  
2, 964, 937  
458: 2, 924, 088  
459: 2, 938, 375
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1: 2, 920, 950  
2, 921, 847  
2, 929, 700  
2, 931, 716  
2, 934, 419  
2, 936, 226  
2, 951, 753  
2, 953, 449  
2, 958, 594  
2, 961, 311  
2, 963, 357  
2. 1: 2, 950, 182  
2. 2: 2, 942, 516  
2, 937, 081  
2. 3: 2, 926, 078  
2, 927, 014  
2, 935, 392  
2, 937, 935  
2, 945, 752  
2, 946, 674  
2, 955, 803  
2, 955, 929  
2, 958, 595  
2. 5: 2, 923, 614  
2, 929, 702  
2, 936, 227  
2, 940, 844  
2, 951, 754  
2, 959, 475  
2, 960, 395  
2. 6: 2, 923, 634  
2, 933, 383  
2, 934, 420  
2, 935, 393  
2, 949, 353  
2, 957, 760  
2. 7: 2, 937, 936  
2, 941, 879  
2, 941, 880  
2, 945, 753  
2, 949, 354  
2, 957, 761  
2, 959, 476  
2, 965, 467  
6: 2, 951, 755  
8: 2, 946, 675  
9: 2, 947, 619  
2, 954, 285  
11: 2, 950, 183  
20: 2, 955, 930
- 36: 2, 965, 468  
37: 2, 945, 754  
2, 963, 358  
39: 2, 942, 967  
2, 944, 882  
2, 948, 602  
2, 954, 286  
2, 965, 469  
40: 2, 954, 287  
2, 965, 470  
41: 2, 937, 937  
2, 952, 531  
2, 963, 359  
42: 2, 950, 961  
2, 964, 394  
43: 2, 928, 728  
2, 936, 228  
59: 2, 957, 762  
61: 2, 965, 471  
62: 2, 927, 851  
64: 2, 926, 079  
2, 939, 781  
2, 943, 928  
2, 957, 763  
2, 964, 395  
2, 965, 472
- Class 72**  
5: 2, 934, 931  
1: 2, 922, 299  
2, 930, 220  
2, 935, 865  
2, 939, 294  
6: 2, 927, 453  
7: 2, 927, 452  
13: 2, 932, 964  
14: 2, 931, 211  
2, 933, 917  
15: 2, 929, 235  
2, 930, 221  
16: 2, 924, 962  
2, 931, 212  
2, 931, 213  
18: 2, 931, 214  
2, 934, 932  
19: 2, 924, 963  
2, 938, 376  
28: 2, 933, 919  
38: 2, 930, 222  
2, 933, 920  
2, 934, 933  
2, 942, 453  
40: 2, 920, 475  
2, 921, 462  
2, 934, 934  
41: 2, 941, 393  
42: 2, 935, 867  
43: 2, 929, 236  
44: 2, 940, 296  
2, 942, 454  
48: 2, 919, 572  
50: 2, 921, 463  
61: 2, 925, 727  
85: 2, 920, 476  
94: 2, 926, 517  
96: 2, 939, 309  
98: 2, 929, 237  
2, 931, 215  
101: 2, 920, 477  
2, 927, 454  
103: 2, 929, 238  
105: 2, 923, 146  
2, 924, 089  
2, 940, 297  
106: 2, 937, 065  
107: 2, 928, 273  
108: 2, 934, 935  
110: 2, 941, 394  
116: 2, 926, 518  
118: 2, 921, 464  
2, 924, 090  
119: 2, 929, 239  
122: 2, 924, 091  
127: 2, 928, 274  
128: 2, 940, 298  
136: 2, 934, 936  
2, 934, 937  
2, 940, 299
- Class 73**  
1: 2, 924, 092  
2, 925, 728  
2, 945, 374  
2, 949, 026  
2, 950, 616  
2, 951, 359  
2, 955, 454  
2, 958, 216
- 3: 2, 931, 216  
2, 934, 938  
2, 934, 939  
2, 948, 142  
2, 948, 143  
2, 948, 144  
2, 949, 764  
2, 958, 217  
2, 958, 218  
2, 959, 954  
4: 2, 947, 162  
2, 952, 151  
2, 957, 334  
2, 958, 219  
6: 2, 926, 519  
2, 931, 217  
7: 2, 929, 240  
2, 950, 617  
2, 962, 890  
9: 2, 928, 275  
2, 932, 965  
2, 937, 518  
2, 943, 928  
2, 955, 455  
2, 964, 395  
10: 2, 957, 335  
11: 2, 923, 147  
2, 934, 940  
12: 2, 931, 218  
2, 955, 456  
2, 957, 336  
2, 957, 337  
2, 959, 049  
15: 2, 943, 475  
2, 947, 163  
2, 951, 360  
15. 6: 2, 942, 455  
17: 2, 952, 152  
2, 966, 055  
23: Re. 24, 876  
2, 920, 478  
2, 928, 271  
2, 934, 941  
2, 941, 395  
2, 950, 618  
2, 951, 361  
2, 952, 153  
2, 955, 457  
2, 963, 898  
2, 964, 938  
24: 2, 963, 899  
27: 2, 926, 520  
2, 933, 920  
2, 944, 418  
2, 949, 765  
28: 2, 932, 966  
2, 947, 164  
2, 953, 013  
29: 2, 926, 521  
2, 955, 460  
2, 939, 311  
32: 2, 922, 300  
2, 926, 522  
2, 936, 608  
2, 943, 476  
2, 949, 027  
2, 956, 431  
35: 2, 920, 479  
2, 924, 964  
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2, 960, 859  
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36: 2, 939, 312  
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37: 2, 947, 165  
2, 963, 900  
37. 5: 2, 926, 523  
2, 943, 477  
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2, 953, 918  
2, 963, 901  
37. 7: 2, 927, 455  
37. 8: 2, 953, 014  
38: 2, 919, 573  
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40: 2, 924, 965  
2, 932, 187  
2, 936, 610  
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40. 5: 2, 924, 966  
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2, 940, 302  
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40. 7: 2, 947, 166  
45. 2: 2, 951, 364
45. 4: 2, 924, 093  
45. 5: 2, 961, 869  
45. 6: 2, 949, 767  
45. 8: 2, 935, 868  
2, 937, 521  
2, 940, 303  
45: 2, 927, 456  
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2, 934, 943  
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48: 2, 939, 315  
49. 1: 2, 959, 955  
49. 2: 2, 936, 611  
49. 5: 2, 953, 919  
49. 8: 2, 953, 015  
53: 2, 922, 301  
2, 931, 219  
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2, 949, 768  
54: 2, 948, 145  
2, 957, 338  
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55: 2, 934, 944  
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57: 2, 955, 459  
59: 2, 927, 457  
2, 940, 304  
2, 957, 339  
60: 2, 953, 016  
65: 2, 932, 188  
2, 948, 146  
67: 2, 932, 189  
67. 2: 2, 950, 619  
2, 960, 862  
67. 3: 2, 936, 612  
67. 5: 2, 946, 217  
2, 957, 340  
67. 6: 2, 919, 574  
2, 949, 769  
2, 966, 056  
2, 966, 057  
67. 7: 2, 921, 465  
2, 937, 522  
2, 966, 058  
67. 8: 2, 921, 466  
2, 940, 305  
2, 951, 365  
2, 953, 017  
67. 9: 2, 949, 028  
70. 1: 2, 963, 902  
70. 2: 2, 946, 218  
71: 2, 942, 456  
71. 2: 2, 940, 306  
71. 3: 2, 959, 956  
71. 4: 2, 942, 457  
71. 6: Re. 24, 816  
71. 7: 2, 963, 903  
73: 2, 929, 241  
76: 2, 943, 478  
81: 2, 956, 432  
82: 2, 942, 458  
83: 2, 938, 377  
84: 2, 957, 341  
86: 2, 923, 148  
88: 2, 920, 480  
2, 922, 302  
2, 924, 094  
2, 929, 242  
2, 930, 223  
2, 931, 220  
2, 932, 967  
2, 950, 620  
88. 5: 2, 924, 967  
2, 924, 968  
2, 930, 224  
2, 943, 480  
2, 958, 221  
89: 2, 948, 147  
91: 2, 953, 018  
93: 2, 938, 921  
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94: 2, 930, 225  
95: 2, 959, 957  
99: 2, 942, 459  
100: 2, 934, 945  
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101: 2, 924, 969  
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104: 2, 925, 730  
105: 2, 961, 871  
113: 2, 964, 940  
114: 2, 941, 397  
115: 2, 919, 576  
116: 2, 924, 095  
2, 926, 524  
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116: 2,936,613 2,939,316 2,941,398 2,941,399 2,943,481 2,944,419 2,953,019 2,962,892	189: 2,934,950 2,935,872 2,942,464 2,959,052 193: 2,931,222 194: 2,921,467 2,923,154 2,923,155 2,929,247 2,931,223 2,933,924 2,934,951 2,936,618 2,936,619 2,936,619 2,940,309 2,943,483 2,948,150 2,949,772 2,949,773 2,949,774 2,959,053 2,959,054	334: 2,942,469 335: 2,932,199 2,934,954 2,937,524 2,966,060 336: 2,931,226 336.5: 2,943,488 2,959,959 2,962,897 2,966,061 339: 2,922,304 2,942,470 341: 2,924,974 2,942,471 342: 2,944,422 343: 2,963,909 343.5: 2,927,463 347: 2,957,348 349: 2,922,305 2,928,279 2,931,227 2,942,472 351: 2,947,171 2,957,349 2,961,875 353: 2,949,032 355: 2,920,485 2,927,464 2,963,910 356: 2,932,971 358: 2,924,975 2,934,955 2,938,384 2,966,062 359: 2,924,976 2,964,946 360: 2,930,233 361: 2,949,778 2,959,959 362: 2,919,580 2,935,874 2,938,385 2,954,695 2,960,866 362.2: 2,925,734 362.3: 2,954,696 2,963,921 363.5: 2,953,921 363.7: 2,964,947 368: 2,928,280 2,934,956 2,944,423 2,961,876 368.3: 2,941,404 368.4: 2,924,099 2,930,234 2,935,468 2,937,525 378.3: 2,930,486 2,939,320 2,940,312 2,953,922 2,954,697 382: 2,953,023 2,959,961 2,964,948 2,949,779 2,953,024 2,953,025 388: 2,942,473 2,951,369 389: 2,937,526 2,951,370 392: 2,932,200 393: 2,937,527 396: 2,924,100 398: 2,921,471 2,931,229 2,932,972 2,938,383 2,940,311 2,941,403 2,942,467 2,963,908 309: 2,924,973 2,925,733 311: 2,921,470 2,947,170 2,923,156 2,926,526 2,936,623 319: 2,920,484 2,934,953 321: 2,942,468 2,949,777 2,952,155 2,957,347 322: 2,964,945 325: 2,956,433 327: 2,923,157 331: 2,949,031	420: 2,930,236 421: 2,941,405 421.5: 2,926,527 2,930,237 2,934,958 2,943,490 422: 2,925,735 2,927,465 2,934,959 2,955,469 423: 2,937,529 2,954,698 424: 2,958,222 2,922,306 2,930,238 2,938,388 425.6: 2,932,974 2,959,964 2,960,868 427: 2,931,230 431: 2,946,223 2,951,371 432: 2,937,530 2,956,434 2,956,435 2,960,869 2,960,870 437: 2,923,158 438: 2,952,157 2,958,223 440: 2,926,528 442: 2,958,224 452: 2,923,159 456: 2,926,529 458: 2,954,699 461: 2,946,224 462: 2,919,581 2,947,172 2,949,033 2,962,899 464: 2,947,173 2,947,174 465: 2,924,977 466: 2,944,424 2,953,923 467: 2,940,315 477: 2,943,491 478: 2,938,389 480: 2,943,492 482: 2,935,876 483: 2,947,175 484: 2,919,582 492: 2,950,622 2,955,470 493: 2,942,864 497: 2,945,378 2,960,871 2,964,949 503: 2,943,493 2,950,908 504: 2,949,780 2,958,222 507: 2,949,781 513: 2,961,229 514: 2,948,152 2,949,783 515: 2,941,792 516: 2,936,624 2,938,390 2,942,474 2,942,475 2,946,225 2,948,153 2,949,782 2,959,057 2,963,285 517: 2,942,476 2,947,178 2,945,379 2,946,226 2,947,176 2,959,965 2,960,872 2,963,911 519: 2,953,026 2,939,321 2,940,316 2,939,324 2,942,480 2,942,481 2,944,427 2,944,428 2,961,878 2,962,902 2,962,900	2: 2,923,160 2,924,103 2,931,231 2,936,626 2,942,478 2,953,924 3.52: 2,930,239 2,940,317 Re.24,880 2,919,583 2,924,978 2,928,281 2,930,240 2,939,322 2,940,318 2,944,425 2,952,158 2,960,873 2,964,950 5.1: 2,919,584 2,937,531 2,940,319 2,960,874 2,960,875 2,962,901 2,964,951 5.12: 2,921,472 2,924,104 2,960,877 5.2: 2,934,960 2,961,877 5.22: 2,964,954 2,936,627 2,944,426 2,948,157 2,949,785 2,954,700 2,955,474 2,960,878 2,966,063 5.37: 2,928,282 2,941,406 2,953,926 2,934,961 2,937,532 2,940,320 2,943,494 2,945,381 2,949,786 5.43: 2,923,161 5.44: 2,919,586 2,934,962 5.47: 2,926,528 2,936,628 Re.24,829 2,937,533 2,945,380 2,951,374 2,951,375 2,955,471 2,955,472 5.6: 2,925,736 2,929,250 2,942,479 2,947,177 2,948,155 2,948,156 2,951,376 2,951,377 2,951,378 2,953,027 2,955,473 2,959,060 2,964,952 5.7: 2,919,585 2,947,178 2,949,784 2,953,925 2,960,876 2,963,912 2,964,953 6: 2,927,466 2,939,323 2,947,179 2,960,879 7: 2,921,473 2,922,307 2,923,162 2,924,979 2,932,201 2,933,926 2,938,391 2,939,324 2,942,480 2,942,481 2,944,427 2,944,428 2,961,878 2,962,902 2,953,028	9: 2,926,531 2,936,629 10: 2,934,963 10.15: 2,934,964 10.2: 2,939,325 2,942,482 10.27: 2,937,534 2,953,927 2,957,356 2,962,903 10.33: 2,928,283 2,930,241 10.37: 2,933,927 10.41: 2,937,535 10.45: 2,938,392 10.5: 2,936,630 2,936,631 2,922,308 2,924,980 10.8: 2,929,251 2,944,429 10.85: 2,964,955 15.2: 2,930,242 2,940,321 15.4: 2,926,532 2,958,225 15.6: 2,963,913 15.8: 2,945,382 15.86: 2,932,202 2,933,928 2,960,880 16: 2,931,232 17.8: 2,943,495 18.1: 2,929,252 2,941,407 2,945,383 2,959,966 18.2: 2,932,203 2,949,787 2,949,788 21: 2,932,204 22: 2,924,105 2,940,322 2,947,180 2,948,158 23: 2,949,789 25: 2,945,384 2,958,226 26: 2,937,536 2,947,181 2,958,228 27: 2,928,284 2,930,243 29: 2,951,379 32: 2,926,533 36: 2,951,380 37: 2,933,929 2,949,034 40: 2,942,483 2,942,484 2,953,029 42: 2,921,474 2,927,467 44: 2,924,106 2,929,255 2,932,205 2,962,904 48: 2,923,163 2,929,254 49: 2,936,632 50: 2,962,905 54: 2,923,164 2,935,877 2,953,030 2,953,031 2,956,437 55: 2,935,878 2,942,485 2,948,159 2,957,357 56: 2,943,496 2,959,967 57: 2,962,906 60: 2,920,488 2,936,633 2,940,323 2,940,324 2,940,325 2,944,430 2,947,182 2,955,475 61: 2,921,475 2,922,309 2,927,468 2,930,244 2,936,634 2,937,537 2,938,393 2,947,183 2,958,227 66: 2,920,489 68: 2,946,228 69: 2,947,184	70: 2,934,965 2,949,035 2,959,968 2,960,881 75: 2,945,385 76: 2,919,587 2,919,588 78: 2,919,589 84: 2,921,476 2,959,061 2,962,907 86: 2,932,975 87: 2,921,477 2,940,326 2,945,386 2,955,476 2,956,438 2,963,914 88: 2,959,969 2,963,915 89: 2,932,206 2,936,635 2,944,431 2,945,387 2,964,229 2,949,036 2,949,790 2,951,381 2,959,970 2,963,916 2,966,064 95: 2,947,185 2,953,928 96: 2,928,285 2,930,245 2,932,976 2,939,326 2,944,432 97: 2,957,358 99: 2,924,107 2,962,908 100: 2,951,382 2,953,929 2,960,882 2,961,880 104: 2,919,590 2,931,233 105: 2,927,469 2,934,966 2,964,956 106: 2,936,636 2,945,497 2,945,498 2,949,037 107: 2,947,186 110: 2,945,160 2,963,917 112: 2,921,478 116: 2,952,159 117: 2,950,623 2,959,062 119: 2,929,255 125: 2,924,981 2,942,486 126: 2,932,165 2,926,534 2,954,701 2,964,957 129: 2,933,930 130: 2,940,327 141.5: 2,919,591 142: 2,947,187 144: 2,933,931 152: 2,938,394 157: 2,936,637 165: 2,940,328 169: 2,926,535 2,951,383 190: 2,955,477 2,961,881 197: 2,942,487 198: 2,933,932 2,951,384 2,956,439 2,959,971 199: 2,925,737 2,925,738 2,945,388 2,951,385 2,956,440 2,958,229 2,964,958 200: 2,926,536 2,931,234 2,931,235 2,936,638 2,939,327 2,951,386 2,952,160 2,956,441 2,959,972 2,959,973
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## Class 74

1: 2,924,101

2,936,625

2,939,321

2,940,316

2,942,477

2,948,154

2,951,372

2,959,058

1.5: 2,924,102

2,946,227

2,962,900



## Class 74—Con.

200: 2,961,882 2,961,883 2,962,909	202: 2,941,408 2,950,624	206: 2,933,933 2,920,490	208: 2,942,488 2,959,063 2,935,879	209: 2,951,387 2,926,537	216.3: 2,953,930 2,941,409	217: 2,924,982 2,930,246	222: 2,936,639 2,937,538	229: 2,941,410 2,961,664 2,920,491 2,925,739 2,931,236 2,941,411 2,920,492 2,920,493 2,924,108 2,927,470 2,928,286 2,938,395 2,940,329 2,941,412 2,943,499 2,944,433 2,944,434 2,950,625 2,951,388 2,952,161 2,953,033 2,957,359 2,962,910	230.3: 2,922,310 2,933,934 2,958,230	230.5: 2,923,166 2,933,935	230.6: 2,953,032 2,954,702	230.7: 2,954,702 2,919,592	231: 2,941,413 2,936,640	232: 2,920,494 2,945,389	237: 2,945,390 2,935,880 2,966,065	241: 2,966,066 2,960,883 2,925,740 2,927,471 2,924,109 2,963,918 2,932,207 2,935,881 2,924,110 2,945,391 2,952,162 2,956,442 2,938,396 2,920,495 2,921,479 2,924,983 2,938,397 2,935,882 2,947,188 2,950,626 2,943,500 2,931,237 2,943,501 2,944,435 2,955,478 2,964,959	242.1: 2,922,311 2,922,312 2,924,111 2,929,256 2,931,238 2,942,489 2,956,443 2,956,444 2,961,884	242.12: 2,951,389 2,919,593 2,929,257 2,939,328 2,943,502	242: 2,947,189 2,947,190 2,966,067 2,936,641	351: 2,926,538 2,957,360 2,964,960 2,938,398 2,955,479 2,920,496 2,943,503 2,932,208 2,958,231 2,943,504 2,946,230 2,949,038 2,924,984 2,926,539 2,926,540 2,933,936 2,919,594 2,942,490 2,937,539 2,961,885 2,953,034 2,936,642 2,924,985 2,927,472 2,941,414 2,953,931 2,948,161 2,959,974 2,949,039 2,949,791 2,925,741 2,926,541 2,928,287 2,930,247 2,931,239 2,931,240 2,935,883 2,938,399 2,939,329 2,953,932 2,953,933 2,957,361 2,961,886 2,962,911 2,949,040 2,922,313 2,956,445 2,943,505 2,919,595 2,946,231 2,955,480 2,950,627 2,948,162 2,925,742 2,957,362 2,935,884 2,936,643 2,941,415 2,946,232 2,959,975 2,962,912 2,920,497 2,931,241 2,928,288 2,939,330 2,943,506 2,949,041 2,926,542 2,936,644 2,943,507 2,946,233 2,946,234 2,950,628 2,966,068 2,954,703 2,964,961 2,924,112 2,925,743 2,927,473 2,928,289 2,932,209 2,933,937 2,933,939 2,934,968 2,934,969 2,938,400 2,938,402 2,943,508 2,944,436 2,944,437 2,946,235 2,951,390 2,953,934 2,958,232 2,961,887 2,966,069 2,966,070 2,966,072 2,935,885 2,949,042 2,951,391	352: 2,926,538 2,957,360 2,964,960 2,938,398 2,955,479 2,920,496 2,943,503 2,932,208 2,958,231 2,943,504 2,946,230 2,949,038 2,924,984 2,926,539 2,926,540 2,933,936 2,919,594 2,942,490 2,937,539 2,961,885 2,953,034 2,936,642 2,924,985 2,927,472 2,941,414 2,953,931 2,948,161 2,959,974 2,949,039 2,949,791 2,925,741 2,926,541 2,928,287 2,930,247 2,931,239 2,931,240 2,935,883 2,938,399 2,939,329 2,953,932 2,953,933 2,957,361 2,961,886 2,962,911 2,949,040 2,922,313 2,956,445 2,943,505 2,919,595 2,946,231 2,955,480 2,950,627 2,948,162 2,925,742 2,957,362 2,935,884 2,936,643 2,941,415 2,946,232 2,959,975 2,962,912 2,920,497 2,931,241 2,928,288 2,939,330 2,943,506 2,949,041 2,926,542 2,936,644 2,943,507 2,946,233 2,946,234 2,950,628 2,966,068 2,954,703 2,964,961 2,924,112 2,925,743 2,927,473 2,928,289 2,932,209 2,933,937 2,933,939 2,934,968 2,934,969 2,938,400 2,938,402 2,943,508 2,944,436 2,944,437 2,946,235 2,951,390 2,953,934 2,958,232 2,961,887 2,966,069 2,966,070 2,966,072 2,935,885 2,949,042 2,951,391	425.5: 2,933,938 2,962,913 2,934,970 2,933,940 2,957,363 2,955,481 2,959,065 2,919,596 2,933,941 2,936,645 2,959,064 2,959,976 2,939,331 2,952,163 2,935,886 2,935,887 2,935,888 2,959,977 2,924,113 2,925,744 2,936,646 2,945,392 2,959,978 2,930,248 2,942,491 2,961,888 2,943,509 2,960,884 2,923,167 2,954,704 2,935,889 2,949,043 2,959,066 2,920,498 2,930,249 2,940,330 2,944,438 2,929,258 2,957,353 2,932,210 2,933,942 2,933,943 2,935,890 2,936,647 2,939,332 2,947,191 2,958,233 2,919,597 2,919,598 2,920,499 2,922,314 2,924,114 2,924,986 2,924,987 2,926,543 2,927,474 2,927,475 2,928,290 2,929,259 2,931,242 2,932,211 2,932,977 2,933,944 2,935,891 2,936,648 2,938,403 2,939,333 2,940,331 2,945,393 2,945,394 2,947,192 2,948,163 2,950,629 2,955,482 2,957,352 2,958,234 2,961,889 2,964,962 2,964,963 2,922,315 2,928,294 2,932,980 2,936,652 2,940,333 2,941,417 2,946,237 2,956,447 2,924,989 2,943,511 2,919,601 2,923,169 2,935,895 2,959,982 2,963,920 2,924,118 2,937,541 2,941,418 2,945,396 2,940,334 2,955,484 2,932,981 2,934,972	436: 2,934,970 2,933,940 2,957,363 2,955,481 2,959,065 2,933,941 2,936,645 2,959,064 2,959,976 2,939,331 2,952,163 2,935,886 2,935,887 2,935,888 2,959,977 2,924,113 2,925,744 2,936,646 2,945,392 2,959,978 2,930,248 2,942,491 2,961,888 2,943,509 2,960,884 2,923,167 2,954,704 2,935,889 2,949,043 2,959,066 2,920,498 2,930,249 2,940,330 2,944,438 2,929,258 2,957,353 2,932,210 2,933,942 2,933,943 2,935,890 2,936,647 2,939,332 2,947,191 2,958,233 2,919,597 2,919,598 2,920,499 2,922,314 2,924,114 2,924,986 2,924,987 2,926,543 2,927,474 2,927,475 2,928,290 2,929,259 2,931,242 2,932,211 2,932,977 2,933,944 2,935,891 2,936,648 2,938,403 2,939,333 2,940,331 2,945,393 2,945,394 2,947,192 2,948,163 2,950,629 2,955,482 2,957,352 2,958,234 2,961,889 2,964,962 2,964,963 2,922,315 2,928,294 2,932,980 2,936,652 2,940,333 2,941,417 2,946,237 2,956,447 2,924,989 2,943,511 2,919,601 2,923,169 2,935,895 2,959,982 2,963,920 2,924,118 2,937,541 2,941,418 2,945,396 2,940,334 2,955,484 2,932,981 2,934,972	480: 2,935,892 2,946,236 2,955,483 2,949,044 2,964,965 2,930,250 2,954,705 2,960,885 2,933,948 2,959,979 2,964,966 2,919,600 2,926,544 2,929,261 2,931,244 2,953,036 2,959,977 2,943,510 2,960,886 2,924,115 2,936,650 2,920,500 2,930,251 2,939,334 2,961,891 2,922,316 2,926,545 2,929,262 2,929,263 2,928,291 2,963,919 2,964,967 2,935,893 2,945,395 2,958,235 2,958,236 2,931,245 2,938,404 2,947,194 2,957,353 2,959,980 2,964,968 2,921,481 2,921,481 2,934,971 2,932,214 2,932,215 2,957,354 2,923,168 2,928,292 2,935,894 2,953,037 2,951,394 2,953,937 2,954,706 2,954,707 2,959,981 2,966,073 2,929,264 2,939,335 2,930,252 2,964,969 2,928,293 2,928,293 2,937,540 2,955,486 2,959,983 2,929,265 2,929,266 2,930,254 2,931,248 2,931,249 2,943,513 2,919,603 2,924,990 2,929,267 2,936,653 2,940,336 2,950,630 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2,941,429 2,941,430 2,941,431 2,942,507 2,947,207 2,948,170 2,948,171 2,951,404 2,952,174 2,952,175 2,953,048 2,955,495 2,956,458 2,956,459 2,957,376 2,959,993 15.5: 2,956,460 15.6: 2,928,300 15.7: 2,920,515 2,931,261 15.8: 2,920,516 17: 2,954,713 17.2: 2,941,432 19: 2,923,190 2,958,245 21: 2,919,614 38: 2,938,414 2,948,172 43: 2,943,521 52.3: 2,954,714 2,961,903 52.35: 2,923,191 52.4: 2,924,134 2,930,267 2,933,959 2,934,985 2,936,661 2,936,662 2,948,173 2,952,176 2,959,078 2,962,918 53: 2,923,192 2,928,301 2,933,960 2,933,961 2,933,962 2,943,522 2,947,208 2,949,800 2,950,639 2,961,405 2,960,895 54: 2,927,491 2,952,177 2,953,049 55: 2,952,178 56: 2,928,302 2,955,496 57: 2,938,415 2,938,416 58.1: 2,954,715 58.3: 2,947,209 60: 2,961,904 62: 2,963,929 63: 2,943,523 64: 2,959,994 2,960,896 65: 2,932,226 68: 2,944,452 69: 2,921,489 71: 2,933,963 2,951,406 2,956,461 72: 2,955,497 90: 2,920,517 2,933,964 2,940,344 2,964,980 2,966,083 91: 2,937,550 97: 2,957,378 99: 2,953,050 2,958,246 120: 2,959,995	121: 2,944,453 2,961,905 125: 2,956,462 129: 2,943,524 2,948,174 154: 2,948,175 165: 2,955,498 170: 2,920,287 177: Re.24,831 2,939,351 2,963,930 2,964,981 179: 2,937,551 2,959,996 185: 2,938,417 186: 2,935,954 2,962,919 330: 2,942,508 370: 2,920,518 380: 2,940,345 416: 2,940,346 Class 82 1: 2,937,552 2,955,499 2: 2,931,262 2.7: 2,939,352 11: 2,919,615 2,942,509 2,946,249 12: 2,933,965 14: 2,920,519 2,922,327 2,929,288 2,938,418 2,940,347 2,966,084 15: 2,944,454 19: 2,924,135 2,932,227 20: 2,940,348 23: 2,933,001 24: 2,922,328 33: 2,942,510 2,944,455 2,951,407 34: 2,921,490 2,923,193 2,961,906 39: 2,956,463 46: 2,964,982 92: 2,962,920 Class 83 3: 2,936,663 13: 2,961,907 16: 2,925,864 2,931,263 23: 2,937,553 29: 2,942,511 2,950,640 53: 2,948,176 71: 2,958,247 72: 2,959,079 80: 2,930,268 82: 2,939,353 88: 2,951,408 100: 2,960,898 104: 2,920,520 114: 2,932,228 117: 2,966,085 122: 2,959,997 129: 2,928,303 140: 2,953,051 151: 2,944,456 155: 2,948,177 165: 2,939,354 168: 2,949,801 170: 2,961,908 175: 2,934,986 2,966,086 176: 2,923,194 2,925,005 2,946,250 201: 2,932,229 203: 2,937,554 205: 2,928,304 2,955,500 206: 2,959,080 207: 2,940,349 214: 2,932,230 215: 2,920,521 221: 2,944,457 222: 2,933,002 2,939,355 223: 2,963,931 228: 2,951,409 247: 2,966,087 257: 2,956,464
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## Class 83—Con.

304: 2,951,410  
 306: 2,924,136  
 311: 2,930,269  
 324: Re.24,807  
 337: 2,939,356  
 2,963,932  
 345: 2,937,555  
 349: 2,961,909  
 355: 2,953,955  
 2,962,921  
 360: 2,934,987  
 364: 2,949,802  
 369: 2,959,998  
 373: 2,933,966  
 380: 2,939,357  
 386: 2,959,081  
 399: 2,928,305  
 407: 2,958,218  
 411: 2,929,289  
 422: 2,933,003  
 2,967,379  
 423: 2,925,749  
 436: 2,921,491  
 437: 2,930,270  
 2,944,458  
 444: 2,953,956  
 470: 2,961,910  
 471: 2,921,492  
 482: 2,940,350  
 487: 2,936,664  
 488: 2,946,251  
 549: 2,957,380  
 553: 2,964,983  
 561: 2,959,082  
 583: 2,936,665  
 607: 2,923,193  
 611: 2,921,495  
 618: 2,951,411  
 619: 2,930,271  
 623: 2,926,557  
 628: 2,955,501  
 634: 2,966,088  
 641: 2,939,358  
 660: 2,956,465  
 694: 2,964,984  
 698: 2,927,492

## Class 84

1.01: 2,933,004  
 2,941,433  
 2,946,252  
 2,962,922  
 1.04: 2,919,616  
 2,921,494  
 2,934,988  
 2,938,419  
 2,945,408  
 2,949,052  
 1.06: 2,949,053  
 1.11: 2,949,803  
 1.12: 2,922,329  
 1.14: 2,932,231  
 2,942,512  
 1.15: 2,938,420  
 2,948,178  
 2,964,985  
 1.16: 2,920,522  
 2,933,967  
 2,953,052  
 2,958,249  
 1.17: 2,939,359  
 2,953,053  
 1.18: 2,941,434  
 2,946,253  
 2,960,899  
 1.19: 2,964,986  
 1.2: 2,963,933  
 1.22: 2,941,435  
 2,949,804  
 1.24: 2,949,805  
 2,952,179  
 1.25: 2,953,054  
 1.26: 2,924,137  
 2,928,306  
 2,937,556  
 2,951,412  
 2,953,055  
 2,953,056  
 1.28: 2,924,138  
 2,940,351  
 2,959,083  
 25: 2,936,666  
 2,943,525  
 83: 2,950,641  
 94: 2,955,502  
 95: 2,921,495  
 2,929,290  
 2,930,272  
 2,959,084  
 2,964,987

97: 2,956,466  
 2,961,911  
 101: 2,964,988  
 103: 2,922,330  
 105: 2,953,957  
 107: 2,924,139  
 171: 2,932,232  
 174: 2,925,006  
 177: 2,947,210  
 198: 2,948,179  
 229: 2,953,958  
 236: 2,950,642  
 237: 2,928,307  
 243: 2,963,934  
 251: 2,927,493  
 2,948,180  
 255: 2,930,273  
 267: 2,956,467  
 282: 2,933,005  
 290: 2,960,900  
 297: 2,949,806  
 305: 2,951,413  
 306: 2,955,503  
 2,960,901  
 314: 2,959,085  
 322: 2,961,912  
 330: 2,937,557  
 337: 2,954,716  
 348: 2,945,409  
 351: 2,932,233  
 376: 2,929,291  
 2,930,274  
 2,950,643  
 380: 2,933,968  
 2,944,459  
 2,957,381  
 382: 2,951,414  
 383: 2,919,617  
 386: 2,943,526  
 388: 2,929,292  
 397: 2,945,410  
 408: 2,943,527  
 2,965,451  
 405: 2,966,089  
 409: 2,928,308  
 2,948,181  
 414: 2,934,989  
 421: 2,919,618  
 423: 2,928,309  
 443: 2,919,619  
 454: 2,919,620  
 2,958,250  
 455: 2,961,913  
 470: 2,927,494  
 471: 2,946,254  
 473: 2,925,750  
 2,941,436  
 477: 2,958,251  
 480: 2,938,421

## Class 85

1: 2,927,495  
 2,927,496  
 2,933,006  
 2,954,717  
 2.4: 2,933,007  
 2,955,504  
 2,963,935  
 2,964,989  
 3: 2,933,969  
 5: 2,927,497  
 2,955,505  
 7: 2,941,437  
 2,945,411  
 8.1: 2,937,558  
 8.8: 2,933,970  
 2,962,923  
 9: 2,936,667  
 23: 2,934,990  
 29: 2,919,621  
 32: 2,961,914  
 33: 2,931,264  
 2,941,438  
 36: 2,936,668  
 2,960,902  
 40: 2,941,439  
 2,954,718  
 2,956,468  
 2,956,469  
 2,959,999  
 45: Re.24,878  
 2,931,265  
 2,954,719  
 46: 2,959,086  
 47: 2,949,054  
 2,956,470  
 62: 2,943,528

## Class 86

1: 2,924,140  
 2,927,498  
 2,930,275  
 2,940,352  
 2,942,513  
 20: 2,920,523  
 2,927,499  
 2,930,276  
 2,936,669  
 2,940,353  
 2,953,057  
 2,953,959  
 2,957,382  
 2,960,000  
 22: 2,930,277  
 23: 2,960,903  
 25: 2,961,915  
 39: 2,956,471  
 45: 2,953,058

## Class 87

1: 2,945,412  
 2: 2,948,182  
 2,960,904  
 4: 2,957,383  
 8: 2,936,670  
 2,949,807  
 9: 2,924,141  
 27: 2,962,924  
 33: 2,958,252  
 50: 2,941,440  
 53: 2,951,415  
 55: 2,960,905  
 56: 2,933,971  
 62: 2,939,360

## Class 88

1: Re.24,770  
 2,919,622  
 2,921,496  
 2,925,751  
 2,926,558  
 2,927,500  
 2,929,293  
 2,930,278  
 2,937,559  
 2,938,422  
 2,941,441  
 2,942,514  
 2,943,529  
 2,943,530  
 2,945,413  
 2,945,414  
 2,946,255  
 2,949,055  
 2,949,808  
 2,953,059  
 2,953,960  
 2,953,961  
 2,953,962  
 2,955,506  
 2,955,507  
 2,956,472  
 2,957,384  
 2,958,253  
 2,959,087  
 2,959,088  
 2,960,001  
 2,960,906  
 2,962,925  
 2,963,936  
 2,963,937  
 2,964,990  
 2,966,090  
 1.5: 2,919,623  
 2,923,196  
 2,945,415  
 2,952,180  
 2.3: 2,949,056  
 2.4: 2,940,354  
 2,945,416  
 2,946,256  
 2,953,060  
 2,961,916  
 2.6: 2,954,720  
 2,964,991  
 2.7: 2,932,234  
 2,940,356  
 2,961,919  
 2,962,927  
 2,966,094  
 14: 2,919,624  
 2,920,524  
 2,920,525  
 2,921,497  
 2,921,267  
 2,922,332  
 2,923,197  
 2,923,198  
 2,924,142  
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14: 2,927,501  
 2,928,310  
 2,929,294  
 2,930,279  
 2,931,266  
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 2,933,972  
 2,933,973  
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 2,934,172  
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 2,941,443  
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 2,942,515  
 2,943,581  
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 16: 2,924,143  
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 16.2: 2,928,314  
 2,932,235  
 2,937,565  
 2,938,425  
 2,942,516  
 2,952,182  
 2,953,964  
 2,966,005

16.8: 2,939,362  
 2,952,183  
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 17: 2,928,315  
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 2,947,215  
 2,950,646  
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 2,955,510  
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 18: 2,923,199  
 2,953,965  
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 19: 2,937,566  
 19.4: 2,941,445  
 20: 2,933,977  
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 22: 2,923,200  
 2,949,810  
 22.5: 2,927,502  
 23: 2,924,144  
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 2,930,281  
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 24: 2,919,625  
 2,920,527  
 2,921,498  
 2,921,499  
 2,922,333  
 2,925,752  
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 2,960,911  
 2,961,920  
 2,961,921  
 2,963,940  
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 2,964,994  
 2,964,995  
 26: 2,927,504  
 2,928,316  
 28: 2,922,334  
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 2,925,009  
 2,925,753  
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 2,933,979  
 2,936,672  
 2,949,814  
 2,949,815  
 2,953,966  
 2,953,967  
 2,960,004  
 2,960,005  
 2,961,922  
 28.9: 2,931,269  
 2,934,997  
 2,942,517  
 2,944,462

28.93: 2,934,998  
 2,948,187  
 29: 2,930,288  
 2,933,015  
 2,934,999  
 2,951,417  
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 2,960,006  
 31: 2,945,418  
 32: 2,937,570  
 2,948,188  
 2,948,189  
 2,949,816  
 2,955,512  
 2,960,912  
 33: 2,940,359  
 34: 2,939,363  
 2,939,942  
 39: 2,922,336  
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 2,935,910  
 2,936,673  
 2,942,518  
 2,942,519  
 2,944,463  
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 2,957,390  
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 40: 2,927,505  
 2,940,360  
 2,942,520  
 2,948,190  
 2,949,817  
 2,950,650  
 2,959,097  
 2,960,913  
 2,938,429  
 41: 2,921,500  
 2,926,563  
 2,946,258  
 2,951,418  
 2,952,187  
 2,953,968  
 47: 2,949,818  
 52: 2,959,098  
 53: 2,933,016  
 2,931,923  
 54: 2,923,201  
 2,936,674  
 56: 2,961,924  
 57: 2,919,626  
 2,920,528  
 2,922,337  
 2,923,202  
 2,923,203  
 2,924,145  
 2,924,146  
 2,944,461  
 2,947,217  
 2,947,218  
 2,948,186  
 2,949,057  
 2,949,811  
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 2,960,911  
 2,961,920  
 2,961,921  
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 2,964,994  
 2,964,995  
 26: 2,927,504  
 2,928,316  
 28: 2,922,334  
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 2,925,009  
 2,925,753  
 2,929,296  
 2,930,285  
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 2,936,672  
 2,949,814  
 2,949,815  
 2,953,966  
 2,953,967  
 2,960,004  
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 2,961,922  
 28.9: 2,931,269  
 2,934,997  
 2,942,517  
 2,944,462

76: 2,961,926  
 77: 2,964,999  
 78: 2,956,476  
 79: 2,941,447  
 2,942,521  
 81: 2,939,364  
 2,949,058  
 82: 2,948,191  
 2,961,419  
 85: 2,949,059  
 86: 2,942,522  
 2,953,062  
 92: 2,953,969  
 93: 2,928,318  
 2,933,019  
 2,962,933  
 97: 2,943,536  
 2,960,007  
 98: 2,940,361  
 106: 2,959,105  
 113: 2,953,970

## Class 89

1: 2,919,627  
 2,919,628  
 2,920,530  
 2,920,531  
 2,920,532  
 2,922,338  
 2,922,339  
 2,940,360  
 2,942,520  
 2,948,190  
 2,949,817  
 2,950,650  
 2,959,097  
 2,960,913  
 2,938,429  
 41: 2,921,500  
 2,926,563  
 2,946,258  
 2,951,418  
 2,952,187  
 2,953,968  
 47: 2,949,818  
 52: 2,959,098  
 53: 2,933,016  
 2,931,923  
 54: 2,923,201  
 2,936,674  
 56: 2,961,924  
 57: 2,919,626  
 2,920,528  
 2,922,337  
 2,923,202  
 2,923,203  
 2,924,145  
 2,924,146  
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 2,954,723  
 2,955,511  
 2,957,389  
 2,958,258  
 2,959,094  
 2,959,096  
 2,959,097  
 2,960,911  
 2,961,920  
 2,961,921  
 2,963,940  
 2,963,941  
 2,964,994  
 2,964,995  
 26: 2,927,504  
 2,928,316  
 28: 2,922,334  
 2,922,335  
 2,925,009  
 2,925,753  
 2,929,296  
 2,930,285  
 2,933,979  
 2,936,672  
 2,949,814  
 2,949,815  
 2,953,966  
 2,953,967  
 2,960,004  
 2,960,005  
 2,961,922  
 28.9: 2,931,269  
 2,934,997  
 2,942,517  
 2,944,462



20: 2,960,916	11: 2,962,938	36: 2,923,211	46: 2,922,345	11: 2,952,195	48: 2,959,112	77: 2,929,309
26: 2,942,525	2,965,007	2,925,020	2,947,230	2,953,979	2,930,304	2,949,077
27: 2,935,432	11.44: 2,953,069	2,935,916	2,950,660	11.5: 2,922,348	53: 2,924,159	77.5: 2,921,513
28: 2,926,566	11.62: 2,923,206	36.01: 2,958,266	2,951,426	2,923,218	2,926,581	2,933,997
2,948,192	12: 2,919,631	36.1: 2,942,530	2,957,397	2,928,325	53.6: 2,935,005	2,936,691
33: 2,957,391	2,929,239	36.3: 2,941,452	48: 2,928,321	2,930,298	2,938,445	2,946,272
2,920,535	2,930,289	36.5: 2,925,757	2,938,438	2,932,243	55: 2,921,510	79: 2,963,952
2,924,150	2,930,290	2,942,531	2,951,427	2,933,025	2,927,519	85: 2,933,998
2,926,567	2,933,021	2,942,532	2,952,193	2,949,072	2,944,476	2,933,999
2,935,914	2,940,367	2,947,228	2,958,268	2,953,074	2,950,665	86: 2,926,591
2,936,677	2,949,064	2,950,657	49: 2,920,540	2,956,489	57: 2,924,160	2,935,006
2,951,422	13: 2,933,985	2,960,014	2,928,322	2,956,490	2,928,326	2,945,428
2,956,480	2,937,576	2,962,943	2,949,829	2,960,922	2,931,284	2,949,838
34: 2,951,423	2,939,367	2,931,276	50: 2,925,759	2,963,948	2,949,834	2,952,200
35: 2,925,015	2,944,466	41: 2,962,944	2,929,304	2,966,102	2,953,982	2,961,937
2,947,222	2,958,262	49: 2,924,156	2,938,439	2,933,026	12: 2,923,219	2,966,107
36: 2,939,366	2,958,263	2,937,578	2,943,541	2,933,992	2,933,992	89: 2,919,637
37: 2,938,433	2,962,939	2,953,070	2,954,726	2,937,584	2,961,934	2,920,548
2,940,364	2,966,097	2,962,945	2,962,950	2,943,547	60: 2,940,374	2,922,352
2,946,262	13.1: 2,925,756	51: 2,919,633	<b>Class 95</b>	2,937,584	2,963,951	2,922,353
2,946,263	13.2: 2,933,022	2,921,506	1: 2,932,241	2,937,585	61: 2,926,582	2,925,767
2,960,010	13.4: 2,925,017	2,921,507	2,936,682	2,949,830	62: 2,952,198	2,926,592
37.5: 2,938,434	2,953,973	2,925,758	2,936,683	2,950,663	63: 2,920,546	2,933,032
41: 2,938,435	13.5: 2,939,368	2,929,302	2,941,453	2,955,518	2,925,024	2,934,000
2,948,193	2,946,265	2,930,293	2,960,015	2,961,933	2,944,477	2,938,448
2,949,824	2,960,012	2,942,533	1.1: 2,922,346	2,963,949	2,948,205	2,943,555
2,949,825	13.9: 2,962,941	2,942,534	2,927,515	13: 2,930,299	2,949,075	2,948,208
2,965,002	14: 2,929,300	2,942,535	2,930,296	2,930,300	2,953,075	2,948,209
44: 2,920,536	15: 2,921,505	52: 2,931,277	2,933,993	2,930,301	2,953,076	2,949,839
2,962,935	2,923,207	53: 2,927,511	2,936,684	2,933,993	2,953,983	2,958,271
45: 2,933,020	2,949,065	2,935,918	2,942,537	2,935,004	2,961,935	2,961,938
47: 2,933,982	2,951,425	2,936,681	2,943,542	2,946,270	64: 2,920,547	2,963,953
126: 2,926,568	2,958,264	2,947,229	2,953,073	2,950,664	2,921,511	2,966,108
2,959,106	2,960,013	2,956,483	2,958,269	2,966,103	2,924,161	90: 2,965,013
2,965,003	2,965,008	54: 2,958,267	1.7: 2,927,516	2,930,302	2,924,162	2,957,401
2,965,004	15.1: 2,942,526	2,961,931	2,950,661	2,927,517	2,925,764	2,959,115
129: 2,948,194	2,953,974	58: 2,948,827	2,956,487	2,941,458	2,925,765	98: 2,927,521
2,956,481	2,953,974	2,950,658	2,961,932	2,923,220	2,926,583	2,947,235
135: 2,935,001	16: 2,925,018	58.2: 2,942,534	4.5: 2,920,541	2,943,548	2,926,584	2,947,236
139: 2,965,005	2,925,018	58.3: 2,949,066	2,923,212	2,921,509	2,926,585	94: 2,924,163
145: 2,959,107	2,933,986	58.4: 2,933,987	2,923,213	2,922,349	2,926,586	2,928,329
149: 2,921,502	2,955,515	60: 2,959,110	2,923,214	2,922,350	2,926,587	2,933,033
154: 2,945,422	17: 2,930,291	61: 2,953,071	2,923,215	2,933,994	2,926,588	2,939,373
155: 2,950,652	2,956,482	62: 2,944,470	2,924,157	2,936,686	2,926,589	2,945,429
2,965,006	2,963,944	63: 2,920,539	2,930,297	2,953,980	2,926,590	2,952,201
156: 2,920,537	18: 2,926,570	80: 2,922,343	2,933,990	19: 2,925,761	2,929,307	2,956,494
182: 2,960,011	2,942,527	2,935,078	2,944,471	2,939,371	2,929,308	96: 2,930,306
183: 2,919,630	2,958,265	2,941,453	2,944,472	23: 2,923,221	2,935,922	99: 2,946,273
2,948,195	2,966,098	2,948,208	2,946,268	30: 2,929,306	2,936,690	100: 2,924,164
185: 2,920,538	22: 2,952,190	2,945,203	2,946,269	31: 2,924,158	2,937,587	2,933,034
2,941,449	2,960,917	2,950,662	2,947,225	2,926,574	2,938,446	101: 2,941,462
2,950,653	2,962,936	2,951,428	2,947,226	2,927,518	2,943,551	102: 2,926,593
186: 2,953,066	2,963,946	2,958,270	2,947,227	2,930,303	2,943,552	103: 2,930,307
190: 2,923,205	2,963,946	2,963,947	2,947,228	2,931,282	2,948,206	104: 2,949,840
2,960,917	2,963,946	2,963,947	2,947,229	2,931,283	2,949,076	
2,962,936	2,963,946	2,963,947	2,947,230	2,933,027	2,949,835	<b>Class 96</b>
191: 2,941,450	2,963,946	2,963,947	2,947,231	2,936,687	2,949,836	1: 2,924,519
2,951,424	2,963,946	2,963,947	2,947,232	2,938,442	2,949,837	2,937,943
193: 2,935,915	2,963,946	2,963,947	2,947,233	2,938,443	2,950,666	2,937,944
194: 2,933,983	2,963,946	2,963,947	2,947,234	2,945,204	2,952,199	2,939,787
195: 2,921,503	2,963,946	2,963,947	2,947,235	2,949,831	2,955,519	2,940,847
199: 2,945,423	2,963,946	2,963,947	2,947,236	2,949,832	2,956,491	2,940,848
<b>Class 90</b>	2,963,946	2,963,947	2,947,237	2,960,017	2,956,492	2,946,682
1: 2,931,274	2,963,946	2,963,947	2,947,238	2,926,571	2,957,398	2,947,625
1.4: 2,921,504	2,963,946	2,963,947	2,947,239	2,928,323	2,959,113	2,952,536
2,943,537	2,963,946	2,963,947	2,947,240	2,932,242	2,961,936	2,954,291
2,950,654	2,963,946	2,963,947	2,947,241	2,933,991	2,965,011	2,955,035
1.6: 2,936,678	2,963,946	2,963,947	2,947,242	2,935,920	2,965,012	2,955,938
2,938,436	2,963,946	2,963,947	2,947,243	2,935,921	2,966,105	2,956,874
2,945,424	2,963,946	2,963,947	2,947,244	2,937,582	2,966,106	2,956,875
2,945,425	2,963,946	2,963,947	2,947,245	2,938,440	2,966,107	2,957,765
2,946,264	2,963,946	2,963,947	2,947,246	2,940,369	2,966,108	2,959,481
2,953,067	2,963,946	2,963,947	2,947,247	2,943,543	2,966,109	2,962,374
2,955,514	2,963,946	2,963,947	2,947,248	2,943,544	2,966,110	2,962,375
4: 2,924,151	2,963,946	2,963,947	2,947,249	2,943,545	2,966,111	2,962,376
2,926,569	2,963,946	2,963,947	2,947,250	2,944,473	2,966,112	2,962,377
2,927,509	2,963,946	2,963,947	2,947,251	2,944,474	2,966,113	2,962,378
2,927,510	2,963,946	2,963,947	2,947,252	2,944,475	2,966,114	2,962,379
2,940,365	2,963,946	2,963,947	2,947,253	2,944,476	2,966,115	2,962,380
2,943,538	2,963,946	2,963,947	2,947,254	2,944,477	2,966,116	2,962,381
2,950,655	2,963,946	2,963,947	2,947,255	2,944,478	2,966,117	2,962,382
5: 2,932,239	2,963,946	2,963,947	2,947,256	2,944,479	2,966,118	2,962,383
2,947,223	2,963,946	2,963,947	2,947,257	2,944,480	2,966,119	2,962,384
2,949,062	2,963,946	2,963,947	2,947,258	2,944,481	2,966,120	2,962,385
6: 2,953,068	2,963,946	2,963,947	2,947,259	2,944,482	2,966,121	2,962,386
9: 2,962,937	2,963,946	2,963,947	2,947,260	2,944,483	2,966,122	2,962,387
11: 2,924,152	2,963,946	2,963,947	2,947,261	2,944,484	2,966,123	2,962,388
2,925,016	2,963,946	2,963,947	2,947,262	2,944,485	2,966,124	2,962,389
2,925,017	2,963,946	2,963,947	2,947,263	2,944,486	2,966,125	2,962,390
2,929,298	2,963,946	2,963,947	2,947,264	2,944,487	2,966,126	2,962,391
2,933,984	2,963,946	2,963,947	2,947,265	2,944,488	2,966,127	2,962,392
2,937,575	2,963,946	2,963,947	2,947,266	2,944,489	2,966,128	2,962,393
2,940,366	2,963,946	2,963,947	2,947,267	2,944,490	2,966,129	2,962,394
2,941,451	2,963,946	2,963,947	2,947,268	2,944,491	2,966,130	2,962,395
2,944,465	2,963,946	2,963,947	2,947,269	2,944,492	2,966,131	2,962,396
2,945,426	2,963,946	2,963,947	2,947,270	2,944,493	2,966,132	2,962,397
2,947,224	2,963,946	2,963,947	2,947,271	2,944,494	2,966,133	2,962,398
2,949,063	2,963,946	2,963,947	2,947,272	2,944,495	2,966,134	2,962,399
2,957,392	2,963,946	2,963,947	2,947,273	2,944,496	2,966,135	2,962,400
2,957,393	2,963,946	2,963,947	2,947,274	2,944,497	2,966,136	2,962,401
2,959,108	2,963,946	2,963,947	2,947,275	2,944,498	2,966,137	2,962,402
2,959,109	2,963,946	2,963,947	2,947,276	2,944,499	2,966,138	2,962,403
	2,963,946	2,963,947	2,947,277	2,944,500	2,966,139	2,962,404
	2,963,946	2,963,947	2,947,278	2,944,501	2,966,140	2,962,405
	2,963,946	2,963,947	2,947,279	2,944,502	2,966,141	2,962,406
	2,963,946	2,963,947	2,947,280	2,944,503	2,966,142	2,962,407
	2,963,946	2,963,947	2,947,281	2,944,504	2,966,143	2,962,408
	2,963,946	2,963,947	2,947,282	2,944,505	2,966,144	2,962,409
	2,963,946	2,963,947	2,947,283	2,944,506	2,966,145	2,962,410
	2,963,946	2,963,947	2,947,284	2,944,507	2,966,146	2,962,411
	2,963,946	2,963,947	2,947,285	2,944,508	2,966,147	2,962,412
	2,963,946	2,963,947	2,947,286	2,944,509	2,966,148	2,962,413
	2,963,946	2,963,947	2,947,287	2,944,510	2,966,149	2,962,414
	2,963,946	2,963,947	2,947,288	2,944,511	2,966,150	2,962,415
	2,963,94					



## Class 96—Con.

33: 2,922,715  
2,930,691  
2,937,085  
2,942,974  
2,948,610  
2,956,878  
2,958,599  
2,959,482  
34: 2,947,626  
2,950,193  
2,959,483  
2,920,959  
2,923,624  
2,924,520  
2,927,021  
2,927,022  
2,927,023  
2,927,858  
2,929,708  
2,932,570  
2,948,611  
2,951,753  
2,964,401  
36: 2,922,716  
2,933,387  
38: 2,961,313  
2,961,314  
41: 2,931,723  
2,950,969  
45: 2,925,339  
2,947,627  
2,959,484  
2,961,315  
48: 2,920,960  
2,945,760  
2,952,538  
49: 2,923,625  
2,923,626  
2,929,709  
2,931,724  
2,935,403  
53: 2,943,934  
55: 2,921,851  
2,945,761  
2,950,970  
2,964,402  
2,965,484  
56: 2,923,627  
58: 2,931,725  
60: 2,943,935  
2,944,895  
61: 2,930,692  
2,933,388  
63: 2,944,896  
64: 2,944,897  
65: 2,938,793  
66: 2,919,985  
2,930,693  
2,935,404  
2,939,789  
2,940,851  
2,944,898  
2,948,612  
2,949,359  
2,952,539  
2,955,036  
67: 2,928,735  
74: 2,927,024  
2,937,086  
2,947,628  
2,956,879  
75: 2,942,975  
2,943,936  
2,946,683  
2,950,194  
2,964,403  
79: 2,950,971  
83: 2,925,340  
2,963,366  
85: 2,928,736  
2,936,235  
2,964,404  
87: 2,937,087  
2,943,937  
90: 2,927,025  
2,953,454  
91: 2,940,852  
2,940,853  
2,946,684  
2,948,613  
93: 2,921,852  
2,950,195  
94: 2,933,389  
2,937,088  
2,940,854  
2,956,880  
2,960,404  
2,960,405  
95: 2,944,899  
97: 2,949,360

200: 2,920,961  
2,930,694  
2,933,390  
2,933,391  
2,937,089  
2,944,900  
2,945,762  
2,950,196  
201: 2,947,629  
2,954,292  
2,965,485  
202: 2,944,901  
2,956,881  
2,961,317  
204: 2,945,763  
2,947,630  
2,961,318  
205: 2,927,026  
2,955,939  
2,965,486  
206: 2,920,962  
2,947,631  
2,957,090  
2,940,855  
2,944,902  
2,955,037  
2,955,038  
208: 2,950,972  
2,956,882  
209: 2,948,614  
2,948,615  
209: 2,935,405  
2,953,455  
210: 2,950,197  
2,956,883  
211: 2,950,973  
213: 2,956,885  
214: 2,957,767  
215: 2,929,710  
2,949,361

**Class 98**  
1: 2,945,430  
2,949,841  
1.5: Re.24,900  
2,923,222  
2,928,330  
2,953,078  
2,960,020  
2,960,923  
2,961,939  
2,966,109  
2: 2,919,638  
2,925,768  
2,929,310  
2,931,286  
2,935,924  
2,949,842  
2,962,951  
2,963,954  
10: 2,923,223  
32: 2,936,692  
33: 2,954,727  
2,961,940  
34: 2,931,287  
36: 2,935,925  
2,939,374  
2,955,521  
37: 2,925,769  
2,939,375  
38: 2,921,514  
2,937,588  
2,944,478  
2,948,210  
2,957,402  
2,962,952  
39: 2,925,770  
2,935,007  
40: 2,920,549  
2,923,224  
2,928,331  
2,928,332  
2,928,333  
2,933,035  
2,935,008  
2,936,693  
2,937,589  
2,938,449  
2,939,376  
2,940,375  
2,940,376  
2,947,237  
2,947,238  
2,948,211  
2,955,522  
2,958,272  
2,959,116  
2,959,117  
2,962,953  
41: 2,957,403

42: 2,923,225  
2,924,165  
43: 2,933,036  
46: 2,956,495  
50: 2,947,239  
54: 2,935,009  
56: 2,955,523  
2,955,524  
2,962,954  
57: 2,949,843  
2,966,110  
67: 2,930,308  
75: 2,953,079  
80: 2,922,354  
84: 2,963,955  
86: 2,923,226  
2,940,377  
94: 2,925,026  
2,946,274  
2,950,667  
2,960,924  
98: 2,936,694  
99.8: 2,928,334  
101: 2,939,377  
103: 2,960,021  
108: 2,955,525  
109: 2,960,022  
110: 2,935,926  
2,954,728  
115: 2,923,227  
2,935,927  
2,939,378  
2,942,540  
2,961,941  
2,962,955  
116: 2,924,166  
2,963,956  
118: 2,930,309  
119: 2,965,014  
121: 2,923,228  
2,936,874  
2,955,526  
2,956,496  
2,962,956

## Class 99

1: 2,924,521  
2: 2,921,853  
2,924,522  
2,924,523  
2,924,524  
2,925,341  
2,925,342  
2,926,084  
2,926,085  
2,927,027  
2,928,737  
2,928,738  
2,928,739  
2,929,711  
2,929,712  
2,929,713  
2,930,695  
2,930,696  
2,931,726  
2,932,571  
2,933,392  
2,934,431  
2,934,432  
2,937,091  
2,938,794  
2,939,790  
2,941,884  
2,943,938  
2,945,764  
2,950,198  
2,951,759  
2,951,760  
2,952,540  
2,958,600  
2,960,406  
2,960,407  
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**Class 100**

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2: 2,943,558	31: 2,965,018	132: 2,947,243	2,940,388	2,947,252	2,960,935	2,925,779
3: 2,950,016	35: 2,923,232	132.5: 2,925,031	2,949,852	2,947,253	2,919,648	2,928,350
4: 2,938,451	2,927,525	2,931,294	376: 2,957,412	2,957,411	2,920,568	2,931,302
5: 2,930,313	2,934,004	2,935,937	377: 2,943,567	2,960,930	2,920,569	2,931,303
6: 2,957,406	2,949,079	2,936,706	378: 2,928,342	2,960,931	2,920,570	2,931,304
7: 2,938,452	2,952,204	2,938,456	2,945,438	2,921,519	2,921,522	2,935,023
8: 2,952,203	2,963,962	2,953,087	2,950,679	2,955,533	2,921,523	2,935,951
9: 2,956,998	37: 2,927,526	133: 2,927,530	2,952,205	2,965,031	2,921,524	2,941,473
10: 2,963,958	2,931,292	134.5: 2,927,531	2,953,090	2,923,238	2,921,525	2,951,445
11: 2,966,111	2,934,005	142: 2,925,032	2,965,024	2,926,604	2,925,776	2,955,536
12: 2,957,407	38: 2,920,556	145: 2,958,274	2,962,964	2,926,605	2,925,777	2,955,537
13: 2,940,382	40: 2,924,169	147: 2,949,850	380: 2,921,516	2,943,571	2,926,610	2,957,418
14: 2,953,082	2,936,701	148: 2,929,316	381: 2,921,516	2,965,032	2,926,611	2,962,969
15: 2,926,599	2,939,387	149: 2,929,316	2,940,389	2,925,038	2,928,346	2,966,119
16: 2,922,359	2,943,561	149.1: 2,931,295	2,961,950	2,955,534	2,928,347	2,934,021
17: 2,929,118	2,950,671	149.2: 2,930,317	384: 2,953,989	2,929,325	2,931,299	2,939,397
18: 2,920,553	42: 2,943,562	149.3: 2,930,317	395: 2,931,298	2,932,251	2,931,300	2,941,474
19: 2,941,464	43: 2,927,527	149.4: 2,941,466	401.1: 2,934,010	2,936,708	2,934,015	2,921,528
20: 2,957,408	44: 2,935,015	2,951,441	405: 2,920,559	2,944,485	2,934,016	2,934,022
21: 2,932,244	2,935,933	2,953,088	407: 2,923,235	2,953,093	2,934,017	2,938,464
22: 2,926,599	2,936,702	2,962,961	2,928,343	2,952,206	2,935,022	2,952,209
23: 2,947,241	2,946,278	2,962,962	2,963,967	2,921,520	2,935,950	2,944,487
24: 2,926,600	2,960,025	2,935,938	412: 2,928,344	2,939,391	2,938,461	2,965,036
25: 2,949,078	46: 2,936,703	2,936,707	2,933,040	2,942,546	2,940,392	2,922,372
26: 2,935,959	53: 2,919,640	2,951,442	415.1: 2,929,323	2,957,415	2,942,548	2,925,780
27: 2,946,277	2,965,019	2,957,411	2,937,593	2,960,933	2,942,549	2,945,445
28: 2,925,772	55: 2,931,293	154: 2,960,026	2,946,282	2,963,970	2,947,255	2,950,682
29: 2,947,242	66: 2,924,170	157: 2,920,557	2,953,091	2,963,971	2,949,855	2,950,683
30: 2,959,119	2,945,432	2,925,034	2,961,951	2,965,033	2,952,208	2,957,419
31: 2,945,431	68: 2,921,515	2,931,297	2,963,969	2,926,606	2,954,734	2,955,538
32: 2,935,030	2,951,438	2,947,248	2,965,025	2,926,607	2,958,284	2,931,305
33: 2,948,213	69: 2,943,563	2,961,949	416: 2,961,952	2,939,392	2,959,128	2,944,488
34: 2,960,926	76: 2,923,233	173: 2,958,275	420: 2,965,026	2,946,284	2,961,963	2,966,120
35: 2,935,931	77: 2,947,244	177: 2,944,482	2,965,027	2,949,854	2,962,967	2,961,964
36: 2,960,926	80: 2,963,963	178: 2,946,280	425: 2,944,484	2,960,934	2,965,035	2,957,420
37: 2,926,601	90: 2,924,171	2,962,962	2,960,028	2,920,563	2,934,019	2,940,395
38: 2,939,397	2,945,433	181: 2,925,035	2,961,953	2,938,458	2,938,462	2,945,446
39: 2,926,601	91: 2,925,029	2,929,317	426: 2,921,517	2,940,391	2,938,463	2,922,373
40: 2,929,313	2,927,528	2,942,543	2,937,594	2,956,500	2,949,856	2,925,040
41: 2,950,670	2,928,337	182: 2,925,036	2,951,443	2,962,968	2,928,351	2,928,351
42: 2,953,083	2,933,038	183: 2,933,039		2,921,521	2,931,301	2,928,352
43: 2,955,528	2,937,592	2,940,387		2,926,607	2,934,018	2,930,321
44: 2,949,844	93: 2,919,641	185: 2,950,674		2,939,392	2,924,177	2,938,465
45: 2,930,314	2,926,602	195: 2,943,566	2: 2,921,518	2,942,547	2,943,573	2,940,396
46: 2,960,023	2,927,529	205: 2,954,732	3: 2,935,942	2,946,284	2,953,091	2,943,574
47: 2,936,699	2,928,338	216: 2,925,037	4: 2,934,011	2,949,854	2,958,285	2,948,221
48: 2,941,465	2,928,339	2,948,215	2,942,545	2,960,031	2,960,037	2,956,501
49: 2,920,554	2,930,316	2,930,318	2,945,439	2,920,560	2,923,242	2,961,965
50: 2,940,385	2,932,249	2,946,281	6: 2,958,277	2,935,945	2,925,778	2,962,970
51: 2,920,555	2,935,016	2,963,965	7: 2,920,560	2,953,990	2,934,019	2,962,970
52: 2,940,383	2,935,934	231: 2,929,318	2,934,568	2,947,254	2,948,219	2,921,529
53: 2,949,845	2,935,935	232: 2,929,319	2,953,092	2,965,034	2,951,444	2,936,712
54: 2,931,290	2,936,704	2,939,389	2,958,278	2,960,934	2,958,286	2,940,397
55: 2,920,554	2,938,455	2,945,434	2,959,123	2,936,709	2,921,526	2,951,446
56: 2,940,384	2,939,388	2,965,022	2,960,029	2,960,932	2,921,527	2,955,539
57: 2,954,730	2,940,385	2,927,532	2,961,954	2,924,174	2,947,256	2,962,971
58: 2,955,529	2,940,386	2,934,009	2,961,955	2,926,608	2,953,094	2,960,936
59: 2,934,007	2,942,542	2,960,027	2,965,028	2,932,252	2,939,394	2,948,222
60: 2,959,120	2,943,564	2,950,675	7.2: 2,920,561	2,937,595	2,934,020	2,950,684
61: 2,922,360	2,949,846	245: 2,932,250	7.6: 2,965,029	2,938,459	2,963,974	2,957,422
62: 2,923,231	2,950,672	248: 2,929,320	8: 2,923,236	2,941,468	2,954,735	2,967,427
63: 2,932,246	2,951,439	2,930,319	2,923,237	2,941,469	2,948,220	2,947,257
64: 2,953,084	2,953,986	2,948,216	2,940,390	2,944,486	2,963,975	2,947,258
65: 2,932,247	2,954,731	2,949,851	10: 2,947,249	2,945,442	2,932,253	2,953,992
66: 2,953,084	2,961,944	2,935,939	2,949,853	2,946,285	2,958,287	2,958,289
67: 2,960,927	2,966,113	2,942,544	13: 2,929,324	2,960,033	2,923,243	2,958,290
68: 2,960,928	2,966,114	2,958,276	16: 2,928,345	2,960,034	2,922,368	2,965,037
69: 2,962,958	2,962,958	272: 2,953,089	2,961,957	2,963,972	2,937,597	2,921,530
70: 2,962,959	2,962,959	274: 2,923,234	2,934,012	2,922,365	2,959,129	2,923,245
71: 2,962,958	2,962,958	2,945,435	2,943,569	2,923,241	2,928,348	2,939,398
72: 2,961,943	2,962,958	282: 2,922,363	2,945,440	2,924,175	2,939,395	2,942,550
73: 2,928,335	2,961,945	2,924,172	2,945,441	2,927,535	2,959,130	2,943,575
74: 2,951,437	99: 2,934,006	283: 2,938,457	2,958,279	2,935,947	2,926,613	2,958,291
75: 2,962,960	103: 2,946,279	284: 2,962,963	2,959,124	2,936,710	2,933,041	2,962,972
76: 2,938,453	109: 2,929,314	287: 2,963,966	2,960,030	2,952,207	2,939,396	2,930,322
77: 2,930,315	2,935,018	288: 2,919,643	2,961,958	2,957,416	2,958,288	2,919,650
78: 2,938,454	110: 2,957,410	2,935,019	2,961,959	2,958,289		2,920,572
79: 2,955,530	114: 2,947,245	297: 2,919,644	2,962,965	2,960,035		2,920,573
80: 2,935,932	115: 2,925,030	334: 2,939,390	17: 2,961,960	2,963,973		2,930,323
	118: 2,950,673	2,950,676	18: 2,920,562	2,966,117		2,938,466
	120: 2,928,340	335: 2,935,940	2,935,943	2,958,280		2,942,551
	122: 2,947,246	336: 2,953,987	2,958,281	2,945,436		2,948,223
		348: 2,928,341	2,959,125	2,950,677		2,952,210
		350: 2,945,436	2,962,966	2,965,030		2,952,211
		352: 2,965,023	2,965,030	2,943,570		2,945,443
		364: 2,920,558	2,959,126	2,959,127		2,953,095
		2,922,364	2,924,173	2,920,566		2,954,736
		2,929,321	2,925,775	2,920,567		2,922,369
		2,948,217	2,926,609	2,920,568		2,922,371
		365: 2,927,533	2,926,603	2,920,569		2,922,372
		366: 2,941,467	2,927,534	2,920,570		2,924,178
		368: 2,919,645	2,935,020	2,920,571		2,930,320
		2,944,483	2,935,021	2,920,572		2,940,394
		2,966,116	2,935,944	2,920,573		2,945,444
		369: 2,935,941	2,946,283	2,920,574		2,946,286
		2,953,988	2,947,250	2,920,575		2,950,681
				2,954,733		2,921,531
						2,929,327
						2,933,043

**Class 101**

1: 2,934,003	122: 2,947,246	2,950,070	2,961,961	2,960,035	1: 2,920,571	2,925,781
2: 2,937,590	2,949,847	335: 2,935,940	18: 2,920,562	2,963,973	2,928,349	2,930,323
3: 2,939,385	123: 2,936,706	336: 2,953,987	2,935,943	2,966,117	2,929,326	2,938,466
2,939,385	2,931,945	348: 2,928,341	2,958,280	52: 2,922,366	2,933,042	2,942,551
2,948,214	2,963,964	350: 2,945,436	2,958,281	56: 2,938,460	2,936,711	2,948,223
4: 2,932,248	2,965,020	2,945,437	2,959,125	2,960,036	2,940,393	2,952,210
2,963,961	2,965,021	2,950,677	2,962,966	64: 2,922,367	2,945,443	2,952,211
5: 2,936,700	124: 2,956,499	2,955,532	2,965,030	2,941,471	2,953,095	2,953,096
6: 2,953,085	125: 2,919,642	352: 2,965,023	19. 2: 2,943,570	65: 2,959,127	2,954,736	2,954,738
11: 2,925,773	126: 2,947,247	364: 2,920,558	2,959,126	66: 2,920,566	2,922,369	2,959,131
2,944,480	2,951,440	2,922,364	20: 2,919,646	67: 2,948,218	2,922,370	2,959,132
19: 2,931,291	2,959,122	2,929,321	2,924,173	70: 2,920,567	2,922,371	2,963,976
2,943,559	2,966,115	2,948,217	2,925,775	2,926,609	2,923,178	45: 2,935,952
20: 2,928,336	127.1: 2,925,774	365: 2,927,533	2,926,603	2,934,014	2,930,320	2,942,552
23: 2,937,591	2,943,565	366: 2,941,467	2,927,534	2,935,948	2,940,394	2,950,685
2,943,560	128.1: 2,935,936	368: 2,919,645	2,935,020	2,935,949	2,945,444	2,961,966
2,957,409	128.2: 2,955,531	2,944,483	2,935,021	2,939,393	2,946,286	46: Re. 2,421,812
27: 2,944,481	128.3: 2,949,848	2,966,116	2,935,944	2,941,472	2,950,681	2,921,531
2,960,024	2,949,849	369: 2,935,941	2,946,283	2,943,572	2,966,118	2,929,327
	129: 2,929,315	2,953,988	2,947,250	2,954,733		2,933,043



<b>Class 103—Con.</b>	120: 2,929,329 2,936,716 2,937,599 2,938,469 2,948,228 2,948,229 2,949,857 2,952,212 2,942,553 2,942,554 50: 2,949,080 52: 2,925,782 2,937,598 53: 2,930,324 54: 2,949,858 73: 2,931,306 76: 2,936,718 2,948,225 77: 2,945,447 84: 2,957,423 87: Re.24,909 2,920,574 2,920,575 2,924,179 2,925,041 2,925,783 2,930,325 2,931,307 2,933,044 2,935,025 2,936,714 2,939,399 2,939,400 2,941,476 2,941,477 2,942,555 2,947,259 2,947,260 2,951,447 2,953,097 2,953,993 2,956,502 2,958,292 2,959,133 2,960,937 2,965,038 92: 2,929,328 96: 2,923,246 2,935,026 2,939,401 2,961,967 97: 2,925,784 2,927,536 2,946,288 2,950,686 2,957,424 2,963,977 100: 2,946,289 102: 2,954,739 103: 2,921,532 2,933,045 2,934,023 2,936,715 2,939,402 2,942,556 2,952,213 2,955,540 2,956,503 2,957,425 2,958,293 2,959,134 2,963,978 2,963,979 106: 2,957,426 108: 2,925,042 111: 2,921,533 2,922,374 2,938,467 2,951,448 2,960,938 2,960,939 2,963,980 113: 2,922,375 2,925,043 2,944,489 2,945,448 2,949,859 2,951,449 2,952,214 2,956,504 2,956,505 2,961,968 115: 2,948,226 117: 2,921,534 2,924,180 2,933,046 2,948,227 2,927,537 2,938,468 118: 2,921,535 2,922,376 2,925,044 2,925,785	120: 2,929,329 2,936,716 2,937,599 2,938,469 2,948,228 2,948,229 2,949,857 2,952,212 2,955,541 2,955,542 2,956,506 2,957,427 2,961,969 121: 2,923,247 123: 2,941,478 2,948,230 125: 2,935,027 2,960,039 2,963,981 126: 2,923,248 2,923,249 2,929,330 2,929,331 2,932,254 2,933,047 2,936,717 2,940,399 2,957,428 2,961,970 2,965,039 2,965,040 128: 2,922,377 2,924,181 2,931,308 2,952,216 130: 2,922,378 134: 2,920,576 135: 2,938,470 136: 2,919,651 2,924,182 2,925,786 2,941,479 2,949,860 2,962,972 2,962,973 139: 2,957,429 142: 2,946,290 148: 2,922,379 2,923,250 2,926,614 2,929,332 2,931,309 2,933,048 2,943,577 2,956,507 2,960,040 2,962,974 149: 2,920,577 2,920,578 2,925,045 2,928,353 2,930,326 2,931,310 2,935,028 2,946,291 2,955,543 2,958,294 2,965,041 150: 2,929,333 2,929,335 2,931,311 41: 2,952,221 45: 2,919,657 2,922,381 88: 2,925,787 2,940,400 2,949,862 2,960,041 2,965,043 89: 2,928,356 93: 2,920,581 2,954,743 94: 2,919,658 2,929,334 2,932,256 2,939,403 2,953,098 2,958,295 162: 2,921,536 2,925,046 2,941,480 2,945,449 2,953,099 2,956,508 2,963,982 2,963,983 2,965,042 165: 2,945,450 173: 2,923,251 2,925,047 174: 2,931,312 2,945,451 2,952,219	175: 2,919,653 2,933,049 2,962,975 178: 2,922,380 2,931,313 2,956,509 179: 2,933,050 2,949,861 181: 2,943,231 196: 2,954,740 202: 2,956,510 2,966,121 203: 2,931,314 207: 2,932,257 211: 2,956,511 215: 2,919,654 216: 2,937,600 2,956,512 2,963,984 218: 2,957,431 2,958,296 2,959,137 2,962,976 219: 2,930,327 2,952,220 220: 2,962,977 223: 2,934,025 2,951,450 225: 2,962,978 231.5: 2,953,030 232: 2,919,655 2,939,404 2,948,232 2,951,451 234: 2,929,336 242: 2,943,578 255: 2,954,741 260: 2,954,742 262: 2,920,579 2,938,470 2,938,471 2,948,233 272: 2,935,029 273: 2,946,293	<b>Class 104</b> 2: 2,923,252 7: 2,961,972 2,962,979 8: 2,921,537 2,921,538 2,924,183 2,926,616 2,928,355 2,966,123 9: 2,923,253 2,950,687 10: 2,919,656 12: 2,926,617 2,956,513 13: 2,934,026 16: 2,930,328 17: 2,925,048 26: 2,948,234 2,951,452 29: 2,920,580 33: 2,962,980 41: 2,952,221 45: 2,919,657 2,922,381 88: 2,925,787 2,940,400 2,949,862 2,960,041 2,965,043 89: 2,928,356 93: 2,920,581 2,954,743 94: 2,919,658 2,929,334 2,932,256 2,939,403 2,953,098 2,958,295 103: 2,944,491 108: 2,945,452 110: 2,960,940 111: 2,931,315 2,947,262 118: 2,923,254 120: 2,932,258 128: 2,956,514 134: 2,942,587 135: 2,949,863 137: 2,940,401 138: 2,928,357 149: 2,946,296 150: 2,965,044 151: 2,959,138 2,963,985	162: 2,943,580 2,948,235 2,961,973 168: 2,947,263 2,954,744 172: 2,927,538 2,931,316 2,936,718 2,936,719 2,945,453 2,947,264 2,950,688 173: 2,953,101 178: 2,938,472 2,955,544 2,955,545 257: 2,923,255 259: 2,935,030 2,945,454 2,945,455	<b>Class 105</b> 4: 2,921,539 2,935,031 2,936,720 2,954,745 2,954,746 2,956,515 2,963,986 8: 2,925,049 2,931,317 27: 2,955,546 31: 2,941,481 62: 2,925,788 89: 2,929,337 108: 2,922,383 133: 2,960,689 139: 2,955,547 148: 2,939,405 150: 2,927,539 2,943,581 2,949,864 155: 2,937,601 157: 2,953,994 163: 2,932,260 2,935,032 2,957,432 164: 2,960,941 168: 2,953,102 169: 2,941,482 171: 2,961,974 172: 2,942,558 183: 2,934,027 188: 2,925,789 2,945,456 192: 2,928,358 2,929,338 194: 2,925,790 2,931,318 196: 2,954,747 197: 2,927,540 2,936,721 2,951,453 2,952,223 2,952,224 2,953,995 2,957,433 2,957,434 2,966,124 199: 2,934,028 2,945,457 2,960,042 2,962,981 2,965,045 200: 2,956,516 206: 2,930,329 212: 2,958,297 215: 2,919,659 2,925,791 2,942,559 2,965,046 220: 2,948,236 224: 2,921,540 2,963,987 224.1: 2,947,265 226: 2,919,660 239: 2,961,975 240: 2,927,541 242: 2,928,359 247: 2,920,582 308: 2,962,982 2,962,983 315: 2,946,294 2,953,103 2,963,988 340: 2,946,295 355: 2,932,261 364: 2,946,296 366: 2,919,661 2,925,792 367: 2,940,402	368: 2,929,339 2,933,052 2,933,053 2,940,403 2,944,492 2,949,865 2,950,690 2,956,517 2,960,043 2,963,989 2,963,990 2,963,991 369: 2,919,662 2,930,330 2,930,331 2,932,262 2,935,033 2,939,406 2,942,560 2,949,866 2,950,691 2,953,104 2,960,942 2,963,992 376: 2,956,518 377: 2,949,867 378: 2,930,332 2,950,692 397: 2,925,050 2,946,297 404: 2,942,561 2,953,996 414: 2,931,319 423: 2,919,663 2,923,256 447: 2,951,454 448: 2,941,483 452: 2,925,051 453: 2,951,455 454: 2,926,618	<b>Class 106</b> 1: 2,938,805 2,938,806 2,942,990 2,947,639 2,955,944 2: 2,947,640 2: 2,955,047 10: 2,925,349 2,937,098 2,949,873 2,949,874 2,956,888 13: 2,923,633 2,948,625 14: 2,921,858 2,927,031 2,930,708 2,933,400 2,943,945 2,956,889 2,958,603 15: 2,924,532 2,925,096 2,933,401 2,933,402 2,939,794 2,951,766 2,953,463 2,953,464 2,955,945 17: 2,926,097 19: 2,919,993 22: 2,933,403 2,966,417 2,966,418 23: 2,966,419 2,966,680 24: 2,948,626 25: 2,936,241 28: 2,939,795 33: 2,925,350 35: 2,936,242 2,937,099 36: 2,953,465 38.22: 2,932,576 2,956,890 38.24: 2,937,950 38.3: 2,928,749 2,928,750 2,941,890 2,947,641 2,949,375 2,950,205 2,952,553 38.35: 2,926,098 38.5: 2,920,970 2,943,627 38.7: 2,927,032 38.9: 2,930,709	39: 2,920,971 2,934,442 2,934,443 2,935,411 2,948,628 2,948,629 2,953,466 2,954,300 2,955,048 2,955,946 2,960,411 2,961,325 2,961,326 2,961,327 2,964,413 2,966,420 40: 2,922,719 2,946,693 2,948,630 2,955,049 2,956,891 2,966,421 41: 2,921,859 2,955,947 43: 2,939,796 44: 2,938,807 2,942,991 46: 2,944,910 47: 2,920,972 2,934,444 2,939,797 2,946,694 48: 2,925,351 2,937,951 2,942,992 52: 2,921,860 2,922,720 2,923,635 2,923,636 2,929,727 2,937,952 2,938,808 2,945,768 2,955,948 2,956,892 2,958,604 2,961,328 2,965,503 53: 2,937,100 2,949,376 2,964,414 54: 2,929,728 2,933,404 55: 2,921,861 2,937,101 2,965,504 56: 2,950,979 57: 2,919,994 2,924,533 2,937,102 58: 2,948,631 59: 2,932,577 2,965,505 60: 2,952,554 62: 2,947,642 63: 2,919,995 64: 2,963,377 2,965,506 65: Re.24,795 67: 2,956,893 72: 2,928,751 74: 2,919,996 2,964,415 80: 2,965,507 84: 2,946,695 88: 2,921,862 89: 2,929,729 90: 2,927,033 91: 2,931,733 93: 2,959,489 95: 2,934,445 2,953,467 97: 2,927,862 2,947,643 98: 2,945,769 99: 2,939,798 104: 2,919,997 108: 2,933,405 109: 2,957,774 116: 2,957,775 118: 2,942,993 2,957,776 119: 2,950,206 120: 2,944,911 122: 2,927,034 2,935,412 123: 2,931,734 2,933,405 2,936,244 2,937,103 124: Re.24,881 2,935,413	125: 2,933,406 2,950,980 2,958,605 148: 2,941,891 2,945,770 154: 2,937,104 2,958,606 155: 2,934,446 2,934,447 157: 2,947,644 161: 2,919,998 2,919,999 2,920,000 162: 2,933,407 163: 2,959,490 2,964,416 165: 2,920,973 2,923,637 2,926,099 2,927,035 2,929,730 2,929,731 2,932,578 2,934,448 2,934,449 2,941,892 2,950,207 2,950,208 2,953,468 2,956,894 2,961,329 170: 2,941,893 2,947,645 2,964,417 177: 2,927,036 2,958,605 178: 2,942,994 180: 2,955,607 181: 2,925,352 2,956,896 183: 2,935,415 189: 2,936,245 2,965,508 190: Re.24,863 191: 2,959,491 193: 2,937,105 2,941,894 2,941,895 2,944,912 2,947,646 2,963,378 194: 2,950,981 196: 2,943,946 2,960,422 198: 2,925,353 208: 2,929,732 210: 2,938,809 213: 2,944,913 224: 2,942,995 228: 2,927,863 230: 2,950,209 2,950,210 2,955,509 238: 2,957,777 2,965,510 243: 2,929,733 2,952,555 2,964,418 253: 2,956,897 260: 2,929,734 2,937,954 263: 2,950,982 264: 2,955,949 266: 2,943,947 268: 2,928,752 2,963,379 269: 2,928,753 2,932,579 272: 2,949,377 273: 2,937,106 2,950,211 278: 2,932,638 280: 2,939,800 281: 2,949,378 282: 2,923,639 255: 2,927,037 2,942,996 2,955,950 2,960,412 2,961,330 262: 2,928,754 2,950,212 287: 2,927,864 2,934,450 2,934,451 2,952,556 2,955,951 288: 2,920,974 2,943,948 2,949,379 2,950,983 2,965,511
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289: 2, 955, 050	<b>Class 109</b>	85: 2, 961, 981	221: 2, 932, 268	110: 2, 945, 464	202: 2, 932, 272	41: 2, 957, 441
292: 2, 955, 051		86: 2, 963, 998	228: 2, 941, 488	111: 2, 926, 622	2, 940, 410	2, 961, 988
300: 2, 933, 408	1: 2, 955, 549	231: 2, 952, 229	2, 949, 874	2, 953, 109	2, 945, 467	42: 2, 953, 113
301: 2, 950, 984	12: 2, 937, 602		2, 952, 229	114: 2, 952, 233	2, 946, 304	2, 963, 000
305: 2, 920, 975	19: 2, 949, 870		2, 965, 057	116: 2, 932, 270	2, 949, 091	2, 965, 065
307: 2, 920, 976	59: 2, 935, 955	<b>Class 112</b>	235: 2, 919, 668	2, 940, 408	2, 965, 062	67: 2, 940, 415
2, 960, 413	2, 956, 525	2: 2, 954, 000	2, 926, 621	2, 942, 569	2, 965, 063	70: 2, 931, 332
308: 2, 932, 580	63.5: 2, 924, 185	2, 955, 551	2, 932, 269	2, 932, 269	203: 2, 943, 589	
2, 942, 997	2, 927, 546	2, 955, 552	2, 933, 031	2, 949, 088	208: 2, 937, 609	<b>Class 116</b>
2, 944, 914	2, 935, 035	2, 960, 045	2, 942, 565	2, 960, 052	2, 940, 411	18: 2, 922, 389
2, 948, 632		2, 962, 988	2, 948, 242		2, 948, 249	21: 2, 926, 624
309: 2, 941, 896	<b>Class 110</b>	3: 2, 920, 588	2, 948, 085	118: 2, 953, 110	2, 956, 529	22: 2, 920, 600
310: 2, 957, 778	1: 2, 935, 956	2, 925, 057	2, 950, 696	120: 2, 925, 059	2, 959, 145	28: 2, 940, 416
2, 961, 331	7: 2, 933, 057	10: 2, 940, 404	248: 2, 920, 591	2, 947, 276	209: 2, 928, 366	2, 945, 470
311: 2, 944, 915	8: Re. 24,844	2, 962, 989	252: 2, 920, 592	2, 964, 006	210: 2, 931, 331	31: 2, 934, 035
2, 963, 380	2, 925, 054	11: 2, 932, 266	2, 941, 489	121: 2, 960, 954	2, 932, 273	2, 957, 442
	2, 929, 342	18: 2, 960, 946	253: 2, 958, 303	126: 2, 964, 007	2, 937, 610	34: 2, 925, 799
<b>Class 107</b>	2, 961, 977	25: 2, 948, 240	254: 2, 925, 058	134: 2, 960, 053	2, 938, 491	2, 948, 256
1: 2, 923, 257	2, 962, 987	26: 2, 943, 585			2, 940, 412	52: 2, 923, 271
2, 927, 542	13: 2, 939, 409	2, 931, 326		<b>Class 114</b>	2, 940, 413	56: 2, 957, 443
2, 946, 298	2, 948, 237	46: 2, 922, 387	256: 2, 939, 415	.5: Re. 24,837	2, 954, 004	63: 2, 929, 625
2, 947, 266	14: 2, 963, 993	2, 954, 748	2, 942, 566	2, 924, 191	2, 955, 560	2, 929, 349
2, 963, 993	15: 2, 960, 943	2, 960, 947	2, 946, 243	2, 945, 465	2, 962, 998	2, 942, 571
2, 966, 125	18: 2, 936, 724	47: 2, 946, 300	2, 961, 984	2, 954, 750	2, 969, 955	2, 948, 257
2, 922, 384	2, 937, 603	58: 2, 928, 361	258: 2, 941, 490	2, 960, 955	2, 956, 530	2, 953, 114
4: 2, 950, 693	2, 938, 475	65: 2, 944, 496	2, 946, 302	2, 962, 996	2, 959, 146	2, 954, 005
2, 951, 456	2, 939, 476	66: 2, 954, 001	2, 947, 270	16: 2, 948, 245	2, 960, 055	2, 957, 444
2, 956, 519	2, 952, 226	67: 2, 919, 666	2, 960, 050	2, 948, 246	2, 959, 147	67: 2, 948, 258
8: 2, 920, 583	2, 956, 526	2, 938, 477	260: 2, 920, 593	2, 948, 247	2, 950, 700	2, 961, 989
2, 925, 052	2, 959, 139	2, 938, 477	2, 945, 461	2, 965, 060	2, 959, 147	70: 2, 921, 551
2, 929, 340	2, 960, 046	76: 2, 963, 999	2, 947, 271		224: 2, 924, 194	2, 954, 751
2, 953, 105	2, 965, 051	77: 2, 927, 547	2, 948, 244	20: 2, 930, 337	230: 2, 919, 671	91: 2, 957, 445
2, 956, 520	22: 2, 931, 324	79: 2, 935, 037	2, 958, 304	2, 938, 481	2, 920, 597	101: 2, 952, 238
2, 957, 435	2, 939, 410	2, 940, 405	261: 2, 931, 330	2, 938, 482	2, 930, 339	103: 2, 956, 537
9: 2, 919, 664	28: 2, 921, 542	2, 954, 749	262: 2, 934, 032	2, 938, 483	2, 938, 492	106: 2, 938, 493
2, 925, 055	2, 923, 260	2, 961, 982	267: 2, 949, 086	2, 938, 484	2, 939, 418	107: 2, 957, 446
2, 963, 994	2, 939, 411	2, 961, 983	<b>Class 113</b>	2, 938, 485	2, 943, 590	112: 2, 964, 009
12: 2, 924, 184	2, 945, 459	2, 965, 054	1: 2, 920, 594	2, 949, 877	2, 945, 468	113: 2, 966, 132
2, 960, 044	2, 957, 436	83: 2, 950, 694	2, 927, 548	2, 953, 111	2, 952, 236	114: 2, 921, 552
2, 965, 047	2, 960, 047	98: 2, 941, 485	2, 945, 462	2, 959, 143	2, 955, 561	2, 922, 390
14: Re. 24,775	2, 965, 052	102: 2, 932, 267	2, 947, 272	2, 960, 054	2, 965, 531	2, 935, 960
2, 921, 541	31: 2, 965, 052	113: 2, 921, 544	2, 955, 555	21: 2, 941, 492	2, 965, 064	2, 940, 417
2, 953, 106	38: 2, 932, 264	2, 931, 327	2, 957, 438	2, 948, 248	2, 920, 598	2, 943, 594
2, 963, 995	40: 2, 936, 725	2, 960, 049	2, 949, 088	2, 949, 089	2, 924, 193	2, 947, 279
2, 966, 126	72: 2, 920, 584	114: 2, 962, 990	2, 949, 878	2, 950, 698	2, 928, 367	2, 949, 880
15: 2, 930, 407	75: 2, 956, 527	122: 2, 935, 058	10: 2, 949, 087	2, 960, 956	2, 929, 348	2, 951, 461
17: 2, 944, 493	98: Re. 24,857	131: 2, 925, 795	11: 2, 944, 498	24: 2, 955, 557	2, 943, 591	2, 929, 350
2, 949, 082	2, 922, 386	132: 2, 935, 958	14: 2, 952, 230	25: 2, 920, 596	2, 944, 506	2, 930, 343
19: 2, 956, 521	2, 929, 345	2, 962, 991	19: 2, 957, 439	2, 938, 486	2, 945, 469	115.5: 2, 929, 350
2, 966, 127	2, 960, 048	134: 2, 925, 796	28: 2, 925, 797	2, 955, 558	2, 946, 305	2, 951, 462
27: 2, 965, 048	2, 961, 978	135: 2, 920, 589	38: 2, 923, 263	2, 962, 997	2, 952, 237	117: 2, 933, 060
30: 2, 926, 619	2, 963, 997	143: 2, 952, 227	43: 2, 944, 500	2, 962, 997	2, 956, 532	2, 935, 040
31: 2, 956, 522	104: 2, 923, 261	146: 2, 948, 241	44: Re. 24,833	32: 2, 938, 487	2, 960, 960	2, 936, 731
33: 2, 949, 868	105: 2, 925, 055	2, 966, 129	2, 927, 549	36: 2, 927, 550	2, 933, 059	2, 939, 419
36: 2, 923, 258	160: 2, 951, 457	151: 2, 960, 948	2, 935, 038	39: 2, 944, 505	2, 941, 493	2, 942, 572
38: 2, 946, 299	165: 2, 944, 494	158: 2, 921, 545	2, 944, 501	43.5: 2, 952, 234		2, 966, 133
40: 2, 931, 320	2, 947, 268	2, 929, 344	2, 949, 875	46: 2, 932, 271	<b>Class 115</b>	2, 969, 999
44: 2, 935, 034	173: 2, 923, 262	2, 939, 413	2, 962, 994	51: 2, 934, 033	.5: 2, 935, 039	118: 2, 920, 601
2, 939, 408	2, 953, 108	2, 958, 299	2, 964, 002	2, 939, 416	2, 948, 250	2, 947, 280
47: 2, 952, 225	2, 953, 998	2, 934, 029	45: 2, 937, 606	54: 2, 938, 488	1: 2, 923, 268	119: 2, 953, 115
48: 2, 926, 620	179: 2, 920, 585	2, 935, 959	46: 2, 947, 273	56: 2, 938, 489	2, 930, 340	2, 964, 010
49: 2, 922, 845		2, 942, 563	48: 2, 954, 002	2, 960, 957	2, 941, 494	2, 962, 999
52: 2, 927, 543		2, 952, 228	49: 2, 921, 548	2, 965, 061	2, 960, 056	2, 949, 094
2, 945, 458		162: 2, 931, 328	2, 955, 556	61: 2, 950, 699	4: 2, 937, 612	2, 957, 447
54: 2, 927, 544		169: 2, 928, 363	2, 944, 502	62: 2, 945, 466	6.1: 2, 948, 251	124.1: 2, 932, 274
2, 929, 341		171: 2, 941, 486	2, 964, 003	66.5: 2, 919, 669	17: 2, 930, 341	2, 941, 497
2, 931, 321		2, 949, 084	2, 964, 004	2, 926, 623	2, 943, 592	2, 930, 344
2, 942, 562		175: 2, 965, 055	50: 2, 960, 949	2, 929, 346	2, 948, 252	2, 934, 036
2, 953, 107		176: 2, 920, 590	51: 2, 929, 345	2, 930, 338	2, 948, 253	2, 959, 149
2, 955, 548		184: 2, 949, 873	2, 943, 587	2, 940, 409	2, 948, 254	127: 2, 960, 961
2, 960, 045		2, 966, 130	2, 960, 950	2, 955, 559	2, 959, 148	129: 2, 920, 603
55: 2, 938, 473		192: 2, 958, 300	52: 2, 921, 549	68: 2, 924, 192	18: 2, 927, 551	2, 931, 333
56: 2, 930, 333		197: 2, 940, 406	2, 942, 567	2, 966, 131	2, 943, 593	2, 941, 498
2, 932, 263		199: 2, 958, 301	2, 960, 051	71: 2, 947, 277	2, 944, 508	2, 949, 881
57: Re. 24,855		200: 2, 946, 301	2, 960, 951	73: 2, 923, 265	2, 947, 278	2, 960, 959
2, 931, 322		2, 950, 695	2, 965, 059	74: 2, 954, 003	2, 949, 092	2, 949, 093
2, 936, 722		203: 2, 951, 459	54: 2, 944, 503	79: 2, 937, 607	2, 953, 112	2, 953, 112
2, 949, 869		2, 957, 437	2, 950, 697	90: 2, 949, 090	2, 956, 533	2, 962, 626
2, 962, 984		204: 2, 939, 414	59: 2, 941, 491	102: 2, 925, 798	2, 960, 057	2, 939, 421
2, 965, 049		208: 2, 965, 056	60: 2, 962, 995	124: 2, 960, 958	2, 962, 999	2, 955, 563
58: 2, 962, 985		210: 2, 931, 329	63: 2, 923, 264	2, 964, 008	22: 2, 958, 306	2, 965, 538
59: 2, 927, 545		2, 941, 487	80: 2, 964, 005	125: 2, 952, 235	24: 2, 956, 535	2, 960, 958
63: 2, 956, 523		211: 2, 955, 553	93: 2, 957, 440	126: 2, 936, 728	25: 2, 960, 058	2, 958, 307
2, 961, 976		212: 2, 944, 497	95: 2, 947, 274	2, 937, 608	28: 2, 936, 729	142: 2, 921, 554
68: 2, 923, 259		217: 2, 955, 554	99: 2, 920, 595	2, 942, 570	2, 948, 255	2, 944, 509
69: 2, 938, 474		218: 2, 919, 667	2, 921, 550	2, 960, 959	34: 2, 934, 034	149: 2, 929, 351
2, 956, 524		2, 938, 478	2, 924, 190	144: 2, 925, 060	35: 2, 920, 599	
2, 962, 986		2, 943, 586	2, 928, 364	2, 951, 460	3: 2, 941, 495	<b>Class 117</b>
2, 965, 050		219: 2, 921, 540	2, 938, 480	2, 961, 986	2, 945, 306	2: 2, 934, 452
	<b>Class 108</b>	2, 921, 547	2, 942, 568		2, 955, 562	2, 939, 801
	1: 2, 928, 360	2, 936, 727	2, 944, 504		37: 2, 936, 730	2, 949, 380
	3: 2, 933, 055	2, 940, 407	2, 947, 275		41: 2, 922, 388	2, 954, 301
	5.4: 2, 931, 323	2, 942, 564	2, 960, 952		2, 923, 269	2, 955, 952
	10: 2, 936, 723	2, 958, 302	2, 945, 463		2, 923, 270	2, 957, 447
	13: 2, 933, 056	2, 962, 992	102: 2, 960, 953		2, 927, 552	2, 962, 557
	23: 2, 941, 454	2, 934, 030	103: 2, 952, 231		2, 950, 342	2, 934, 453
	28: 2, 922, 385	2, 964, 001	109: 2, 952, 232		2, 950, 701	
	30: 2, 935, 964					



## Class 117—Con.

5.5: 2,922,721 2,924,534 2,931,735 2,957,779	46: 2,922,722 2,924,537 2,941,899 2,948,636 2,952,560 2,953,472 2,958,609 2,961,335 2,962,386 2,966,423 2,928,756 2,935,418 2,939,803 2,940,869 2,948,637 2,955,953 2,955,954 2,956,899 2,956,900 2,962,387 2,966,424 2,923,640 2,932,583 2,942,998 2,944,917 2,952,561 2,961,836 2,962,388 2,966,425 2,928,757 2,930,712 2,942,999 2,956,901 2,958,610 2,959,494 2,961,337 2,926,103 2,933,410 2,935,419 2,935,420 2,937,108 2,953,473 2,935,421 2,940,870 2,963,384 2,932,584 2,946,698 2,953,474 2,962,389 2,961,338 2,921,864 2,936,268 2,947,648 2,954,302 2,928,758 2,952,562 2,927,043 2,940,871 2,961,339 2,943,954 2,950,214 2,950,989 2,961,340 2,962,390 2,920,980 2,923,641 2,924,538 2,926,104 2,946,699 2,949,382 2,933,411 2,934,455 2,946,700 2,952,563 2,955,955 2,923,642 2,944,918 2,923,643 2,930,713 2,932,585 2,935,422 2,920,981 2,933,412 2,935,423 2,939,804 2,957,782 2,925,356 2,933,413 2,941,900 2,943,000 2,946,701 2,949,383 2,951,769 2,953,475 2,955,954 2,962,384 2,947,647 2,924,536 2,943,953 2,959,493	75: 2,952,565 2,955,055 2,956,902 2,957,784 2,958,611 2,961,341 2,922,723 2,926,105 2,927,868 2,929,737 2,936,249 2,937,956 2,937,957 2,941,901 2,956,903 2,961,342 2,961,343 2,964,422 2,964,423 2,922,724 2,939,806 2,952,566 2,921,865 2,959,495 2,920,982 2,926,106 2,933,414 2,949,384 2,956,904 2,965,513 2,927,869 2,950,990 2,952,567 2,927,044 2,943,001 2,932,586 2,920,983 2,921,866 2,945,772 2,955,056 2,964,424 2,940,873 2,927,045 2,933,415 2,943,002 2,948,638 2,951,770 2,955,956 2,965,514 2,935,424 2,938,810 2,938,811 2,941,902 2,952,568 2,920,984 2,921,867 2,923,644 2,929,738 2,933,416 2,932,587 2,940,874 2,948,639 2,955,058 2,932,588 2,941,903 2,956,912 2,966,426 2,966,427 2,921,868 2,929,739 2,955,957 2,962,391 2,933,417 2,953,476 2,922,725 2,928,759 2,955,958 2,955,959 2,929,740 2,929,741 2,950,215 2,951,771 2,931,737 2,934,457 2,936,250 2,947,649 2,959,496 2,952,569 2,950,991 2,925,357 2,926,107 2,943,955 2,958,613 2,930,714 2,937,109 2,947,650 2,963,386 2,963,387 2,946,703	126: 2,931,738 2,931,739 2,934,458 2,934,459 2,938,812 2,941,904 2,948,641 2,951,772 2,953,477 2,953,478 2,958,614 2,961,344 2,965,515 2,924,539 2,926,108 2,927,046 2,938,813 2,944,919 2,946,704 2,956,906 2,929,742 2,935,425 2,927,870 2,933,418 2,953,479 2,965,516 2,966,428 2,922,726 2,953,480 2,949,385 2,938,814 2,938,815 2,957,785 2,920,985 2,921,869 2,921,870 2,922,727 2,927,047 2,931,740 2,935,426 2,945,773 2,955,960 2,955,961 2,959,497 2,961,345 2,961,346 2,963,388 2,965,517 2,930,715 2,923,645 2,930,716 2,953,481 2,955,057 2,922,728 2,929,743 2,936,251 2,944,920 2,945,774 2,946,705 2,962,392 2,965,518 2,949,386 2,955,962 2,961,347 2,950,216 2,964,425 2,950,217 2,950,992 2,930,717 2,950,218 2,953,482 2,931,741 2,922,729 2,923,646 2,945,775 2,951,348 2,964,426 2,932,589 2,931,742 2,933,419 2,940,875 2,944,921 2,954,303 2,956,907 2,957,786 2,961,349 2,956,908 2,920,986 2,937,110 2,961,350 2,932,590 2,932,591 2,945,776 2,955,059 2,961,351 2,932,592 2,936,252 2,949,387 2,951,773 2,957,787	212: 2,938,816 2,939,807 2,943,956 2,949,388 2,953,483 2,953,484 2,959,498 2,960,417 2,962,393 2,966,429 2,966,430 2,962,394 2,927,048 2,956,909 2,929,744 2,930,718 2,935,427 2,950,993 2,922,730 2,939,808 2,947,651 2,950,994 2,943,957 2,921,871 2,924,540 2,950,995 2,950,996 2,951,774 2,965,519 2,920,004 2,934,460 2,920,005 2,959,499 2,961,352 2,952,570 2,921,872 2,921,873 2,926,109 2,936,253 2,941,905 2,950,997	261: 2,929,352 2,940,420 2,982,277 2,928,369 2,937,614 2,955,567 2,960,064 2,944,512 2,921,555 2,940,421 2,943,599 2,940,422 2,960,065 2,955,568 2,963,002 2,965,068 2,952,240 2,941,500 2,950,702 2,941,501 2,960,963 2,924,196 2,937,615 2,959,151 2,925,063 2,922,392 2,925,064 2,930,348 2,954,752 2,959,152 2,928,370 2,929,353 2,930,349 2,937,616 2,945,472 2,930,350 2,947,281 2,919,674 2,927,554 2,930,351 2,932,278 2,942,573 2,952,241 2,954,006 2,959,153 2,961,993 2,965,069	312: 2,940,422 315: 2,960,065 323: 2,955,568 324: 2,963,002 404: 2,965,068 405: 2,952,240 408: 2,941,500 2,950,702 418: 2,941,501 419: 2,960,963 423: 2,924,196 425: 2,937,615 429: 2,959,151 500: 2,925,063 505: 2,922,392 2,925,064 2,930,348 2,954,752 2,959,152 2,928,370 2,929,353 2,930,349 2,937,616 2,945,472 2,930,350 2,947,281 2,919,674 2,927,554 2,930,351 2,932,278 2,942,573 2,952,241 2,954,006 2,959,153 2,961,993 2,965,069	52: 2,931,336 2,931,337 2,933,062 2,933,063 2,936,734 2,936,735 2,938,497 2,944,516 2,959,154 2,933,064 2,940,424 2,941,506 2,961,995 2,966,135 2,966,136 55: 2,944,517 56: 2,934,037 61: 2,928,372 2,945,473 2,939,424 2,921,556 2,943,601 2,956,540 2,960,965 2,935,965 2,961,996 2,961,997 2,941,507 2,956,541 2,957,451 2,929,357 2,935,966 2,942,575 2,939,425 2,960,966 2,965,071 2,924,198 2,956,542 2,919,676 2,929,358 2,953,116 2,954,008 2,955,571 2,940,425 2,944,518 2,930,353 2,943,602 2,925,065 2,945,474 2,946,310 2,949,885 2,956,543 2,961,998 2,964,011	Class 118 1: 2,925,800 2,932,275 2: 2,925,801 2,930,345 2,961,999 3: 2,933,061 2,935,961 2,923,645 2,930,716 2,953,481 2,955,057 39.5: 2,922,728 2,929,743 2,936,251 2,944,920 2,945,774 2,946,705 2,962,392 2,965,518 140: 2,949,386 2,955,962 141: 2,961,347 142: 2,950,216 2,964,425 144: 2,950,217 2,950,992 145: 2,930,717 2,950,218 2,953,482 147: 2,931,741 155: 2,922,729 2,923,646 2,945,775 2,951,348 2,964,426 156: 2,932,589 161: 2,931,742 2,933,419 2,940,875 2,944,921 2,954,303 2,956,907 2,957,786 2,961,349 167: 2,956,908 168: 2,920,986 200: 2,937,110 2,961,350 201: 2,932,590 2,932,591 2,945,776 202: 2,955,059 203: 2,961,351 211: 2,932,592 2,936,252 2,949,387 2,951,773 2,957,787	Class 119 1: 2,938,495 2,941,502 2,963,003 2: 2,920,606 3: 2,941,503 4: 2,922,393 14.01: 2,949,883 14.45: 2,935,042 14.47: 2,947,282 14.49: 2,944,514 14.52: 2,935,964 14.54: 2,929,354 14.55: 2,922,394 2,932,279 2,954,007 15.5: 2,949,095 2,955,570 2,960,964 17: 2,938,496 2,939,422 2,931,334 2,943,600 2,946,308 20: 2,923,273 2,928,371 2,940,423 22: 2,946,309 23: 2,944,515 29: 2,941,504 32: 2,923,274 37: 2,939,423 44: 2,949,884 45: 2,927,555 48: 2,956,539 51: 2,929,355 2,929,356 2,941,505 2,942,574 2,961,994 2,963,004 2,965,070 216: 2,935,963 219: 2,940,418 224: 2,954,610 233: 2,941,503 243: 2,944,511 244: 2,920,605 2,926,629 2,952,239 260: Re.24,854	Class 120 1: 2,926,630 2,956,544 8: 2,926,631 15: 2,941,508 18: 2,938,498 21: 2,933,065 22: 2,941,509 32: 2,949,886 2,956,545 36: 2,933,066 2,956,546 42.01: 2,922,395 2,939,426 42.03: 2,921,557 2,928,373 2,929,359 2,929,360 2,930,354 2,930,355 2,930,356 2,933,067 2,928,371 2,934,038 2,935,043 2,941,510 2,941,511 2,946,311 2,949,887 2,951,465 2,957,452 2,960,066 42.13: 2,928,374 2,944,519 42.16: 2,921,558 2,937,618 2,946,312 2,961,999 42.4: 2,957,453 45.4: 2,919,677 2,931,338 2,951,466 2,964,012 2,931,339 2,935,967 2,956,547 2,956,548
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47: 2, 942, 576	38: 2, 964, 013	46: 5: 2, 919, 679	225: 2, 934, 046	32: 2, 942, 591	76: 2, 940, 432	122: 2, 926, 647
2, 949, 888	2, 965, 072	2, 919, 681	2, 935, 052	2, 942, 592	79: 2, 958, 316	2, 930, 387
48: 2, 938, 499	2, 965, 073	2, 919, 681	235: 2, 925, 069	2, 947, 292	90: 2, 923, 282	2, 936, 746
50: 2, 935, 044	2, 965, 074	2, 924, 202	2, 939, 434	2, 949, 899	2, 925, 074	2, 949, 103
2, 935, 968	2, 966, 139	2, 928, 330	2, 941, 516	2, 949, 900	2, 925, 808	127: 2, 919, 686
2, 935, 969		2, 929, 364	2, 941, 517	2, 950, 706	2, 925, 809	2, 930, 368
52: 2, 935, 570	39: 2, 945, 476	2, 930, 361	2, 941, 518	2, 950, 707	2, 926, 645	2, 947, 298
83: 2, 942, 577	2, 964, 014	2, 931, 343	2, 944, 532	2, 958, 313	2, 927, 566	2, 954, 022
2, 960, 967	40: 2, 922, 399	2, 932, 284	2, 949, 099	2, 958, 314	2, 930, 366	136: 2, 936, 747
	2, 923, 278	2, 935, 972	240: 2, 920, 609	2, 959, 160	2, 931, 347	2, 963, 013
91: 2, 926, 632	2, 924, 199	2, 938, 503	333: 2, 930, 363	2, 959, 161	2, 932, 290	2, 965, 086
96: 2, 926, 633	2, 926, 634	2, 939, 432	356: 2, 937, 627	2, 960, 079	2, 932, 291	139: 2, 919, 687
98: 2, 966, 137	2, 927, 556	2, 941, 515	2, 965, 080	2, 960, 973	2, 933, 074	2, 923, 283
	2, 932, 282	2, 942, 583	382: 2, 921, 564	2, 966, 145	2, 934, 051	2, 924, 207
	2, 935, 049	2, 942, 584	2, 964, 024	2, 940, 431	2, 934, 052	2, 929, 369
	2, 949, 889	2, 944, 527	392: 2, 940, 430	2, 941, 520	2, 935, 058	2, 929, 370
	2, 949, 890	2, 944, 528	2, 958, 311	2, 922, 409	2, 935, 059	2, 929, 371
	2, 960, 069	2, 949, 087	406: 2, 922, 405	2, 959, 162	2, 937, 632	2, 930, 369
	2, 964, 015	2, 952, 246	2, 962, 004	2, 960, 974	2, 937, 633	2, 934, 053
	2, 964, 016	2, 952, 247	407: 2, 954, 014	41: 08: 2, 960, 974	2, 937, 633	2, 935, 060
13: 2, 933, 068	41: 2, 921, 562	2, 954, 010	421: 2, 964, 025	41: 11: 2, 945, 482	2, 938, 508	2, 935, 061
2, 934, 039	2, 922, 400	2, 960, 073	461: 2, 930, 364	41: 12: 2, 927, 563	2, 939, 442	2, 935, 062
2, 946, 313	2, 924, 200	2, 962, 002	2, 932, 287	2, 957, 459	2, 939, 443	2, 937, 636
2, 953, 117	2, 924, 201	2, 964, 022	459: 2, 954, 758	41: 15: 2, 930, 365	2, 940, 433	2, 938, 509
2, 959, 155	2, 925, 804	2, 964, 023	476: 2, 942, 586	2, 937, 628	2, 941, 523	2, 940, 435
2, 960, 067	2, 925, 805	2, 964, 023	478: 2, 921, 565	41: 17: 2, 926, 640	2, 942, 595	2, 941, 524
	2, 926, 635	48: 2, 930, 362	2, 922, 406	41: 18: 2, 953, 125	2, 943, 611	2, 943, 612
15: 2, 946, 314	2, 927, 557	2, 949, 895	2, 932, 288	41: 21: 2, 926, 641	2, 943, 613	2, 950, 709
16: 2, 921, 559	2, 928, 377	56: 2, 951, 469	2, 939, 435	41: 28: 2, 953, 126	2, 947, 296	2, 952, 252
2, 937, 621	2, 928, 378	60: 2, 934, 043	2, 942, 587	41: 29: 2, 936, 745	2, 948, 270	2, 963, 014
2, 942, 579	2, 928, 379	61: 2, 938, 504	2, 947, 288	41: 31: 2, 935, 976	2, 950, 708	140: 2, 922, 410
2, 951, 467	2, 929, 362	62: 2, 944, 529	2, 953, 124	41: 33: 2, 963, 006	2, 954, 015	2, 924, 208
17: 2, 944, 520	2, 929, 363	65: 2, 922, 402	2, 960, 972	41: 4: 2, 926, 639	2, 954, 016	2, 925,



## Class 123—Con.

193: 2,919,688  
2,963,015  
2,964,030  
196: 2,936,748  
2,944,538  
2,946,328  
198: 2,943,618  
2,948,274  
2,954,763

## Class 124

2: 2,938,512  
2,962,016  
4: 2,945,485  
6: 2,925,811  
7: 2,963,016  
8: 2,925,077  
2,925,812  
2,928,383  
9: 2,934,056  
11: 2,924,211  
2,935,980  
2,940,438  
2,945,486  
2,955,585  
2,957,468  
2,960,083  
2,960,977  
2,964,031  
13: 2,923,285  
2,923,286  
2,945,487  
14: 2,922,412  
2,937,638  
15: 2,938,513  
16: 2,943,619  
17: 2,925,078  
22: 2,944,539  
23: 2,921,572  
2,945,488  
2,954,764  
2,954,765  
24: 2,926,650  
2,938,514  
2,957,469  
2,957,470  
2,960,084  
26: 2,964,032  
27: 2,921,573  
2,948,275  
2,962,017  
28: 2,939,449  
29: 2,921,574  
30: 2,947,301  
2,955,586  
2,956,560  
35: 2,929,372  
2,936,749  
2,965,093  
50: 2,962,018

## Class 125

2.05: 2,949,910  
11: 2,919,689  
2,922,413  
2,926,651  
2,926,652  
2,926,653  
2,928,384  
2,930,371  
2,930,372  
2,930,373  
2,933,078  
2,934,057  
2,936,750  
2,937,639  
2,938,515  
2,947,302  
2,955,587  
2,957,471  
2,963,017  
12: 2,951,474  
13: 2,927,572  
2,960,978  
14: 2,935,981  
2,965,094  
16: 2,951,475  
2,963,018  
21: 2,958,323  
23: 2,925,079  
2,925,080  
2,933,079  
2,950,710  
30: 2,931,351  
2,949,908  
33: 2,949,909  
37: 2,926,654

## Class 126

9: 2,922,414  
2,959,165  
14: 2,924,212  
21: 2,926,655  
2,965,095  
25: 2,920,614  
2,925,813  
2,928,385  
2,929,373  
2,933,080  
2,950,711  
2,950,712  
2,960,979  
2,962,019  
2,965,096  
30: 2,935,982  
2,940,439  
2,965,097  
38: 2,928,386  
2,954,024  
2,955,588  
39: 2,940,440  
2,960,980  
41: 2,931,352  
42: 2,926,656  
43: 2,955,589  
59: 2,957,472  
59.5: 2,960,981  
67: 2,948,276  
2,960,085  
85: 2,919,690  
2,941,525  
2,950,713  
2,955,590  
92: 2,936,751  
2,950,714  
2,951,476  
109: 2,936,752  
2,964,033  
110: 2,923,287  
2,942,600  
2,957,473  
2,964,034  
113: 2,934,058  
2,965,098  
116: 2,923,288  
140: 2,939,450  
165: 2,926,657  
2,939,451  
169: 2,964,035  
190: 2,925,081  
2,939,452  
191: 2,921,575  
2,938,516  
194: 2,934,059  
200: 2,926,658  
2,963,019  
208: Re 24,858  
2,942,601  
2,960,982  
214: 2,939,453  
263: 2,935,983  
271.2: 2,960,983  
2,962,020  
273: 2,921,576  
2,944,540  
274: 2,921,577  
275: 2,920,615  
285: 2,964,036  
288: 2,966,153  
307: 2,930,374  
2,947,303  
314: 2,962,021  
317: 2,946,329  
337: 2,919,691  
350: 2,949,106  
360: 2,951,477  
362: 2,948,277  
369: 2,932,293  
381: 2,947,304  
383: 2,925,082  
5: 2,953,485  
7: 2,924,541  
2,928,760  
2,950,998  
23: 2,954,304  
28: 2,940,876  
36: 2,949,389  
37: 2,944,922  
2,944,923  
2,945,777  
2,951,775  
2,955,963  
2,959,500  
38: 2,946,706  
2,965,520  
44: 2,937,958

## Class 127

5: 2,953,485  
7: 2,924,541  
2,928,760  
2,950,998  
23: 2,954,304  
28: 2,940,876  
36: 2,949,389  
37: 2,944,922  
2,944,923  
2,945,777  
2,951,775  
2,955,963  
2,959,500  
38: 2,946,706  
2,965,520  
44: 2,937,958

46: 2,926,110  
2,929,745  
2,929,746  
2,937,959  
2,943,003  
47: 2,938,817  
50: 2,964,428  
55: 2,954,305  
58: 2,943,004  
63: 2,929,747  
2,954,306  
67: 2,961,353  
71: 2,929,748  
2,951,776

## Class 128

1: 2,931,353  
2,934,060  
1.2: 2,959,166  
2: 2,919,692  
2,945,490  
2,945,491  
2,955,591  
2,955,592  
2.05: 2,927,573  
2,934,061  
2,944,542  
2,952,253  
2,960,086  
2.06: 2,933,081  
2.07: 2,933,082  
2.1: 2,924,213  
2,949,107  
4: 2,922,415  
6: 2,927,574  
2,932,294  
2,936,753  
12: 2,920,616  
2,947,305  
17: 2,954,025  
24: 2,920,617  
2,927,575  
2,937,640  
24.1: 2,927,576  
2,929,374  
2,941,526  
2,943,620  
2,949,108  
25: 2,923,289  
2,924,214  
2,929,375  
2,931,354  
2,949,911  
29: 2,923,290  
2,924,215  
2,926,659  
2,930,375  
32: 2,944,543  
33: 2,920,618  
2,920,619  
2,921,578  
2,924,216  
2,934,062  
2,935,064  
2,936,754  
2,937,641  
2,939,454  
2,943,621  
2,945,492  
2,951,478  
2,951,479  
2,953,128  
38: 2,962,022  
49: 2,964,037  
57: 2,922,416  
2,939,455  
59: 2,959,167  
60: 2,957,474  
66: 2,921,579  
2,938,517  
2,949,109  
67: 2,927,577  
70: 2,926,660  
71: 2,934,063  
2,950,715  
75: 2,940,441  
2,940,442  
2,949,110  
2,954,020  
76: 2,923,291  
2,927,578  
2,965,099  
76.5: 2,955,593  
80: 2,920,620  
2,926,661  
2,934,064  
2,943,622  
2,949,111  
2,959,168

80: 2,959,169  
2,963,020  
81: 2,920,621  
2,927,579  
2,932,295  
2,949,112  
2,958,324  
83.5: 2,949,912  
2,956,561  
2,966,154  
87: 2,935,984  
2,947,306  
2,955,594  
2,957,475  
88: 2,926,662  
89: 2,933,083  
90: 2,947,307  
2,958,325  
91: 2,935,065  
2,954,766  
2,960,984  
92: 2,934,065  
2,937,642  
2,947,308  
2,952,254  
94: 2,935,066  
100: 2,926,663  
2,926,664  
105: 2,933,084  
119: 2,927,580  
129: 2,921,580  
134: 2,927,581  
2,940,443  
2,948,278  
136: 2,919,693  
141: 2,922,417  
2,922,418  
2,928,387  
2,935,985  
142: 2,929,376  
2,931,355  
2,936,755  
2,939,456  
2,939,457  
2,944,544  
2,949,113  
144: 2,929,377  
2,966,155  
146: 2,921,581  
2,931,356  
2,939,458  
2,942,602  
2,953,129  
2,964,038  
147: 2,928,388  
148: 2,924,217  
2,945,493  
149: 2,933,085  
152: 2,933,086  
153: 2,923,292  
2,943,623  
2,953,130  
155: 2,926,665  
156: 2,928,389  
2,934,066  
173: 2,921,582  
2,928,390  
188: 2,941,528  
2,960,985  
2,963,021  
191: 2,920,622  
2,931,357  
2,944,545  
2,956,562  
194: 2,951,480  
195: 2,954,027  
203: 2,944,546  
2,944,547  
206: 2,931,358  
208: 2,920,623  
2,965,100  
214: 2,923,293  
2,923,294  
2,925,814  
2,927,582  
2,928,391  
2,928,392  
2,929,378  
2,934,067  
2,937,644  
2,940,444  
2,944,548  
2,949,913  
2,950,716  
2,954,028  
2,955,595  
215: 2,923,295  
2,941,529  
2,953,131  
216: 2,935,067  
2,944,549

218: 2,922,419  
2,925,083  
2,933,087  
2,936,756  
2,939,459  
2,940,445  
2,940,446  
2,943,624  
2,946,331  
2,950,717  
2,952,255  
2,954,029  
2,954,767  
2,956,563  
2,959,170  
2,960,087  
219: 2,941,530  
2,922,420  
2,941,531  
2,952,256  
2,954,768  
222: 2,919,694  
2,940,447  
227: 2,919,695  
2,922,421  
2,923,296  
229: 2,957,476  
232: 2,948,279  
233: 2,920,624  
235: 2,942,603  
244: 2,924,218  
248: 2,945,494  
250: 2,945,495  
251: 2,925,084  
2,931,359  
2,955,596  
252: 2,954,030  
2,960,088  
253: 2,952,257  
260: 2,924,219  
2,962,023  
263: 2,922,422  
2,922,423  
2,934,068  
264: 2,925,815  
266: 2,946,332  
272: 2,923,297  
2,938,518  
2,953,132  
2,954,769  
276: 2,934,069  
2,936,757  
2,939,460  
2,940,448  
2,941,532  
2,952,258  
283: 2,920,625  
2,928,393  
2,958,326  
284: 2,926,666  
2,927,583  
2,931,360  
2,931,361  
2,936,758  
2,951,481  
285: 2,926,667  
2,938,519  
2,943,625  
2,965,101  
287: 2,921,583  
2,944,550  
2,956,564  
288: 2,954,770  
289: 2,928,394  
290: 2,939,461  
2,940,449  
2,952,259  
2,952,260  
2,960,089  
2,964,039  
2,964,040  
2,964,041  
2,965,102  
295: 2,937,645  
2,940,450  
2,944,551  
296: 2,923,298  
297: 2,945,496  
303: 2,919,696  
2,942,604  
304: 2,944,552  
2,948,280  
305: 2,930,376  
2,932,296  
317: 2,951,482  
325: 2,959,171  
2,962,024  
327: 2,936,759  
328: 2,933,088  
2,943,626

334: 2,940,451  
2,940,452  
335.5: 2,928,395  
340: 2,959,172  
344: 2,930,377  
346: 2,921,584  
348: 2,935,068  
349: 2,919,697  
2,927,584  
2,936,760  
2,936,761  
350: 2,930,378  
351: 2,923,299  
354: 2,934,070  
355: 2,921,585  
361: 2,924,220  
369: 2,956,565  
373: 2,960,986  
396: 2,930,379  
2,954,771  
402: 2,949,914  
416: 2,943,627  
418: 2,943,628  
419: 2,932,297  
422: 2,936,762  
432: 2,929,380  
2,934,071  
2,949,915  
433: 2,956,566  
436: 2,920,626  
439: 2,963,022  
454: 2,928,396  
2,939,462  
2,940,453  
461: 2,925,816  
465: 2,920,627  
2,926,668  
466: 2,965,103  
469: 2,923,300  
472: 2,954,031  
479: 2,953,133  
2,959,173  
482: 2,946,333  
2,949,115  
483: 2,963,023  
484: 2,932,301  
2,946,334  
489: 2,919,698  
2,949,916  
491: 2,940,454  
510: 2,926,669  
513: 2,920,628  
516: 2,962,025  
521: 2,955,597  
522: 2,946,335  
523: 2,928,397  
2,962,026  
525: 2,958,327  
528: 2,980,987  
533: 2,925,817  
540: 2,929,381  
541: 2,932,298  
2,949,917  
542: 2,950,718  
546: 2,921,596  
2,955,598  
547: 2,923,302  
2,942,605  
2,955,599  
548: 2,933,089  
2,952,261  
2,953,134  
561: 2,930,380

## Class 129

7: 2,925,085  
10: 2,924,221  
13: 2,962,027  
16: 2,925,086  
2,927,585  
2,937,646  
2,940,455  
2,954,032  
2,954,033  
2,964,042  
2,966,156  
16.1: 2,922,424  
16.7: 2,927,586  
23: 2,935,986  
2,951,483  
2,954,034  
24: 2,928,398  
2,947,309  
2,950,719  
2,957,477  
28: 2,924,222  
31: 2,965,104  
40: 2,960,090

## Class 130

6: 2,927,587  
2,929,382  
2,931,362  
2,959,174  
2,960,988  
9: 2,951,484  
2,951,485  
20: 2,932,299  
21: 2,950,720  
26: 2,937,647  
27: 2,931,363  
2,959,175  
2,962,028  
30: 2,934,072  
2,943,629  
2,943,630

## Class 131

2: 2,943,958  
2,943,959  
3: 2,935,987  
2,937,648  
9: 2,923,647  
2,947,310  
2,958,328  
10: 2,920,629  
2,920,630  
2,921,587  
2,941,533  
2,949,116  
2,954,035  
2,954,772  
2,954,773  
2,954,774  
11: 2,934,073  
15: 2,927,588  
2,936,763  
2,944,553  
2,949,117  
17: 2,930,719  
2,930,720  
2,938,518  
2,941,906  
2,941,907  
21: 2,925,818  
2,938,520  
2,938,521  
2,945,497  
2,945,498  
2,948,281  
2,952,262  
2,953,135  
2,964,775  
2,966,567  
22: 2,930,381  
24: 2,924,223  
25: 2,929,383  
27: 2,965,105  
29: 2,945,499  
35: 2,939,463  
39: 2,926,670  
42: 2,926,671  
52: 2,963,025  
66: 2,949,918  
94: 2,920,631  
2,929,384  
2,935,069  
2,942,606  
2,955,600  
2,963,026  
110: 2,932,300  
125: 2,949,118  
131: 2,962,029  
133: 2,955,601  
140: 2,933,090  
2,957,478  
2,959,176  
147: 2,942,607  
2,954,776  
149: 2,949,919  
2,964,043  
173: 2,919,699  
2,930,382  
174: 2,932,301  
175: 2,921,588  
2,946,336  
2,962,030  
182: 2,953,136  
184: 2,954,777  
2,956,568  
186: 2,926,672  
187: 2,954,778  
2,954,780  
2,954,781  
2,954,782  
2,954,783



187: 2, 956, 569	89: 2, 931, 370	159: 2, 940, 459	5: 2, 957, 037	175: 2, 931, 849	68: 2, 938, 529	116.3: 2, 940, 462
189: 2, 954, 784	2, 931, 371	164: 2, 944, 557	2, 957, 937	2, 937, 222	2, 945, 503	2, 950, 730
2, 954, 785	92: 2, 962, 033	167: 2, 954, 038	6: Re.24,830	2, 942, 059	2, 947, 315	2, 965, 120
194: 2, 952, 263	93: 2, 925, 087	168: 2, 933, 093	2, 920, 127	2, 922, 833	2, 962, 038	116.5: 2, 921, 597
198: 2, 924, 224	116: 2, 956, 570	169: 2, 930, 386	2, 923, 756	2, 926, 211	2, 966, 163	2, 940, 463
2, 944, 554	122: 2, 964, 046	2, 939, 466	2, 928, 888	2, 930, 831	2, 960, 096	2, 946, 341
2, 951, 486	123: 2, 966, 158	2, 956, 571	2, 930, 828	2, 937, 223	2, 932, 308	2, 965, 121
201: 2, 954, 786	147: 2, 933, 092	2, 958, 332	2, 934, 580	2, 956, 101	2, 933, 096	117: 2, 922, 431
202: 2, 933, 091	156: 2, 929, 386	171: 2, 935, 073	2, 937, 219	2, 960, 560	2, 954, 041	2, 957, 488
207: 2, 955, 602		174: 2, 943, 633	2, 941, 022		2, 941, 540	118: 2, 923, 309
208: 2, 920, 416		176: 2, 956, 572	2, 942, 052		2, 945, 504	2, 930, 391
2, 928, 399	<b>Class 133</b>	2, 965, 112	2, 942, 053	<b>Class 137</b>	2, 966, 165	119: 2, 930, 392
2, 928, 400	2: 2, 921, 591	182: 2, 960, 093	2, 951, 106	1: 2, 932, 305	2, 966, 165	2, 939, 474
2, 931, 364	2, 922, 427	2, 960, 991	9: 2, 934, 581	2, 941, 537	2, 919, 710	2, 959, 183
2, 936, 764	3: 2, 943, 631	183: 2, 950, 724	13: 2, 954, 417	2, 953, 146	2, 924, 231	2, 960, 102
2, 940, 456	4: 2, 937, 650	2, 964, 047	17: 2, 934, 582	2, 957, 484	2, 956, 574	122: 2, 947, 318
2, 948, 282	2, 954, 307	184: 2, 950, 725	20: 2, 945, 078	2, 965, 114	2, 965, 117	129: 2, 965, 122
2, 954, 036	2, 957, 481	186: 2, 954, 791	24: 2, 928, 889	2: 2, 953, 147	2, 928, 407	132: 2, 927, 595
2, 954, 787	5: 2, 936, 769	2, 959, 179	26: 2, 938, 063	3: 2, 939, 469	2, 956, 575	2, 933, 097
2, 966, 157	2, 941, 536	188: 2, 959, 180	27: 2, 920, 128	2, 958, 333	80: 2, 928, 408	141: 2, 959, 184
223: 2, 919, 700	6: 2, 920, 632	2, 966, 159	30: 2, 931, 846	4: 2, 933, 094	81: 2, 919, 711	142: 2, 957, 489
225: 2, 965, 106	8: 2, 926, 673	191: 2, 947, 312	24: 2, 928, 680	5: 2, 928, 406	82: 2, 920, 639	146: 2, 927, 596
235: 2, 919, 701	2, 955, 605	194: 2, 950, 726	36: 2, 964, 582	10: 2, 948, 290	2, 928, 409	154: 2, 943, 635
2, 936, 765			56: 2, 953, 618	14: 2, 921, 593	2, 929, 390	2, 960, 103
2, 938, 522	<b>Class 134</b>		61: 2, 955, 146	2, 957, 485	2, 935, 077	155: 2, 939, 475
2, 950, 721	1: 2, 920, 987	<b>Class 135</b>	65: 2, 952, 726	15: 2, 920, 635	2, 939, 472	2, 952, 268
2, 951, 487	2, 924, 542	1: 2, 921, 592	2, 953, 619	17: 2, 927, 590	2, 944, 558	2, 954, 043
2, 953, 137	2, 941, 908	2, 930, 387	77: 2, 927, 951	2, 949, 122	2, 950, 728	2, 963, 036
2, 963, 027	2, 961, 354	2, 931, 373	83: 2, 928, 890	2, 963, 032	2, 960, 097	170.1: 2, 966, 166
237: 2, 950, 722	2: 2, 935, 428	2, 932, 304	2, 942, 054	18: 2, 957, 687	83: 2, 919, 712	171: 2, 925, 823
238: 2, 944, 555	3: 2, 965, 521	2, 934, 075	2, 953, 620	2, 959, 182	2, 930, 389	172: 2, 957, 490
241: 2, 931, 365	6: 2, 929, 749	2, 938, 524	2, 959, 631	22: 2, 946, 338	2, 960, 995	174: 2, 938, 531
245: 2, 931, 366	9: 2, 958, 615	2, 938, 525	86: 2, 921, 110	2, 948, 291	84: 2, 953, 148	183: 2, 936, 772
256: 2, 931, 367	10: 2, 927, 871	2, 938, 526	2, 924, 634	24: 2, 926, 680	2, 954, 794	2, 945, 505
2, 942, 608	11: 2, 944, 924	2, 939, 467	2, 925, 454	25: 2, 938, 527	85: 2, 919, 713	2, 950, 731
2, 950, 723	12: 2, 923, 648	2, 942, 609	2, 925, 455	27: 2, 922, 429	2, 921, 595	2, 951, 496
2, 951, 488	19: 2, 963, 389	2, 943, 634	2, 928, 891	29: 2, 932, 306	2, 921, 596	185: 2, 955, 611
2, 963, 028	22: 2, 932, 593	2, 946, 337	2, 933, 546	30: 2, 927, 591	2, 927, 597	193: 2, 920, 641
2, 964, 044	2, 935, 429	2, 948, 286	2, 935, 547	33: 2, 963, 033	2, 929, 391	195: 2, 939, 476
2, 965, 107	2, 935, 430	2, 955, 606	2, 938, 064	34: 2, 926, 681	2, 930, 390	2, 949, 925
2, 965, 108	2, 952, 571	2, 957, 482	2, 946, 836	2, 954, 039	2, 937, 655	197: 2, 931, 376
257: 2, 940, 457	2, 956, 910	2: 2, 953, 145	2, 947, 797	2, 965, 115	2, 950, 729	202: 2, 926, 685
2, 957, 479	2, 956, 911	3: 2, 928, 403	89: 2, 929, 859	36: 2, 951, 493	2, 952, 266	2, 927, 597
260: 2, 948, 283	2, 955, 964	2, 935, 074	2, 931, 847	37: 2, 923, 306	2, 953, 149	2, 931, 377
	25: 2, 930, 721	2, 936, 771	2, 938, 938	38: 2, 927, 592	2, 957, 486	2, 935, 990
	2, 958, 616	2, 963, 030	2, 949, 498	2, 933, 095	2, 960, 098	2, 949, 926
<b>Class 132</b>	2, 965, 522	4: 2, 926, 676	2, 953, 621	2, 934, 077	2, 960, 098	2, 960, 104
1: 2, 930, 383	2, 966, 431	2, 926, 677	2, 962, 539	2, 946, 339	2, 964, 051	204: 2, 936, 773
2, 932, 302	27: 2, 961, 355	2, 928, 404	2, 927, 145	2, 952, 264	2, 965, 118	2, 939, 477
7: 2, 919, 702	28: 2, 965, 523	2, 937, 651	2, 931, 848	2, 962, 035	86: 2, 923, 307	2, 947, 319
2, 930, 384	2, 961, 356	2, 948, 287	2, 936, 327	2, 965, 116	2, 929, 392	2, 959, 185
2, 957, 480	2, 964, 429	2, 960, 992	2, 937, 220	43: 2, 935, 075	2, 949, 922	205: 2, 921, 598
9: 2, 922, 425	38: 2, 937, 111	2, 960, 993	2, 938, 065	2, 942, 610	88: 2, 929, 393	2, 930, 393
2, 945, 284	2, 940, 877	2, 962, 034	2, 945, 079	2, 942, 611	2, 949, 123	2, 930, 394
34: 2, 924, 225	2, 955, 965	5: 2, 926, 678	2, 948, 767	2, 942, 612	2, 957, 487	206: 2, 957, 491
2, 924, 226	2, 962, 395	2, 928, 405	2, 934, 076	2, 955, 607	98: 2, 934, 080	207: 2, 949, 126
2, 935, 070	40: 2, 937, 112	2, 948, 288	2, 963, 533	2, 960, 994	2, 949, 923	210: 2, 935, 991
2, 953, 138	41: 2, 933, 421	2, 950, 727	2, 964, 583	2, 966, 160	2, 932, 309	212: 2, 932, 310
37: 2, 924, 227	42: 2, 951, 777	2, 956, 573	2, 933, 547	2, 920, 636	2, 935, 078	2, 929, 395
2, 955, 603	46: 2, 935, 989	2, 957, 483	2, 934, 583	45: 2, 934, 078	2, 949, 124	2, 926, 686
38: 2, 955, 604	56: 2, 925, 820	2, 963, 031	2, 948, 768	2, 939, 479	2, 949, 924	2, 946, 342
39: 2, 936, 766	57: 2, 954, 789	6: 2, 937, 652	2, 954, 418	48: 2, 941, 538	2, 953, 150	218: 2, 925, 090
2, 954, 788	58: 2, 928, 401	2, 955, 113	2, 948, 769	2, 964, 045	2, 953, 150	2, 927, 598
2, 960, 989	2, 934, 074	7.1: 2, 926, 679	2, 948, 767	2, 965, 161	99.5: 2, 940, 460	2, 938, 532
2, 962, 031	2, 947, 311	15: 2, 923, 305	2, 923, 755	2, 962, 037	2, 964, 052	2, 940, 464
40: 2, 980, 091	2, 953, 143	2, 939, 468	2, 960, 558	53: 2, 932, 307	100: 2, 940, 461	2, 941, 542
41: 2, 927, 589	2, 958, 330	20: 2, 948, 289	2, 966, 538	54: 2, 931, 374	2, 953, 151	2, 953, 153
2, 937, 649	2, 963, 029	22: 2, 960, 994	2, 952, 727	56: 2, 929, 389	2, 955, 608	2, 956, 579
2, 941, 534	60: 2, 949, 119	25: 2, 929, 388	2, 962, 540	2, 941, 539	2, 956, 578	219: 2, 938, 533
2, 953, 139	63: 2, 923, 304	26: 2, 929, 388	2, 962, 540	2, 954, 040	2, 956, 578	2, 950, 732
42: 2, 938, 523	2, 940, 458	36: 2, 920, 634	2, 962, 540	2, 962, 038	101: Re.24,892	2, 962, 039
2, 953, 140	64: 2, 925, 088	37: 2, 937, 653	2, 962, 540	62: 2, 926, 682	2, 951, 495	2, 962, 040
45: 2, 930, 385	65: 2, 925, 821	49: Re.24,874	2, 962, 540	63: 2, 926, 683	2, 956, 577	2, 931, 378
2, 932, 303	72: 2, 926, 674	2, 960, 095	2, 962, 540	2, 948, 340	101.19: 2, 926, 684	2, 943, 636
2, 936, 767	76: 2, 928, 402		2, 962, 540	2, 947, 313	101.21: 2, 942, 613	222: 2, 966, 167
2, 949, 920	2, 953, 331	<b>Class 136</b>	2, 962, 540	2, 954, 792	101.25: 2, 944, 560	223: 2, 939, 478
46: 2, 924, 228	2, 965, 110	3: 2, 942, 050	145: 2, 925, 456	64: 2, 920, 637	2, 947, 316	2, 942, 614
2, 935, 071	2, 924, 229	4: 2, 920, 126	2, 936, 328	2, 921, 594	2, 960, 099	2, 949, 927
2, 944, 556	80: 2, 953, 144	2, 921, 972	2, 937, 221	2, 922, 430	103: 2, 954, 795	224: 2, 933, 098
47: 2, 945, 500	95: 2, 960, 990	2, 923, 755	2, 942, 057	2, 938, 528	107: 2, 923, 308	2, 943, 637
48: 2, 921, 589	102: 2, 948, 285	2, 926, 209	146: 2, 956, 100	2, 939, 471	2, 929, 394	2, 954, 796
49: 2, 959, 177	107: 2, 951, 490	2, 930, 827	2, 964, 584	2, 945, 501	2, 948, 293	227: 2, 933, 099
50: 2, 931, 368	115: 2, 920, 633	2, 937, 218	2, 965, 697	2, 947, 314	2, 948, 292	2, 947, 317
57: 2, 922, 426	2, 939, 465	2, 942, 051	147: 2, 934, 585	2, 948, 292	2, 951, 494	2, 955, 609
73: 2, 935, 988	2, 949, 120	2, 943, 132	148: 2, 945, 080	2, 952, 265	2, 954, 793	2, 956, 578
2, 941, 535	119: 2, 931, 372	2, 949, 497	2, 960, 559	2, 954, 793	2, 963, 034	109: 2, 964, 053
73.5: 2, 953, 141	122: 2, 919, 705	2, 952, 724	153: 2, 930, 830	2, 962, 036	110: 2, 935, 079	2, 937, 656
73.6: 2, 935, 072	2, 919, 705	2, 952, 725	154: 2, 925, 358	2, 962, 036	2, 953, 152	2, 928, 412
2, 936, 768	2, 919, 706	2, 961, 474	2, 929, 860	2, 962, 036	2, 954, 044	240: 2, 921, 599
75.8: 2, 923, 303	123: 2, 936, 770	2, 961, 475	2, 952, 572	2, 962, 036	2, 955, 610	2, 930, 395
79: 2, 953, 142	130: 2, 949, 121	2, 963, 531	2, 952, 572	2, 962, 036	2, 963, 035	2, 957, 492
80: 2, 958, 329	132: 2, 954, 790	2, 963, 532	2, 952, 572	2, 962, 036	2, 963, 035	246.12: 2, 954, 044
2, 965, 109	134: 2, 951, 491	2, 963, 532	2, 952, 572	2, 962, 036	2, 963, 035	2, 956, 580
83: 2, 919, 703	135: 2, 965, 111	2, 963, 532	2, 952, 572	2, 962, 036	2, 963, 035	2, 957, 492
84: 2, 921, 590	140: 2, 949, 921	2, 963, 532	2, 952, 572	2, 962, 036	2, 963, 035	246.13: 2, 923, 310
2, 951, 489	141: 2, 959, 178	2, 963, 532	2, 952, 572	2, 962, 036	2, 963, 035	2, 926, 687
2, 962, 032	14					



## Class 137—Con.

247. 13:	2, 953, 154	467:	2, 954, 046	533. 13:	2, 937, 659	622:	2, 920, 650	635:	2, 923, 321	76:	2, 929, 409	192:	2, 931, 396
248:	2, 942, 615	468:	2, 935, 999	538:	2, 928, 417		2, 922, 439		2, 939, 484		2, 964, 065		2, 941, 552
251:	2, 954, 045		2, 966, 170	539:	2, 949, 129		2, 922, 440	636:	2, 921, 605	77:	2, 962, 053	196:	2, 925, 834
256:	2, 953, 155	469:	2, 939, 479	539. 5:	2, 933, 103		2, 924, 239	637. 1:	2, 959, 192	78:	2, 930, 408		2, 942, 628
263:	2, 926, 688	483:	2, 952, 272	540:	2, 928, 418		2, 924, 240		2, 955, 618		2, 966, 173	201:	2, 923, 327
	2, 948, 294		2, 964, 055		2, 930, 401		2, 928, 423	777:	2, 920, 654	80:	2, 925, 831	217:	2, 943, 649
	2, 953, 156	484. 2:	2, 960, 107		2, 940, 472		2, 930, 402		2, 934, 092	81:	2, 948, 301		2, 944, 572
266:	2, 920, 642	484. 8:	2, 946, 344		2, 959, 188		2, 933, 105	780:	2, 936, 785	86:	2, 959, 197		2, 961, 008
	2, 927, 600	486:	2, 938, 536	541:	2, 956, 584		2, 934, 089		2, 925, 096	87:	2, 934, 096	229:	2, 928, 429
	2, 931, 381	487:	2, 960, 997		2, 963, 041		2, 934, 765	781:	2, 938, 485	89:	2, 921, 608	232:	2, 929, 411
	2, 935, 993	487. 5:	2, 922, 434	542:	2, 960, 998		2, 935, 090	784:	2, 938, 545		2, 923, 323		2, 958, 342
267:	2, 965, 124		2, 926, 691	543. 19:	2, 934, 085		2, 936, 001		2, 952, 276		2, 924, 246	237:	2, 962, 055
268:	2, 935, 994		2, 948, 295	544:	2, 926, 694		2, 939, 483		2, 964, 062		2, 926, 700	241:	2, 939, 490
	2, 944, 561	488:	2, 925, 092	546:	2, 939, 480		2, 946, 346	785:	2, 923, 322		2, 932, 324	243:	2, 951, 510
	2, 953, 157	489:	2, 930, 398	549:	2, 919, 715		2, 946, 347		2, 965, 137		2, 937, 666	245:	2, 921, 609
	2, 953, 158		2, 938, 537	550:	2, 938, 541		2, 953, 162	786:	2, 928, 425	89. 2:	2, 963, 046		2, 921, 610
	2, 957, 493	489. 3:	2, 923, 316	552:	2, 949, 130		2, 953, 164		2, 963, 043	90:	2, 962, 054		2, 931, 397
	2, 965, 125	489. 5:	2, 955, 612		2, 956, 585		2, 954, 050	788:	2, 928, 426	93:	2, 927, 609		2, 957, 497
269. 5:	2, 922, 432	490:	2, 925, 824	557:	2, 936, 000		2, 954, 051		2, 939, 486	94. 3:	2, 946, 349	247:	2, 942, 629
270:	2, 944, 562	492:	2, 965, 128	558:	2, 951, 502		2, 954, 052		2, 950, 739	94. 5:	2, 931, 394		2, 954, 058
	2, 952, 269	493. 9:	2, 928, 413	559:	2, 957, 494		2, 958, 340		2, 953, 166	96:	2, 930, 409		2, 955, 620
	2, 966, 168		2, 951, 500	560:	2, 929, 404		2, 959, 189	789:	2, 931, 390		2, 942, 625		2, 955, 621
271:	2, 927, 601	494:	2, 954, 047		2, 934, 086		2, 960, 111		2, 949, 132		2, 954, 804	250:	2, 936, 003
	2, 940, 465		2, 963, 039	561:	2, 960, 110		2, 964, 058	790:	2, 945, 510	97:	2, 926, 701	251:	2, 949, 938
	2, 947, 320	495:	2, 940, 469		2, 966, 171		2, 965, 131	793:	2, 920, 655		2, 929, 410	255:	2, 951, 511
312:	2, 925, 091		2, 965, 129	563:	2, 956, 586		2, 965, 132		2, 942, 624	99:	2, 951, 506	256:	2, 928, 430
	2, 944, 563		2, 960, 734	564. 5:	2, 932, 317		2, 965, 133	796:	2, 925, 829			257:	2, 956, 593
	2, 954, 797	496:	2, 920, 645		2, 960, 999	622. 5:	2, 921, 602					260:	2, 965, 138
315:	2, 923, 311		2, 921, 601	565:	2, 935, 085	623:	2, 924, 241	Class 138				263:	2, 921, 611
	2, 924, 232		2, 940, 470		2, 937, 661		2, 924, 242	25:	2, 936, 786	1:	2, 956, 588	266:	2, 921, 612
	2, 924, 233		2, 960, 108	571:	2, 922, 438		2, 926, 696		2, 937, 662	7:	2, 945, 511		2, 928, 431
	2, 929, 396	498:	2, 931, 384		2, 962, 048		2, 930, 403		2, 959, 193	8:	2, 954, 805	291:	2, 958, 343
	2, 934, 082		2, 943, 638	576:	2, 926, 695		2, 931, 388	26:	2, 931, 391	11:	2, 948, 302		2, 966, 174
	2, 942, 616	499:	2, 924, 236	582:	2, 920, 648		2, 931, 389		2, 943, 641	27:	2, 947, 327	317:	2, 926, 703
320:	2, 923, 312		2, 933, 100	587:	2, 953, 159		2, 933, 100	30:	2, 919, 718	28:	2, 954, 055	333:	2, 933, 108
322:	2, 926, 689	501:	2, 942, 619	588:	2, 936, 781		2, 935, 091		2, 924, 244	29:	2, 938, 546	334:	2, 954, 059
328:	2, 937, 657		2, 951, 501	589:	2, 955, 615		2, 936, 783		2, 931, 392	30:	2, 920, 657	336:	2, 962, 055
329. 04:	2, 935, 995	504:	2, 938, 538		2, 964, 056		2, 940, 475		2, 932, 320		2, 930, 410	337:	2, 932, 326
332:	2, 920, 643	505:	2, 937, 658	590:	2, 934, 087		2, 955, 617		2, 932, 321	33:	2, 920, 658	347:	2, 924, 249
	2, 932, 312	505. 11:	2, 963, 040		2, 939, 481		2, 959, 191		2, 932, 322		2, 944, 569	352:	2, 930, 411
	2, 949, 127	505. 13:	2, 920, 646		2, 942, 620		2, 961, 001		2, 936, 787	35:	2, 938, 547	355:	2, 936, 795
338:	2, 936, 774		2, 945, 507		2, 946, 345		2, 961, 002		2, 947, 326	38:	2, 944, 570	358:	2, 957, 498
339:	2, 932, 313	505. 18:	2, 920, 647		2, 955, 614		2, 964, 059		2, 959, 194	46:	2, 926, 702	383:	2, 934, 097
340:	2, 921, 600		2, 941, 543	592:	2, 932, 318	624:	2, 926, 697		2, 963, 044	55:	2, 924, 247	384:	2, 935, 095
343:	2, 927, 602	505. 25:	2, 935, 083	593:	2, 928, 419		2, 938, 543	31:	2, 934, 093		2, 925, 832		2, 940, 478
	2, 938, 534	505. 37:	2, 949, 128		2, 949, 932		2, 940, 476		2, 937, 663		2, 941, 550	385. 5:	2, 929, 412
	2, 951, 498	505. 38:	2, 935, 084	594:	2, 943, 640		2, 941, 548		2, 943, 642	58:	2, 935, 093	387:	2, 924, 250
344:	2, 935, 080	505. 42:	2, 938, 539	595:	2, 928, 420		2, 942, 621	37:	2, 922, 441	59:	2, 941, 551		2, 935, 096
351:	2, 932, 314	508:	2, 932, 316		2, 928, 421		2, 946, 348		2, 925, 830	63:	2, 942, 626	391:	2, 928, 432
	2, 960, 106	509:	2, 933, 101	596:	2, 933, 104	624. 13:	2, 961, 004	38:	2, 929, 408	66:	2, 937, 667	396:	2, 932, 327
355. 26:	2, 935, 996	512:	2, 926, 692	597:	2, 928, 422		2, 962, 049		2, 949, 934	77:	2, 956, 589	397:	2, 958, 344
356:	2, 929, 397		2, 929, 399	599. 1:	2, 923, 319	624. 14:	2, 947, 323		2, 950, 740	79:	2, 923, 324	401:	2, 940, 479
357:	2, 930, 396	512. 1:	2, 956, 582		2, 935, 086	624. 16:	2, 952, 273	39:	2, 959, 195	88:	2, 919, 722	403:	2, 924, 251
	2, 931, 382	512. 15:	2, 954, 048		2, 938, 542	624. 18:	2, 965, 134	40:	2, 953, 167		2, 951, 507		2, 932, 328
360:	2, 952, 270	513. 5:	2, 962, 046		2, 953, 160	624. 19:	2, 960, 112	43:	2, 919, 719	89:	2, 943, 645		2, 956, 594
	2, 952, 271	513. 7:	2, 929, 399		2, 954, 799	625. 11:	2, 932, 319		2, 953, 168	91:	2, 944, 571	404:	2, 936, 004
363:	2, 936, 775	514:	2, 925, 825	599. 2:	2, 924, 237	625. 17:	2, 924, 243		2, 957, 496	92:	2, 936, 793		2, 950, 741
369:	2, 931, 383	514. 5:	2, 927, 604		2, 961, 000	625. 21:	2, 952, 274	44:	2, 931, 393	95:	2, 964, 066	406:	2, 929, 413
375:	2, 936, 776	515:	2, 945, 508	600:	2, 924, 238	625. 25:	2, 920, 651	45:	2, 936, 788	96:	2, 949, 936	408:	2, 925, 098
	2, 966, 169	515. 7:	2, 943, 639	604:	2, 927, 495		2, 930, 404		2, 939, 487	97:	2, 932, 325	412:	2, 947, 328
382:	2, 930, 397	516. 15:	2, 929, 403	605:	2, 934, 088	625. 27:	2, 965, 135		2, 948, 300	100:	2, 938, 548	413:	2, 924, 252
	2, 964, 054	516. 25:	2, 947, 321	606:	2, 951, 503	625. 28:	2, 925, 094	46:	2, 934, 094		2, 958, 341	416:	2, 964, 067
390:	2, 946, 343	516. 29:	2, 929, 401	607:	2, 929, 405	625. 29:	2, 926, 698		2, 936, 789	104:	2, 939, 489	420:	Re. 24, 765
391:	2, 920, 644		2, 931, 385	608:	2, 920, 649		2, 933, 107		2, 943, 643	105:	2, 951, 508		2, 929, 414
	2, 922, 433		2, 949, 929		2, 927, 606		2, 947, 324	46. 5:	2, 919, 720	110:	2, 920, 659		2, 961, 011
	2, 935, 081	517:	2, 925, 826	609:	2, 940, 473	625. 3:	2, 944, 567	47:	2, 921, 606	114:	2, 951, 509	423:	2, 931, 398
392:	2, 924, 234		2, 928, 415	612. 1:	2, 935, 087	625. 38:	2, 921, 603	49:	2, 920, 656	123:	2, 923, 325	425:	2, 922, 442
	2, 932, 315		2, 928, 415		2, 940, 474		2, 928, 424	50:	2, 934, 095		2, 928, 427		2, 962, 057
399:	2, 962, 042		2, 929, 403	613:	2, 935, 088	625. 4:	2, 948, 289		2, 936, 791		2, 935, 094	426:	2, 936, 796
408:	2, 923, 313		2, 948, 298		2, 958, 336		2, 953, 165	55:	2, 930, 406	125:	2, 946, 353		2, 937, 668
409:	2, 962, 043		2, 956, 583	614. 19:	2, 939, 482	625. 41:	2, 961, 005		2, 932, 323	126:	2, 927, 610		2, 949, 134
410:	2, 965, 126		2, 960, 109	615:	2, 927, 607	625. 42:	2, 952, 275	56:	2, 937, 664		2, 928, 428		2, 965, 139
412:	2, 958, 334	519:	2, 950, 735		2, 929, 406	625. 43:	2, 920, 653		2, 943, 644		2, 954, 056	Class 140	
414:	2, 923, 314	521:	2, 922, 435		2, 953, 161		2, 921, 604		2, 949, 933	127:	2, 925, 833	2:	2, 945, 512
416:	2, 963, 037	523:	2, 922, 436	620:	2, 919, 716		2, 925, 095		2, 954, 802		2, 936, 002	3:	2, 926, 704
424:	2, 965, 127	525:	2,										



93: 2, 925, 099 2, 930, 413 93: 2, 931, 399 2, 940, 451 2, 945, 514 2, 947, 329 2, 955, 623 2, 963, 050 2, 963, 051 93: 4: 2, 928, 494 102: 2, 934, 100 103: 2, 951, 512 109: 2, 963, 052 112: 2, 962, 059 115: 2, 949, 939 119: 2, 946, 356 2, 960, 119 2, 960, 069 121: 2, 929, 415 123: 2, 939, 493 2, 955, 624 2, 957, 499 2, 963, 053 124: 2, 937, 669 140: 2, 938, 549 147: 2, 935, 067 2, 935, 098 2, 957, 500 2, 960, 120 2, 960, 121	227: 2, 938, 551 231: 2, 948, 306 233: 2, 953, 172 250: 2, 964, 072 260: 2, 936, 005 263: 2, 925, 102 267: 2, 965, 142 272: 2, 949, 942 275: 2, 954, 806 279: 2, 955, 626 286: 2, 934, 104 293: 2, 951, 515 311: 2, 955, 627 317: 2, 960, 122 321: 2, 957, 503 337: 2, 942, 253 343: 2, 961, 014 348: 2, 948, 307 349: 2, 925, 103 360: 2, 957, 504 2, 936, 006 2, 942, 631 362: 2, 948, 308 370: 2, 968, 176 388: 2, 922, 446	313: 2, 926, 708 2, 946, 359 2, 965, 143 135: 2, 923, 329 2, 924, 254 2, 928, 440 2, 930, 417 2, 947, 331 2, 963, 055 139: 2, 958, 348 140: 2, 936, 801 150: 2, 934, 105 155: 2, 945, 519 157: 2, 919, 728 2, 961, 018 158: 2, 964, 076 159: 2, 926, 709 2, 929, 419 2, 955, 629 2, 963, 056 160: 2, 934, 106 169: 2, 954, 062 171: 2, 934, 107 174: 2, 919, 729 2, 929, 420 2, 962, 063 2, 966, 179	218: 2, 963, 066 2, 922, 448 219: 2, 923, 332 2, 966, 399 224: 2, 938, 553 238: 2, 922, 438 239: 2, 925, 108 240: 2, 960, 129 241: 2, 934, 113 242: 2, 930, 419 247: 2, 937, 674 249: 2, 923, 333 253: 2, 928, 441 261: 2, 926, 710 279: 2, 919, 732 2, 940, 491 2, 961, 020 281: 2, 928, 442 2, 966, 183 285: 2, 937, 675 288: 2, 919, 733 2, 920, 664 2, 924, 255 2, 925, 837 2, 934, 114 2, 935, 103 2, 937, 676 2, 945, 522 2, 948, 314 2, 950, 744 2, 955, 632 2, 958, 351 2, 960, 130 2, 962, 065 290: 2, 945, 523 2, 953, 174 291: 2, 939, 500 2, 943, 657 2, 946, 360 2, 951, 520 293: 2, 929, 422 2, 936, 803 2, 941, 557 297: 2, 928, 443 2, 952, 282 302: 2, 925, 109 2, 937, 677 308: 2, 923, 334 2, 949, 947 304: 2, 952, 293 305: 2, 920, 665 2, 947, 333 2, 949, 140 309: 2, 920, 666 2, 936, 009 2, 942, 635 2, 949, 948 2, 950, 745 2, 955, 352 318: 2, 961, 021 323: 2, 965, 144 326: 2, 942, 636	Class 146 2: 2, 944, 575 2, 966, 184 3: 2, 920, 669 2, 937, 678 2, 942, 638 2, 944, 576 11: 2, 954, 810 13: 2, 949, 950 19: 2, 935, 104 28: 2, 941, 559 2, 943, 659 2, 946, 361 2, 952, 286 2, 954, 063 2, 962, 068 32: 2, 964, 080 39: 2, 964, 081 43: 2, 925, 839 2, 927, 615 2, 940, 493 47: 2, 936, 012 49: 2, 931, 404 50: 2, 938, 556 2, 952, 287 51: 2, 931, 405 52: 2, 956, 600 2, 958, 353 55: 2, 966, 185 56: 2, 935, 105 67: 2, 934, 115 2, 937, 679 69: 2, 934, 116 72: 2, 953, 177 73: 2, 953, 177 78: 2, 919, 734 2, 923, 337 2, 924, 256 2, 934, 117 2, 941, 560 2, 947, 335 2, 956, 601 81: 2, 933, 115 2, 936, 013 83: 2, 927, 616 2, 934, 118 2, 961, 023 88: 2, 933, 116 2, 934, 119 2, 953, 178 95: 2, 954, 811 2, 966, 186 102: 2, 926, 711 2, 929, 423 2, 931, 406 2, 931, 407 2, 935, 106 2, 946, 362 107: 2, 938, 557 113: 2, 938, 554 117: 2, 950, 747 119: 2, 957, 508 123: 2, 954, 812 2, 956, 602 124: 2, 938, 558 150: 2, 925, 110 151: 2, 962, 069 160: 2, 926, 712 164: 2, 961, 024 169: 2, 944, 577 182: 2, 931, 408 2, 941, 561 2, 965, 145 186: 2, 940, 494 189: 2, 924, 257 2, 924, 258 192: Re. 24, 764 2, 934, 120 2, 934, 121 2, 952, 288 2, 953, 179 204: 2, 958, 355 215: 2, 935, 107 2, 942, 639 216: 2, 953, 180 217: 2, 930, 422 224: 2, 929, 424 238: 2, 924, 259 241: 2, 958, 356 295: 2, 922, 450	1.5: 2, 937, 113 2, 937, 960 2, 937, 961 2, 938, 819 2, 940, 878 2, 943, 005 2, 943, 006 2, 948, 642 2, 950, 219 2, 950, 220 2, 953, 486 2, 954, 307 2, 954, 308 2, 954, 309 2, 955, 966 2, 956, 912 2, 956, 913 2, 957, 788 2, 957, 789 2, 959, 501 2, 959, 502 2, 960, 418 2, 960, 419 2, 962, 396 2, 963, 390 2, 964, 430 2, 964, 431 2, 943, 007 3: 2, 940, 879 2, 962, 397 4: 2,
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## Class 151—Con.

38: 2,922,454  
2,936,805  
2,941,564  
2,943,661  
2,945,524  
2,949,141  
41.7: 2,922,455  
2,931,412  
2,936,806  
2,948,316  
41.72: 2,937,681  
41.73: 2,929,426  
2,949,142  
41.74: 2,936,014  
41.75: 2,936,015  
2,937,682  
2,940,496  
2,956,605  
41.76: 2,920,672  
44: 2,923,340  
69: 2,919,736  
2,921,616  
2,922,456  
2,948,317  
2,949,143

## Class 152

11: 2,927,619  
47: 2,919,737  
2,920,673  
153: 2,934,124  
158: 2,941,565  
173: 2,957,509  
175: 2,948,318  
176: 2,921,617  
2,953,181  
187: 2,961,025  
208: 2,941,566  
2,943,662  
2,952,290  
209: 2,926,715  
2,938,560  
2,960,138  
2,962,072  
211: 2,925,112  
2,929,427  
2,961,026  
2,964,082  
213: 2,925,843  
2,946,365  
214: 2,948,319  
216: 2,947,336  
217: 2,936,016  
218: 2,946,366  
2,963,064  
219: 2,931,413  
220: 2,947,337  
222: 2,946,367  
223: 2,926,716  
225: 2,936,807  
226: 2,926,717  
2,953,182  
228: 2,919,738  
231: 2,950,750  
233: 2,923,341  
2,925,113  
2,955,634  
236: 2,925,844  
2,929,428  
2,951,522  
2,966,188  
239: 2,934,125  
241: 2,963,065  
248: 2,951,523  
330: 2,926,718  
2,929,429  
2,933,117  
2,944,578  
2,947,338  
2,948,320  
2,948,321  
2,949,952  
2,950,751  
2,951,524  
2,952,291  
2,955,635  
2,964,083  
339: 2,925,845  
340: 2,955,636  
341: 2,942,641  
2,964,084  
347: 2,925,846  
2,935,109  
352: 2,939,502  
354: 2,930,425  
2,939,503  
2,952,292  
2,953,183  
2,958,359

354: 2,958,360  
2,960,139  
356: 2,943,663  
359: 2,943,664  
361: 2,920,674  
2,930,426  
2,945,525  
2,947,339  
362: 2,933,118  
2,934,126  
2,937,684  
2,947,340  
2,947,341  
2,947,342  
2,947,343  
2,952,293  
363: 2,953,184  
370: 2,956,606  
2,966,189  
2,966,190  
397: 2,955,637  
409: 2,929,430  
410: 2,922,457  
2,929,431  
415: 2,929,432  
416: 2,944,579  
417: 2,931,414  
418: 2,939,504  
427: 2,928,447  
2,928,448  
2,928,449  
2,934,127  
2,936,017  
2,937,685  
2,938,561  
2,962,073  
2,966,191  
429: 2,933,119  
2,933,120  
2,933,121  
2,932,642  
2,944,580  
431: 2,919,739  
2,943,665

## Class 153

1: 2,921,618  
2,929,433  
2,934,128  
2,938,562  
2,939,505  
2,940,497  
2,945,526  
2,946,368  
2,953,185  
2,954,813  
2,961,027  
2,962,074  
2,965,147  
2,966,192  
2,922,458  
2,925,114  
2,931,415  
2,933,122  
2,935,110  
2,939,506  
2,942,643  
2,948,322  
2,954,064  
2,956,607  
2,962,075  
2,966,193  
3: 2,932,335  
4: 2,964,085  
6: 2,962,076  
7: 2,925,847  
11: 2,925,848  
15: 2,959,205  
2,966,194  
16: 2,936,808  
2,945,527  
2,963,066  
17: 2,932,336  
21: 2,922,459  
2,924,260  
2,928,450  
2,928,451  
2,933,123  
2,935,111  
2,940,498  
2,944,581  
2,954,065  
2,964,086  
2,965,148  
2,966,195  
25: 2,920,675  
2,935,112  
28: 2,935,113  
32: 2,920,676  
2,923,342  
2,928,452  
2,931,416

32: 2,935,114  
2,935,115  
2,936,018  
2,938,563  
2,940,499  
2,945,528  
2,954,066  
2,954,067  
2,955,638  
2,957,610  
2,958,361  
2,960,140  
2,964,087  
2,964,088  
2,965,149  
2,966,196  
34: 2,932,337  
35: 2,951,525  
2,961,028  
38: 2,938,564  
2,948,323  
2,949,144  
2,955,639  
39: 2,936,809  
2,954,814  
40: 2,924,261  
2,938,565  
2,944,582  
2,945,529  
2,949,145  
2,949,146  
2,963,067  
2,966,197  
44: 2,957,611  
45: 2,921,619  
2,928,453  
2,942,644  
2,956,608  
46: 2,924,262  
2,937,686  
2,944,583  
2,956,609  
48: 2,936,019  
2,937,687  
2,939,507  
2,940,500  
2,943,666  
2,946,369  
2,947,344  
2,952,294  
2,958,362  
54: 2,931,417  
2,933,124  
2,940,501  
2,941,567  
2,948,324  
2,964,089  
59: 2,956,610  
63: 2,962,077  
65: 2,923,343  
2,925,115  
2,937,688  
66: 2,944,584  
71: Re.24,783  
2,964,090  
72: 2,962,078  
73: 2,919,740  
2,925,116  
2,928,454  
2,940,502  
2,960,141  
2,960,142  
2,963,068  
76: 2,948,325  
2,954,068  
78: 2,929,434  
79: 2,925,849  
2,932,338  
2,941,568  
2,941,569  
2,948,326  
80: 2,943,667  
2,952,295  
2,963,069  
80.5: 2,919,741  
81: 2,924,263  
2,936,020  
2,936,810  
2,962,079  
85: 2,936,811  
86: 2,922,460  
93: 2,920,677  
2,920,678  
99: 2,965,152  
106: 2,945,530  
2,949,147  
2,963,070  
107: 2,944,585  
2,963,071  
108: 2,940,503

## Class 154

1: 2,919,742  
2,920,679  
2,920,680  
2,926,719  
2,927,620  
2,927,621  
2,927,622  
2,928,455  
2,929,435  
2,929,436  
2,933,125  
2,933,126  
2,934,129  
2,935,116  
2,936,021  
2,937,689  
2,942,645  
2,944,586  
2,945,531  
2,948,327  
2,948,328  
2,949,148  
2,950,752  
2,952,296  
2,956,611  
1.1: 2,931,418  
2,940,504  
1.2: 2,940,505  
1.5: 2,964,091  
1.6: 2,921,620  
2,926,720  
2,946,370  
2,954,069  
2,956,612  
2,958,363  
1.7: 2,920,681  
2,927,623  
2,931,419  
2,932,339  
2,936,022  
2,949,149  
2,954,815  
2,962,080  
2,966,198  
1.75: Re.24,804  
1.76: 2,954,816  
2,954,817  
1.8: 2,927,624  
2,929,437  
2,934,130  
2,938,566  
2,958,364  
2,941,570  
2.21: 2,964,436  
2.22: 2,936,257  
2,963,392  
2.23: 2,964,437  
2.24: 2,938,821  
2,947,652  
2.25: 2,952,574  
2.26: 2,941,911  
2,946,710  
2.27: 2,940,883  
2,955,968  
2.28: 2,936,258  
2,948,647  
2.6: 2,924,264  
2,948,329  
2,949,150  
2,956,613  
2.65: 2,952,575  
2.7: 2,920,989  
2,943,962  
2,948,645  
2,948,646  
2.71: 2,966,435  
2.73: 2,943,963  
2,944,926  
2,959,507  
2,965,527  
2.74: 2,943,964  
2.77: 2,946,711  
4: 2,932,340  
7: 2,936,812  
8: 2,927,625  
2,941,571  
2,965,151  
2,926,721  
2,931,420  
2,935,117  
2,936,813  
2,945,532  
2,955,640  
2,956,614  
2,965,152  
10: 2,936,023  
2,939,508  
2,943,668  
2,951,526  
2,953,186  
2,954,818

16: 2,920,682  
20: 2,962,081  
25: 2,961,029  
26: 2,936,814  
27: 2,931,421  
28: 2,926,722  
2,927,626  
2,928,456  
2,946,371  
2,949,953  
2,961,030  
29: 2,925,117  
2,931,422  
2,953,187  
2,960,143  
30: 2,938,567  
2,938,568  
2,939,509  
2,949,954  
2,960,145  
2,960,146  
31: 2,941,572  
32: 2,941,573  
2,960,146  
33: 2,955,641  
33.05: 2,949,151  
2,952,297  
2,957,612  
36: 2,944,587  
2,958,365  
37: 2,925,118  
41: 2,938,569  
2,941,574  
2,944,588  
2,952,298  
2,955,642  
42: Re.24,801  
2,925,119  
2,926,723  
2,936,815  
2,936,816  
2,940,506  
2,941,575  
2,941,576  
2,941,577  
2,947,345  
2,952,299  
2,955,643  
2,956,615  
2,957,613  
2,958,366  
2,958,367  
2,958,368  
2,960,147  
2,961,031  
2,962,082  
2,962,083  
2,963,072  
42.1: 2,925,850  
42.3: 2,930,427  
2,940,507  
2,947,346  
2,963,073  
43: 2,920,990  
2,924,545  
2,930,726  
2,931,746  
2,931,747  
2,934,464  
2,937,966  
2,941,912  
2,943,008  
2,951,778  
2,954,310  
2,956,915  
44: 2,923,560  
2,936,259  
2,962,402  
45: 2,934,465  
2,939,811  
2,943,965  
2,955,063  
45.9: 2,932,596  
2,946,712  
2,951,001  
2,951,779  
2,960,423  
2,962,403  
2,966,436  
46: 2,920,008  
2,922,732  
2,929,754  
2,930,727  
2,931,748  
2,948,648  
2,949,393  
2,952,576  
2,955,064  
2,957,791  
2,962,404  
47: 2,966,437

49: 2,941,913  
2,952,577  
50: 2,949,394  
51: 2,962,405  
52.1: 2,955,969  
52.5: 2,960,424  
53.5: 2,940,884  
2,964,438  
53.6: 2,922,733  
2,940,885  
2,941,914  
54: 2,927,876  
54.5: 2,963,393  
75: 2,927,877  
2,951,780  
2,951,781  
76: 2,925,359  
80: 2,922,734  
2,923,651  
2,939,812  
2,943,966  
2,951,002  
82: 2,937,967  
83: 2,928,764  
2,932,597  
2,934,466  
2,941,915  
2,943,967  
2,947,653  
85: 2,957,792  
88: 2,965,528  
89: 2,930,728  
90: 2,923,652  
2,927,878  
2,929,755  
2,943,968  
2,951,003  
2,951,782  
2,964,439  
2,940,886  
91: 2,948,649  
2,964,440  
2,920,009  
2,941,916  
2,954,311  
97.5: 2,934,467  
100: 2,937,968  
2,944,927  
2,947,654  
2,948,650  
2,950,221  
2,957,793  
2,959,508  
2,962,406  
2,962,407  
2,923,653  
2,925,360  
2,931,749  
2,959,509  
2,961,361  
101: 2,955,970  
2,959,510  
2,924,546  
2,955,065  
106: 2,946,713  
2,958,620  
2,959,511  
2,964,441  
110: 2,931,750  
2,943,009  
2,943,969  
2,948,651  
2,951,004  
2,955,971  
2,955,972  
2,956,916  
2,958,621  
2,961,362  
2,964,442  
2,965,529  
116: 2,933,428  
2,960,425  
2,961,363  
2,962,408  
2,963,394  
2,965,530  
118: 2,930,729  
2,931,751  
2,935,434  
2,966,438  
2,950,222  
2,955,532  
121: Re.24,850  
122: 2,962,409  
2,965,531  
123: 2,951,005  
125: 2,955,066  
2,964,443  
126: 2,927,879  
2,951,006  
2,952,578  
2,964,444

127: 2,943,010  
2,952,579  
128: 2,932,598  
2,936,260  
2,955,973  
2,955,974  
2,956,917  
2,961,364  
129: 2,932,599  
2,940,888  
130: 2,957,794  
2,960,426  
133: 2,927,050  
136: 2,940,883  
137: 2,938,822  
138: 2,959,512  
139: Re.24,855  
2,927,051  
2,936,261  
2,938,823  
2,941,917  
2,951,002  
2,951,783  
2,953,489  
2,961,365  
2,966,439  
140: 2,941,918  
2,943,011  
2,962,410

## Class 155

2: 2,920,683  
2,934,131  
2,936,024  
2,936,817  
2,939,510  
2,943,669  
2,952,300  
2,964,092  
5: 2,919,743  
2,938,570  
2,939,511  
2,939,512  
2,944,589  
2,953,188  
2,955,644  
2,958,369  
2,963,074  
5.12: 2,944,590  
5.17: Re.24,911  
5.24: 2,931,423  
2,937,690  
2,946,372  
6: 2,966,199  
8: 2,959,206  
9: 2,922,461  
2,923,344  
2,932,341  
10: 2,944,591  
2,966,201  
11: 2,941,578  
2,954,070  
14: 2,919,744  
2,920,684  
2,921,621  
2,922,462  
2,924,265  
2,927,627  
2,928,439  
2,930,428  
2,931,424  
2,932,342  
2,935,413  
2,942,646  
2,942,647  
2,951,527  
2,953,190  
2,954,071  
2,959,208  
2,961,032  
2,962,084  
2,963,075  
2,964,093  
17: 2,941,579  
18: 2,927,628  
22: 2,932,343  
2,956,616  
2,960,148  
23: Re.24,817  
28: 2,944,592  
2,949,152  
30: 2,930,429  
2,938,571  
31: 2,942,648  
36.5: 2,965,153  
41: 2,957,514



42: 2,952,301 2,955,645 2,963,076	125: 2,954,073 127: 2,937,694 128: 2,925,123	191: 2,955,646 2,955,647 2,959,212	50.1: 2,937,698 2,940,618 2,955,649	32: 2,929,445 37: 2,925,859 38: 2,941,591	84: 2,949,395 85: 2,954,312 87: 2,938,826	354: 2,928,466 357: 2,952,317 360: 2,959,222
43: 2,922,463 2,925,851 2,931,425	130: 2,947,349 2,956,618 2,935,118	2,959,213 2,960,152 2,965,161	53: 2,935,126 76: 2,925,126 77: 2,929,442	40: 2,938,578 2,942,658 2,945,535	88: 2,929,757 89: 2,921,880 2,962,413	370: 2,929,450 371: 2,964,107 374: 2,946,379
2,942,649 2,959,209 2,941,580	131: 2,935,122 2,942,651 2,960,149	2,966,208 2,922,467 2,942,654	91: 2,940,519 2,941,586 2,944,598	2,951,533 2,955,651 62: 2,922,472	90: 2,944,929 2,956,618 111: 2,940,890	2,957,522 383: 2,923,352 391: 2,925,863
44: Re.24,762 2,928,457 2,938,572	133: 2,940,511 2,947,515 134: 2,939,517	2,962,089 2,961,037 197: 2,952,306	2,956,621 2,957,517 2,962,090	84: 2,937,699 87: 2,925,860 2,939,527	113: 2,940,891 114: 2,950,223 129: 2,928,765	392: 2,920,700 2,920,701 2,922,476
50: 2,937,691 51: 2,936,818 2,953,191	139: 2,920,686 2,943,672 2,949,155	198: 2,955,648 2,961,038	99: 2,935,127 2,941,587 2,956,622	90: 2,963,084 91: 2,929,446 2,947,354	132: 2,924,548 134: 2,920,991 136: 2,958,623	2,938,582 2,948,337 394: 2,961,042
2,961,033 53: 2,925,120 2,965,154	2,957,516 2,966,204 140: 2,927,631	<b>Class 157</b> 1: 2,923,346 2,925,857	2,959,215 2,965,165 104: 2,963,083	2,960,756 113: 2,957,520 114: 2,920,694	145: 2,932,601 2,940,892 2,944,940	401: 2,961,043 411: 2,920,702 2,923,353
55: 2,921,622 2,949,153 57: 2,959,210	2,962,085 141: 2,936,026 142: 2,948,332	2,926,726 2,934,827 2,954,079	2,962,091 106: 2,935,128 107: 2,964,105	2,952,312 166: 2,923,350 167: 2,920,695	2,962,415 155: 2,940,893 157: 2,920,992	2,927,636 2,926,730 2,927,636
69: 2,920,685 2,964,094 71: 2,951,528	147: 2,920,687 2,966,724 149: 2,941,582	2,960,153 2,922,468 2,940,514	109: 2,928,459 2,928,460 2,936,829	168: 2,939,528 176: 2,932,351 178: 2,925,861	2,943,013 2,957,796 2,962,580	2,938,583 2,939,530 2,940,521
72: 2,963,077 75: 2,923,345 77: 2,930,430	152: 2,947,350 153: 2,939,518 2,962,086	2,965,159 157: 2,956,619 159: 2,962,087	2,943,674 113: 2,959,216 2,965,166	181: 2,922,473 183: 2,922,474 187: 2,939,529	2,961,366 2,961,367 2,922,736	2,946,380 2,950,758 2,951,534
78: 2,944,593 79: 2,924,266 80: 2,946,373	160: 2,941,583 2,947,351 165: 2,934,132	2,960,153 1.28: 2,933,128 1.5: 2,934,136	2,965,167 114: 2,922,470 2,959,217	188: 2,930,434 2,936,830 2,938,579	2,922,737 161: 2,929,758 162: 2,924,549	2,953,203 2,954,824 112: 2,928,467
83: 2,961,034 2,965,155 88: 2,932,344	166: 2,930,431 169: 2,938,573 2,950,753	2,921,627 2,924,267 2,924,268	2,966,211 116: 2,920,691 2,931,432	2,955,652 189: 2,926,727 2,945,536	2,922,738 164: 2,926,116 2,932,603	2,955,067 166: 2,948,652 167: 2,949,396
2,937,692 2,940,508 91: 2,965,156	2,963,079 2,966,205 171: 2,935,123	2,936,828 2,939,520 2,941,584	2,932,349 2,960,157 2,966,211	2,946,355 191: 2,926,728 2,947,355	2,959,514 168: 2,926,117 2,963,396	2,945,537 2,947,357 113: 2,945,358
94: 2,935,120 2,939,514 95: 2,921,623	172: 2,960,151 174: 2,958,373 177: 2,947,352	2,945,534 2,946,375 2,961,039	2,962,092 117.5: 2,920,692 2,952,310	2,946,445 193: 2,966,212 199: 2,959,220	2,964,445 169: 2,947,658 171: 2,954,313	2,946,380 114: 2,934,144 115: 2,934,145
2,935,121 105: 2,952,302 2,964,095	2,958,374 178: 2,919,747 2,926,725	2,965,162	2,962,093 119: 2,932,350 122: 2,960,158	2,959,221 206: 2,943,675 207: 2,930,435	2,935,436 172: 2,931,752 175: 2,935,436	2,947,358 2,946,381 2,947,358
106: Re.24,849 2,919,745 2,919,746	2,942,632 2,966,206 179: Re.24,914	<b>Class 158</b> 1: 2,925,858 4: 2,923,348	2,960,159 123: 2,938,577 2,959,218	2,943,675 207: 2,930,435 209: 2,952,313	2,949,397 178: 2,949,397 179: 2,944,931	<b>Class 160</b> 1: 2,923,355 3: 2,950,759
2,922,464 2,925,121 2,925,852	2,924,914 2,925,855 2,925,856	2,927,632 2,927,633 2,931,428	2,950,754 125: 2,924,270 2,950,754	2,952,313 219: 2,954,081 229: 2,928,462	2,944,931 180: 2,934,468 181: 2,935,437	4: 2,947,359 2,960,165 9: Re.24,873
2,925,853 2,927,629 2,927,630	2,928,458 2,931,426 2,934,133	2,959,214 2,961,040 5: 2,964,101	2,948,355 128: 2,931,750 2,948,355	2,952,316 2,940,520 2,952,314	2,943,971 2,949,398 182: 2,939,814	2,927,637 2,947,360 2,953,204
2,929,440 2,932,345 2,932,346	2,935,124 2,936,027 2,936,821	2,960,158 7: 2,920,689 2,923,349	2,953,196 129: 2,957,518 130: 2,959,219	2,946,355 344: 2,952,316 347: 2,920,696	2,949,399 198: 2,951,007 2,963,397	2,954,825 11: 2,924,276
2,936,819 2,937,693 2,939,515	2,936,823 2,936,824 2,936,825	2,924,269 2,944,596 2,952,307	2,962,093 131: 2,920,693 2,939,523	2,946,378 354: 2,925,862 2,927,655	2,955,975 199: 2,950,224 2,955,975	2,931,437 2,946,382 2,953,205
2,940,509 2,941,581 2,942,650	2,936,826 2,946,374 2,949,156	2,963,081 10: 2,963,081 11: 2,931,429	2,963,081 132: 2,962,094 136: 2,950,755	2,937,700 2,942,660 2,943,676	2,950,225 206: 2,960,428 212: 2,951,784	2,958,380 2,962,695 12: 2,941,594
2,943,670 2,944,594 2,944,595	2,952,304 2,952,305 2,953,195	2,932,347 2,941,585 2,965,163	2,962,094 138: 2,949,959 141: 2,939,524	2,943,676 2,953,200 2,966,213	2,963,398 219: Re.24,860 2,961,368	2,952,318 20: 2,955,653 21: 2,933,679
2,945,533 2,948,330 2,948,331	2,954,074 2,953,195 2,954,075	2,942,655 2,931,431 2,937,697	2,966,214 <b>Class 159</b> 1: 2,954,821	2,966,214 381: 2,923,351 404: 2,953,201	2,961,044 237: 2,920,697 2,953,202	2,943,680 22: 2,959,223 29: 2,965,171
2,949,955 2,951,529 2,953,192	2,962,088 181: 2,940,512 182: Re.24,805	2,939,521 2,943,673 2,952,308	2,953,197 129: 2,957,518 130: 2,959,219	2,966,215 <b>Class 161</b> 7: 2,921,629	2,953,202 2,963,086 2,966,215	33: 2,924,277 2,946,383 35: 2,952,319
2,953,193 2,953,194 2,954,072	2,966,207 2,921,625 2,922,466	2,952,309 2,954,080 2,964,102	2,962,092 129: 2,957,518 130: 2,959,219	<b>Class 162</b> 6: 2,959,513 7: 2,960,427	2,963,397 199: 2,950,224 2,955,975	2,963,088 38: 2,941,595 2,941,596
2,954,072 2,954,819 2,958,370	2,937,695 2,948,333 2,948,334	2,963,082 2,964,103 2,965,164	2,962,093 129: 2,957,518 130: 2,959,219	2,963,398 354: 2,925,862 2,927,655	2,955,975 201: 2,950,225 206: 2,960,428	2,941,597 2,943,681 41: 2,929,451
2,958,371 2,958,372 2,961,035	2,948,334 2,949,157 2,954,076	2,966,209 33: 2,940,515 36: 2,922,469	2,962,094 132: 2,962,094 136: 2,950,755	2,927,656 368: 2,928,463 2,943,676	2,955,975 224: 2,924,550 228: 2,923,654	2,943,682 42: 2,927,638 2,927,639
2,961,036 2,964,096 2,965,157	184: 2,949,956 2,954,820 185: 2,965,160	2,923,349 2,924,269 2,944,596	2,962,095 138: 2,949,959 141: 2,939,524	2,943,676 2,963,398 2,966,213	2,932,604 233: 2,950,757 236: 2,948,336	2,933,135 2,933,136 2,933,137
2,965,158 107: 2,947,347 2,952,303	187: 2,934,134 2,937,696 2,942,653	2,949,957 2,960,154 2,960,155	2,966,214 132: 2,962,094 136: 2,950,755	2,966,214 381: 2,923,351 404: 2,953,201	2,943,681 237: 2,920,697 2,953,202	2,933,138 2,933,139 2,933,140
2,963,078 112: 2,943,671 2,966,203	2,942,654 188: 2,921,626 2,933,574	2,963,082 36.3: 2,920,690 2,934,138	2,966,215 138: 2,949,959 141: 2,939,524	<b>Class 160</b> 8: 2,946,377 19: 2,958,378	2,953,202 236: 2,948,336 237: 2,920,697	2,933,141 301: 2,960,162 304: 2,942,661
2,966,203 114: 2,936,025 116: 2,925,122	2,951,531 2,954,077 189: 2,919,748	2,940,516 2,936,028 2,939,527	2,966,216 132: 2,962,094 136: 2,950,755	2,966,216 381: 2,923,351 404: 2,953,201	2,953,202 2,963,086 2,966,215	2,933,142 308: 2,919,751 313: 2,929,448
2,925,854 119: 2,964,097 123: 2,922,465	2,954,077 2,934,135 2,939,519	2,940,516 2,936,028 2,939,527	2,966,217 132: 2,962,094 136: 2,950,755	2,966,217 381: 2,923,351 404: 2,953,201	2,953,202 2,963,086 2,966,215	2,933,143 308: 2,919,751 313: 2,929,448
2,951,530 2,956,617 2,959,211	2,947,353 2,963,080 2,964,100	2,940,516 2,936,028 2,939,527	2,966,218 132: 2,962,094 136: 2,950,755	2,966,218 381: 2,923,351 404: 2,953,201	2,953,202 2,963,086 2,966,215	2,933,144 308: 2,919,751 313: 2,929,448
2,963,078 2,964,098 2,964,099	2,963,080 2,963,082 2,964,100	2,940,516 2,936,028 2,939,527	2,966,219 132: 2,962,094 136: 2,950,755	2,966,219 381: 2,923,351 404: 2,953,201	2,953,202 2,963,086 2,966,215	2,933,145 308: 2,919,751 313: 2,929,448
2,964,098 124: 2,936,820 2,939,516	2,963,082 2,964,100 2,964,101	2,940,516 2,936,028 2,939,527	2,966,220 132: 2,962,094 136: 2,950,755	2,966,220 381: 2,923,351 404: 2,953,201	2,953,202 2,963,086 2,966,215	2,933,146 308: 2,919,751 313: 2,929,448
2,949,154	2,964,101 2,964,102 2,964,103	2,940,516 2,936,028 2,939,527	2,966,221 132: 2,962,094 136: 2,950,755	2,966,221 381: 2,923,351 404: 2,953,201	2,953,202 2,963,086 2,966,215	2,933,147 308: 2,919,751 313: 2,929,448



## Class 166—Con.

- 51: 2, 927, 640  
2, 942, 664  
55: 2, 934, 146  
2, 939, 531  
2, 940, 522  
55. 8: 2, 940, 523  
60: 2, 932, 352  
2, 954, 826  
63: 2, 934, 147  
2, 939, 532  
2, 956, 624  
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- Class 172
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224: 2,938,587	17: 2,935,548	77: 2,925,460	176: 2,934,595	5.4: 2,928,894	6.6: 2,921,125	7.3: 2,950,344
226: 2,929,456	2,957,938	2,939,906	178: 2,924,643	2,929,866	2,921,126	2,951,117
2,935,143	18: 2,924,636	2,943,139	2,928,893	2,929,867	2,921,976	2,951,900
227: 2,943,689	2,962,541	2,958,721	179: 2,924,644	2,930,842	2,922,840	2,953,640
239: 2,947,367	19: 2,932,682	2,963,536	200: 2,947,802	2,930,843	2,924,653	2,956,118
240: 2,921,640	21: 2,937,224	2,966,541	209: 2,936,351	2,931,856	2,925,463	7.4: 2,928,895
2,938,588	23: 2,957,038	2,928,212	211: 2,933,553	2,932,089	2,925,464	2,944,109
245: 2,919,755	24: 2,922,834	2,938,941		2,933,554	2,927,154	7.5: 2,924,655
248: 2,952,323	27: 2,927,952	2,947,800		2,934,598	2,932,690	2,925,466
256: 2,957,530	28: 2,934,586	84: 2,930,836		2,934,599	2,933,555	2,927,157
264: 2,947,368	2,939,903	2,932,685		2,934,600	2,933,556	2,927,959
265: 2,935,144	2,952,728	2,937,227		2,935,555	2,936,333	2,938,951
266: 2,944,613	30: 2,930,832	2,938,068		2,935,556	2,937,233	2,942,064
269: 2,947,369	2,945,912	2,951,109		2,936,332	2,938,948	2,943,147
273: 2,927,652	31: 2,924,637	2,958,722		2,937,231	2,941,032	2,947,811
2,928,481	33: 2,957,039	2,958,723		2,938,071	2,942,061	2,947,812
2,941,606	34: 2,930,833	2,965,699		2,938,072	2,944,107	2,948,776
2,962,104	2,956,102	86: 2,945,084		2,938,073	2,944,108	2,950,345
274: 2,959,233	35: 2,924,638	87: 2,925,461		2,938,074	2,945,088	2,950,346
275: 2,935,145	2,925,457	2,925,461		2,938,945	2,947,808	2,952,738
278: 2,932,355	2,935,549	88: 2,923,761		2,938,946	2,947,809	2,954,429
289: 2,966,219	2,951,108	2,932,686		2,941,031	2,950,341	2,954,430
508: 2,925,871	2,961,477	2,937,228		2,942,060	2,955,157	2,957,043
304: 2,928,482	2,961,478	2,955,143		2,943,143	2,956,114	2,957,942
305: 2,961,054	2,963,534	2,958,724		2,943,144	2,956,115	2,966,545
307: 2,966,220	36: 2,960,561	2,966,542		2,944,105	2,959,636	2,924,656
316: 2,944,614	2,963,535	90: 2,935,551		2,944,106	2,960,567	2,951,118
317: 2,935,146	40: 2,932,760	92: 2,923,763		2,945,086	2,960,568	2,957,044
2,957,531	2,937,225	2,929,864		2,945,087	2,962,548	7.85: 2,948,891
321: 2,956,630	2,937,226	2,932,688		2,946,845	2,965,708	15: 2,947,813
333: 2,961,055	2,943,135	2,934,596		2,946,846	6.7: 2,931,858	17: 2,923,769
354: 2,953,210	2,950,338	2,934,597		2,947,806	2,935,558	2,924,657
370: 2,954,832	2,953,624	2,938,944		2,947,807	2,947,810	2,929,872
375: 2,931,445	2,956,103	2,946,843		2,948,774	2,963,642	2,938,952
2,947,370	2,959,632	2,946,844		2,948,775	2,921,127	2,943,148
2,957,532	41: 2,927,147	2,952,731		2,949,499	2,922,841	2,954,431
376: 2,943,690	2,934,587	2,952,732		2,950,349	2,922,842	2,958,726
2,945,543	43: 2,921,112	2,952,733		2,951,113	2,922,843	2,963,645
378: 2,928,483	2,929,861	2,953,631		2,951,114	2,922,844	17.5: 2,921,978
380: 2,936,032	2,961,479	2,954,422		2,951,115	2,925,465	2,965,713
396: 2,939,559	44: 2,956,104	2,955,151		2,951,116	2,928,868	18: 2,925,467
407: 2,960,170	45: 2,927,148	2,963,541		2,951,895	2,929,869	2,935,561
413: 2,938,589	2,945,081	102: 2,938,943		2,951,896	2,934,601	2,959,637
430: 2,929,457	47: 2,966,539	2,950,339		2,951,897	2,935,559	2,961,487
441: 2,923,393	48: 2,932,683	2,963,627		2,952,734	2,938,949	2,965,714
2,960,171	2,954,419	2,954,421		4.1: 2,944,104	2,939,909	19: 2,923,770
446: 2,929,458	2,957,040	105: 2,922,835		5: 2,953,632	2,946,848	20: 2,965,715
448: 2,925,872	2,961,480	107: 2,948,772		2,953,635	2,951,898	22: 2,944,658
2,960,172	50: 2,959,633	108: 2,927,954		2,953,636	2,951,899	2,949,501
450: 2,935,147	2,934,588	111: 2,931,852		2,954,424	2,954,427	2,951,120
2,949,970	50.5: 2,932,684	113: 2,939,907		2,954,425	2,955,158	23: 2,926,215
456: 2,944,615	2,934,589	115: 2,930,837		2,954,426	2,956,117	2,926,216
2,958,383	50.6: 2,945,082	117: 2,932,687		2,955,152	2,957,941	2,927,960
464: 2,931,446	50.62: 2,947,799	2,951,111		2,955,153	2,958,725	2,930,847
487: 2,964,114	2,958,720	2,959,638		2,956,114	2,963,543	2,935,562
488: 2,963,098	50.64: 2,965,698	2,963,538		2,956,115	2,963,544	2,938,077
491: 2,958,384	52: 2,930,834	2,964,587		2,956,116	2,965,709	2,943,149
514: 2,942,675	2,941,024	120: 2,930,838		2,956,117	2,965,710	2,944,110
523: 2,951,547	2,943,136	121: 2,937,230		2,957,940	2,959,635	2,950,347
534: 2,960,173	2,948,770	135: 2,951,112		2,960,562	2,960,563	2,951,121
538: 2,950,770	53: 2,934,590	2,955,149		2,960,564	2,961,484	2,954,432
642: 2,954,086	2,936,329	136: 2,946,840		2,962,545	2,962,546	2,958,727
549: 2,928,484	2,946,838	138: 2,927,955		2,962,546	2,963,691	2,959,638
550: 2,952,324	59: 2,924,639	2,927,956		2,964,588	2,933,657	2,963,547
568: 2,930,337	2,956,105	2,935,552		2,964,589	2,937,234	2,941,033
572: 2,931,447	2,956,106	2,956,109		2,965,704	2,964,589	2,946,849
581: 2,955,664	60: 2,953,625	2,963,539		2,965,705	2,965,706	2,954,428
596: 2,952,325	61: 2,921,114	139: 2,946,841		2,966,544	2,966,544	2,957,942
605: 2,947,371	2,925,458	141: 2,947,801		2,967,073	2,967,073	2,962,549
621: 2,930,438	2,943,137	142: 2,953,628		2,967,074	2,967,074	2,920,137
624: 2,947,372	63: 2,933,549	143: 2,953,629		2,967,075	2,967,075	2,921,128
635: 2,954,087	65: 2,927,144	144: 2,930,839		2,967,076	2,967,076	2,938,076
640: 2,934,155	2,941,025	145: 2,934,593		2,967,077	2,967,077	2,939,910
655: 2,937,705	66: 2,943,138	146: 2,934,594		2,967,078	2,967,078	2,945,089
656: 2,922,480	67: 2,934,591	147: 2,936,330		2,967,079	2,967,079	2,949,500
657: 2,943,692	68: 2,955,147	151: 2,938,070		2,967,080	2,967,080	2,953,639
678: 2,923,364	68.5: 2,938,939	2,945,014		2,967,081	2,967,081	2,955,159
2,959,234	2,945,083	152: 2,924,642		2,967,082	2,967,082	2,960,569
699: 2,925,132	69: 2,927,953	2,933,551		2,967,083	2,967,083	2,964,590
710: 2,935,148	2,939,904	2,933,552		2,967,084	2,967,084	2,965,711
2,941,607	70: 2,938,067	2,944,102		2,967,085	2,967,085	2,965,712
736: 2,950,771	71: 2,924,640	2,957,041		2,967,086	2,967,086	2,921,129
2,953,211	2,935,550	2,962,543		2,967,087	2,967,087	2,921,130
754: 2,948,346	2,939,905	2,922,836		2,967,088	2,967,088	2,921,131
771: 2,934,156	2,941,026	2,930,840		2,967,089	2,967,089	2,924,654
	2,951,892	2,945,085		2,967,090	2,967,090	2,927,155
	2,952,729	2,946,842		2,967,091	2,967,091	2,927,156
	2,956,107	2,948,773		2,967,092	2,967,092	2,933,558
	2,931,851	2,952,730		2,967,093	2,967,093	2,934,602
	2,941,027	2,953,630		2,967,094	2,967,094	2,935,560
	73: 2,924,641	2,963,540		2,967,095	2,967,095	2,936,335
	2,925,459	157: 2,926,213		2,967,096	2,967,096	2,937,235
	2,945,913	2,935,553		2,967,097	2,967,097	2,938,950
	74: 2,927,150	2,935,554		2,967,098	2,967,098	2,942,062
	75: 2,929,862	158: 2,935,555		2,967,099	2,967,099	2,942,063
	2,941,028	159: 2,955,150		2,967,100	2,967,100	2,945,090
	2,954,420	164: 2,965,701		2,967,101	2,967,101	2,950,342
	76: 2,930,835	167: 2,930,841		2,967,102	2,967,102	2,950,343
	2,933,550	170: 2,931,853		2,967,103	2,967,103	
	2,938,940	173: 2,941,029		2,967,104	2,967,104	
	2,962,542	174: 2,921,115		2,967,105	2,967,105	
				2,967,106	2,967,106	
				2,967,107	2,967,107	
				2,967,108	2,967,108	
				2,967,109	2,967,109	
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				2,967,111	2,967,111	
				2,967,112	2,967,112	
				2,967,113	2,967,113	
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				2,967,115	2,967,115	
				2,967,116	2,967,116	
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				2,967,118	2,967,118	
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				2,967,134	2,967,134	
				2,967,135	2,967,135	
				2,967,136	2,967,136	
				2,967,137	2,967,137	
				2,967,138	2,967,138	
				2,967,139	2,967,139	
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				2,967,141	2,967,141	
				2,967,142	2,967,142	
				2,967,143	2,967,143	
				2,967,144	2,	



Class 178—Con.

53.1:

2,945,092

2,945,093

2,961,488

61:

2,958,728

66:

2,927,159

2,929,874

2,939,913

2,947,814

67:

2,939,914

69:

2,928,897

2,929,875

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2,945,915

2,947,815

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2,956,124

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69.5:

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71:

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79:

2,953,642

81:

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84:

2,951,122

88:

2,929,876

2,954,436

92:

2,931,861

2,951,902

115:

2,935,564

2,954,437

Class 179

1:

2,920,138

2,920,139

2,920,140

2,921,134

2,921,135

2,922,846

2,924,660

2,924,661

2,924,662

2,927,963

2,929,877

2,929,878

2,930,850

2,931,862

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2,958,730

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2,966,550

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2,921,979

5:

2,923,772

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6:

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2,966,552

6.3:

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6.3:

2,955,162

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6.5:

2,921,980

7:

2,942,067

7.1:

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8:

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15:

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2,920,143

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2,952,749

188:

2,937,244

Class 180

1:

2,931,448

2,938,590

2,961,056

2,964,118

5:

2,925,873

6.2:

2,936,033

2,941,608

2,961,057

6.26:

2,925,133

6.3:

2,949,971

6.48:

2,933,142

2,940,532

2,941,609

2,957,533

6.66:

2,925,134

2,936,840

2,950,772

6.7:

2,966,222

8:

2,929,459

2,931,449

2,942,676

9.2:

2,954,833

9.5:

2,948,347

9.54:

2,936,841

11:

2,919,756

2,923,365

12:

2,925,135

2,940,533

13:

2,929,608

2,950,773

2,956,631

2,959,235

14:

2,922,481

2,931,450

2,931,451

2,933,143

2,955,665

2,959,236

14.5:

2,926,734

19:

2,924,287

2,937,706

2,941,610

2,944,616

2,949,972

2,955,666

2,957,534

2,962,106

20:

2,954,088

21:

2,934,157

22:

2,919,757

2,928,485

2,952,326

23:

2,966,223

25:

2,919,758

26:

2,942,677

41:

2,928,486

2,936,034

42:

2,926,735

2,927,653

2,928,487

2,944,617

43:

2,920,709

2,924,288

44:

2,936,035

2,953,212

2,959,237

45:

2,922,482

2,941,611

49:

2,925,136

2,927,654

2,930,439

2,936,036

51:

2,941,612

53:

2,919,759

2,926,736

2,940,534

54:

2,926,737

2,938,591

2,944,618

2,958,385

2,963,105

55:

2,965,185

64:

2,925,874

2,929,461

2,935,149

2,965,186

65:

2,941,613

2,958,386

66:

2,954,834

67:

2,920,710

68:

2,962,107

68.5:

2,925,137

2,947,373

2,947,374

69:

2,931,452

2,936,842

2,952,327

2,952,328

2,965,187

69.1:

2,931,453

70:

2,926,738

2,939,540

2,953,213

2,963,103

2,963,106

73:

2,919,760

2,932,356

2,942,678

2,950,774

2,954,835

2,956,632

74:

2,954,836

75:

2,947,375

77:

2,920,711

79:

2,944,619

79.2:

2,922,712

2,925,873

2,934,153

2,935,150

2,936,037

2,936,038

2,936,039

2,940,535

2,945,544

2,945,545

2,955,667

2,957,535

2,962,108

2,964,119

82:

2,927,655

2,928,488

2,931,454

2,934,159

2,936,843

2,941,614

2,942,679

2,945,546

2,956,633

2,957,536

2,959,238

2,960,574

2,963,107

82.1:

2,921,641

2,965,188

2,965,189

2,966,224

83:

2,920,713

2,966,225

85:

2,939,162

89:

2,939,541

2,943,693

2,947,376

2,951,458

2,959,239

90:

2,921,642

Class 181

.5:

2,922,483

2,922,484

2,923,366

2,923,367

2,923,368

2,924,289

2,925,138

2,926,739

2,927,656

2,928,489

2,928,490

2,931,455

2,936,036

2,938,592

2,939,542

2,940,533

2,941,615

2,943,694

2,944,621

2,946,393

2,947,377

2,949,973

2,953,214

2,954,090

2,956,634

2,956,635

2,959,240

2,959,241

2,960,175

2,960,176

23:

2,934,160

2,946,394

24:

2,933,145

31:

2,923,369

2,926,740

2,927,657



31: 2,949,163 2,955,669 2,956,636 32: 2,923,371 2,924,290 2,926,741 2,960,177 2,962,109 33: 2,923,372 2,926,742 2,933,146 2,933,147 2,935,151 2,935,152 2,936,040 2,939,543 2,942,681 2,944,622 2,949,975 2,954,091 2,954,838 2,959,242 35: 2,928,491 2,942,682 2,956,637 2,961,058 2,965,190 36: 2,936,844 2,949,164 2,950,775 2,960,178 2,962,110 2,964,120 39: 2,933,148 40: 2,936,845 42: 2,923,462 2,937,707 2,937,708 2,942,683 2,950,776 2,958,387 2,958,398 43: 2,944,623 2,955,670 46: 2,938,593 47: 2,926,743 2,936,041 48: 2,955,671 49: 2,955,672 50: 2,943,695 2,964,121 51: 2,944,624 53: 2,934,161 54: 2,922,485 2,930,440 2,940,537 2,949,165 2,950,777 2,958,389 55: 2,926,744 56: 2,926,745 2,954,839 2,957,537 2,961,059 57: 2,919,761 2,922,486 2,958,390 2,960,179 58: 2,942,684 59: 2,959,243 60: 2,935,153 2,936,846 63: 2,940,538 64: 2,942,685 72: 2,946,395 2,966,226	63: 2,959,244 2,965,191 66: 2,951,549 2,965,192 2,966,227 77: 2,945,548 78: 2,933,149 80: 2,931,456 88: 2,921,643 2,956,638 90: 2,957,538 91: 2,925,876 94: 2,957,539 95: 2,946,398 100: 2,965,193 102: 2,923,373 2,965,194 105: 2,947,378 106: 2,921,644 2,944,625 108: 2,925,877 112: 2,919,763 113: 2,957,540 115: 2,941,616 2,957,541 118: 2,962,112 120: 2,930,442 2,934,162 2,941,617 2,945,549 121: 2,948,349 2,948,350 129: 2,938,595 2,954,093 132: 2,923,374 137: 2,945,550 141: 2,945,551 140: 2,966,228 151: 2,959,245 155: 2,925,140 156: 2,924,291 157: 2,921,645 176: 2,960,181 180: 2,964,122 181: 2,961,061 2,964,123 186: 2,938,596 2,941,618 194: 2,951,550 196: 2,925,141 2,943,696 200: 2,960,182 204: 2,936,849 206: 2,965,195 208: 2,933,150 211: 2,957,543 214: 2,934,163 219: 2,966,229 230: 2,962,113	4.3: 2,953,215 4.4: 2,965,196 4.5: 2,951,552 4.6: 2,925,880 2,928,495 4.7: 2,944,627 5: 2,963,109 6: 2,942,688 7: 2,924,294 2,925,142 2,925,881 2,925,882 2,926,749 2,931,457 2,931,458 2,932,359 2,933,151 2,935,155 2,936,040 2,936,850 2,936,851 2,937,709 2,937,710 2,937,711 2,943,697 2,959,248 2,948,353 2,949,167 2,949,168 2,956,640 2,958,392 2,958,393 2,959,245 2,962,115 2,963,110 2,964,125 2,964,126 8: 2,924,295 9: 2,957,545 12: 2,966,231 14: 2,945,552 2,953,216 15: 2,947,381 2,953,217 19: 2,927,659 2,954,095 2,962,116 24: 2,922,489 2,925,883 2,932,360 2,945,553 25: 2,929,463 2,931,459 2,937,712 2,940,540 26: 2,932,361 32: 2,925,143 2,944,628 2,947,382 2,949,169 34: 2,936,852 2,944,629 2,952,331 2,960,184 2,966,232 37: 2,930,446 2,933,152 2,934,164 2,942,690 2,943,698 2,945,554 2,962,117 2,962,118 40: 2,966,233 41: 2,920,716 2,958,394 42: 2,944,630 2,962,119 43: 2,936,853 2,952,332 44: 2,920,717 2,933,153 2,934,165 2,935,156 2,963,111 2,965,197 2,966,234 45: 2,964,127 48: 2,934,166 49: 2,935,157 2,945,555 2,945,556 51: 2,920,718 2,928,496 2,932,362 2,936,854 2,945,557 2,945,558 2,959,247 2,961,063 2,964,128	52: 2,925,144 2,938,597 2,949,976 54: 2,964,129 58: 2,951,553 60: 2,948,354 61: 2,938,598 2,962,120 62: 2,928,497 2,944,631 2,963,112 67: 2,935,158 2,942,691 69: 2,929,464 70: 2,931,460 71: 2,919,765 2,923,376 2,936,855 2,941,620 2,943,699 2,943,700 2,945,559 2,952,333 2,962,121 73: 2,954,096 2,959,248 77: 2,944,632 2,949,977 2,954,841 79: 2,924,296 2,932,363 2,954,842 2,962,122 80: 2,921,646 2,925,884 2,954,097 2,961,064 81: 2,929,465 85: 2,923,377 89: 2,937,713 92: 2,936,043 2,941,621 93: 2,955,674 2,957,546 94: 2,954,843 110: 2,939,545 2,946,401 2,956,641 111: 2,921,647 114.2: 2,919,766 2,923,378 2,930,447 2,934,167 2,940,402 2,964,130 114.6: 2,961,065 115: 2,921,648 2,926,750 2,926,751 2,926,752 2,928,498 2,932,364 2,937,714 2,943,701 2,943,702 2,943,703 2,946,403 2,951,554 2,952,334 2,957,547 2,962,123 2,964,131 2,965,235 2,965,236 119: 2,925,145 2,940,541 2,943,704 2,951,555 120: 2,922,490 2,938,599 2,953,218 121: 2,926,754 2,947,383 122: 2,933,154	6: 2,929,467 2,929,468 2,934,168 2,936,857 2,937,715 2,939,547 2,939,548 2,948,355 2,955,675 2,956,642 2,963,113 2,964,132 7: 2,937,716 2,954,844 2,959,249 2,960,185 2,961,066 11: 2,930,448 15: 2,920,720 18: 2,934,169 27: 2,938,600 2,951,556 37: 2,954,845 2,959,250 45: 2,925,147 55: 2,919,769 2,921,649 2,925,148 2,943,705 2,945,560 2,954,846 81: 2,965,198 88: 2,928,500 2,939,549 102: 2,951,557 103: 2,938,601 2,941,622 2,946,405 105: 2,929,469 106: 2,938,602	29: 2,936,858 2,936,859 2,938,603 2,938,604 2,938,605 2,940,543 2,941,624 2,944,634 2,960,187 2,963,114 42: 2,941,625 48: 2,932,365 2,953,219 52: 2,960,188 59: 2,936,046 76: 2,925,150 85: 2,925,151 2,943,708 2,944,635 89: 2,945,561 95: 2,936,047	72: 2,955,681 2,955,682 2,955,683 2,958,399 2,961,072 2,964,138 Re.24,870 2,921,650 2,921,651 2,924,301 2,924,302 2,926,757 2,934,173 2,934,174 2,937,722 2,937,723 2,938,609 2,942,695 2,944,637 2,946,408 2,948,356 2,951,560 2,951,561 2,953,221 2,957,552 2,957,553 2,959,253 2,963,116 74: 2,940,550 2,962,126 77: 2,928,505 2,949,979 78: Re.24,886 2,919,771 2,925,889 2,920,723 2,924,303 2,928,506 2,930,453 2,932,366 2,942,696 2,945,564 2,955,684 2,956,646 2,961,070 2,961,073 2,961,074 2,965,199 2,966,238 2,966,239 79.5: 2,930,454 2,935,163 2,938,610 2,961,075 82.2: 2,943,710 82.7: 2,941,627 2,941,628 82.84: 2,962,127 2,962,128 83: 2,931,464 85: 2,950,784 86: 2,928,507 2,963,117 87: 2,930,455 2,948,357 2,959,252 2,964,139 88: 2,924,304 2,924,305 2,937,724 2,941,629 2,947,386 2,950,785 2,958,400 90: 2,953,222 2,956,647 2,963,118 2,965,200 92: 2,933,158 93: 2,922,496 94: 2,936,860 2,960,192 96: 2,922,497 2,929,471 2,934,175 2,944,638 2,957,554 97: 2,944,639 2,948,358 2,954,851 100: 2,943,711 2,952,337 2,953,223 106: 2,922,498 2,931,465 2,933,159 2,940,551 2,948,359 2,949,171 2,963,119 2,967,721 2,968,607 2,968,608 2,940,548 2,940,549
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## Class 188—Con.

112: 2,960,193  
2,960,194  
129: 2,940,552  
134: 2,946,409  
151: 2,965,201  
152: 2,922,499  
2,924,306  
2,925,890  
2,925,891  
2,928,508  
2,928,509  
2,930,456  
2,933,160  
2,935,164  
2,947,387  
2,952,338  
2,964,141  
153: 2,926,758  
2,940,553  
2,940,554  
2,942,697  
2,963,120  
159: 2,926,759  
166: 2,923,380  
171: 2,925,153  
2,930,457  
2,939,551  
2,949,172  
2,966,240  
176: 2,942,698  
181: 2,933,161  
184: 2,949,980  
187: 2,954,852  
188: 2,931,466  
195: 2,939,552  
196: 2,920,724  
2,924,307  
2,937,725  
2,939,553  
2,949,173  
198: 2,925,892  
2,958,401  
200: 2,922,500  
204: 2,941,630  
207: 2,944,640  
209: 2,921,653  
210: 2,954,105  
218: 2,921,654  
2,926,760  
2,933,162  
2,941,631  
2,947,388  
2,952,339  
219.6: 2,946,410  
220.1: 2,933,163  
228.6: 2,946,411  
229.1: 2,947,389  
234: 2,943,712  
2,948,360  
2,954,853  
243: 2,933,164  
250: 2,923,510  
2,964,142  
251: 2,943,713  
2,948,361  
2,959,254  
264: 2,924,308  
2,928,511  
2,934,176  
2,934,177  
2,934,178  
2,940,555  
2,940,556  
2,942,699  
2,943,714  
2,943,715  
2,945,565  
2,945,566  
2,945,567  
2,946,412  
2,951,562  
2,951,563  
2,954,854  
2,955,685  
2,956,649  
2,956,650  
2,959,255  
2,966,241

## Class 189

1: 2,943,716  
2,943,717  
2,950,786  
2,959,256  
2,964,143  
1.5: 2,964,144  
2: 2,927,665  
2,941,632  
2,948,362

2: 2,958,402  
2,963,121  
2,963,122  
3: 2,930,458  
2,955,686  
7: 2,961,076  
11: 2,920,725  
2,922,501  
2,937,726  
2,963,123  
14: 2,923,381  
2,942,700  
2,948,363  
2,952,340  
15: 2,963,124  
16: 2,924,309  
2,941,633  
2,941,634  
23: 2,932,367  
2,937,727  
2,950,787  
30.5: 2,964,145  
31.4: 2,933,165  
31.5: 2,923,382  
2,929,472  
2,962,129  
33: 2,963,125  
34: 2,923,383  
2,923,384  
2,924,310  
2,925,154  
2,926,761  
2,929,473  
2,931,467  
2,931,468  
2,931,469  
2,931,470  
2,933,166  
2,934,179  
2,934,180  
2,934,181  
2,939,554  
2,940,557  
2,941,635  
2,942,701  
2,943,718  
2,944,641  
2,945,568  
2,946,413  
2,948,364  
2,949,981  
2,950,788  
2,950,789  
2,952,341  
2,955,687  
2,956,651  
2,956,652  
2,956,653  
2,957,555  
2,958,403  
2,959,257  
2,960,195  
2,960,196  
2,960,197  
2,962,130  
2,962,131  
2,963,126  
2,963,127  
2,963,128  
2,964,146  
2,964,147  
35: 2,923,385  
2,936,049  
2,936,861  
2,953,224  
36: 2,921,655  
2,923,386  
2,924,311  
2,924,312  
2,928,512  
2,929,474  
2,931,471  
2,932,368  
2,932,369  
2,933,167  
2,934,182  
2,934,183  
2,934,184  
2,936,050  
2,940,558  
2,944,642  
2,946,414  
2,947,390  
2,948,365  
2,952,342  
2,952,343  
2,952,344  
2,955,688  
2,959,258  
2,960,198  
2,961,077

36: 2,962,133  
2,962,134  
2,962,135  
2,963,129  
2,963,130  
36.5: 2,962,136  
37: 2,925,893  
2,936,862  
2,942,702  
2,949,982  
2,951,564  
2,966,242  
38: 2,949,983  
2,963,131  
39: 2,936,051  
42: 2,949,984  
43: 2,936,863  
45: 2,954,106  
46: 2,925,894  
2,948,366  
2,951,565  
2,951,566  
48: 2,925,895  
63: 2,962,137  
75: 2,949,985  
76: 2,947,391  
77: 2,950,790  
82: 2,955,689  
85: 2,927,666  
2,957,556  
86: 2,946,415  
2,948,367  
88: 2,921,656  
2,930,459  
2,942,703  
2,942,704  
2,944,643  
2,948,365  
2,949,986  
2,953,225  
2,955,690  
2,959,259  
2,963,132  
2,963,133  
2,964,148  
2,941,636  
92: 2,941,637  
2,958,404  
2,966,243

## Class 190

9: 2,950,791  
16: 2,935,165  
49: 2,949,987  
2,950,792  
2,950,793  
2,964,149  
51: 2,937,728  
55: 2,941,637  
57: 2,962,138

## Class 191

1: 2,958,742  
12.4: 2,921,994  
2,945,921  
23: 2,958,743  
2,961,499  
40: 2,933,567  
44.1: 2,924,674  
45: 2,921,146  
2,962,563  
66: 2,922,852  
68: 2,935,576

## Class 192

.02: 2,925,155  
2,935,166  
2,936,052  
2,941,638  
2,944,644  
2,945,569  
2,964,151  
.034: 2,922,503  
.052: 2,952,345  
2,932,369  
.075: 2,940,559  
.08: 2,922,502  
2,949,174  
.084: 2,923,387  
2,933,163  
.09: 2,920,726  
2,924,313  
.092: 2,936,864  
2,952,346  
.094: 2,927,667  
.096: 2,919,772  
2,936,865  
2,949,988  
.098: 2,925,156  
2,944,645  
2,952,347  
2,960,199

2: 2,939,555  
2,942,705  
2,949,989  
3: 2,919,773  
2,920,727  
2,927,668  
2,927,669  
2,929,475  
2,935,167  
2,936,866  
2,936,867  
2,938,611  
2,939,556  
2,940,560  
2,940,561  
2,944,646  
2,947,392  
2,948,369  
2,950,794  
2,951,567  
2,958,405  
2,959,260  
2,966,244  
3.2: 2,920,728  
2,931,472  
2,942,706  
2,953,226  
2,957,557  
2,965,202  
3.5: 2,931,473  
2,934,185  
2,936,868  
2,939,557  
2,940,562  
2,943,719  
2,955,691  
2,957,558  
2,964,150  
3.6: 2,939,558  
2,945,570  
2,945,571  
2,948,370  
2,959,262  
2,960,200  
2,960,201  
2,961,078  
5: 2,940,563  
2,949,990  
6: 2,956,654  
2,957,559  
2,957,560  
8: 2,925,157  
2,934,188  
2,940,564  
2,945,572  
2,946,417  
11: 2,957,561  
12: 2,927,670  
2,946,418  
2,948,371  
13: 2,926,763  
2,941,639  
15: 2,942,707  
16: 2,954,107  
18: 2,924,905  
2,920,729  
2,920,730  
2,924,314  
2,930,460  
2,932,372  
2,933,169  
2,941,640  
2,942,708  
2,944,647  
2,947,393  
2,947,394  
2,948,372  
2,957,563  
2,962,139  
2,965,203  
2,966,245  
21.5: 2,921,657  
2,921,658  
2,924,315  
2,925,896  
2,926,764  
2,933,170  
2,939,559  
25: 2,924,316  
28: 2,929,476  
2,942,709  
30: 2,961,079  
30.5: 2,940,565  
2,940,566  
35: 2,933,171

41: 2,928,514  
2,938,612  
43.2: 2,962,140  
45.1: 2,923,388  
2,927,671  
2,930,461  
2,940,567  
2,940,568  
2,954,855  
2,956,655  
2,966,246  
45.2: 2,947,395  
48: 2,924,317  
2,926,765  
2,928,515  
2,935,168  
2,940,569  
2,965,204  
53: 2,919,774  
2,923,380  
2,930,462  
2,932,373  
2,940,570  
2,941,641  
2,947,396  
2,950,795  
2,957,554  
2,962,141  
54: 2,954,856  
56: 2,927,672  
2,929,477  
2,938,613  
2,940,571  
2,948,373  
2,963,134  
2,964,152  
2,966,247  
57: 2,963,135  
58: 2,939,560  
2,954,857  
2,955,205  
66: 2,931,474  
67: 2,920,731  
68: 2,927,673  
69: 2,925,897  
2,927,673  
2,954,858  
74: 2,956,656  
81: 2,930,463  
2,951,568  
2,954,108  
82: 2,925,158  
2,950,796  
84: 2,919,775  
2,919,776  
2,919,777  
2,923,390  
2,936,053  
2,936,054  
2,937,729  
2,939,561  
2,942,710  
2,945,573  
2,946,419  
2,951,569  
2,953,227  
2,954,859  
2,955,692  
2,956,657  
2,956,658  
2,957,562  
2,962,142  
2,962,143  
2,962,144  
2,962,145  
85: 2,925,159  
2,935,169  
2,945,574  
2,956,659  
2,960,202  
86: 2,919,778  
2,962,146  
87: 2,920,732  
2,929,478  
2,933,172  
2,947,397  
88: 2,931,475  
2,940,572  
2,941,642  
89: 2,931,476  
93: 2,925,160  
99: 2,947,398  
101: 2,961,570  
103: 2,937,730  
104: 2,937,731  
105: 2,925,161  
2,942,711  
2,947,399  
2,953,228  
2,954,109  
2,957,565  
2,965,206

107: 2,920,733  
2,921,659  
2,927,674  
2,949,991  
2,958,406  
108: 2,950,797  
111: 2,965,207  
112: 2,926,766  
113: 2,949,175  
114: 2,942,712  
116.5: 2,950,798  
125: 2,922,504  
129: 2,936,055  
2,959,263  
134: 2,934,189  
135: 2,948,374  
136: 2,955,693  
138: 2,928,516  
139: 2,922,505  
2,937,732  
142: 2,924,318  
2,962,147  
2,965,208  
149: 2,957,566  
150: 2,937,733  
2,937,734

## Class 193

2: 2,954,110  
3: 2,940,573  
5: 2,947,400  
7: 2,925,162  
2,953,229  
8: 2,943,720  
25: 2,936,056  
2,947,401  
2,953,230  
31: 2,952,348  
32: 2,964,153  
35: 2,920,734  
2,923,391  
2,931,477  
2,938,614  
2,948,375  
2,949,992  
2,964,154  
2,964,155  
38: 2,926,767  
2,933,173  
2,939,563  
2,945,575  
39: 2,944,648  
40: 2,931,478  
2,947,402  
2,948,376  
2,955,209  
43: 2,936,869  
2,946,420  
2,961,080

## Class 194

1: 2,929,479  
2,930,464  
2,934,190  
2,948,377  
2: 2,923,392  
2,937,735  
2,949,993  
2,956,660  
2,961,081  
4: 2,929,480  
2,950,799  
2,954,111  
2,959,264  
9: 2,934,191  
2,936,057  
2,942,713  
2,965,210  
10: 2,941,643  
2,941,644  
2,956,661  
2,957,507  
2,962,148  
13: 2,961,082  
2,966,248  
18: 2,957,568  
19: 2,935,170  
20: 2,947,403  
32: 2,924,319  
54: 2,925,898  
2,931,479  
2,959,265  
55: 2,925,163  
2,934,192  
57: 2,940,574  
58: 2,948,378  
2,960,204  
72: 2,963,136  
79: 2,920,735  
84: 2,924,320

88: 2,927,675  
92: 2,948,379  
97: 2,932,374  
102: 2,931,480

## Class 195

6: 2,927,885  
8: 2,960,444  
28: 2,959,521  
2,959,522  
29: 2,927,059  
2,944,943  
2,958,630  
30: 2,933,434  
2,965,546  
31: 2,961,378  
2,961,379  
35: 2,921,002  
36: 2,932,607  
2,947,665  
2,949,404  
37: 2,934,474  
39: 2,962,421  
43: 2,948,658  
44: 2,945,786  
45: 2,964,449  
47: 2,937,121  
2,937,122  
2,940,903  
2,945,787  
3,947,666  
2,948,659  
2,955,986  
51: 2,925,366  
2,936,264  
2,938,834  
2,949,405  
2,950,226  
2,951,016  
2,954,326  
2,955,075  
2,958,631  
2,960,434  
2,960,435  
2,960,436  
2,962,422  
2,962,423  
2,964,450  
2,966,444  
62: 2,922,748  
2,936,265  
65: 2,953,500  
66: 2,922,749  
2,923,665  
2,926,122  
2,927,060  
2,940,904  
2,950,227  
2,950,228  
2,952,586  
2,956,928  
2,957,809  
68: 2,928,773  
2,956,929  
2,958,632  
2,961,382  
70: 2,947,667  
74: 2,960,445  
78: 2,938,835  
2,955,076  
80: 2,923,666  
2,923,667  
2,923,668  
2,931,756  
2,932,608  
2,938,836  
2,940,905  
2,940,906  
2,940,907  
2,940,908  
2,941,644  
2,943,023  
2,943,024  
2,943,025  
2,948,660  
2,949,406  
2,949,407  
2,952,587  
2,956,930  
2,957,810  
2,965,546  
2,965,547  
81: 2,921,887  
2,936,266  
2,964,451  
96: 2,939,822  
2,943,983  
2,962,424  
97: 2,940,910  
98: 2,947,668



102: 2,966,445

103.5: 2,921,003

2,923,669

2,931,757

2,956,931

114: 2,956,932

2,960,446

116: 2,924,555

123: 2,963,406

127: 2,947,669

129: 2,933,435

134: 2,948,661

139: 2,934,327

2,959,523

143: 2,952,588

Class 196

14.52: 2,953,501

46: 2,955,987

46.1: 2,922,750

2,937,977

99: 2,922,751

115: 2,927,061

116: 2,934,475

128: 2,929,765

Class 197

1: 2,940,575

2,950,800

2,963,137

1.6: 2,960,164

2,964,108

5: 2,934,193

2,946,421

6: 2,922,506

6.2: 2,919,779

6.6: 2,927,676

2,944,649

6.7: 2,930,465

2,951,571

9: 2,919,780

2,922,507

2,923,393

2,939,564

10: 2,955,694

12: 2,945,576

13: 2,927,677

17: 2,919,781

2,921,660

2,931,481

2,938,615

2,940,576

2,945,577

2,951,572

2,966,249

19: 2,919,782

2,924,321

2,950,801

2,954,860

2,932,375

22: 2,937,736

38: 2,924,322

27: 2,964,156

52: 2,926,768

57: 2,938,616

2,938,617

63: 2,930,466

66: 2,923,394

2,938,618

2,958,407

2,965,211

74: 2,944,650

84: 2,936,058

2,938,619

2,939,565

2,941,645

2,945,578

2,951,573

2,954,861

2,955,695

98: 2,948,380

100: 2,958,408

102: 2,947,404

120: 2,935,171

127: 2,930,467

2,936,870

2,950,802

2,952,349

128: 2,963,138

133: 2,919,783

2,921,661

2,929,481

2,943,721

2,944,651

2,963,139

138: 2,930,468

150: 2,949,176

151: 2,930,469

2,930,470

157: 2,922,508

2,941,646

158: 2,940,577

159: 2,919,784

170: 2,919,785

171: 2,964,157

175: 2,925,164

2,931,482

2,949,994

2,961,083

2,961,084

176: 2,953,231

2,965,212

177: 2,928,517

178: 2,926,769

2,958,409

179: 2,936,871

2,946,422

181: 2,921,662

2,944,652

2,950,803

186: 2,946,423

187: 2,949,177

189: 2,939,566

2,941,647

190: 2,930,471

Class 198

1: 2,924,323

2,958,410

5: 2,942,714

7: 2,925,899

2,946,424

2,959,266

2,964,158

10: 2,922,509

12: 2,920,736

16: 2,919,786

2,929,482

2,929,483

2,936,872

2,940,578

2,949,178

2,953,232

2,956,662

2,962,149

19: 2,925,166

2,928,518

2,929,484

2,929,485

2,929,486

2,932,376

2,934,194

2,935,172

2,942,715

2,942,716

2,945,579

2,956,663

2,959,267

2,959,268

2,963,140

2,964,159

20: 2,921,663

2,929,487

2,941,648

2,944,653

2,949,995

2,963,141

21: 2,926,770

2,940,579

2,942,717

2,953,233

2,960,205

2,965,211

22: 2,956,664

24: 2,927,678

2,930,472

2,931,483

2,934,195

2,934,196

2,950,804

2,957,569

2,964,160

25: 2,949,996

2,949,997

2,950,805

2,952,350

2,965,214

26: 2,929,488

2,940,580

27: 2,928,519

28: 2,964,161

29: 2,920,737

30: 2,919,787

2,930,473

2,935,173

2,935,174

2,936,059

2,936,060

2,941,649

2,941,650

2,941,651

2,941,652

30: 2,946,425

2,949,179

2,951,574

2,953,234

2,954,862

2,955,696

2,961,085

2,963,142

2,966,250

31: 2,920,738

2,920,739

2,923,395

2,928,520

2,930,474

2,941,653

2,942,718

2,959,269

2,964,162

2,964,163

2,966,251

32: 2,921,664

2,930,475

2,943,722

2,944,654

2,946,424

2,961,086

2,966,252

33: 2,919,788

2,920,740

2,920,741

2,923,396

2,923,397

2,928,521

2,929,489

2,932,377

2,933,174

2,935,176

2,935,176

2,937,737

2,937,738

2,938,620

2,939,567

2,940,581

2,940,582

2,942,719

2,943,723

2,947,406

2,947,406

2,949,998

2,953,235

2,953,236

2,953,237

2,954,863

2,956,665

2,961,087

2,963,143

2,965,215

2,965,216

34: 2,920,742

2,921,665

2,939,568

2,941,654

2,942,720

2,943,724

2,948,381

2,955,697

2,955,698

35: 2,919,789

2,925,167

2,930,476

2,944,655

2,948,382

2,950,806

2,951,575

2,959,270

2,960,206

37: 2,939,569

2,951,576

2,952,350

2,966,253

38: 2,919,790

2,931,484

2,934,197

2,937,739

2,946,427

2,958,411

40: 2,927,679

2,956,666

2,960,207

41: 2,940,583

2,940,584

2,953,238

43: 2,928,522

52: 2,928,523

54: 2,920,743

2,954,112

56: 2,956,667

59: 2,945,580

60: 2,922,510

64: 2,933,175

66: 2,947,407

2,961,088

73: 2,960,208

76: 2,928,524

2,938,873

78: 2,924,324

82: 2,951,577

85: 2,920,744

2,943,725

2,944,656

89: 2,939,570

92: 2,923,398

98: 2,921,666

100: 2,925,900

107: 2,929,491

2,950,807

109: 2,955,699

110: 2,959,271

121: 2,920,745

122: 2,947,408

123: 2,957,570

128: 2,920,746

2,934,198

2,950,808

2,958,412

131: 2,932,825

2,932,825

2,938,621

2,941,655

135: 2,943,726

139: 2,949,791

2,920,747

2,925,901

2,933,176

2,933,177

140: 2,919,792

2,960,209

143: 2,941,656

152: 2,944,657

153: 2,932,379

2,956,668

154: 2,958,413

155: 2,936,875

2,962,151

158: 2,925,902

160: 2,927,680

2,957,571

162: 2,932,380

164: 2,964,164

165: 2,928,525

2,966,254

168: 2,924,325

2,930,477

2,934,199

170: 2,959,272

174: 2,931,485

175: 2,930,478

2,954,864

176: 2,922,511

177: 2,936,061

2,941,657

2,944,658

2,952,351

2,955,239

2,960,210

2,960,211

179: 2,921,667

2,948,383

2,953,240

180: 2,920,748

181: 2,926,771

183: 2,944,659

2,959,273

184: 2,920,749

2,921,668

2,927,681

2,940,585

185: 2,949,999

2,952,352

188: 2,936,062

2,943,727

189: 2,951,578

2,955,113

2,957,480

2,962,152

191: 2,924,326

2,925,903

192: 2,922,512

2,942,712

2,947,409

2,948,384

2,966,255

193: 2,946,428

2,963,144

195: 2,942,722

2,944,660

196: 2,921,669

2,922,513

2,936,063

2,950,000

2,958,414

198: 2,925,165

200: 2,958,415

202: 2,919,793

2,920,750

2,925,168

2,950,809

203: 2,931,486

2,932,381

2,933,178

2,934,200

2,940,586

2,953,241

2,955,701

2,957,572

2,965,217

204: 2,943,728

2,951,579

2,955,702

2,960,212

208: 2,920,751

2,939,571

2,951,580

2,954,114

209: 2,962,153

210: 2,932,399

2,939,572

213: 2,921,670

2,929,888

2,926,772

2,927,682

2,934,201

2,948,385

219: 2,933,179

2,948,386

2,957,573

220: 2,922,514

2,926,773

2,927,683

2,934,202

2,935,177

2,936,876

2,940,587

2,941,658

2,946,429

2,947,410

2,951,581

2,960,213

2,960,214

221: 2,933,180

2,954,115

223: 2,920,752

224: 2,920,753

2,925,169

2,951,582

2,966,256

229: 2,945,581

232: 2,926,774

2,931,487

2,932,382

2,938,622

Class 199

18: 2,920,754

2,924,327

2,934,203

2,936,065

2,955,703

59: 2,961,089

60: 2,939,573

61: 2,929,492

91: 2,947,411

Class 200

1: 2,943,158

2,950,362

2,958,744

4: 2,941,047

2,942,073

2,957,056

5: 2,924,675

2,934,613

2,944,120

2,947,825

2,953,649

2,953,650

2,956,130

2,957,057

2,963,559

6: 2,921,147

2,932,698

2,936,347

2,941,048

2,960,580

2,966,559

10: 2,921,995

11: 2,921,996

2,944,121

2,949,511

2,954,443

2,960,581

14: 2,956,131

15: 2,924,676

2,947,826

16: 2,930,859

2,931,866

2,937,245

2,947,527

2,951,916

2,966,560

17: 2,920,151

18: 2,927,168

2,935,577

2,938,968

2,945,922

19: 2,932,699

23: 2,953,651

2,965,724

24: 2,924,677

2,928,910

2,932,700

25: 2,935,578

2,945,096

26: 2,952,750

2,965,725

27: 2,920,152

2,938,085

28: 2,948,784

30: 2,929,888

2,947,828

2,948,785

2,953,652

2,965,726

31: 2,923,785

2,941,049

2,944,122

2,945,923

33: 2,927,979

2,929,889

2,935,579

2,938,969

2,943,159

2,945,924

2,953,653

35: 2,921,148

2,932,701

2,936,348

2,943,160

2,946,863

2,949,512

36: 2,932,702

37: 2,941,050

2,951,918

38: 2,920,153

2,921,149

2,921,150

2,921,151

2,922,853

2,925,478

2,928,911

2,930,860

2,933,568

2,934,614

2,937,246

2,937,247

2,938,086

2,938,970

2,939,924

2,941,051

2,941,052

2,943,161

2,951,919

2,959,466

2,960,582

2,961,500

2,964,599

42: 2,921,152

2,946,864

43: 2,921,997

2,934,615

44: 2,937,248

2,943,162

2,944,123

46: 2,924,678

2,927,169

2,927,980

2,941,053

2,941,054

2,953,654

2,965,727

47: 2,926,222

2,939,926

2,945,925

2,951,920

2,964,600

2,964,601

48: 2,953,655

2,958,745

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2,921,153

2,921,998

2,936,349

2,943,163

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50: 2,954,444

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2,962,564

51: 2,938,971

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51.09: 2,957,955

51.1: 2,921,154

2,942,074

51.15: 2,948,786

51.17: 2,924,679

56: 2,920,154

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2,930,364

2,957,956

61.01: 2,957,957

2,961,502

61.06: 2,949,513

2,949,514

2,954,445

61.08: 2,947,829

61.1: 2,966,561

61.14: 2,927,170

61.18: 2,930,861

2,938,972

61.19: 2,928,912

61.21: 2,929,890

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61.22: 2,957,058

61.25: 2,931,867

2,958,746

61.3: 2,924,680

61.34: 2,961,503

61.39: 2,920,156

61.4: 2,957,958

61.41: 2,945,926

61.43: 2,952,751

61.44: 2,930,862

2,939,925

2,943,160

61.45: 2,938,087

2,946,867

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2,963,562

61.46: 2,931,868

2,934,616

2,966,564

61.47: 2,927,982

61.48: 2,920,157

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61.5: 2,966,562

61.51: 2,947,830

61.52: 2,921,999

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61.53: 2,930,863

61.57: 2,943,164

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61.76: 2,957,959

61.82: 2,921,155

61.85: 2,965,728

61.86: 2,925,480

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61.88: 2,945,100

61.89: 2,926,224

2,946,870

65: 2,946,781

66: 2,945,927

67: 2,923,787

2,924,681

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2,927,171

2,927,983

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2,939,926

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2,947,832

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2,964,602

68: 2,950,366

70: 2,930,865

2,936,351

74: 2,923,788

78: 2,958,744



## Class 200—Con.

- 80: 2,920,158  
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81: 2,930,866  
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81.5: 2,961,506  
81.9: 2,920,159  
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82: 2,927,984  
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83: 2,921,158  
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87: 2,920,160  
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- 87: 2,930,868  
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91: 2,927,174  
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93: 2,923,792  
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94: 2,922,006  
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95: 2,920,161  
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97: 2,922,860  
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98: 2,957,963  
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102: 2,957,965  
103: 2,946,875  
104: 2,920,162  
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- 104: 2,938,092  
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105: 2,928,916  
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106: 2,922,861  
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107: 2,932,706  
109: 2,937,252  
110: 2,930,871  
111: 2,952,756  
112: 2,935,587  
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113: 2,920,163  
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113.5: 2,930,872  
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114: Re.24,847  
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117: 2,921,167  
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118: 2,923,796  
120: 2,922,863  
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122: 2,920,165  
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126: 2,932,708  
127: 2,959,652  
129: 2,941,059
- 131: 2,929,900  
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132: 2,934,626  
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133: 2,938,093  
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135: 2,934,627  
136.5: 2,926,230  
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137: 2,923,797  
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138: 2,925,483  
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139: 2,952,760  
140: 2,929,901  
142: 2,920,166  
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143: 2,948,789  
144: 2,920,168  
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145: 2,921,168  
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146: 2,922,009  
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147: 2,942,086  
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148: 2,920,170  
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152: 2,927,987  
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153: 2,921,169  
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- 153: 2,958,751  
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156: 2,928,920  
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157: 2,922,012  
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158: 2,957,968  
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159: 2,921,170  
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160: 2,945,111  
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162: 2,922,864  
163: 2,923,800  
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164: 2,938,094  
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166: 2,922,013  
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167: 2,924,692  
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168: 2,929,904  
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2,938,096  
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2,954,452  
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2,964,606  
169: 2,937,258  
170: Re.24,913  
2,938,840  
2,960,590  
172: 2,944,132
- 40: 2,935,451  
2,965,548  
2,965,549  
42: 2,927,064  
2,936,267  
2,945,788  
2,953,502  
2,953,503  
2,963,407  
46: 2,927,065  
2,935,452  
2,963,408  
51: 2,960,447  
52: 2,944,944  
53: 2,959,524  
56: 2,960,448  
57: 2,920,016  
2,938,837  
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2,948,662  
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64: 2,943,026  
2,955,990  
70: 2,950,232  
71: 2,949,408  
2,953,504  
74: 2,922,754  
93: 2,954,329  
98: 2,941,927  
117: 2,955,991  
121: 2,966,447  
158: 2,946,726  
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163: 2,960,449  
170: 2,924,557  
174: 2,934,477  
176: 2,925,367  
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177: 2,921,004  
187: 2,956,934  
221: 2,941,928  
248: 2,965,550  
250: 2,920,017
- 32: 2,965,551  
33: 2,966,448  
34: 2,962,427  
35: 2,927,886  
2,951,794  
37: 2,926,123  
2,931,759  
2,933,439  
2,934,480  
2,943,031  
2,946,728  
2,950,233  
43: 2,926,124  
2,927,066  
2,938,842  
45: 2,951,020  
49: 2,932,610  
2,937,978  
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51: 2,950,234  
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52: 2,923,671  
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54: 2,930,740  
56: 2,920,018  
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57: 2,945,790  
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58: 2,963,409  
59: 2,937,123  
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60: 2,940,911  
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61: 2,936,268  
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63: 2,958,634  
64: 2,920,020  
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68: 2,924,558  
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70: 2,950,236  
71: 2,920,022  
72: 2,921,005  
74: 2,963,410  
78: 2,960,452  
98: Re.24,865  
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99: 2,949,412  
125: 2,958,635  
130: 2,964,453  
140.5: 2,928,777  
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141: 2,930,741  
2,936,270  
2,947,674  
2,953,507  
142: 2,939,825  
143: 2,937,124  
2,946,731  
2,958,636

## Class 203

## Class 204

## Class 202



143:	2,962,429	164:	2,921,892	220:	2,952,604	16:	2,919,795	46:	2,956,670	65:	2,937,745	25:	2,921,012
	2,963,411		2,924,562	221:	2,951,026		2,925,904		2,956,671		2,938,625		2,935,457
144:	2,957,813		2,945,797	222:	2,925,371		2,925,905		2,956,672		2,941,662	26:	2,924,567
145:	2,920,023		2,952,598	224:	2,959,532		2,928,531		2,958,419		2,946,636		2,961,396
	2,939,826	165:	2,930,743		2,961,395		2,928,532		2,959,278		2,949,182		2,966,451
147:	2,927,068		2,944,951	225:	2,930,746		2,928,533		2,960,217		2,949,183	27:	2,936,281
149:	2,928,778		2,952,599		2,957,816		2,935,183		2,962,157		2,949,184		2,956,001
153:	2,941,932	177:	2,955,998	228:	2,939,828		2,936,066		2,962,158		2,950,814	28:	2,939,831
154:	2,921,006	180:	2,923,674	239:	2,946,733		2,944,662		2,962,159		2,952,355		2,945,798
	2,942,559		2,937,126	243:	2,921,894		2,945,584		2,963,147		2,955,707	29:	2,952,608
	2,933,441		2,944,952		2,939,829		2,948,388	47:	2,932,385		2,962,163	31:	2,949,418
	2,936,271		2,955,999		2,940,913		2,959,275		2,935,189		2,964,175		2,949,419
	2,936,272	181:	2,927,069		2,952,605		2,964,167		2,939,577		2,966,261	33:	2,937,985
	2,940,912		2,947,677	244:	2,937,128	17:	2,919,796		2,960,218	72:	2,941,663		2,952,609
	2,940,913		2,956,377		2,959,533		2,928,534	48:	2,949,180		2,965,226		2,961,397
	2,940,914		2,966,449	245:	2,944,955		2,962,154	51:	2,922,516		2,956,675	36:	2,952,610
	2,943,986	186:	2,960,454	246:	2,958,640		2,962,155		2,936,882	73:	2,921,677	39:	2,952,755
	2,945,792	193:	2,937,983	247:	2,962,433	17.5:	2,962,155		2,956,673	75:	2,921,677		2,944,958
	2,945,793		2,958,638	248:	2,939,830	19.5:	2,922,515		2,930,479		2,950,003		2,937,130
	2,947,675	193.2:	2,920,024		2,957,817		2,925,172		2,935,190	52:	2,921,674		2,944,958
	2,948,664		2,920,025	253:	2,920,028		2,931,489		2,936,883		2,963,149	76:	2,963,149
	2,948,665		2,921,007	263:	2,938,849	29:	2,933,181		2,953,245	78:	2,931,493		2,956,944
	2,948,666		2,926,127	266:	2,944,956		2,935,184		2,959,279		2,931,494	41:	2,920,029
	2,949,413		2,927,071	270:	2,951,802		2,935,185		2,966,258		2,945,586	45:	2,931,766
	2,951,022		2,928,781	271:	2,930,747		2,965,221	53:	2,927,688		2,950,004		2,934,488
	2,952,593		2,929,767	275:	2,944,957	31:	2,942,725		2,928,538		2,963,150		2,936,282
	2,952,594		2,929,768	279:	2,946,734		2,963,146		2,962,160	79:	2,929,498		2,940,920
	2,952,595		2,930,744	283:	2,928,783	33:	2,920,759	56:	2,920,759		2,934,205	46:	2,927,072
	2,952,596		2,930,745	286:	2,958,641	34:	2,964,168		2,921,675		2,944,665	47:	2,920,030
	2,952,597		2,931,761	288:	2,934,486	38:	2,925,906		2,922,517		2,953,246		2,938,851
	2,954,334		2,931,762	290:	2,929,769		2,935,186		2,923,404		2,956,676	48:	2,923,677
	2,956,938		2,931,763	297:	2,938,850		2,937,741		2,928,539	80:	2,931,495		2,934,489
	2,957,814		2,933,442		2,953,512		2,939,575		2,932,386		2,937,747		2,937,131
	2,958,637		2,934,482		2,958,642		2,955,704		2,932,387		2,941,664		2,938,852
	2,959,529		2,934,483	298:	2,960,457		2,958,416		2,935,191		2,949,185		2,943,993
	2,959,530		2,935,456	301:	2,923,676	41:	2,954,867		2,942,727	84:	2,936,884		2,943,994
	2,960,453		2,936,277		2,933,444		2,958,417		2,944,124		2,938,392	50:	2,963,416
	2,961,388		2,937,127		2,943,989	41.1:	2,947,413		2,946,434		2,948,393	53:	2,943,995
	2,961,389		2,937,984	302:	2,948,668	41.2:	2,940,590		2,951,584		2,955,708	55:	2,923,678
	2,962,430		2,938,847		2,925,372		2,958,418		2,954,116		2,964,176		2,947,681
	2,962,431		2,938,848		2,946,735	41.5:	2,935,187		2,954,117				2,953,513
	2,963,412		2,940,916		2,951,027	42:	2,921,672		2,962,161				2,925,609
	2,964,454		2,943,035	308:	2,929,770		2,927,686		2,964,171				2,945,801
	2,964,455		2,946,732		2,929,771		2,933,182		2,964,172				2,956,002
	2,964,456		2,947,678	311:	2,929,771		2,935,180		2,965,223				2,939,832
	2,964,457		2,949,415	314:	2,952,606		2,935,188		2,965,223				2,949,420
	2,965,553		2,949,416	316:	2,936,279		2,943,730		2,966,259	57:	2,944,664		2,952,611
154.2:	2,921,891		2,950,238	320:	2,936,280		2,948,389		2,966,259		2,956,674		2,961,397
	2,928,779		2,951,801				2,953,242		2,964,173		2,964,173		2,934,489
	2,928,780		2,952,600				2,965,222		2,965,224		2,965,224		2,943,996
	2,936,273		2,952,601				2,953,243	43:	2,953,243		2,935,192		2,955,080
	2,936,274		2,952,602				2,955,705		2,955,705		2,960,220		2,963,151
	2,937,981		2,952,603				2,926,777	44:	2,926,777		2,925,174	2:	2,923,407
	2,937,982		2,953,510				2,942,726		2,942,726		2,932,388		2,934,206
	2,938,844		2,953,511				2,953,244		2,953,244		2,940,591		2,954,869
	2,938,845		2,954,335				2,964,169		2,964,169		2,941,661		2,960,221
	2,938,846		2,956,000				2,937,742	44.12:	2,937,742		2,943,732		2,964,177
	2,940,915		2,957,815				2,954,118		2,954,118		2,954,118	3:	2,933,184
	2,941,933		2,961,391				2,940,588		2,951,583		2,954,868		2,935,459
	2,943,034		2,961,392				2,963,145		2,966,257		2,962,162		2,938,853
	2,945,794		2,961,393				2,924,329	45.13:	2,924,329		2,964,174		2,938,854
	2,947,676		2,965,555				2,928,528		2,928,528		2,966,259	4:	2,931,496
	2,949,414										2,966,259		2,931,497
	2,951,023	194:	2,964,459								2,966,259		2,931,498
	2,951,023	195:	2,925,370								2,966,259		2,931,498
	2,953,508		2,927,887								2,966,259		2,931,498
	2,961,390		2,927,888								2,966,259		2,931,498
157:	2,925,368		2,928,782								2,966,259		2,931,498
158:	2,923,673		2,934,484								2,966,259		2,931,498
	2,924,560		2,939,827								2,966,259		2,931,498
	2,926,126		2,943,036								2,966,259		2,931,498
	2,930,742		2,947,679								2,966,259		2,931,498
	2,934,481		2,954,336								2,966,259		2,931,498
	2,936,275		2,960,455								2,966,259		2,931,498
	2,936,276		2,962,432								2,966,259		2,931,498
	2,941,934		2,926,128								2,966,259		2,931,498
	2,945,795		2,941,935								2,966,259		2,931,498
	2,950,237		2,949,417								2,966,259		2,931,498
	2,951,024		2,963,413								2,966,259		2,931,498
	2,951,796		2,934,485								2,966,259		2,931,498
	2,951,797		2,947,680								2,966,259		2,931,498
	2,955,994		2,944,563								2,966,259		2,931,498
	2,955,995		2,944,953								2,966,259		2,931,498
	2,955,996		2,958,639								2,966,259		2,931,498
	2,956,939		2,960,456								2,966,259		2,931,498
	2,959,531		2,933,443								2,966,259		2,931,498
162:	2,924,561	199:	2,921,008								2,966,259		2,931,498
	2,943,987	203:	2,924,564								2,966,259		2,931,498
	2,951,798	204:	2,921,893								2,966,259		2,931,498
	2,951,799		2,936,278								2,966,259		2,931,498
	2,951,800	211:	2,951,025								2,966,259		2,931,498
	2,953,509	212:	2,931,767								2,966,259		2,931,498
	2,955,997		2,940,914								2,966,259		2,931,498
	2,956,940		2,921,009								2,966,259		2,931,498
	2,956,941		2,923,675								2,966,259		2,931,498
	2,956,942		2,956,944								2,966,259		2,931,498
	2,964,458		2,965,556								2,966,259		2,931,498
	2,965,554		2,927,889								2,966,259		2,931,498
163:	2,925,369		2,944,954								2,966,259		2,931,498
	2,937,125	218:	2,920,026								2,966,259		2,931,498
	2,943,988		2,920,027								2,966,259		2,931,498
	2,945,796		2,950,239								2,966,259		2,931,498
	2,948,667		2,961,394								2,966,259		2,931,498



## Class 208—Con.

85: 2,940,922  
2,941,937  
2,943,039  
2,944,960  
86: 2,925,374  
2,926,129  
2,952,615  
88: 2,937,986  
89: 2,924,568  
2,925,375  
2,928,784  
2,937,134  
2,938,857  
2,945,803  
91: 2,922,756  
2,930,748  
2,939,833  
2,943,040  
2,944,002  
2,945,804  
2,951,804  
2,954,338  
2,956,004  
93: 2,944,003  
2,958,645  
94: 2,921,016  
2,953,514  
95: 2,925,376  
2,932,612  
2,937,135  
2,938,858  
2,956,005  
2,956,006  
99: 2,920,031  
2,929,772  
2,931,769  
100: 2,937,136  
2,944,004  
2,948,670  
2,951,029  
101: 2,929,773  
2,939,834  
102: 2,952,616  
104: 2,934,491  
2,943,041  
106: 2,921,017  
107: 2,924,569  
108: 2,937,987  
2,939,835  
2,944,961  
2,950,242  
2,962,434  
2,964,462  
109: 2,944,005  
2,944,006  
110: 2,926,130  
2,945,805  
2,945,806  
2,960,459  
2,964,463  
112: 2,934,492  
2,939,836  
2,946,738  
2,946,739  
2,953,515  
2,953,516  
2,958,651  
2,958,652  
2,965,562  
113: 2,929,774  
114: 2,921,018  
115: 2,926,131  
2,951,805  
117: 2,928,785  
118: 2,940,923  
2,947,684  
2,958,646  
119: 2,958,647  
2,962,435  
120: 2,935,463  
2,946,740  
2,958,648  
127: 2,920,032  
2,927,073  
2,937,988  
2,943,042  
2,944,007  
2,944,962  
2,946,741  
2,952,617  
2,953,517  
2,953,518  
2,964,464  
133: 2,929,775  
134: 2,935,464  
2,943,043  
2,948,671  
2,960,460

136: 2,939,837  
2,957,819  
2,958,649  
137: 2,959,536  
138: 2,925,377  
2,931,770  
2,937,137  
2,940,924  
2,950,243  
139: 2,948,672  
140: 2,923,679  
2,934,493  
2,937,989  
2,938,859  
2,941,938  
2,944,008  
2,956,007  
2,965,563  
141: 2,935,465  
143: 2,924,570  
2,926,132  
2,946,742  
2,953,519  
144: 2,963,419  
2,963,420  
146: 2,920,034  
2,934,044  
2,945,807  
147: 2,926,133  
149: 2,938,860  
2,944,963  
150: 2,952,618  
2,963,421  
155: 2,944,009  
157: 2,952,619  
159: 2,953,520  
160: 2,963,422  
161: 2,934,494  
162: 2,927,990  
2,952,620  
164: 2,948,673  
2,958,653  
2,959,537  
2,962,436  
165: 2,943,045  
2,951,030  
166: 2,925,378  
2,928,786  
2,952,621  
2,956,008  
2,956,009  
2,956,010  
2,956,011  
167: 2,920,035  
2,951,806  
2,952,622  
2,952,623  
169: 2,921,019  
174: 2,958,650  
175: 2,922,757  
176: 2,934,495  
2,935,466  
177: 2,944,010  
180: 2,943,046  
2,944,964  
2,951,031  
181: 2,952,624  
183: 2,922,758  
187: 2,930,749  
2,933,447  
189: 2,944,011  
195: 2,956,012  
204: 2,945,808  
205: 2,921,020  
2,921,021  
206: 2,960,461  
2,966,452  
2,966,453  
207: 2,921,895  
208: 2,927,074  
2,927,075  
210: 2,921,022  
2,952,625  
2,952,626  
211: 2,943,047  
2,959,538  
212: 2,921,896  
2,922,759  
2,928,787  
2,944,012  
2,953,521  
2,956,013  
213: 2,929,776  
2,937,138  
2,951,032  
216: 2,947,685  
2,954,339  
2,958,654  
217: 2,951,807  
2,965,564  
218: 2,927,891  
2,948,674

220: 2,938,861  
226: 2,951,033  
228: 2,954,340  
231: 2,952,627  
2,953,522  
232: 2,957,820  
235: 2,934,496  
236: 2,930,750  
237: 2,927,076  
240: 2,926,134  
241: 2,941,939  
2,941,940  
242: 2,953,523  
244: 2,951,034  
251: 2,922,760  
2,934,497  
2,944,013  
2,952,628  
2,963,423  
2,966,454  
252: 2,943,048  
2,948,675  
253: 2,951,035  
254: 2,925,379  
2,925,380  
2,925,381  
2,943,049  
2,966,455  
263: 2,921,023  
2,931,771  
2,938,862  
2,944,014  
2,956,496  
2,963,424  
2,966,456  
264: 2,921,024  
2,921,325  
2,944,015  
2,946,743  
2,963,425  
271: 2,959,539  
273: 2,940,925  
282: 2,927,077  
2,952,629  
283: 2,938,863  
284: 2,920,036  
2,944,016  
2,944,965  
286: 2,963,426  
287: 2,930,751  
288: 2,946,744  
289: 2,956,014  
299: 2,949,421  
304: 2,925,382  
305: 2,951,036  
306: 2,926,135  
308: 2,960,462  
309: 2,943,050  
2,950,244  
310: 2,920,037  
2,920,038  
2,921,026  
2,935,467  
2,938,864  
2,940,926  
2,952,630  
2,956,015  
312: 2,939,838  
2,946,745  
314: 2,964,465  
2,964,467  
315: 2,963,428  
319: 2,941,941  
321: 2,923,680  
2,935,468  
2,936,283  
2,948,676  
322: 2,943,048  
324: 2,935,469  
2,937,139  
2,963,429  
326: 2,934,498  
2,935,470  
340: 2,937,140  
2,947,686  
341: 2,930,752  
2,938,865  
2,949,423  
344: 2,955,081  
345: 2,959,540  
348: 2,950,245  
350: 2,953,524  
352: 2,938,866  
2,944,966  
355: 2,952,631  
361: 2,920,039  
2,937,141  
2,952,632  
365: 2,954,341  
366: 2,961,398  
370: 2,951,037

## Class 209

2: 2,949,187  
3: 2,961,092  
5: 2,944,666  
8: 2,954,122  
11: 2,925,910  
12: 2,931,499  
2,959,281  
2,963,152  
2,964,179  
13: 2,966,262  
17: 2,960,222  
21: 2,954,123  
28: 2,947,416  
36: 2,936,885  
45: 2,928,542  
47: 2,922,518  
72: 2,932,391  
74: 2,941,666  
2,945,587  
2,950,005  
2,961,093  
2,961,094  
75: 2,924,333  
2,961,095  
78: 2,937,748  
2,964,180  
79: 2,949,188  
81: 2,927,690  
2,965,229  
82: 2,933,185  
2,939,578  
2,962,165  
2,936,071  
88: 2,937,749  
2,942,729  
2,959,282  
2,960,223  
2,962,166  
90: 2,964,182  
91: 2,964,181  
97: 2,934,207  
2,948,394  
2,966,263  
98: 2,954,124  
2,949,189  
106: 2,960,224  
107: 2,955,710  
110: 2,955,993  
2,959,283  
2,961,093  
111: 2,919,801  
2,922,519  
2,929,500  
2,932,392  
2,936,886  
2,937,750  
2,944,687  
2,945,588  
2,960,225  
2,966,264  
117: 2,965,230  
119: 2,932,393  
121: 2,938,626  
2,947,417  
2,961,096  
123: 2,964,183  
127: 2,948,395  
2,956,678  
134: 2,941,667  
135: 2,926,783  
2,932,394  
136: 2,935,193  
2,952,356  
138: 2,950,006  
2,952,357  
2,959,284  
139: 2,931,500  
2,940,592  
2,966,265  
143: 2,963,153  
144: 2,922,520  
2,929,501  
2,939,579  
2,943,734  
2,943,735  
2,956,679  
151: 2,956,680  
156: 2,946,438  
2,948,396  
157: 2,938,627  
2,946,439  
158: 2,938,628  
2,960,226  
160: 2,931,501  
162: 2,960,227  
163: 2,922,521  
164: 2,931,502  
2,953,589  
166: 2,921,678  
2,921,679  
2,922,522  
2,923,408

## Class 210

166: 2,927,691  
2,934,208  
2,936,887  
2,937,751  
2,950,007  
2,950,818  
2,952,358  
2,965,231  
167: 2,919,802  
2,927,692  
2,951,585  
2,957,576  
168: 2,966,266  
169: 2,928,543  
170: 2,938,629  
2,932,395  
2,949,190  
2,952,359  
2,954,870  
2,957,577  
173: 2,929,502  
211: 2,920,761  
2,925,177  
2,927,693  
2,931,503  
2,931,504  
2,952,360  
2,954,871  
2,958,420  
2,963,154  
2,965,232  
213: 2,926,784  
215: 2,964,184  
219: 2,939,580  
2,950,008  
223: 2,919,803  
2,945,590  
232: 2,952,361  
248: 2,933,186  
271: 2,966,267  
274: 2,942,730  
283: 2,927,694  
288: 2,964,185  
293: 2,942,731  
318: 2,939,581  
319: 2,959,285  
326: 2,946,440  
327: 2,922,523  
328: 2,955,178  
344: 2,946,441  
365: 2,920,762  
2,965,233  
366: 2,964,186  
367: 2,928,544  
370: 2,957,578  
390: 2,960,228  
392: 2,964,187  
393: 2,924,334  
394: 2,929,504  
401: 2,926,785  
412: 2,925,911  
418: 2,919,804  
419: 2,960,230  
430: 2,930,484  
434: 2,936,072  
437: 2,921,680  
440: 2,965,234  
441: 2,943,736  
443: 2,944,668  
453: 2,964,188  
455: 2,925,179  
2,948,397  
457: 2,963,155  
458: 2,926,786  
464: 2,933,187  
2,956,681  
467: 2,928,545  
480: 2,952,362  
2,958,421  
482: 2,946,442  
483: 2,960,231  
506: 2,923,410

## Class 210

4: 2,963,430  
19: 2,958,655  
20: 2,938,867  
21: 2,930,753  
23: 2,930,754  
2,947,687  
2,947,688  
2,958,656  
2,958,657  
24: 2,961,399  
25: 2,938,868  
30: 2,959,541  
33: 2,959,542  
35: 2,962,437  
37: 2,962,438  
40: 2,937,142

44: 2,925,383  
2,948,677  
49: 2,922,761  
52: 2,937,143  
2,964,466  
53: 2,929,777  
2,941,942  
54: 2,927,821  
56: 2,947,689  
57: 2,947,690  
58: 2,964,467  
63: 2,932,613  
64: 2,944,967  
67: 2,936,073  
2,963,156  
68: 2,947,418  
71: 2,921,681  
2,936,888  
72: 2,936,889  
75: 2,937,752  
2,943,737  
80: 2,964,189  
81: 2,921,682  
82: 2,954,872  
83: 2,946,443  
2,963,157  
2,966,268  
84: 2,940,593  
86: 2,936,890  
2,963,158  
95: 2,935,194  
97: 2,924,335  
104: 2,935,195  
2,935,196  
105: 2,937,753  
107: 2,946,444  
108: 2,925,912  
109: 2,935,197  
114: 2,938,630  
116: 2,936,074  
120: 2,929,503  
121: 2,944,669  
128: 2,961,077  
130: 2,948,398  
131: 2,936,891  
2,937,754  
132: 2,966,269  
138: 2,935,198  
2,955,711  
2,959,286  
141: 2,919,805  
144: 2,950,009  
2,950,010  
2,963,159  
146: 2,936,892  
149: 2,939,582  
152: 2,932,396  
2,944,670  
158: 2,929,504  
2,930,485  
166: 2,944,671  
2,948,399  
169: 2,932,397  
2,935,199  
2,960,232  
172: 2,923,411  
2,933,188  
2,937,755  
174: 2,921,683  
2,933,188  
180: 2,940,594  
185: 2,943,738  
193: 2,952,363  
2,963,160  
197: 2,921,684  
219: 2,922,524  
221: 2,920,763  
222: 2,949,191  
2,959,287  
2,959,288  
2,964,190  
223: 2,926,787  
2,932,398  
2,936,893  
2,939,583  
2,943,739  
2,951,586  
225: 2,932,399  
230: 2,933,190  
232: 2,946,445  
234: 2,945,591  
2,955,712  
235: 2,932,400  
236: 2,921,685  
2,936,075  
241: 2,961,098  
2,964,191  
242: 2,957,579  
251: 2,953,248  
256: 2,948,400  
266: 2,934,209  
289: 2,922,525

291: 2,956,682  
293: 2,929,505  
305: 2,953,249  
307: 2,959,289  
309: 2,933,191  
315: 2,920,506  
316: 2,933,192  
319: 2,928,546  
323: 2,921,686  
2,925,913  
2,946,446  
330: 2,956,683  
331: 2,946,448  
333: 2,940,595  
2,946,447  
341: 2,921,687  
347: 2,940,596  
2,957,580  
360: 2,926,136  
363: 2,964,192  
364: 2,931,505  
365: 2,948,401  
366: 2,936,894  
369: 2,932,401  
370: 2,964,193  
374: 2,925,180  
375: 2,953,250  
382: 2,943,740  
2,956,684  
383: 2,932,402  
396: 2,960,233  
400: 2,929,507  
2,935,200  
401: 2,935,161  
412: 2,936,895  
414: 2,919,806  
429: 2,920,764  
435: 2,947,419  
436: 2,931,506  
2,942,732  
441: 2,951,587  
444: 2,937,756  
445: 2,931,507  
450: 2,934,336  
2,955,713  
451: 2,925,547  
455: 2,922,526  
457: 2,960,234  
464: 2,927,695  
484: 2,946,449  
2,946,450  
486: 2,964,194  
487: 2,963,162  
496: 2,963,163  
500: 2,926,137  
2,944,017  
503: 2,956,016  
512: 2,929,508  
2,931,508  
2,931,509  
2,946,451  
519: 2,935,201  
2,942,733  
2,955,714  
2,961,099  
2,961,100  
523: 2,919,808  
525: 2,928,548  
526: 2,937,757  
2,941,668  
528: 2,959,290  
542: 2,945,592

## Class 211

1: 2,931,510  
2,937,758  
2,945,593  
2,950,011  
2,959,291  
2,963,164  
2,965,235  
1.5: 2,957,582  
1.6: 2,941,669  
2: 2,921,688  
2,921,689  
2,936,896  
2,965,236  
4: 2,926,788  
2,935,202  
2,946,452  
2,951,588  
2,953,251  
2,958,422  
2,958,423  
2,963,165  
10: 2,920,765  
2,935,203  
11: 2,964,195



13: 2,919,809 2,936,897 2,953,252 2,954,874 2,957,583 2,959,292 2,962,167 2,964,196 2,966,270 2,966,271 2,966,271 2,931,511 2,919,810 2,931,512 2,960,235 2,927,696 2,939,584 2,940,597 2,923,412 2,923,413 2,947,420 2,937,759 2,939,585 2,963,166 2,928,549 2,931,513 2,965,237 2,943,741 2,922,527 2,925,914 2,948,402 2,956,685 2,959,293 2,919,811 2,931,514 2,934,210 2,936,898 2,939,586 2,946,453 2,953,253 2,954,875 2,958,424 2,930,486 2,958,425 2,919,812 2,946,454 2,947,421 2,959,294 2,964,197 2,964,198 2,928,550 2,935,204 2,945,594 2,953,254 2,947,422 2,923,414 2,926,789 2,928,551 2,932,403 2,932,404 2,934,211 2,934,212 2,935,205 2,941,670 2,943,742 2,944,672 2,946,455 2,948,403 2,949,192 2,950,820 2,954,128 2,954,129 2,954,876 2,924,337 2,927,697 2,932,405 2,940,598 2,927,698 2,950,821 2,934,213 2,929,509 2,943,743 2,951,589 2,962,168 2,929,510 2,929,511 2,931,515 2,943,744 2,943,745 2,953,255 2,939,587 2,959,295 2,919,813 2,923,415 2,935,206 2,950,012 2,952,364 2,957,584 2,925,915 2,926,790 2,931,516 2,959,296 2,965,238	71: 2,923,416 2,927,700 2,928,552 2,929,512 2,931,517 2,936,899 2,937,760 2,937,761 2,940,599 2,965,239 2,921,690 2,936,900 2,919,814 2,935,207 2,948,404 2,956,686 2,956,687 2,957,585 2,963,167 2,951,590 2,938,901 2,946,456 2,932,406 2,924,338 2,925,916 2,925,917 2,927,701 2,935,208 2,935,209 2,936,902 2,941,671 2,944,673 2,946,457 2,950,013 2,952,365 2,958,426 2,960,236 Re. 24,862 2,925,918 2,937,762 2,941,672 2,960,237 2,946,458 2,922,528 2,929,513 2,957,586 2,930,487 2,940,600 2,941,673 2,944,674 2,947,423 2,948,405 2,954,125 2,957,587 2,959,297 2,966,272 2,938,631 2,922,529 2,940,601 2,946,459 2,952,366 2,948,406 2,950,822 2,945,595 2,948,407 2,951,591 2,953,256 2,963,168 2,964,199 2,964,200 2,932,407 2,936,076 2,939,588 2,952,367 2,964,201 2,965,240 2,962,169 2,943,746 2,950,823 2,950,824 2,920,766 2,929,514 2,926,791 2,944,675 2,948,408 2,925,919 2,934,214 2,934,215 2,936,077 2,940,602 2,942,734 2,950,825 2,959,298 2,937,763 2,937,764 2,953,257 2,961,101 2,921,691 2,932,408 2,933,193 2,945,596 2,960,238	134: 2,963,169 2,964,202 2,919,815 2,921,692 2,921,692 2,921,693 2,939,589 2,940,600 2,928,553 2,933,194 2,965,241 2,945,597 2,937,765 2,949,193 2,945,598 2,951,593 2,925,181 2,925,200 2,930,488 2,932,409 2,935,210 2,936,904 2,937,766 2,938,632 2,940,604 2,945,599 2,948,409 2,951,594 2,955,715 2,963,170 2,963,171 2,919,816 2,919,817 2,921,694 2,922,530 2,924,339 2,924,340 2,925,921 2,926,792 2,928,554 2,936,078 2,937,767 2,938,633 2,940,605 2,942,735 2,944,676 2,950,826 2,956,688 2,958,427 2,965,242 2,926,794 2,927,702 2,948,410 2,957,588 2,963,172 2,957,589 2,958,428 2,950,014 2,933,195 2,936,905 2,943,747 2,944,677 2,923,417 2,960,239 2,947,424 2,928,555 2,920,767 2,937,768 2,954,877 2,954,126 2,957,590 2,936,079 2,944,678 2,963,173 2,919,818 2,921,695 2,921,696 2,951,595 2,957,591 2,944,679 2,956,689 2,950,015 2,962,170 2,920,768 2,933,196 2,940,606 2,954,127 2,965,243 2,938,634 2,953,258 2,954,878	135: 2,919,815 2,921,692 2,921,692 2,921,693 2,939,589 2,940,600 2,928,553 2,933,194 2,965,241 2,945,597 2,937,765 2,949,193 2,945,598 2,951,593 2,925,181 2,925,200 2,930,488 2,932,409 2,935,210 2,936,904 2,937,766 2,938,632 2,940,604 2,945,599 2,948,409 2,951,594 2,955,715 2,963,170 2,963,171 2,919,816 2,919,817 2,921,694 2,922,530 2,924,339 2,924,340 2,925,921 2,926,792 2,928,554 2,936,078 2,937,767 2,938,633 2,940,605 2,942,735 2,944,676 2,950,826 2,956,688 2,958,427 2,965,242 2,926,794 2,927,702 2,948,410 2,957,588 2,963,172 2,957,589 2,958,428 2,950,014 2,933,195 2,936,905 2,943,747 2,944,677 2,923,417 2,960,239 2,947,424 2,928,555 2,920,767 2,937,768 2,954,877 2,954,126 2,957,590 2,936,079 2,944,678 2,963,173 2,919,818 2,921,695 2,921,696 2,951,595 2,957,591 2,944,679 2,956,689 2,950,015 2,962,170 2,920,768 2,933,196 2,940,606 2,954,127 2,965,243 2,938,634 2,953,258 2,954,878	136: 2,921,693 2,939,589 2,940,600 2,928,553 2,933,194 2,965,241 2,945,597 2,937,765 2,949,193 2,945,598 2,951,593 2,925,181 2,925,200 2,930,488 2,932,409 2,935,210 2,936,904 2,937,766 2,938,632 2,940,604 2,945,599 2,948,409 2,951,594 2,955,715 2,963,170 2,963,171 2,919,816 2,919,817 2,921,694 2,922,530 2,924,339 2,924,340 2,925,921 2,926,792 2,928,554 2,936,078 2,937,767 2,938,633 2,940,605 2,942,735 2,944,676 2,950,826 2,956,688 2,958,427 2,965,242 2,926,794 2,927,702 2,948,410 2,957,588 2,963,172 2,957,589 2,958,428 2,950,014 2,933,195 2,936,905 2,943,747 2,944,677 2,923,417 2,960,239 2,947,424 2,928,555 2,920,767 2,937,768 2,954,877 2,954,126 2,957,590 2,936,079 2,944,678 2,963,173 2,919,818 2,921,695 2,921,696 2,951,595 2,957,591 2,944,679 2,956,689 2,950,015 2,962,170 2,920,768 2,933,196 2,940,606 2,954,127 2,965,243 2,938,634 2,953,258 2,954,878	137: 2,928,553 2,933,194 2,965,241 2,945,597 2,937,765 2,949,193 2,945,598 2,951,593 2,925,181 2,925,200 2,930,488 2,932,409 2,935,210 2,936,904 2,937,766 2,938,632 2,940,604 2,945,599 2,948,409 2,951,594 2,955,715 2,963,170 2,963,171 2,919,816 2,919,817 2,921,694 2,922,530 2,924,339 2,924,340 2,925,921 2,926,792 2,928,554 2,936,078 2,937,767 2,938,633 2,940,605 2,942,735 2,944,676 2,950,826 2,956,688 2,958,427 2,965,242 2,926,794 2,927,702 2,948,410 2,957,588 2,963,172 2,957,589 2,958,428 2,950,014 2,933,195 2,936,905 2,943,747 2,944,677 2,923,417 2,960,239 2,947,424 2,928,555 2,920,767 2,937,768 2,954,877 2,954,126 2,957,590 2,936,079 2,944,678 2,963,173 2,919,818 2,921,695 2,921,696 2,951,595 2,957,591 2,944,679 2,956,689 2,950,015 2,962,170 2,920,768 2,933,196 2,940,606 2,954,127 2,965,243 2,938,634 2,953,258 2,954,878	138: 2,919,816 2,919,817 2,921,694 2,922,530 2,924,339 2,924,340 2,925,921 2,926,792 2,928,554 2,936,078 2,937,767 2,938,633 2,940,605 2,942,735 2,944,676 2,950,826 2,956,688 2,958,427 2,965,242 2,926,794 2,927,702 2,948,410 2,957,588 2,963,172 2,957,589 2,958,428 2,950,014 2,933,195 2,936,905 2,943,747 2,944,677 2,923,417 2,960,239 2,947,424 2,928,555 2,920,767 2,937,768 2,954,877 2,954,126 2,957,590 2,936,079 2,944,678 2,963,173 2,919,818 2,921,695 2,921,696 2,951,595 2,957,591 2,944,679 2,956,689 2,950,015 2,962,170 2,920,768 2,933,196 2,940,606 2,954,127 2,965,243 2,938,634 2,953,258 2,954,878	139: 2,945,597 2,937,765 2,949,193 2,945,598 2,951,593 2,925,181 2,925,200 2,930,488 2,932,409 2,935,210 2,936,904 2,937,766 2,938,632 2,940,604 2,945,599 2,948,409 2,951,594 2,955,715 2,963,170 2,963,171 2,919,816 2,919,817 2,921,694 2,922,530 2,924,339 2,924,340 2,925,921 2,926,792 2,928,554 2,936,078 2,937,767 2,938,633 2,940,605 2,942,735 2,944,676 2,950,826 2,956,688 2,958,427 2,965,242 2,926,794 2,927,702 2,948,410 2,957,588 2,963,172 2,957,589 2,958,428 2,950,014 2,933,195 2,936,905 2,943,747 2,944,677 2,923,417 2,960,239 2,947,424 2,928,555 2,920,767 2,937,768 2,954,877 2,954,126 2,957,590 2,936,079 2,944,678 2,963,173 2,919,818 2,921,695 2,921,696 2,951,595 2,957,591 2,944,679 2,956,689 2,950,015 2,962,170 2,920,768 2,933,196 2,940,606 2,954,127 2,965,243 2,938,634 2,953,258 2,954,878	140: 2,925,916 2,925,917 2,927,701 2,935,208 2,935,209 2,936,902 2,941,671 2,944,673 2,946,457 2,950,013 2,952,365 2,958,426 2,960,236 Re. 24,862 2,925,918 2,937,762 2,941,672 2,960,237 2,946,458 2,922,528 2,929,513 2,957,586 2,930,487 2,940,600 2,941,673 2,944,674 2,947,423 2,948,405 2,954,125 2,957,587 2,959,297 2,966,272 2,938,631 2,922,529 2,940,601 2,946,459 2,952,366 2,948,406 2,950,822 2,945,595 2,948,407 2,951,591 2,953,256 2,963,168 2,964,199 2,964,200 2,932,407 2,936,076 2,939,588 2,952,367 2,964,201 2,965,240 2,962,169 2,943,746 2,950,823 2,950,824 2,920,766 2,929,514 2,926,791 2,944,675 2,948,408 2,925,919 2,934,214 2,934,215 2,936,077 2,940,602 2,942,734 2,950,825 2,959,298 2,937,763 2,937,764 2,953,257 2,961,101 2,921,691 2,932,408 2,933,193 2,945,596 2,960,238	141: 2,922,536 2,931,525 2,947,430 2,927,700 2,961,106 2,965,253 2,929,521 2,936,086 2,959,305 2,959,306 2,940,623 2,926,799 2,924,345 2,926,800 2,959,307 2,963,183 2,919,823 2,921,701 2,926,801 2,962,177 2,925,928 2,926,802 2,940,624 2,944,687 2,944,688 2,948,424 2,958,433 2,959,308 2,928,562 2,931,526 2,936,916 2,949,199 2,932,417 2,953,265 2,925,185 2,935,215 2,946,470 2,951,602 2,930,501 2,950,829 2,941,682 2,927,707 2,921,702 2,929,522 2,935,216 2,936,087 2,949,200 2,952,372 2,962,178 2,935,217 2,936,917 2,948,425 2,951,603 2,919,824 2,926,803 2,939,593 2,948,426 2,921,703 2,923,424 2,942,743 2,943,753 2,943,754 2,951,604 2,931,527 2,964,204 2,952,373 2,959,309 2,926,804 2,934,228 2,959,310 2,924,346 2,954,136 2,936,088 2,931,528 2,937,774 2,963,184 2,936,918 2,942,744 2,961,107	142: 2,926,799 2,924,345 2,926,800 2,959,307 2,963,183 2,919,823 2,921,701 2,926,801 2,962,177 2,925,928 2,926,802 2,940,624 2,944,687 2,944,688 2,948,424 2,958,433 2,959,308 2,928,562 2,931,526 2,936,916 2,949,199 2,932,417 2,953,265 2,925,185 2,935,215 2,946,470 2,951,602 2,930,501 2,950,829 2,941,682 2,927,707 2,921,702 2,929,522 2,935,216 2,936,087 2,949,200 2,952,372 2,962,178 2,935,217 2,936,917 2,948,425 2,951,603 2,919,824 2,926,803 2,939,593 2,948,426 2,921,703 2,923,424 2,942,743 2,943,753 2,943,754 2,951,604 2,931,527 2,964,204 2,952,373 2,959,309 2,926,804 2,934,228 2,959,310 2,924,346 2,954,136 2,936,088 2,931,528 2,937,774 2,963,184 2,936,918 2,942,744 2,961,107	143: 2,945,597 2,937,765 2,949,193 2,945,598 2,951,593 2,925,181 2,925,200 2,930,488 2,932,409 2,935,210 2,936,904 2,937,766 2,938,632 2,940,604 2,945,599 2,948,409 2,951,594 2,955,715 2,963,170 2,963,171 2,919,816 2,919,817 2,921,694 2,922,530 2,924,339 2,924,340 2,925,921 2,926,792 2,928,554 2,936,078 2,937,767 2,938,633 2,940,605 2,942,735 2,944,676 2,950,826 2,956,688 2,958,427 2,965,242 2,926,794 2,927,702 2,948,410 2,957,588 2,963,172 2,957,589 2,958,428 2,950,014 2,933,195 2,936,905 2,943,747 2,944,677 2,923,417 2,960,239 2,947,424 2,928,555 2,920,767 2,937,768 2,954,877 2,954,126 2,957,590 2,936,079 2,944,678 2,963,173 2,919,818 2,921,695 2,921,696 2,951,595 2,957,591 2,944,679 2,956,689 2,950,015 2,962,170 2,920,768 2,933,196 2,940,606 2,954,127 2,965,243 2,938,634 2,953,258 2,954,878	144: 2,945,598 2,951,593 2,925,181 2,925,200 2,930,488 2,932,409 2,935,210 2,936,904 2,937,766 2,938,632 2,940,604 2,945,599 2,948,409 2,951,594 2,955,715 2,963,170 2,963,171 2,919,816 2,919,817 2,921,694 2,922,530 2,924,339 2,924,340 2,925,921 2,926,792 2,928,554 2,936,078 2,937,767 2,938,633 2,940,605 2,942,735 2,944,676 2,950,826 2,956,688 2,958,427 2,965,242 2,926,794 2,927,702 2,948,410 2,957,588 2,963,172 2,957,589 2,958,428 2,950,014 2,933,195 2,936,905 2,943,747 2,944,677 2,923,417 2,960,239 2,947,424 2,928,555 2,920,767 2,937,768 2,954,877 2,954,126 2,957,590 2,936,079 2,944,678 2,963,173 2,919,818 2,921,695 2,921,696 2,951,595 2,957,591 2,944,679 2,956,689 2,950,015 2,962,170 2,920,768 2,933,196 2,940,606 2,954,127 2,965,243 2,938,634 2,953,258 2,954,878	145: 2,928,557 2,929,517 2,932,407 2,935,207 2,935,208 2,936,902 2,941,671 2,944,673 2,946,457 2,950,013 2,952,365 2,958,426 2,960,236 Re. 24,862 2,925,918 2,937,762 2,941,672 2,960,237 2,946,458 2,922,528 2,929,513 2,957,586 2,930,487 2,940,600 2,941,673 2,944,674 2,947,423 2,948,405 2,954,125 2,957,587 2,959,297
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**Class 214—Con.**

303: 2,939,594  
 505: 2,932,418  
 2,934,229  
 2,936,919  
 2,937,775  
 2,937,776  
 2,938,642  
 2,954,137  
 2,954,887  
 2,963,185  
 2,963,186  
 506: 2,919,825  
 2,923,425  
 2,924,347  
 2,925,186  
 2,934,230  
 2,953,266  
 2,957,593  
 510: 2,939,595  
 2,958,434  
 511: 2,953,267  
 512: 2,935,218  
 2,959,311  
 514: 2,925,929  
 2,955,721  
 515: 2,925,930  
 2,948,427  
 2,956,699  
 516: 2,922,537  
 517: 2,933,213  
 518: 2,965,254  
 519: 2,931,529  
 620: 2,928,563  
 2,941,683  
 2,944,689  
 2,957,594  
 623: 2,924,348  
 628: 2,928,564  
 650: 2,942,745  
 651: 2,929,523  
 652: 2,931,530  
 2,932,419  
 2,941,684  
 2,953,268  
 2,958,435  
 2,964,205  
 653: 2,920,775  
 2,948,428  
 2,953,269  
 654: 2,939,596  
 2,950,830  
 655: 2,956,700  
 656: 2,920,776  
 657: 2,949,201  
 658: 2,932,420  
 2,945,608  
 2,945,609  
 2,949,202  
 2,954,138  
 660: 2,940,625  
 670: 2,962,179  
 671: 2,941,685  
 672: 2,943,755  
 673: 2,937,777  
 674: 2,921,704  
 2,923,426  
 2,929,524  
 2,962,180  
 700: 2,922,538  
 713: 2,959,312  
 730: 2,941,686  
 2,945,610  
 731: 2,950,831  
 2,958,436  
 2,959,313  
 750: 2,931,531  
 2,940,626  
 2,956,701

**Class 215**

1: 2,920,777  
 2,924,349  
 2,936,920  
 6: 2,936,089  
 2,949,203  
 2,965,255  
 7: 2,939,597  
 2,950,832  
 9: 2,921,705  
 2,947,431  
 2,960,247  
 2,964,206  
 2,964,207  
 10: 2,960,248  
 2,926,805  
 11: 2,927,708  
 2,939,598  
 2,942,746  
 2,956,702  
 2,959,314

12: 2,921,706  
 2,929,525  
 13: 2,925,187  
 2,934,231  
 2,954,888  
 2,963,187  
 2,963,188  
 21: 2,948,429  
 2,954,889  
 22: 2,953,270  
 37: 2,921,707  
 2,923,427  
 2,925,188  
 2,961,108  
 38: 2,953,271  
 2,954,139  
 39: 2,961,109  
 2,961,110  
 2,961,111  
 2,963,189  
 40: 2,920,778  
 2,952,374  
 2,957,595  
 2,964,208  
 41: 2,934,232  
 2,947,432  
 2,949,204  
 2,950,020  
 2,953,272  
 43: 2,965,256  
 45: 2,949,205  
 46: 2,926,806  
 2,937,778  
 2,942,747  
 47: 2,927,709  
 2,940,627  
 2,953,273  
 48: 2,921,708  
 2,940,628  
 2,944,690  
 52: 2,935,219  
 2,954,890  
 2,966,276  
 53: 2,940,629  
 56: 2,946,471  
 2,965,257  
 63: 2,944,691  
 2,950,833  
 87: 2,921,709  
 95: 2,950,834  
 100: 2,920,779  
 2,930,502  
 2,957,596  
 2,961,112  
 100.5: 2,929,526  
 2,955,722

**Class 216**

9: 2,920,780  
 2,939,599  
 12: 2,947,433  
 13: 2,925,931  
 2,940,630  
 2,946,472  
 20: 2,922,539  
 2,932,421  
 2,937,779  
 2,949,206  
 2,953,274  
 22: 2,926,807  
 25: 2,958,437  
 29: 2,922,540  
 2,939,600  
 2,952,375  
 33: 2,927,710  
 55: 2,935,921  
 2,952,376  
 60: 2,926,808  
 62: 2,956,703

**Class 217**

12: 2,920,781  
 2,939,601  
 2,961,113  
 13: 2,929,527  
 15: 2,936,090  
 22: 2,961,114  
 26.5: 2,934,233  
 2,936,922  
 2,939,602  
 27: 2,922,541  
 30: 2,926,809  
 32: 2,920,782  
 35: 2,951,605  
 42: 2,957,597  
 44: 2,946,473  
 53: 2,954,140  
 60: 2,929,528  
 2,943,756

65: 2,951,606  
 2,960,249  
 69: 2,961,115  
 76: 2,963,190  
 83: 2,952,377  
 98: 2,938,643  
 110: 2,950,835  
 124: 2,959,315

**Class 218**

5: 2,920,783  
 2,935,220  
 6: 2,951,607  
 2,953,275  
 15: 2,925,932  
 28: 2,930,503  
 29: 2,931,532  
 2,942,748  
 30: 2,934,234  
 34: 2,932,422  
 42: 2,941,687  
 2,965,258

**Class 219**

7.5: 2,922,014  
 2,930,877  
 2,945,934  
 2,958,753  
 8.5: 2,933,582  
 2,936,357  
 2,964,607  
 2,965,740  
 9.5: 2,920,171  
 2,925,485  
 2,926,231  
 2,928,923  
 2,948,796  
 2,962,574  
 2,966,571  
 10.41: 2,922,865  
 2,945,935  
 10.43: 2,926,232  
 2,957,064  
 10.47: 2,943,174  
 10.49: 2,935,589  
 10.53: 2,920,172  
 2,920,173  
 2,938,097  
 10.55: 2,920,174  
 2,921,171  
 2,923,801  
 2,929,905  
 2,937,259  
 2,943,175  
 2,944,133  
 2,956,143  
 2,956,144  
 2,958,754  
 2,959,659  
 2,961,520  
 10.61: 2,951,139  
 10.67: 2,950,374  
 10.69: 2,942,089  
 2,953,669  
 2,959,660  
 10.75: 2,933,583  
 2,938,098  
 2,954,453  
 2,964,608  
 10.77: 2,928,924  
 2,945,112  
 2,949,523  
 2,956,145  
 10.79: 2,929,906  
 2,933,584  
 2,947,841  
 2,948,797  
 19: Re.24,815  
 2,920,175  
 2,920,176  
 2,921,172  
 2,922,015  
 2,924,693  
 2,928,925  
 2,929,907  
 2,930,878  
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 2,931,880  
 2,932,710  
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 2,942,090  
 2,945,938  
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19: 2,951,141  
 2,952,761  
 2,953,670  
 2,954,454  
 2,954,455  
 2,955,184  
 2,955,185  
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 2,957,927  
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 2,961,524  
 2,963,565  
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 2,965,741  
 2,966,572  
 20: 2,921,173  
 2,921,174  
 2,926,233  
 2,927,186  
 2,927,989  
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 2,932,715  
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 2,935,590  
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 2,944,136  
 2,944,137  
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 26: 2,935,592  
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 2,955,187  
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 28: 2,931,881  
 32: 2,922,016  
 2,932,716  
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 2,937,260  
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 34: 2,922,866  
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 35: 2,920,177  
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 37: 2,921,176  
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 2,938,102  
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 2,943,178  
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38: 2,920,178  
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 39: Re.24,861  
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 43: 2,932,718  
 2,945,114  
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 44: 2,923,803  
 2,923,804  
 2,923,805  
 2,924,698  
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 2,937,261  
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 2,963,569  
 46: 2,922,867  
 2,929,909  
 2,932,719  
 2,936,360  
 2,938,103  
 2,938,991  
 2,938,992  
 2,945,115  
 2,948,802  
 2,953,671  
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 50: 2,923,806  
 57: 2,923,806  
 58: 2,955,192  
 59: 2,961,527  
 2,943,179  
 2,960,593  
 63: 2,964,610  
 67: 2,922,019  
 2,922,020  
 2,923,807  
 2,931,885  
 2,938,993  
 2,942,091  
 2,950,376  
 69: 2,920,180  
 2,922,021  
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 2,923,808  
 2,923,809  
 2,924,701  
 2,927,190  
 2,927,191  
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 2,939,941  
 2,942,092  
 2,945,936  
 2,951,142  
 2,951,930  
 2,962,577  
 2,966,574  
 71: 2,953,672  
 72: 2,932,720  
 73: 2,927,990  
 2,945,116  
 2,945,937  
 2,951,931  
 2,955,193  
 2,965,743  
 74: 2,920,181  
 2,922,023  
 2,929,910  
 2,929,911  
 2,929,912  
 2,932,721  
 2,932,722  
 2,932,723  
 2,938,994  
 2,939,942  
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 2,948,803  
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 2,950,378  
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 2,958,756  
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 2,963,570

75: 2,922,024  
 2,922,868  
 2,922,869  
 2,932,724  
 2,941,063  
 2,949,526  
 2,951,143  
 2,960,594  
 2,966,575  
 76: 2,931,886  
 2,939,943  
 2,929,913  
 2,936,361  
 2,939,944  
 2,951,932  
 79: 2,928,928  
 2,942,093  
 2,951,144  
 2,951,933  
 2,957,070  
 2,928,929  
 81: 2,922,025  
 2,928,930  
 2,930,882  
 2,942,094  
 2,957,975  
 2,957,976  
 82: 2,938,995  
 2,945,939  
 2,957,071  
 83: 2,947,848  
 2,951,145  
 85: 2,928,931  
 2,933,588  
 2,943,181  
 2,951,146  
 2,953,673  
 86: 2,948,804  
 2,958,757  
 87: 2,923,810  
 2,927,991  
 2,964,611  
 89: 2,927,192  
 2,929,915  
 2,938,996  
 2,953,674  
 90: 2,922,026  
 2,961,527  
 2,943,179  
 92: 2,941,064  
 93: 2,942,095  
 95: 2,921,177  
 97: 2,926,235  
 98: Re.24,832  
 2,935,595  
 2,938,105  
 2,941,065  
 2,942,096  
 2,945,118  
 2,961,528  
 2,962,578  
 99: 2,936,362  
 2,941,066  
 2,950,379  
 2,950,380  
 100: 2,927,193  
 2,937,262  
 2,945,940  
 101: 2,935,596  
 102: 2,920,182  
 107: 2,931,887  
 2,931,888  
 2,933,589  
 2,933,590  
 2,960,595  
 2,965,744  
 108: 2,927,194  
 110: 2,942,097  
 113: 2,960,596  
 116: Re.24,838  
 120: 2,929,916  
 121: 2,921,178  
 2,923,811  
 2,942,098  
 2,943,182  
 123: 2,920,183  
 2,931,889  
 2,936,363  
 2,944,140  
 2,945,119  
 124: 2,938,997  
 2,945,941  
 125: 2,921,179  
 2,922,870  
 2,927,992  
 2,929,917  
 2,930,883  
 2,938,106  
 2,941,067  
 2,956,147  
 2,960,597  
 2,966,576

126: 2,949,527  
 127: 2,950,381  
 2,957,977  
 2,965,745  
 130: 2,927,195  
 2,931,890  
 2,933,591  
 2,934,632  
 2,951,934  
 2,952,766  
 2,960,598  
 2,966,577  
 131: 2,922,871  
 2,933,592  
 2,938,107  
 2,944,141  
 135: 2,936,364  
 137: 2,927,196  
 2,928,932  
 2,933,593  
 2,933,594  
 2,945,942  
 2,948,805  
 2,962,579  
 2,965,746  
 138: 2,922,027  
 2,930,884  
 2,936,365  
 2,946,878  
 2,949,528  
 2,954,458  
 140: 2,935,597  
 144: 2,943,183  
 145: 2,922,028  
 146: 2,938,108  
 2,944,142  
 2,964,612  
 147: 2,928,933  
 2,945,943  
 149: 2,938,998  
 2,952,767  
 2,956,148  
 150: 2,947,849  
 151: 2,925,486  
 2,960,599  
 152: 2,953,674  
 2,958,758  
 2,958,759  
 153: 2,960,600  
 155: 2,931,891  
 2,954,459  
 156: 2,926,235  
 2,931,892  
 161: 2,922,872  
 2,961,529

**Class 220**

1: 2,920,784  
 2,950,836  
 2,959,316  
 2,962,181  
 2,963,191  
 1.5: 2,919,826  
 2.1: 2,936,923  
 2.3: 2,920,785  
 2,920,786  
 2,925,189  
 2,936,924  
 2,941,688  
 3: 2,933,214  
 2,938,644  
 2,962,182  
 2,964,209  
 3.4: 2,929,529  
 2,930,504  
 2,931,533  
 2,936,091  
 3.6: 2,957,598  
 3.7: 2,919,827  
 2,936,092  
 2,950,837  
 3.9: 2,943,757  
 4: 2,935,221  
 2,938,645  
 2,939,603  
 2,942,749  
 2,943,758  
 2,947,434  
 2,947,435  
 2,957,599  
 2,959,317  
 2,964,210  
 5: 2,952,378  
 2,953,276  
 6: 2,942,750  
 2,952,379  
 2,963,192  
 2,965,259  
 8: 2,925,933



9: 2,928,565 2,928,566 2,937,780 2,944,692 2,944,693 2,948,430 2,951,608 2,954,891 2,961,116 2,962,183	44: 2,936,094 2,944,699 2,964,214 45: 2,946,476 46: 2,920,789 2,922,542 2,929,531 2,937,782 2,950,838 2,954,896 2,956,704 2,959,322 47: 2,950,022 48: 2,958,440 52: 2,924,353 2,928,569 2,933,215 2,942,755 2,950,023 2,954,142 2,958,441 2,961,120 2,963,196 54: 2,946,477 2,946,478 55: 2,943,759 2,946,479 2,953,277 55.3: 2,938,647 2,938,648 2,938,649 55.7: 2,962,186 2,964,215 60: 2,962,187 63: 2,927,712 2,939,606 2,947,441 2,958,442 64: 2,923,431 2,934,235 2,947,442 2,950,839 2,964,216 67: 2,953,278 2,960,255 69: 2,925,192 2,949,209 2,951,612 70: 2,957,607 72: 2,938,649 74: 2,963,197 75: 2,943,760 80: 2,956,705 81: 2,925,193 2,934,236 2,951,613 82: 2,922,543 85: 2,927,713 2,928,570 2,932,423 2,936,927 2,940,634 2,944,700 2,945,611 2,948,432 2,960,256 2,961,121 86: 2,962,188 89: 2,920,790 2,922,544 2,924,354 2,934,237 2,947,443 2,951,614 2,952,383 2,953,279 2,954,897 90: 2,919,828 2,941,692 2,943,761 2,945,612 2,960,257 91: 2,935,227 2,936,928 2,957,600 94: 2,937,783 2,951,615 2,961,122 95: 2,950,840 2,931,535 2,936,929 2,939,607 2,957,601 2,964,217 102: 2,923,432 2,948,433 2,954,898 2,949,208 2,958,443 2,961,123 104: 2,961,124	105: Re.24,789 2,943,762 110: Re.24,785 2,954,899 112: 2,963,198 113: 2,920,791 2,932,424 2,932,425 2,942,756 2,957,602 115: 2,919,829 2,943,763 2,959,323 2,965,261	243: 2,934,240 2,946,483 247: 2,928,571 2,935,228 248: 2,937,787 2,944,704 251: 2,931,537 2,948,435 2,950,842 257: 2,965,264 265: 2,923,436 2,930,509 266: 2,923,437 279: 2,960,259 289: 2,926,815 2,930,510 298: 2,937,788 299: 2,947,447 307: 2,966,280	Class 221 7: 2,949,210 10: 2,962,189 11: 2,919,830 2,925,194 2,929,532 2,955,724 2,957,603 13: 2,944,702 2,963,199 14: 2,956,706 15: 2,936,930 2,950,024 2,953,280 19: 2,923,433 21: 2,923,434 2,935,224 24: 2,954,143 36: 2,932,426 2,934,238 41: 2,931,536 47: 2,923,435 48: 2,927,717 63: 2,926,813 67: 2,937,784 2,929,533 2,951,616 68: 2,942,757 2,943,764 73: 2,933,216 75: 2,961,125 88: 2,957,607 90: 2,936,931 2,940,635 2,950,025 2,956,707 92: 2,925,195 2,941,693 93: 2,947,444 2,960,258 104: 2,940,636 2,952,384 2,956,709 54: 2,948,436 55: 2,921,712 2,922,550 2,932,430 56: 2,921,713 58: 2,920,793 60: 2,940,639 63: 2,920,794 2,952,390 2,963,201 65: 2,957,606 67: 2,921,714 70: 2,921,715 2,928,573 2,938,650 2,948,437 2,949,212 2,951,617 2,951,618 2,953,281 2,961,127 2,965,266 2,966,278 76: 2,929,535 2,944,703 2,955,726 79: 2,936,997 80: 2,925,937 2,935,230 2,952,391 82: 2,939,609 2,954,144 86: 2,919,835 88: 2,950,843 2,965,267 90: 2,933,218 2,936,908 91: 2,925,199 92: 2,921,716 2,947,448 2,950,027 93: 2,932,431	Class 222 1: 2,919,832 2,925,197 2,926,816 2,934,241 2,937,789 2,959,325 2,965,265 2: 2,923,438 2,932,429 3: 2,930,511 4: 2,956,708 5: 2,919,833 2,921,711 2,946,484 2,959,326 14: 2,936,096 2,961,126 17: 2,940,638 2,955,725 20: 2,925,936 2,929,534 26: 2,931,538 2,963,200 28: 2,927,716 29: 2,962,191 30: 2,935,229 2,946,485 32: 2,925,198 34: 2,942,759 35: 2,928,572 38: 2,946,486 2,952,386 41: 2,939,608 43: 2,922,549 52: 2,919,834 2,952,387 2,952,388 2,952,389 2,956,709 54: 2,948,436 55: 2,921,712 2,922,550 2,932,430 56: 2,921,713 58: 2,920,793 60: 2,940,639 63: 2,920,794 2,952,390 2,963,201 65: 2,957,606 67: 2,921,714 70: 2,921,715 2,928,573 2,938,650 2,948,437 2,949,212 2,951,617 2,951,618 2,953,281 2,961,127 2,965,266 2,966,278 76: 2,929,535 2,944,703 2,955,726 79: 2,936,997 80: 2,925,937 2,935,230 2,952,391 82: 2,939,609 2,954,144 86: 2,919,835 88: 2,950,843 2,965,267 90: 2,933,218 2,936,908 91: 2,925,199 92: 2,921,716 2,947,448 2,950,027 93: 2,932,431	94: 2,925,938 2,935,231 2,937,790 2,939,610 2,944,704 2,944,705 2,947,449 2,959,327 95: 2,937,791 2,950,028 2,966,282 101: 2,921,717 2,964,218 103: 2,921,718 105: 2,944,706 107: 2,941,694 2,942,760 2,946,487 2,956,710 2,962,192 108: 2,928,574 110: 2,943,765 129: 2,919,836 129.4: 2,954,145 130: 2,925,200 2,926,817 131: 2,920,795 2,939,611 132: 2,941,695 134: 2,946,488 135: 2,921,719 2,926,818 136: 2,941,696 2,947,450 142: 2,926,819 2,922,551 2,934,242 143: 2,950,029 2,950,844 144.5: 2,937,792 2,963,202 145: 2,919,837 2,925,939 2,934,243 2,948,438 2,962,193 146: 2,923,439 154: 2,921,720 160: 2,941,697 2,946,489 2,949,213 161: 2,957,608 162: 2,935,232 2,942,761 167: 2,925,940 170: 2,956,711 173: 2,936,932 176: 2,923,440 2,955,727 2,959,328 177: 2,925,201 2,940,640 178: 2,959,329 180: 2,943,766 181: 2,939,612 2,939,613 2,959,330 2,959,341 182: 2,947,451 2,961,128 183: 2,940,641 2,948,439 2,954,901 2,958,444 2,966,283 184: 2,940,642 185: 2,920,796 2,922,552 2,962,194 187: 2,947,452 189: 2,935,233 2,936,099 2,937,793 2,950,030 190: 2,925,202 2,939,614 192: 2,951,619 193: 2,928,575 2,935,234 2,954,146 2,961,129 2,965,268 195: 2,930,512 2,965,269 196: 2,953,282 197: 2,926,820 199: 2,935,235 207: 2,923,441 2,939,615 2,942,762 2,943,767 209: 2,966,284	212: 2,957,609 213: 2,927,717 216: 2,941,698 227: 2,925,203 2,933,219 2,946,490 239: 2,924,358 2,954,902 250: 2,954,147 254: 2,925,941 2,944,707 310: 2,934,244 327: 2,920,797 2,923,442 2,941,699 2,943,768 330: 2,934,245 333: 2,940,643 2,961,130 2,963,203 338: 2,938,651 345: 2,940,644 2,966,285 352: 2,933,220 364: 2,943,769 368: 2,921,721 370: 2,950,845 380: 2,923,443 2,964,219 381: 2,949,214 385: 2,951,620 386: 2,936,933 2,958,445 386.5: 2,924,359 2,925,942 2,930,513 2,955,728 391: 2,933,221 2,920,798 2,921,722 2,924,360 2,928,576 2,931,540 2,932,433 2,932,433 2,932,433 2,933,222 2,941,700 2,950,031 2,953,283 2,953,284 2,954,903 2,954,904 2,957,610 2,957,611 2,961,131 2,962,195 2,964,220 2,965,270 396: 2,936,100 399: 2,950,846 2,962,196 400.7: 2,934,246 2,955,729 409: 2,941,701 410: 2,923,444 2,938,652 425: 2,925,943 2,935,236 431: 2,925,204 440: 2,943,770 2,952,392 455: 2,956,712 464: 2,956,713 465: 2,950,032 2,950,847 2,963,204 473: 2,937,794 2,960,280 475: 2,960,261 480: 2,940,645 2,957,612 2,961,132 483: 2,954,905 484: 2,936,934 2,963,205 490: 2,937,795 2,949,215 498: 2,931,541 500: 2,931,542 501: 2,921,723 503: 2,932,435 512: 2,939,616 2,943,771 525: 2,936,935 530: 2,930,514 531: 2,923,445 536: 2,938,653 539: 2,947,453 541: 2,920,799 2,932,436 2,954,148	542: 2,965,271 545: 2,946,491 2,948,440 546: 2,931,543 548: 2,961,133 551: 2,950,033 553: 2,944,708 2,966,286 555: 2,928,577 556: 2,939,617 562: 2,921,724 567: 2,953,285 570: 2,923,446 572: 2,922,553	Class 223 1: 2,954,906 2,963,206 2: 2,919,838 25: 2,935,237 2,958,446 30: 2,921,725 2,923,447 2,954,907 33: 2,924,361 37: 2,921,726 2,950,848 38: 2,929,537 2,934,247 43: 2,931,544 2,944,709 2,957,613 2,964,221 46: 2,933,223 49: 2,955,730 51: 2,966,287 52.1: 2,931,545 2,942,763 2,948,441 2,954,149 57: 2,943,772 2,948,442 2,959,331 2,966,288 61: 2,922,554 63: 2,923,448 2,943,773 66: 2,926,821 2,951,621 67: 2,921,727 2,927,718 2,948,443 68: 2,922,555 2,925,944 2,946,492 2,948,445 69: 2,923,449 2,929,538 2,958,447 70: 2,925,945 2,948,446 71: 2,940,646 73: 2,931,546 2,944,710 74: 2,948,447 2,956,714 83: 2,941,702 85: 2,940,647 87: 2,941,703 88: 2,920,800 2,943,774 89: 2,926,822 2,966,289 91: 2,924,362 2,963,207 92: 2,946,493 93: 2,921,728 2,924,363 94: 2,926,823 2,941,704 2,944,711 2,959,332 95: 2,919,839 2,922,556 2,926,824 2,931,547 2,940,648 2,940,649 2,954,150 96: 2,920,801 2,940,650 2,961,134 98: 2,931,548 2,937,796 2,941,705 2,948,448 2,960,262 101: 2,953,286 107: 2,933,224
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**Class 223—Con.**

111: 2,919,840  
113: 2,939,618

**Class 224**

1: 2,929,539  
2,948,449  
2,958,448  
2: 2,951,622  
4: 2,924,364  
2,926,825  
2,937,797  
2,937,798  
2,947,455  
2,958,449  
5: 2,923,450  
2,926,826  
2,943,775  
2,945,614  
2,947,456  
2,954,909  
2,956,713  
7: 2,959,333  
9: 2,964,222  
25: 2,925,205  
26: 2,940,651  
28: 2,961,135  
29: 2,962,197  
2,962,197  
2,947,457  
2,960,263  
2,962,198  
2,966,290  
32: 2,944,712  
42.03: 2,950,034  
42.08: 2,941,706  
42.1: 2,919,841  
2,920,802  
2,922,557  
2,940,652  
2,948,450  
42.21: 2,956,716  
42.23: 2,958,450  
42.24: 2,931,549  
42.42: 2,931,550  
2,934,248  
42.44: 2,953,287  
2,964,223  
42.45: 2,920,803  
2,926,827  
42.46: 2,926,828  
2,933,225  
2,953,288  
45: 2,922,558  
2,925,206  
2,944,713  
2,947,458  
46: 2,943,776

**Class 225**

1: 2,950,035  
2,956,717  
4: 2,925,946  
7: 2,925,207  
12: 2,919,842  
13: 2,933,226  
20: 2,954,910  
23: 2,938,654  
33: 2,941,707  
37: 2,923,451  
2,962,199  
38: 2,943,777  
2,948,451  
43: 2,936,936  
47: 2,924,365  
2,929,540  
2,934,249  
48: 2,936,937  
2,965,272  
51: 2,929,541  
2,942,764  
54: 2,951,623  
64: 2,938,655  
66: 2,924,366  
78: 2,963,208  
82: 2,936,938  
93: 2,923,452  
2,931,551  
94: 2,942,765  
97: 2,961,136  
98: 2,939,619  
101: 2,930,515  
2,931,552  
2,964,224

**Class 226**

2: 2,966,291  
4: 2,955,731

7: 2,953,289  
9: 2,954,865  
29: 2,951,698  
32: 2,955,821  
50: 2,956,718  
53: 2,961,137  
95: 2,954,911  
2,955,732  
2,962,200  
97: 2,952,393  
109: 2,962,282  
2,964,313  
111: 2,957,574  
117: 2,958,451  
135: 2,961,090  
136: 2,964,225  
141: Re.24,883  
150: 2,965,273  
151: 2,953,290  
153: 2,953,291  
154: 2,957,689  
172: 2,950,810  
2,961,138  
176: 2,959,334

**Class 229**

1.5: 2,920,804  
2,925,208  
2,932,437  
2,948,452  
2,949,216  
2,962,201  
2,965,274  
2,966,292  
2.5: 2,920,805  
2,924,367  
2,924,368  
2,933,227  
2,941,708  
3.1: 2,942,766  
3.5: 2,924,369  
2,926,829  
2,954,912  
5.5: 2,944,714  
6: 2,928,578  
2,934,250  
2,955,733  
2,961,139  
7: 2,920,806  
2,930,516  
2,948,453  
2,955,000  
2,957,614  
8: 2,936,939  
2,950,849  
8.5: 2,943,778  
11: 2,929,542  
14: 2,922,559  
2,925,947  
2,926,830  
2,927,720  
2,930,517  
2,932,438  
2,933,228  
2,933,229  
2,934,251  
2,936,101  
2,937,799  
2,939,620  
2,941,709  
2,944,715  
2,944,716  
2,946,494  
2,947,459  
2,947,460  
2,950,036  
2,950,037  
2,950,038  
2,950,039  
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2,959,335  
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2,961,141  
2,965,275  
15: 2,925,209  
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2,958,452  
16: 2,936,940  
2,942,767  
2,942,768  
2,946,495  
2,950,850  
2,953,292  
2,955,734  
2,957,615  
2,966,293  
17: Re.24,839  
2,919,843  
2,925,948  
2,928,579  
2,931,553

17: 2,931,554  
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19: 2,954,151  
20: 2,951,625  
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21: 2,964,227  
22: 2,935,238  
23: 2,921,729  
2,925,210  
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2,944,717  
2,947,462  
2,948,454  
2,950,852  
2,965,276  
24: 2,950,853  
26: 2,959,337  
27: 2,927,721  
2,959,338  
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28: 2,919,844  
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32: 2,926,831  
33: 2,920,807  
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34: 2,924,372  
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35: 2,934,252  
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36: 2,925,212  
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37: 2,926,832  
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2,962,202  
2,965,280  
38: 2,950,040  
39: 2,928,581  
2,939,622  
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2,943,780  
2,948,456  
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40: 2,922,561  
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41: 2,950,042  
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42: 2,920,808  
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43: 2,922,563  
2,923,453  
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45: 2,925,950  
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46: 2,922,566  
48: 2,956,723  
49: 2,920,809  
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51: 2,923,454  
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2,936,103  
2,936,104  
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2,953,293  
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52: 2,921,730  
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2,923,455  
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2,935,240  
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2,942,771  
2,946,501  
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53: 2,935,241  
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54: 2,924,374  
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55: 2,923,456  
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56: 2,922,568  
2,948,457  
62.5: 2,927,722  
2,946,502  
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63: 2,955,741  
66: 2,923,457  
2,934,255  
2,943,781  
2,945,615  
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67: 2,920,810  
68: 2,945,616  
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69: 2,920,811  
70: 2,931,557  
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72: 2,931,558  
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73: 2,928,583  
2,931,559  
2,936,946  
2,941,711  
2,964,232  
2,964,233  
76: 2,921,731  
77: 2,925,951  
80: 2,944,728  
85: 2,962,205  
86: 2,927,723  
2,954,916  
2,956,727  
87: 2,919,846  
2,937,800  
2,940,655  
2,965,283  
92.3: 2,950,045  
92.9: 2,930,519  
93: 2,953,369

**Class 230**

1: 2,956,728  
2,958,454  
2: 2,921,732  
2,926,835  
2,931,560  
5: 2,961,146  
7: 2,920,812  
2,937,801  
2,955,742  
9: 2,961,147  
11: 2,935,242  
18: 2,966,295  
19: 2,955,743  
20: 2,943,782  
2,964,234  
21: 2,934,256  
25: 2,964,235  
30: 2,936,106  
2,956,729  
31: 2,961,148  
45: 2,935,243  
2,936,107  
2,958,455  
2,965,284  
53: 2,954,155  
55: 2,942,772  
2,954,917  
2,961,149  
56: 2,928,584  
2,945,618  
2,953,294  
2,954,918  
58: 2,935,244  
2,948,458  
2,952,400  
2,956,730  
2,963,216  
60: 2,925,214  
2,940,656  
2,940,660  
2,927,725  
2,937,805  
2,938,661  
2,944,731  
133: 2,928,586  
2,930,521  
2,951,632  
2,956,734  
2,965,286  
134: 2,920,813  
2,923,462  
2,925,953  
2,928,587  
2,929,549  
2,932,445  
2,932,446  
2,937,806  
2,938,662  
2,947,469  
2,950,858  
2,952,404  
2,958,459  
2,960,207  
2,965,287  
135: 2,932,447  
2,955,748  
138: 2,938,663  
2,942,774  
139: 2,920,814  
2,928,588  
2,937,807  
2,940,661  
2,943,785  
2,950,046  
141: 2,934,260  
2,938,664  
2,939,628  
2,944,732  
143: 2,935,247

115: 2,929,547  
2,955,745  
2,958,457  
116: Re.24,810  
2,922,569  
2,925,215  
2,926,836  
2,929,548  
2,938,659  
2,939,626  
2,940,658  
2,945,619  
2,958,458  
2,961,150  
2,966,296  
117: 2,922,570  
2,923,460  
2,926,837  
2,926,838  
2,931,562  
2,932,441  
2,936,947  
2,937,803  
2,939,627  
2,947,467  
2,956,731  
2,964,236  
118: 2,954,157  
2,954,919  
119: 2,947,468  
2,962,206  
2,955,742  
120: 2,923,461  
2,927,724  
2,935,246  
2,936,948  
2,940,659  
2,952,403  
2,953,295  
2,955,746  
122: 2,925,216  
2,931,563  
2,932,442  
2,932,443  
2,933,238  
2,934,259  
2,944,729  
2,951,631  
2,956,732  
2,956,733  
123: 2,955,747  
124: 2,937,804  
2,949,224  
125: 2,942,773  
127: 2,925,952  
2,926,839  
2,944,730  
2,945,620  
2,956,736  
128: 2,938,660  
2,966,297  
129: 2,932,444  
130: 2,940,660  
132: 2,927,725  
2,937,805  
2,938,661  
2,944,731  
133: 2,928,586  
2,930,521  
2,951,632  
2,956,734  
2,965,286  
134: 2,920,813  
2,923,462  
2,925,953  
2,928,587  
2,929,549  
2,932,445  
2,932,446  
2,937,806  
2,938,662  
2,947,469  
2,950,858  
2,952,404  
2,958,459  
2,960,207  
2,965,287  
135: 2,932,447  
2,955,748  
138: 2,938,663  
2,942,774  
139: 2,920,814  
2,928,588  
2,937,807  
2,940,661  
2,943,785  
2,950,046  
141: 2,934,260  
2,938,664  
2,939,628  
2,944,732  
143: 2,935,247

147: 2,929,550  
2,933,239  
149: 2,965,288  
150: 2,956,735  
152: 2,936,949  
158: 2,961,151  
160: 2,947,470  
168: 2,920,815  
169: 2,956,737  
172: 2,955,749  
186: 2,929,551  
187: 2,955,750  
188: 2,956,738  
190: 2,946,503  
2,963,217  
206: 2,919,847  
2,926,840  
2,930,522  
2,963,218  
207: 2,951,633  
209: 2,925,954  
221: 2,925,955  
231: 2,935,248  
2,957,620  
232: 2,928,589  
2,948,461  
235: 2,929,552  
2,965,289  
238: 2,942,775  
259: 2,928,590  
2,933,240  
2,933,241  
2,950,859  
2,951,634  
2,957,621  
2,961,152  
270: 2,956,739  
274: 2,936,109  
275: 2,923,463

**Class 232**

1: 2,950,860  
4: 2,955,752  
2,961,153  
16: 2,964,237  
24: 2,945,621  
25: 2,960,265  
34: 2,927,726  
35: 2,924,376  
2,927,727  
2,939,629  
2,954,920  
36: 2,921,734  
43.2: 2,924,377  
44: 2,921,735  
2,934,261  
57.5: 2,922,671  
2,951,635

**Class 233**

2: 2,928,591  
4: 2,955,753  
7: 2,919,848  
13: 2,936,110  
2,947,471  
14: 2,958,461  
15: 2,948,462  
18: 2,963,219  
19: 2,941,712  
2,947,472  
2,961,154  
20: 2,955,754  
28: 2,940,662  
29: 2,923,464  
45: 2,958,462  
46: 2,924,378  
2,928,592

**Class 234**

30: 2,965,170  
49: 2,956,740  
58: 2,964,238  
59: 2,965,169  
79: 2,964,239  
100: 2,932,447  
119: 2,960,163  
128: 2,962,208

**Class 235**

1: 2,920,816  
2,935,249  
2,948,463  
2,965,290  
6: 2,941,713  
2,941,714  
2,962,209  
7: 2,927,201  
2,950,047



8: 2,954,158	61.7: 2,920,818	144: 2,930,528	176: 2,920,824	9: 2,933,256	23: 2,922,582	278: 2,965,308
23: 2,936,111	2,925,957	2,932,448	2,920,825	2,936,122	24: 2,948,476	284: 2,941,728
2,941,715	2,939,631	2,934,266	2,920,826	2,952,409	2,956,749	2,961,168
30: 2,962,210	2,943,787	2,935,257	2,921,737	11: 2,935,262	25: 2,924,390	2,962,223
50: 2,943,786	2,944,734	2,949,229	2,922,577	12: 2,923,478	31: 2,949,234	286: 2,947,483
55: 2,953,296	2,948,468	2,929,555	2,926,851	12: 2,932,452	33: 2,943,794	288: 2,928,610
56: 2,940,663	2,949,222	2,934,267	2,927,733	2,932,453	35: 2,942,786	305: 2,943,797
58: 2,934,262	2,954,159	2,936,114	2,930,530	2,932,454	36: 2,959,354	308: 2,951,644
2,948,464	2,965,291	2,944,737	2,931,572	2,943,792	45: 2,961,167	310: 2,965,309
2,948,465	61.8: 2,928,595	2,944,737	2,933,252	2,950,055	52: 2,946,511	314: 2,940,673
2,948,466	61.9: 2,919,851	2,961,159	2,933,253	2,951,641	56: 2,958,469	318: 2,946,519
59: 2,935,250	2,927,430	2,963,222	2,934,271	13: 2,922,580	57: 2,923,479	322: 2,953,304
2,953,297	2,927,730	2,966,302	2,943,791	2,936,123	60: 2,962,219	326: 2,921,745
60: 2,940,664	2,941,717	2,923,470	2,956,748	2,948,475	61: 2,941,725	327: 2,924,393
2,941,716	2,943,788	2,924,381	2,958,465	2,957,628	63: 2,946,512	2,961,169
2,942,776	2,946,504	2,933,249	2,963,223	2,957,629	67: 2,928,606	330: 2,959,358
2,945,622	2,958,463	153: 2,919,854	2,923,476	2,961,163	75: 2,959,355	335: 2,980,532
60.13: 2,931,564	62: 2,931,568	2,954,164	2,924,272	15: 2,931,575	77: 2,938,672	337: 2,951,646
60.18: 2,954,922	2,956,164	2,955,756	2,949,231	21: 2,929,557	2,965,302	338: 2,966,312
60.2: 2,930,523	63: 2,919,853	2,957,626	2,954,928	2,936,124	83: 2,960,274	346: 2,931,580
2,954,921	2,922,572	2,959,351	2,953,302	26: 2,942,784	85: 2,957,630	353: 2,926,857
60.28: 2,961,155	2,922,574	2,965,296	178: 2,953,302	2,949,235	2,960,275	2,953,305
60.29: 2,927,729	2,926,845	154: 2,932,449	179: 2,920,827	32: 2,950,865	87: 2,935,264	354: 2,923,481
60.31: 2,951,636	2,926,846	2,935,258	2,937,811	34: 2,926,853	90: 2,951,643	361: 2,961,170
60.33: 2,955,755	2,928,597	2,942,779	2,938,669	2,929,558	91: 2,946,513	373: 2,954,935
60.48: 2,926,841	2,933,247	2,950,052	2,942,781	2,931,576	97: 2,962,220	380: 2,955,765
60.5: 2,927,728	2,935,253	2,954,165	2,954,929	2,960,270	99: 2,929,564	383: 2,949,241
61: 2,919,849	2,935,254	155: 2,923,471	2,955,761	34.5: 2,919,860	100: 2,959,356	387: 2,939,637
2,924,379	2,936,952	2,924,382	2,924,384	2,954,930	107: 2,928,607	391: 2,965,310
2,926,842	2,937,809	2,928,600	2,936,119	44: 2,961,164	2,935,265	403: 2,965,311
2,926,843	2,946,505	2,929,556	2,950,862	48: 2,925,221	109: 2,936,958	405: 2,933,259
2,929,553	2,946,506	2,945,625	2,921,738	2,948,477	2,954,170	2,948,478
2,930,524	2,947,476	156: 2,944,738	2,938,670	49: 2,927,736	110: 2,950,061	407: 2,953,306
2,931,565	2,950,051	157: 2,925,218	182: 2,922,782	55: 2,929,559	111: 2,921,741	2,965,312
2,932,242	2,952,406	2,927,732	183: 2,928,602	56: 2,961,165	117: 2,952,412	413: 2,940,674
2,933,243	2,954,924	2,939,634	2,947,480	59: 2,964,243	120: 2,949,239	2,948,479
2,933,244	2,956,742	2,962,213	2,949,232	68: 2,932,455	124: 2,942,787	414: 2,958,471
2,936,950	64.7: 2,960,267	2,965,297	2,950,053	2,932,456	125: 2,921,742	417: 2,926,858
2,936,951	70: 2,940,665	158: 2,934,268	2,951,638	2,936,125	2,924,391	418: 2,948,480
2,937,808	2,956,743	2,964,242	2,955,762	78: 2,931,577	127: 2,936,959	424: 2,945,629
2,947,473	73: 2,956,744	159: 2,920,820	2,958,466	2,949,237	2,946,514	427: Re.24,771
2,950,048	2,957,624	2,924,383	185: 2,934,273	2,954,931	128: 2,943,795	430: 2,941,729
2,952,405	78: 2,954,162	2,932,450	186: 2,947,481	80: 2,933,257	129: 2,926,855	431: 2,929,567
2,953,298	2,965,292	2,933,250	2,948,472	2,946,508	132: 2,962,221	2,940,675
2,957,622	79: 2,947,477	2,934,269	2,949,233	2,959,352	133: 2,924,392	2,950,062
2,959,346	82: 2,928,598	2,942,780	2,965,299	2,966,308	137: 2,942,788	2,950,063
2,959,347	2,965,293	2,951,637	187: 2,919,856	84: 2,941,723	139: 2,923,480	2,962,224
2,961,156	83: 2,961,157	2,954,166	2,953,303	87: 2,946,506	2,941,726	2,962,225
61.1: 2,960,266	2,966,298	2,954,926	188: 2,924,385	92: 2,960,271	150: 2,964,245	2,962,226
2,962,211	88: 2,934,264	2,954,927	2,936,120	99: 2,924,388	157: 2,963,226	434: 2,930,533
61.11: 2,921,736	2,943,789	2,923,472	189: 2,922,578	2,958,467	166: 2,965,304	2,942,791
2,924,380	91: 2,927,731	2,930,529	2,926,852	102: 2,926,854	172: 2,928,611	439: 2,928,611
2,926,844	2,940,666	2,936,956	2,927,734	2,961,166	177: 2,941,727	441: 2,925,223
2,928,596	2,949,227	2,947,478	2,928,603	Class 237	179: 2,931,579	443: 2,954,172
2,933,245	92: 2,919,853	2,954,167	2,931,573	1: 2,931,578	184: 2,944,741	446: 2,928,612
2,933,246	2,922,576	2,955,757	2,940,671	2: 2,935,268	188: 2,921,743	453: 2,921,746
2,936,112	2,925,958	2,961,160	190: 2,950,863	8: 2,952,410	2,954,932	2,951,647
2,936,113	2,926,847	2,966,303	191: 2,938,671	2,960,272	189: 2,922,579	2,962,227
2,938,665	2,930,526	2,966,304	192: 2,927,735	2,960,273	2,958,470	455: 2,959,359
2,938,666	2,933,248	2,955,758	193: 2,919,857	2,960,274	195: 2,965,305	456: 2,935,266
2,938,667	2,934,265	2,965,299	2,965,300	2,960,275	197: 2,963,227	2,955,766
2,939,632	2,935,255	2,966,306	194: 2,920,828	9: 2,942,785	200: 2,949,240	458: 2,936,960
2,941,718	2,936,953	2,931,570	2,921,739	2,942,786	206: 2,955,764	2,938,673
2,942,778	2,939,633	2,936,115	2,935,260	12.3: 2,920,829	210: 2,956,750	2,944,742
2,945,623	2,945,624	2,941,719	2,941,722	43: 2,951,642	212: 2,940,672	2,944,743
2,949,226	2,948,469	2,941,720	2,945,626	55: 2,962,218	215: 2,922,583	459: 2,937,813
2,950,049	2,948,470	2,962,214	2,952,408	70: 2,946,510	2,965,306	460: 2,949,242
2,954,160	2,948,471	2,925,219	2,957,627	Class 238	2,965,307	464: 2,920,831
2,954,161	2,949,228	2,935,259	2,966,306	4: 2,924,389	220: 2,929,565	2,921,747
2,954,923	2,954,163	2,936,116	2,966,307	8: 2,950,057	2,954,933	465: 2,961,171
2,957,623	2,956,745	2,936,117	2,966,308	10: 2,941,724	2,959,357	489: 2,962,228
61.12: 2,944,735	2,958,464	2,937,810	195: 2,924,386	2,943,793	222: 2,920,830	490: 2,946,520
2,950,050	2,959,348	166: 2,940,670	2,965,301	2,952,411	223: 2,939,636	495: 2,924,394
2,953,300	2,959,349	167: 2,936,118	2,948,473	2,955,763	225: 2,945,627	498: 2,945,630
2,963,220	2,961,158	2,936,957	2,950,054	152: 2,928,605	227: 2,947,482	520: 2,943,796
61.5: 2,919,850	2,962,212	169: 2,928,601	2,963,224	179: 2,950,058	2,964,246	521: 2,956,761
2,920,817	2,964,241	2,938,668	2,966,307	204: 2,929,560	229: 2,930,531	526: 2,956,752
2,922,572	2,965,294	2,947,479	197: 2,921,740	217: 2,944,739	230: 2,928,608	533: 2,927,737
2,923,465	2,966,299	170: 2,923,474	2,925,220	230: 2,950,059	2,963,228	2,928,613
2,923,466	94: 2,950,861	2,933,251	2,928,604	243: 2,936,126	231: 2,954,171	2,957,631
2,923,467	98: 2,928,599	2,943,790	2,935,254	254: 2,960,309	2,954,934	2,959,360
2,923,468	2,940,667	173: 2,919,855	2,948,474	292: 2,944,740	239: 2,942,789	534: 2,921,748
2,928,593	2,956,746	2,920,821	2,950,864	327: 2,933,258	242: 2,932,457	544: 2,964,248
2,942,777	2,965,295	2,920,822	2,961,161	2,936,127	2,943,796	547: 2,946,521
2,947,474	103: 2,966,300	2,920,823	2,962,217	349: 2,954,169	2,952,413	548: 2,925,224
2,953,299	103.5: 2,963,221	2,931,571	198: 2,933,255	366: 2,929,561	245: 2,922,584	568: 2,959,361
2,925,956	114: 2,957,625	2,955,759	Class 236	379: 2,929,562	251: 2,962,222	569: 2,943,799
2,928,594	117: 2,929,554	174: 2,932,451	1: 2,919,858	Class 239	2,964,247	2,965,313
2,930,525	131: 2,920,819	2,955,760	2: 2,919,859	2: 2,934,275	254: 2,926,856	579: 2,949,243
2,931,566	132: 2,922,575	175: 2,923,475	2,924,387	5: 2,922,581	255: 2,937,812	583: 2,945,632
2,931,567	2,930,527	2,926,850	2,931,574	8: 2,929,563	261: 2,919,861	589: 2,949,244
2,934,263	2,935,256	2,941,721	2,935,261	13: 2,950,867	264: 2,945,628	591: 2,923,482
2,935,251	2,936,954	2,949,230	2,942,783	15: 2,959,353	266: 2,946,518	597: 2,965,314
2,935,252	2,954,925	2,952,407	2,951,640	2,960,273	273: 2,928,609	
2,939,630	2,966,301	2,962,215	2,960,269	2,966,310	2,929,566	Class 240
2,944,733	133: 2,940,668	2,962,216	2,961,162	2,966,311	2,965,307	1: 2,942,099
2,947,475	138: 2,953,301	2,965,298		276: 2,921,744	2,966,312	2,946,579
2,948,467	140: 2,956,747	2,966,305				



## Class 240—Con.

1. 1: 2,933,595	46.53: 2,937,267	67: 2,929,568	9: 2,925,960	55.12: 2,954,939	75.51: 2,943,809	128: 2,963,240
1. 2: 2,934,633	46.59: 2,920,187	68: 2,910,863	2,947,487	2,954,940	2,945,637	2,965,330
1. 3: 2,923,812	47: 2,933,596	70: 2,931,583	2,947,488	2,958,475	2,946,758	129: 2,944,758
2,942,100	2,945,946	2,950,869	2,956,754	2,958,476	2,949,249	2,944,759
2,953,675	51.11: 2,924,702	74: 2,954,174	2,956,755	2,958,477	75.53: 2,922,594	2,954,942
2,956,149	2,926,238	80: 2,927,735	2,959,367	2,959,369	76: 2,950,072	129.6: 2,954,182
2,965,747	2,946,880	81: 2,959,361	2,961,174	2,961,180	2,952,410	129.7: 2,954,183
1. 4: 2,944,143	2,958,763	82: 2,940,676	11: 2,923,486	2,962,237	77.2: 2,965,327	129.8: 2,924,396
2,964,616	2,964,616	89: 2,946,523	13: 2,939,641	2,962,238	77.4: 2,928,623	2,955,774
2,920,184	51.12: 2,963,574	91: 2,950,870	2,942,793	2,962,239	78: 2,919,867	130: 2,930,542
2,922,029	52.1: 2,921,182	92: 2,922,590	2,964,253	2,963,323	78.1: 2,936,132	2,961,185
2,926,236	2,925,488	98: 2,945,634	2,932,461	2,963,324	2,951,657	130.2: 2,922,597
2,932,726	2,931,896	2,945,120	2,936,962	2,923,861	78.4: 2,920,838	2,928,625
2,947,850	2,965,751	2,920,188	2,946,526	2,937,818	2,963,227	2,931,593
2,957,072	57: 2,920,188	2,925,225	2,947,489	2,941,741	78.5: 2,937,821	2,931,594
2,958,760	60: 2,943,186	2,928,615	2,950,067	2,941,741	78.6: 2,920,838	2,940,684
2,964,613	61.1: 2,921,183	2,939,639	2,957,635	2,943,505	78.7: 2,933,261	2,943,812
2,965,748	61.13: 2,945,947	2,945,635	2,965,322	2,951,654	2,947,492	2,944,760
2. 1: 2,965,749	2,947,856	2,946,525	2,935,268	2,943,553	78.8: 2,965,328	2,946,537
2.12: 2,949,529	73: 2,925,489	2,948,482	2,939,582	2,962,240	79: 2,942,797	2,946,538
2.13: 2,927,197	2,958,764	2,965,319	2,930,537	2,940,753	80: 2,944,755	131: 2,945,639
2.17: 2,937,263	2,961,530	101: 2,941,733	2,930,536	2,935,270	82: 2,927,744	2,958,479
2.18: 2,922,873	78: 2,922,030	108: 2,958,473	2,931,588	2,944,749	2,929,574	138: 2,965,331
2,929,918	2,925,490	124: 2,943,801	2,930,537	2,959,368	2,929,575	139: 2,940,685
2,939,945	2,927,200	132: 2,944,744	2,931,589	2,949,248	2,929,576	2,944,761
3: 2,928,954	2,927,993	147: 2,938,675	2,932,462	2,920,833	83: 2,929,577	2,947,644
3.1: 2,950,382	2,927,994	153: 2,931,584	2,944,746	2,925,483	2,943,810	146: 2,940,686
4: 2,980,855	2,929,920	156: 2,934,277	2,946,527	2,932,463	2,949,250	150: 2,930,543
2,935,598	2,935,602	157: 2,936,128	2,946,528	2,942,795	2,954,180	2,955,775
4.1: 2,927,198	2,946,881	163: 2,930,534	2,946,529	2,957,636	2,954,180	2,957,645
4.2: 2,943,154	2,948,807	171: 2,933,260	2,955,770	2,928,618	2,957,645	2,965,332
6: 2,939,946	2,954,460	175: 2,937,814	2,961,175	2,948,486	84: 2,946,535	151: 2,938,678
6.4: 2,931,893	2,955,196	183: 2,949,247	2,961,176	2,939,455	84.1: 2,943,811	153: 2,942,803
2,955,194	2,960,604	185: 2,922,031	2,961,177	2,942,796	2,957,641	154: 2,921,755
6.42: 2,962,580	81: 2,945,948	186: 2,965,320	2,922,591	2,943,806	2,963,238	2,922,598
6.44: 2,922,874	106: 2,954,461	191: 2,923,483	2,922,591	2,950,873	2,963,239	2,949,253
2,937,264	108: 2,951,935	192: 2,958,474	2,927,197	2,952,417	2,925,229	2,950,877
2,939,947	123: 2,935,603	194: 2,963,231	2,927,197	2,925,228	2,925,229	155: 2,924,397
2,944,144	147: 2,938,112	195: 2,962,232	2,927,197	2,950,070	2,928,578	2,961,186
6.46: 2,964,614	151: 2,943,187	197: 2,927,739	2,927,197	2,951,655	2,929,579	156: 2,923,493
7.1: 2,920,185	152: 2,959,668	200: 2,934,279	2,927,197	2,955,773	2,932,464	156.1: 2,961,280
2,921,180	3: 2,959,362	207: 2,925,959	2,927,197	2,957,637	2,932,465	156.2: 2,920,840
2,932,727	5: 2,949,245	217: 2,950,871	2,927,197	2,958,479	2,941,748	2,966,315
2,944,145	2,957,632	219: 2,931,585	2,927,197	2,959,369	2,942,799	157: 2,943,813
7.35: 2,920,186	9: 2,941,730	225: 2,925,226	2,927,197	2,960,606	2,943,814	157.1: 2,933,264
2,944,145	10: 2,941,731	230: 2,964,249	2,927,197	2,960,606	2,944,747	158: 2,926,867
7.5: 2,938,109	14: 2,922,585	235: 2,919,864	2,927,197	2,960,606	2,963,235	2,933,265
2,960,601	17: 2,935,267	256: 2,931,586	2,927,197	2,960,606	2,957,637	2,964,260
2,966,579	19: 2,922,586	257: 2,937,815	2,927,197	2,960,606	2,958,479	158.2: 2,940,687
7.7: 2,929,919	23: 2,922,586	258: 2,940,677	2,927,197	2,960,606	2,959,371	2,964,261
8.16: 2,963,571	24: 2,954,173	261: 2,961,173	2,927,197	2,960,606	2,963,235	158.3: 2,919,868
8.18: 2,938,110	30: 2,952,414	267: 2,921,750	2,927,197	2,960,606	2,963,235	2,934,284
8.2: 2,922,875	32: 2,938,674	275: 2,928,616	2,927,197	2,960,606	2,963,235	158.4: 2,922,599
2,965,750	34: 2,922,587	278: 2,962,234	2,927,197	2,960,606	2,963,235	2,931,595
8.25: 2,962,581	36: 2,947,486	293: 2,964,251	2,927,197	2,960,606	2,963,235	2,959,372
8.3: 2,925,487	37: 2,941,732	294: 2,965,321	2,927,197	2,960,606	2,963,235	2,962,242
9: 2,926,237	39: 2,928,614	296: 2,950,872	2,927,197	2,960,606	2,963,235	158.5: 2,924,398
2,932,728	40: 2,934,276	301: 2,930,535	2,927,197	2,960,606	2,963,235	161.1: 2,957,646
2,937,265	41: 2,945,633	3: 2,923,484	2,927,197	2,960,606	2,963,235	173: 2,964,262
2,942,101	42: 2,943,800	4: 2,921,751	2,927,197	2,960,606	2,963,235	
2,951,147	46: 2,922,588	2,923,485	2,927,197	2,960,606	2,963,235	
2,956,150	2,932,728	2,923,485	2,927,197	2,960,606	2,963,235	
2,958,761	2,947,485	2,923,485	2,927,197	2,960,606	2,963,235	
2,960,602	32.5: 2,946,522	2,923,485	2,927,197	2,960,606	2,963,235	
2,962,582	2,961,172	2,923,485	2,927,197	2,960,606	2,963,235	
2,963,599	34: 2,922,587	2,923,485	2,927,197	2,960,606	2,963,235	
2,936,366	2,965,315	2,923,485	2,927,197	2,960,606	2,963,235	
2,957,978	2,965,316	2,923,485	2,927,197	2,960,606	2,963,235	
2,958,762	36: 2,947,486	2,923,485	2,927,197	2,960,606	2,963,235	
2,963,572	37: 2,941,732	2,923,485	2,927,197	2,960,606	2,963,235	
10.1: 2,943,185	39: 2,928,614	2,923,485	2,927,197	2,960,606	2,963,235	
2,953,676	2,932,458	2,923,485	2,927,197	2,960,606	2,963,235	
10.61: 2,931,894	2,958,472	2,923,485	2,927,197	2,960,606	2,963,235	
2,938,111	40: 2,934,276	2,923,485	2,927,197	2,960,606	2,963,235	
2,949,530	41: 2,945,633	2,923,485	2,927,197	2,960,606	2,963,235	
10.63: 2,942,102	42: 2,943,800	2,923,485	2,927,197	2,960,606	2,963,235	
2,959,667	46: 2,922,588	2,923,485	2,927,197	2,960,606	2,963,235	
10.65: 2,942,103	2,932,458	2,923,485	2,927,197	2,960,606	2,963,235	
2,963,573	2,932,459	2,923,485	2,927,197	2,960,606	2,963,235	
10.66: 2,934,635	2,949,246	2,923,485	2,927,197	2,960,606	2,963,235	
2,948,806	2,950,064	2,923,485	2,927,197	2,960,606	2,963,235	
2,966,580	2,950,065	2,923,485	2,927,197	2,960,606	2,963,235	
10.68: 2,937,266	2,950,868	2,923,485	2,927,197	2,960,606	2,963,235	
2,945,944	2,955,767	2,923,485	2,927,197	2,960,606	2,963,235	
11.2: 2,962,583	2,956,753	2,923,485	2,927,197	2,960,606	2,963,235	
11.3: 2,930,886	2,963,229	2,923,485	2,927,197	2,960,606	2,963,235	
2,955,195	2,965,317	2,923,485	2,927,197	2,960,606	2,963,235	
11.4: 2,931,895	2,965,318	2,923,485	2,927,197	2,960,606	2,963,235	
2,935,600	2,966,313	2,923,485	2,927,197	2,960,606	2,963,235	
25: 2,921,181	50: 2,963,230	2,923,485	2,927,197	2,960,606	2,963,235	
2,945,945	52: 2,931,581	2,923,485	2,927,197	2,960,606	2,963,235	
26: 2,935,601	2,932,460	2,923,485	2,927,197	2,960,606	2,963,235	
37: 2,927,199	2,939,638	2,923,485	2,927,197	2,960,606	2,963,235	
41: 2,960,603	2,953,307	2,923,485	2,927,197	2,960,606	2,963,235	
41.25: 2,947,851	53: 2,922,589	2,923,485	2,927,197	2,960,606	2,963,235	
2,947,852	55: 2,951,648	2,923,485	2,927,197	2,960,606	2,963,235	
2,947,853	56: 2,931,582	2,923,485	2,927,197	2,960,606	2,963,235	
2,947,854	57: 2,957,633	2,923,485	2,927,197	2,960,606	2,963,235	
46.39: 2,947,855	58: 2,955,768	2,923,485	2,927,197	2,960,606	2,963,235	

## Class 241

## Class 242

## Class 243

## Class 244



12: 2,940,690 2,940,691 2,944,762 2,945,641 2,945,642 2,947,496 2,950,878 2,952,422 2,952,423 2,953,320 2,954,943 2,954,944 2,957,647 2,959,374 2,961,188 2,961,189 2,964,264 2,964,265	41: 2,950,879 42: Re.24,917 2,920,844 2,924,399 2,925,231 2,925,232 2,927,748 2,928,627 2,929,582 2,938,680 2,939,650 2,941,751 2,945,644 2,945,645 2,946,541 2,948,492 2,948,493 2,949,255 2,951,662 2,961,195 2,925,233 44: 2,932,470 2,934,288 2,934,289 2,937,826 45: 2,926,870 2,927,749 46: 2,922,601 2,924,400 2,941,752 2,953,322 2,961,196 49: 2,938,681 2,945,646 50: 2,920,845 2,923,497 2,930,547 2,930,548 2,943,817 2,943,818 2,943,819 2,943,820 2,949,256 2,953,323 2,953,324 2,957,649 2,957,650 2,958,481 51: 2,947,501 52: 2,943,821 2,959,378 53: 2,939,651 54: 2,944,766 55: 2,961,197 63: 2,922,602 2,926,871 2,926,872 2,942,805 2,957,651 65: 2,937,827 74: 2,958,482 2,961,198 76: 2,923,498 2,923,499 2,927,750 2,936,974 2,947,502 2,953,325 2,955,781 2,955,782 2,959,379 2,961,199 77: 2,923,500 2,923,501 2,924,401 2,925,234 2,925,967 2,927,751 2,928,628 2,929,583 2,929,584 2,929,585 2,930,549 2,932,471 2,932,472 2,933,268 2,934,290 2,936,134 2,936,135 2,936,136 2,938,682 2,939,652 2,940,694 2,940,695 2,941,753 2,942,806 2,943,822 2,943,823 2,943,824 2,944,767 2,944,768 2,945,647 2,945,648	77: 2,945,649 2,945,650 2,946,542 2,948,494 2,948,495 2,948,496 2,949,257 2,949,258 2,949,259 2,949,260 2,949,261 2,949,262 2,950,075 2,950,076 2,950,077 2,952,424 2,952,425 2,953,326 2,953,327 2,953,328 2,953,329 2,955,783 2,957,652 2,957,653 2,957,654 2,958,483 2,958,484 2,959,380 2,960,283 2,960,284 2,961,200 2,961,201 2,961,202 2,962,243 2,962,244 2,963,244 2,964,268 2,964,269 78: 2,939,653 2,961,203 79: 2,933,269 2,939,654 80: 2,942,807 2,964,270 81: 2,938,683 2,944,769 2,957,655 2,930,550 2,934,291 2,960,285 83: 2,923,502 2,923,503 2,934,292 2,935,276 2,936,975 2,936,976 2,940,696 2,944,697 2,940,698 2,940,699 2,941,754 2,944,770 2,952,426 2,955,784 90: 2,932,473 2,943,825 2,945,651 2,951,663 2,957,656 2,960,286 91: 2,937,828 2,960,286 93: 2,936,137 2,963,245 97: 2,931,597 100: 2,944,771 101: 2,955,785 2,964,271 102: 2,921,759 2,922,603 2,925,968 2,928,629 2,980,551 2,985,277 2,988,684 2,989,655 2,941,755 2,941,756 2,945,652 2,954,188 2,958,485 2,959,381 2,960,287 2,960,288 2,963,246 103: 2,925,969 2,930,552 2,933,270 2,933,271 2,935,278 2,938,685 2,941,757 2,941,758 2,942,808	104: 2,942,809 2,943,826 2,960,289 2,919,870 2,942,810 2,958,486 2,940,700 2,925,970 2,950,883 2,919,871 2,919,872 2,936,977 2,939,656 2,954,946 2,957,657 2,926,873 2,943,827 2,944,772 2,944,773 2,957,658 2,957,659 2,960,290 2,924,402 2,933,272 2,949,263 2,960,291 2,920,846 2,923,504 2,957,660 115: 2,939,657 2,957,661 2,962,245 117: 2,941,759 2,943,828 118: 2,930,553 2,934,293 2,938,686 2,942,811 2,942,812 2,953,330 2,960,292 119: 2,941,760 2,945,653 2,946,189 2,960,293 121: 2,924,403 2,924,404 2,937,829 122: 2,920,847 2,920,848 2,924,405 2,924,406 2,931,598 2,937,830 2,940,701 2,944,774 2,945,654 2,947,503 2,953,331 2,954,947 2,955,786 2,959,382 2,965,335 123: 2,945,655 124: 2,959,383 2,959,384 127: 2,948,264 129: 2,929,586 2,931,599 2,938,687 2,942,813 2,965,336 130: 2,956,760 131: 2,942,814 134: 2,930,554 2,957,662 135: 2,924,407 2,938,688 2,941,761 2,941,762 2,946,543 2,950,884 2,951,664 2,952,427 2,952,428 2,953,332 2,954,190 2,955,787 2,957,663 2,960,294 2,960,295 2,962,247 136: 2,954,948 137: 2,924,408 2,942,815 2,942,816 2,950,073 2,954,949 138: 2,938,689 2,941,763 2,958,487 2,961,204 139: 2,934,294	140: 2,941,764 141: 2,929,587 2,940,702 2,950,885 145: 2,925,971 2,929,588 2,942,817 2,949,266 2,951,665 2,952,429 2,954,191 2,959,385 147: 2,940,703 2,949,267 2,953,333 2,953,334 2,957,664 2,965,337 148: 2,922,604 2,936,138 149: 2,922,605 2,924,409 2,937,831 2,960,296 2,961,205 150: 2,940,704 2,942,818 2,960,297 2,929,589 153: 2,927,752 2,931,600 2,934,295 2,941,765 2,943,829 2,960,298 155: 2,927,753 2,930,555 2,944,775 2,946,544 2,950,887 2,951,666	19: 2,937,832 2,957,665 2,964,272 20: 2,923,505 21: 2,929,592 22: 2,920,849 2,935,279 2,956,761 23: 2,958,489 24: 2,921,760 2,932,474 2,935,280 2,936,139 26: Re.24,893 2,928,632 2,934,297 2,936,140 2,936,141 2,932,430 2,954,193 27: 2,938,690 2,957,666 27.8: 2,925,975 2,940,705 28: 2,923,506 2,931,602 2,935,281 2,938,691 2,939,660 2,943,830 2,951,668 2,952,431 2,962,247 2,965,339 31: 2,939,661 2,943,831 33: 2,919,873 34: 2,958,490 35: 2,930,557 2,946,545 2,955,789 2,924,410 2,930,558 39: 2,934,298 40: 2,927,754 2,946,546 41: 2,939,662 2,949,269 2,950,888 2,961,209 42: 2,931,603 2,941,767 2,939,948 2,952,432 2,955,491 43: 2,943,832 2,966,581 2,934,637 2,959,670 122: 2,964,617 124: 2,930,888 163: 2,946,882 169: 2,947,857 2,963,575 182: 2,964,618 202: 2,930,889 249: 2,960,582 258: 2,961,206 380: 2,948,497	19: 2,937,832 2,957,665 2,964,272 20: 2,923,505 21: 2,929,592 22: 2,920,849 2,935,279 2,956,761 23: 2,958,489 24: 2,921,760 2,932,474 2,935,280 2,936,139 26: Re.24,893 2,928,632 2,934,297 2,936,140 2,936,141 2,932,430 2,954,193 27: 2,938,690 2,957,666 27.8: 2,925,975 2,940,705 28: 2,923,506 2,931,602 2,935,281 2,938,691 2,939,660 2,943,830 2,951,668 2,952,431 2,962,247 2,965,339 31: 2,939,661 2,943,831 33: 2,919,873 34: 2,958,490 35: 2,930,557 2,946,545 2,955,789 2,924,410 2,930,558 39: 2,934,298 40: 2,927,754 2,946,546 41: 2,939,662 2,949,269 2,950,888 2,961,209 42: 2,931,603 2,941,767 2,939,948 2,952,432 2,955,491 43: 2,943,832 2,966,581 2,934,637 2,959,670 122: 2,964,617 124: 2,930,888 163: 2,946,882 169: 2,947,857 2,963,575 182: 2,964,618 202: 2,930,889 249: 2,960,582 258: 2,961,206 380: 2,948,497	71: 2,937,834 2,941,768 74: 2,929,595 2,929,596 2,936,980 2,936,981 2,936,982 2,937,835 2,947,505 2,961,210 2,961,211 75: 2,921,762 2,929,597 2,954,194 2,959,386 76: 2,939,666 80: 2,924,412 81: 2,963,247 87: 2,956,762 88: 2,942,822 89: 2,943,833 95: 2,959,386 2,964,275 96: 2,945,657 97: 2,942,823 101: 2,954,195 2,965,344 102: 2,924,413 2,953,337 103: 2,919,874 2,944,779 104: 2,938,693 106: 2,931,608 2,932,476 2,935,282 2,948,499 2,953,338 111: 2,941,769 117: 2,954,196 117.1: 2,931,609 117.4: 2,950,889 117.7: 2,939,667 118: 2,950,890 119: 2,936,983 2,954,197 2,957,667 2,958,492 2,962,250 2,966,321 120: 2,919,875 2,922,606 2,922,607 2,923,511 2,923,512 2,925,978 2,926,793 2,928,638 2,930,560 2,931,610 2,932,477 2,935,283 2,936,984 2,936,985 2,936,986 2,940,706 2,941,770 2,941,771 2,941,772 2,942,824 2,942,825 2,942,826 2,942,827 2,950,078 2,951,669 2,952,433 2,953,339 2,953,340 2,955,791 2,956,763 2,957,668 2,958,494 2,963,248 2,962,249 2,965,343 59: 2,931,605 61: 2,928,636 62: 2,923,509 2,925,977 2,942,820 2,944,778 63: 2,947,504 64: 2,931,606 65: 2,949,271 2,955,790 67.7: 2,942,821 68: 2,923,510 2,928,637 2,931,607 2,938,692 2,939,664 2,964,274	71: 2,937,834 2,941,768 74: 2,929,595 2,929,596 2,936,980 2,936,981 2,936,982 2,937,835 2,947,505 2,961,210 2,961,211 75: 2,921,762 2,929,597 2,954,194 2,959,386 76: 2,939,666 80: 2,924,412 81: 2,963,247 87: 2,956,762 88: 2,942,822 89: 2,943,833 95: 2,959,386 2,964,275 96: 2,945,657 97: 2,942,823 101: 2,954,195 2,965,344 102: 2,924,413 2,953,337 103: 2,919,874 2,944,779 104: 2,938,693 106: 2,931,608 2,932,476 2,935,282 2,948,499 2,953,338 111: 2,941,769 117: 2,954,196 117.1: 2,931,609 117.4: 2,950,889 117.7: 2,939,667 118: 2,950,890 119: 2,936,983 2,954,197 2,957,667 2,958,492 2,962,250 2,966,321 120: 2,919,875 2,922,606 2,922,607 2,923,511 2,923,512 2,925,978 2,926,793 2,928,638 2,930,560 2,931,610 2,932,477 2,935,283 2,936,984 2,936,985 2,936,986 2,940,706 2,941,770 2,941,771 2,941,772 2,942,824 2,942,825 2,942,826 2,942,827 2,950,078 2,951,669 2,952,433 2,953,339 2,953,340 2,955,791 2,956,763 2,957,668 2,958,494 2,963,248 2,962,249 2,965,343 59: 2,931,605 61: 2,928,636 62: 2,923,509 2,925,977 2,942,820 2,944,778 63: 2,947,504 64: 2,931,606 65: 2,949,271 2,955,790 67.7: 2,942,821 68: 2,923,510 2,928,637 2,931,607 2,938,692 2,939,664 2,964,274
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## Class 248—Con.

141: 2, 937, 836	226: 2, 955, 793	346: 2, 929, 601	13: 2, 939, 949	20: 2, 954, 465	27: 2, 937, 273	43.5: 2, 927, 209
145: 2, 931, 611	2, 962, 252	2, 958, 499	2, 943, 188	2, 955, 198	2, 937, 274	2, 930, 893
2, 936, 143	227: 2, 923, 514	2, 963, 256	2, 948, 808	2, 955, 199	2, 938, 115	2, 932, 739
145.6: 2, 942, 828	2, 935, 286	349: 2, 935, 288	2, 958, 767	2, 956, 151	2, 939, 001	2, 932, 740
146: 2, 920, 850	228: 2, 930, 564	2, 950, 893	2, 958, 768	2, 956, 152	2, 939, 002	2, 932, 741
2, 925, 979	2, 930, 565	350: 2, 933, 280	2, 962, 584	2, 956, 153	2, 939, 003	2, 933, 600
2, 927, 756	2, 936, 988	351: 2, 934, 303		2, 957, 074	2, 939, 004	2, 933, 601
2, 955, 792	2, 937, 837	2, 939, 670	14: 2, 924, 705	2, 957, 979	2, 941, 072	2, 934, 646
149: 2, 930, 561	2, 944, 781	2, 958, 500	2, 934, 639	2, 958, 770	2, 941, 073	2, 934, 647
2, 959, 387	2, 954, 200	354: 2, 924, 418	2, 936, 368	2, 958, 771	2, 941, 074	2, 937, 275
150: 2, 936, 144	2, 963, 251	2, 925, 981	2, 938, 113	2, 958, 772	2, 941, 075	2, 937, 276
2, 966, 322	229: 2, 963, 252	2, 928, 643	2, 958, 769	2, 959, 672	2, 942, 106	2, 938, 117
152: 2, 930, 562	230: 2, 930, 566	2, 929, 602	2, 964, 620	2, 959, 673	2, 942, 107	2, 938, 118
153: 2, 925, 235	2, 931, 613	2, 938, 699		2, 959, 674	2, 943, 194	2, 938, 119
156: 2, 945, 659	231: 2, 959, 388	2, 945, 662	16: 2, 933, 597	2, 959, 675	2, 945, 949	2, 939, 953
158: 2, 938, 694	232: 2, 934, 299	2, 953, 343	2, 946, 883	2, 961, 531	2, 945, 950	2, 943, 196
2, 954, 953	238: 2, 936, 989	2, 963, 257	2, 952, 769	2, 961, 532	2, 947, 863	2, 943, 197
161: 2, 927, 757	240: 2, 940, 717	355: 2, 932, 481	2, 960, 605	2, 961, 533	2, 947, 864	2, 945, 127
2, 945, 660	243: 2, 936, 147	356: 2, 937, 842	2, 963, 577	2, 961, 534	2, 947, 865	2, 945, 952
163: 2, 921, 764	2, 941, 775	2, 942, 833	2, 964, 621	2, 962, 585	2, 951, 153	2, 945, 953
165: 2, 924, 414	2, 956, 766	2, 961, 212		2, 962, 586	2, 951, 937	2, 947, 869
167: 2, 922, 608	245: 2, 928, 642	358: 2, 919, 882	17: 2, 928, 935	2, 963, 578	2, 952, 772	2, 951, 156
168: 2, 940, 708	2, 940, 718	2, 919, 883	2, 929, 925	2, 964, 622	2, 952, 773	2, 951, 938
2, 940, 709	251: 2, 940, 719	2, 924, 419	2, 931, 897	2, 964, 623	2, 953, 678	2, 951, 939
170: 2, 945, 663	2, 956, 767	2, 924, 420	2, 932, 731	2, 965, 752	2, 953, 679	2, 952, 774
171: 2, 920, 851	261: 2, 944, 782	2, 926, 881	2, 932, 732	2, 966, 584	2, 954, 466	2, 952, 775
174: 2, 920, 852	262: 2, 927, 762	2, 932, 482	2, 932, 733	2, 966, 585	2, 954, 467	2, 953, 681
2, 936, 145	263: 2, 927, 762	2, 938, 700	2, 934, 640	2, 968, 937	2, 955, 200	2, 953, 682
2, 940, 710	265: 2, 937, 838	2, 941, 777	2, 937, 269	2, 961, 531	2, 955, 201	2, 954, 471
2, 941, 773	2, 964, 280	2, 942, 834	2, 938, 999	2, 961, 532	2, 955, 202	2, 954, 472
176: 2, 958, 495	276: 2, 919, 880	2, 944, 783	2, 943, 189	2, 961, 533	2, 955, 203	2, 957, 076
179: 2, 922, 609	2, 925, 236	2, 948, 502	2, 952, 770	2, 961, 534	2, 956, 154	2, 957, 986
2, 950, 079	2, 937, 839	2, 955, 795	2, 953, 677	2, 961, 535	2, 956, 155	2, 959, 677
183: 2, 948, 501	280: 2, 954, 957	2, 960, 301	2, 955, 197	2, 961, 536	2, 956, 156	2, 960, 607
2, 956, 764	282: 2, 950, 892	2, 962, 254	2, 959, 671	2, 961, 537	2, 956, 157	2, 961, 539
2, 962, 251	284: 2, 920, 856	2, 965, 349	2, 920, 190	2, 961, 538	2, 956, 158	2, 963, 580
191: 2, 933, 275	2, 941, 776	2, 967, 259	2, 921, 186	2, 961, 539	2, 956, 159	2, 964, 628
193: 2, 942, 829	285: 2, 932, 480	359: 2, 937, 843	2, 921, 187	2, 961, 540	2, 956, 160	2, 965, 753
194: 2, 919, 878	288: 2, 929, 600	360: 2, 939, 671	2, 921, 188	2, 961, 541	2, 956, 161	2, 966, 587
2, 923, 513	2, 936, 990	361: 2, 923, 516	2, 921, 189	2, 961, 542	2, 956, 162	2, 967, 254
2, 933, 276	2, 938, 697	2, 925, 982	2, 922, 032	2, 961, 543	2, 956, 163	2, 968, 937
197: 2, 941, 774	289: 2, 934, 300	2, 929, 603	2, 922, 876	2, 961, 544	2, 956, 164	2, 969, 006
2, 953, 341	2, 951, 670	2, 936, 992	2, 923, 813	2, 961, 545	2, 956, 165	2, 969, 007
201: 2, 938, 146	290: 2, 919, 881	363: 2, 956, 769	2, 923, 814	2, 961, 546	2, 956, 166	2, 969, 008
2, 942, 830	291: 2, 937, 840		2, 923, 815	2, 961, 547	2, 956, 167	2, 969, 009
2, 954, 199	293: 2, 925, 237	Class 249	2, 923, 816	2, 961, 548	2, 956, 168	2, 969, 010
2, 963, 250	295: 2, 925, 238	1: 2, 923, 517	2, 923, 817	2, 961, 549	2, 956, 169	2, 969, 011
2, 964, 276	298: 2, 925, 239	2: 2, 922, 610	2, 923, 818	2, 961, 550	2, 956, 170	2, 969, 012
203: 2, 966, 323	2, 963, 253	2, 925, 983	2, 923, 819	2, 961, 551	2, 956, 171	2, 969, 013
204: 2, 928, 639	2, 964, 281	2, 929, 604	2, 923, 820	2, 961, 552	2, 956, 172	2, 969, 014
2, 930, 563	301: 2, 925, 239	2, 933, 281	2, 923, 821	2, 961, 553	2, 956, 173	2, 969, 015
205: 2, 919, 879	302: 2, 926, 878	2, 950, 894	2, 923, 822	2, 961, 554	2, 956, 174	2, 969, 016
2, 924, 415	307: 2, 942, 831	2, 954, 202	2, 923, 823	2, 961, 555	2, 956, 175	2, 969, 017
2, 927, 758	308: 2, 936, 148	2, 957, 673	2, 923, 824	2, 961, 556	2, 956, 176	2, 969, 018
2, 928, 640	309: 2, 930, 567	3: 2, 922, 611	2, 923, 825	2, 961, 557	2, 956, 177	2, 969, 019
2, 929, 598	2, 940, 720	9: 2, 943, 836	2, 923, 826	2, 961, 558	2, 956, 178	2, 969, 020
2, 929, 599	2, 942, 832	14: 2, 921, 767	2, 923, 827	2, 961, 559	2, 956, 179	2, 969, 021
2, 936, 987	311: 2, 926, 879	2, 938, 701	2, 923, 828	2, 961, 560	2, 956, 180	2, 969, 022
2, 940, 711	2, 951, 671	16: 2, 963, 258	2, 923, 829	2, 961, 561	2, 956, 181	2, 969, 023
2, 940, 712	2, 963, 254	18: 2, 932, 483	2, 923, 830	2, 961, 562	2, 956, 182	2, 969, 024
2, 945, 661	313: 2, 936, 149	2, 957, 674	2, 923, 831	2, 961, 563	2, 956, 183	2, 969, 025
2, 949, 272	2, 964, 282	26: 2, 964, 283	2, 923, 832	2, 961, 564	2, 956, 184	2, 969, 026
2, 952, 435	314: 2, 938, 698	31: 2, 937, 844	2, 923, 833	2, 961, 565	2, 956, 185	2, 969, 027
2, 956, 765	316: 2, 925, 980	33: 2, 942, 835	2, 923, 834	2, 961, 566	2, 956, 186	2, 969, 028
2, 964, 277	2, 936, 150	2, 942, 836	2, 923, 835	2, 961, 567	2, 956, 187	2, 969, 029
2, 964, 278	2, 939, 668	43: 2, 930, 569	2, 923, 836	2, 961, 568	2, 956, 188	2, 969, 030
206: 2, 921, 765	2, 940, 721	47: 2, 934, 304	2, 923, 837	2, 961, 569	2, 956, 189	2, 969, 031
2, 940, 713	2, 945, 664	57: 2, 927, 763	2, 923, 838	2, 961, 570	2, 956, 190	2, 969, 032
2, 947, 507	2, 946, 548	59: 2, 922, 612	2, 923, 839	2, 961, 571	2, 956, 191	2, 969, 033
208: 2, 935, 284	317: 2, 920, 857	2, 936, 993	2, 923, 840	2, 961, 572	2, 956, 192	2, 969, 034
2, 943, 834	2, 930, 568	60: 2, 927, 764	2, 923, 841	2, 961, 573	2, 956, 193	2, 969, 035
210: 2, 950, 080	2, 933, 279	2, 936, 994	2, 923, 842	2, 961, 574	2, 956, 194	2, 969, 036
214: 2, 920, 853	2, 951, 672	2, 955, 796	2, 923, 843	2, 961, 575	2, 956, 195	2, 969, 037
2, 931, 612	2, 953, 342	64: 2, 931, 614	2, 923, 844	2, 961, 576	2, 956, 196	2, 969, 038
2, 938, 695	2, 954, 958	2, 957, 672	2, 923, 845	2, 961, 577	2, 956, 197	2, 969, 039
215: 2, 938, 696	2, 957, 672	2, 958, 497	2, 923, 846	2, 961, 578	2, 956, 198	2, 969, 040
2, 954, 954	318: 2, 951, 673		2, 923, 847	2, 961, 579	2, 956, 199	2, 969, 041
216: 2, 943, 835	320: 2, 924, 416	Class 250	2, 923, 848	2, 961, 580	2, 956, 200	2, 969, 042
2, 957, 670	2, 962, 253	1: 2, 926, 239	2, 923, 849	2, 961, 581	2, 956, 201	2, 969, 043
2, 964, 279	2, 963, 254	2, 952, 768	2, 923, 850	2, 961, 582	2, 956, 202	2, 969, 044
217: 2, 920, 854	321: 2, 923, 515	2, 963, 576	2, 923, 851	2, 961, 583	2, 956, 203	2, 969, 045
221: 2, 928, 641	323: 2, 925, 240	2, 967, 259	2, 923, 852	2, 961, 584	2, 956, 204	2, 969, 046
2, 935, 285	2, 937, 841	2, 968, 984	2, 923, 853	2, 961, 585	2, 956, 205	2, 969, 047
2, 940, 714	2, 956, 768	6: 2, 924, 703	2, 923, 854	2, 961, 586	2, 956, 206	2, 969, 048
2, 944, 780	2, 963, 255	2, 932, 729	2, 923, 855	2, 961, 587	2, 956, 207	2, 969, 049
2, 966, 324	328: 2, 934, 301	2, 935, 604	2, 923, 856	2, 961, 588	2, 956, 208	2, 969, 050
223: 2, 926, 877	2, 934, 302	2, 966, 583	2, 923, 857	2, 961, 589	2, 956, 209	2, 969, 051
2, 927, 759	2, 946, 549	7: 2, 921, 184	2, 923, 858	2, 961, 590	2, 956, 210	2, 969, 052
2, 933, 277	340: 2, 958, 498	2, 929, 922	2, 923, 859	2, 961, 591	2, 956, 211	2, 969, 053
2, 957, 671	2, 959, 389	2, 929, 923	2, 923, 860	2, 961, 592	2, 956, 212	2, 969, 054
2, 958, 496		2, 964, 619	2, 923, 861	2, 961, 593	2, 956, 213	2, 969, 055
2, 965, 346	343: 2, 924, 417	8: 2, 932, 730	2, 923, 862	2, 961, 594	2, 956, 214	2, 969, 056
226: 2, 920, 855	2, 936, 991	2, 939, 669	2, 923, 863	2, 961, 595	2, 956, 215	2, 969, 057
2, 921, 766	2, 939, 669	2, 954, 201	2, 923, 864	2, 961, 596	2, 956, 216	2, 969, 058
2, 927, 760	2, 954, 959	2, 965, 348	2, 923, 865	2, 961, 597	2, 956, 217	2, 969, 059
2, 927, 761	2, 966, 325	2, 966, 326	2, 923, 866	2, 961, 598	2, 956, 218	2, 969, 060
2, 933, 278	2, 966, 327		2, 923, 867	2, 961, 599	2, 956, 219	2, 969, 061
2, 940, 715			2, 923, 868	2, 961, 600	2, 956, 220	2, 969, 062
2, 940, 716			2, 923, 869	2, 961, 601	2, 956, 221	2, 969, 063
2, 950, 891			2, 923, 870	2, 961, 602	2, 956, 222	2, 969, 064
2, 954, 955			2,			



68: 2,922,047	83.3: 2,951,161	108: 2,928,948	217: 2,922,049	30: 2,921,768	174: 2,929,606	8.5: 2,946,746
71: 2,920,202	2,951,943	2,932,745	2,927,215	2,925,985	2,930,575	2,948,678
2,920,203	2,951,944	2,935,616	2,927,216	2,926,882	2,942,840	2,952,634
2,922,884	2,952,777	2,942,115	2,930,898	2,926,883	2,923,523	2,953,525
2,922,885	2,953,686	2,942,116	2,935,617	2,940,722	2,930,576	2,955,082
2,922,886	2,953,687	2,943,203	2,942,121	2,946,551	2,941,779	2,956,948
2,923,824	2,953,688	2,955,208	2,943,207	2,956,770	2,945,668	2,957,822
2,926,259	2,955,206	2,961,544	2,951,948	2,958,503	2,946,552	2,960,464
2,926,260	2,956,165		2,954,478	2,964,286	2,963,263	2,960,465
2,929,931	2,957,081	201: 2,923,826	2,959,682	2,965,350	2,964,289	2,964,489
2,933,602	2,957,082	2,949,536	2,964,639		2,922,617	2,965,566
2,934,651	2,957,083	202: 2,933,612	2,964,640	31: 2,936,996	2,925,245	8.55: 2,920,040
2,936,371	2,958,780	2,945,956	2,921,204	2,966,329	2,946,553	2,920,041
2,937,278	2,958,781	203: 2,930,894	2,922,893	35: 2,927,766	2,919,887	2,924,571
2,939,010	2,960,608	2,931,910	2,922,894	41: 2,934,307	2,925,246	2,931,772
2,943,198	2,961,542	2,931,911	2,927,217	43: 2,959,390	2,925,247	2,935,474
2,943,199	2,963,582	2,931,912	2,927,218	48: 2,947,509	2,929,607	2,935,475
2,944,148	2,963,583	2,939,962	2,928,953		196: 2,954,960	2,939,839
2,944,149	2,963,584	2,941,080	2,931,916	50: 2,931,615	200: 2,930,577	2,940,927
2,945,954	2,963,585	2,941,081	2,931,917	51: 2,955,797	203: 2,947,511	2,941,943
2,951,940	2,963,586	2,941,082	2,938,126	52: 2,931,614	205: 2,936,152	2,944,968
2,952,776	2,964,629	2,942,117	2,939,016	54: 2,922,614	209: 2,934,311	2,944,969
2,953,684	2,964,630	2,942,118	2,939,963		210: 2,924,421	2,946,747
2,961,540	2,964,631	2,943,204	2,941,086		2,926,884	2,946,748
71.5: Re.24,797	2,965,757	2,946,893	2,941,087		2,927,767	2,947,691
2,924,718	2,965,758	2,947,872	2,943,208		212: 2,955,798	2,950,246
2,928,947	2,966,590	2,948,813	2,944,156		214: 2,926,885	2,950,247
2,931,905	83.6: 2,920,206	2,950,395	2,945,957		2,942,841	2,952,635
2,942,109	2,920,207	2,956,170	2,947,876		2,950,898	2,955,083
2,945,955	2,920,208	2,958,783	2,947,877		216: 2,963,264	2,957,823
2,946,888	2,922,888	2,958,784	2,947,878		223: 2,958,504	2,957,824
2,946,889	2,922,889	2,961,545	2,949,539		237: 2,924,422	2,961,400
2,949,534	2,924,719	2,965,762	2,950,396	57: 2,925,986	240: 2,940,724	2,964,471
2,950,391	2,924,720	2,965,763	2,951,164	58: 2,925,241	242: 2,939,675	2,966,457
2,951,158	2,924,721	2,966,591	2,958,785		258: 2,948,504	2,966,458
2,951,941	2,931,907	204: 2,935,618	2,961,547		263: 2,924,423	2,953,526
2,954,473	2,933,609	205: 2,922,891	2,961,548		276: 2,960,304	2,956,949
2,956,162	2,934,652	2,948,814	2,962,596	61: 2,925,987	278: 2,933,284	2,956,950
2,956,163	2,935,614	206: 2,928,949	2,964,641		282: 2,920,859	2,966,459
2,956,164	2,935,615	2,941,083	2,966,593		291: 2,964,290	2,966,460
2,957,988	2,937,282	2,943,205	2,966,594	63: 2,925,242	305: 2,924,424	2,966,461
2,957,989	2,938,123	2,947,873		65: 2,966,330	306: 2,923,524	2,966,462
2,958,779	2,938,124	207: 2,922,048	2,967,594	68: 2,925,988	2,936,153	2,966,463
2,961,541	2,939,014	2,943,206		69: 2,930,571	2,946,554	2,966,464
2,962,590	2,939,960	208: 2,923,827	2,967,595	73: 2,933,282	309: 2,945,669	2,966,465
78: 2,933,603	2,942,113	2,947,874	2,968,611	74: 2,928,647	312: 2,954,961	2,966,466
2,935,612	2,943,202	209: 2,927,213	2,968,612		314: 2,961,214	2,966,467
2,966,589	2,944,152	2,947,875	2,968,613		316: 2,935,293	2,966,468
80: 2,921,201	2,945,130	2,961,546	2,968,614		317: 2,940,725	2,966,469
2,945,128	2,946,891	2,962,592	2,968,615		320: 2,963,265	2,966,470
83: 2,923,825	2,947,871	2,963,587	2,968,616	77: 2,933,283	324: 2,933,285	2,966,471
2,925,498	2,948,812	2,963,588	2,968,617	88: 2,931,618	327: 2,953,346	2,966,472
2,933,604	2,952,019	2,963,589	2,968,618	89: 2,922,615	328: 2,925,991	2,966,473
2,936,372	2,954,474	2,963,590	2,968,619	97: 2,936,151	331: 2,934,314	2,966,474
2,937,279	2,955,207	2,963,591	2,968,620		2,936,998	2,966,475
2,939,011	2,956,166	2,963,592	2,968,621		2,939,676	2,966,476
2,939,959	2,956,167	2,963,593	2,968,622		2,963,266	2,966,477
2,945,129	2,956,168	2,963,594	2,968,623		2,963,578	2,966,478
2,946,890	2,957,084	2,963,595	2,968,624		2,963,580	2,966,479
2,947,870	2,957,085	2,963,596	2,968,625		2,963,582	2,966,480
2,950,392	2,959,679	2,963,597	2,968,626		2,963,584	2,966,481
2,953,685	2,960,609	2,963,598	2,968,627		2,963,586	2,966,482
2,957,080	2,961,543	2,963,599	2,968,628		2,963,588	2,966,483
2,959,678	2,963,587	2,963,600	2,968,629		2,963,590	2,966,484
2,962,591	2,963,588	2,963,601	2,968,630		2,963,592	2,966,485
2,962,592	2,963,589	2,963,602	2,968,631		2,963,594	2,966,486
2,963,581	2,964,632	2,963,603	2,968,632		2,963,596	2,966,487
83.1: 2,920,204	2,964,633	2,963,604	2,968,633		2,963,598	2,966,488
2,926,261	2,965,759	2,963,605	2,968,634		2,963,599	2,966,489
2,929,932	2,966,590	2,963,606	2,968,635		2,963,600	2,966,490
2,933,605	84.5: 2,922,890	2,963,607	2,968,636		2,963,601	2,966,491
2,938,121	2,929,933	2,963,608	2,968,637		2,963,602	2,966,492
2,944,150	2,933,611	2,963,609	2,968,638		2,963,603	2,966,493
2,950,393	2,951,945	2,963,610	2,968,639		2,963,604	2,966,494
2,951,942	2,951,946	2,963,611	2,968,640		2,963,605	2,966,495
83.3: 2,920,205	2,956,169	2,963,612	2,968,641		2,963,606	2,966,496
2,922,887	2,960,610	2,963,613	2,968,642		2,963,607	2,966,497
2,927,212	2,962,593	2,963,614	2,968,643		2,963,608	2,966,498
2,931,906	2,964,634	2,963,615	2,968,644		2,963,609	2,966,499
2,932,743	86: 2,964,635	2,963,616	2,968,645		2,963,610	2,966,500
2,933,606	90: 2,925,499	2,963,617	2,968,646		2,963,611	2,966,501
2,933,607	2,939,015	2,963,618	2,968,647		2,963,612	2,966,502
2,933,608	92: 2,950,394	2,963,619	2,968,648		2,963,613	2,966,503
2,935,613	94: 2,931,908	2,963,620	2,968,649		2,963,614	2,966,504
2,936,373	95: 2,942,114	2,963,621	2,968,650		2,963,615	2,966,505
2,936,374	2,958,782	2,963,622	2,968,651		2,963,616	2,966,506
2,936,375	2,962,594	2,963,623	2,968,652		2,963,617	2,966,507
2,937,280	97: 2,931,909	2,963,624	2,968,653		2,963,618	2,966,508
2,937,281	99: 2,946,892	2,963,625	2,968,654		2,963,619	2,966,509
2,938,122	103: 2,936,376	2,963,626	2,968,655		2,963,620	2,966,510
2,939,012	2,951,947	2,963,627	2,968,656		2,963,621	2,966,511
2,939,013	105: 2,921,202	2,963,628	2,968,657		2,963,622	2,966,512
2,942,110	2,926,262	2,963,629	2,968,658		2,963,623	2,966,513
2,942,111	2,932,744	2,963,630	2,968,659		2,963,624	2,966,514
2,942,112	2,959,680	2,963,631	2,968,660		2,963,625	2,966,515
2,943,200	106: 2,936,377	2,963,632	2,968,661		2,963,626	2,966,516
2,943,201	2,936,378	2,963,633	2,968,662		2,963,627	2,966,517
2,944,151	2,938,125	2,963,634	2,968,663		2,963,628	2,966,518
2,948,810	2,939,961	2,963,635	2,968,664		2,963,629	2,966,519
2,948,811	2,941,079	2,963,636	2,968,665		2,963,630	2,966,520
2,949,535	2,944,153	2,963,637	2,968,666		2,963,631	2,966,521
2,951,159	2,951,162	2,963,638	2,968,667		2,963,632	2,966,522
2,951,160	2,956,761	2,963,639	2,968,668		2,963,633	2,966,523
		2,963,640	2,968,669		2,963,634	2,966,524
		2,963,641	2,968,670		2,963,635	2,966,525
		2,963,642	2,968,671		2,963,636	2,966,526
		2,963,643	2,968,672		2,963,637	2,966,527
		2,963,644	2,968,673		2,963,638	2,966,528
		2,963,645	2,968,674		2,963,639	2,966,529
		2,963,646	2,968,675		2,963,640	2,966,530
		2,963,647	2,968,676		2,963,641	2,966,531
		2,963,648	2,968,677		2,963,642	2,966,532
		2,963,649	2,968,678		2,963,643	2,966,533
		2,963,650	2,968,679		2,963,644	2,966,534
		2,963,651	2,968,680		2,963,645	2,966,535
		2,963,652	2,968,681		2,963,646	2,966,536
		2,963,653	2,968,682		2,963,647	2,966,537
		2,963,654	2,968,683		2,963,648	2,966,538
		2,963,655	2,968,684		2,963,649	2,966,539
		2,963,656	2,968,685		2,963,650	2,966,540
		2,963,657	2,968,686		2,963,651	2,966,541
		2,963,658	2,968,687		2,963,652	2,966,542
		2,963,659	2,968,688		2,963,653	2,966,543
		2,963,660	2,968,689		2,963,654	2,966,544
		2,963,661	2,968,690		2,963,655	2,966,545
		2,963,662	2,968,691		2,963,656	2,966,546
		2,963,663	2,968,692		2,963,657	2,966,547
		2,963,664	2,968,693		2,963,658	2,966,548
		2,963,665	2,968,694			



## Class 252—Con.

33: 2, 943, 052	49. 8: 2, 921, 029	107: 2, 951, 811	301. 6: 2, 937, 150	429: 2, 925, 392	<b>Class 253</b>	78: 2, 919, 890
2, 946, 750	2, 963, 437	2, 963, 438	2, 947, 704	2, 927, 086	2: 2, 927, 768	2, 919, 891
2, 947, 694	2, 965, 570	109: 2, 940, 935	2, 947, 705	2, 938, 000	3: 2, 920, 863	2, 923, 526
2, 951, 809	49. 9: 2, 933, 449	2, 947, 701	2, 950, 257	2, 939, 845	2, 952, 440	2, 924, 425
2, 961, 403	2, 934, 500	2, 954, 347	2, 951, 813	2, 943, 063	22: 2, 949, 277	2, 925, 998
33. 2: 2, 959, 545	2, 938, 871	2, 954, 348	2, 951, 814	2, 951, 045	24: 2, 930, 579	2, 932, 485
33. 3: 2, 927, 079	2, 945, 814	2, 961, 409	2, 952, 642	2, 953, 531	2, 954, 206	2, 937, 000
2, 937, 144	2, 956, 952	2, 961, 410	2, 956, 028	2, 962, 451	26: 2, 926, 886	2, 942, 844
2, 941, 944	50: 2, 965, 571	110: 2, 921, 908	2, 957, 829	430: 2, 929, 792	39: 2, 919, 888	2, 942, 845
2, 945, 812	51. 5: 2, 925, 387	2, 930, 760	2, 957, 830	2, 930, 762	2, 920, 864	2, 945, 673
2, 951, 039	2, 931, 775	116: 2, 925, 390	2, 965, 579	2, 952, 643	2, 921, 769	2, 950, 084
2, 954, 343	2, 944, 025	117: 2, 924, 576	2, 965, 580	2, 963, 447	2, 922, 618	2, 955, 800
2, 961, 404	2, 944, 974	2, 937, 148	2, 966, 464	431: 2, 924, 579	2, 925, 248	2, 956, 775
33. 4: 2, 928, 789	2, 962, 442	2, 937, 997	2, 966, 465	2, 936, 291	2, 925, 249	2, 959, 394
2, 936, 284	52: 2, 954, 345	118: 2, 948, 685	305: 2, 944, 029	2, 939, 846	2, 925, 995	2, 960, 306
2, 944, 021	54. 6: 2, 926, 139	2, 952, 637	307: 2, 949, 426	432: 2, 938, 001	2, 928, 648	2, 962, 260
2, 944, 022	2, 927, 894	121: 2, 944, 977	309: 2, 921, 913	433: 2, 921, 032	2, 928, 649	87: 2, 933, 287
2, 944, 023	2, 959, 552	135: 2, 932, 616	2, 922, 765	435: 2, 960, 477	2, 931, 621	122: 2, 942, 846
2, 948, 681	2, 947, 697	2, 941, 947	2, 940, 938	437: 2, 920, 049	2, 931, 622	136: 2, 926, 887
2, 954, 344	55: 2, 929, 786	136: 2, 937, 149	2, 929, 790	439: 2, 939, 847	2, 934, 316	143: 2, 922, 621
2, 956, 020	2, 956, 953	2, 955, 087	2, 931, 779	2, 964, 480	2, 935, 294	2, 937, 888
2, 958, 660	2, 959, 553	2, 920, 045	2, 940, 939	440: 2, 941, 957	2, 936, 999	<b>Class 254</b>
2, 959, 546	2, 961, 406	2, 921, 909	2, 951, 444	441: 2, 928, 792	2, 937, 847	1: 2, 927, 769
2, 961, 405	2, 962, 443	2, 927, 081	2, 956, 957	2, 930, 763	2, 937, 847	2, 927, 769
2, 966, 461	57: 2, 930, 759	2, 927, 081	2, 956, 958	2, 944, 032	2, 938, 705	2, 931, 626
33. 6: 2, 921, 902	2, 937, 996	2, 929, 788	316: Re. 24, 899	442: 2, 927, 087	2, 941, 780	2, 946, 556
2, 940, 929	2, 956, 954	2, 932, 617	2, 954, 350	2, 932, 660	2, 941, 781	2, 921, 771
2, 945, 813	2, 965, 572	2, 936, 288	2, 958, 665	2, 959, 557	2, 943, 839	2, 926, 888
2, 947, 695	58: 2, 926, 140	2, 947, 702	2, 927, 083	443: 2, 940, 940	2, 945, 670	2, 947, 513
2, 947, 696	2, 927, 895	2, 965, 576	2, 945, 817	2, 944, 988	2, 951, 677	2, 955, 801
2, 951, 040	62. 1: 2, 940, 934	138: 2, 941, 948	2, 966, 466	2, 950, 258	2, 960, 305	2, 960, 307
2, 956, 021	2, 965, 573	2, 945, 815	319: 2, 962, 450	444: 2, 943, 064	2, 962, 256	4: 2, 964, 293
2, 956, 022	62. 2: 2, 941, 946	2, 949, 425	320: 2, 949, 427	447: 2, 920, 050	2, 963, 288	8: 2, 937, 850
2, 957, 826	2, 944, 026	2, 952, 638	321: 2, 923, 687	2, 920, 051	2, 963, 288	10: 2, 925, 999
2, 958, 661	62. 3: 2, 921, 905	143: 2, 932, 618	2, 923, 688	449: 2, 921, 033	2, 963, 288	2, 956, 776
2, 959, 547	2, 935, 478	148: 2, 965, 577	2, 931, 780	2, 941, 958	2, 963, 288	12: 2, 933, 288
34. 7: 2, 939, 842	2, 944, 975	149: 2, 947, 703	2, 965, 581	2, 925, 393	2, 963, 288	15: 2, 948, 507
2, 951, 041	2, 953, 529	2, 956, 956	331: 2, 944, 979	2, 928, 793	2, 963, 288	17: 2, 956, 777
35: 2, 922, 762	2, 956, 023	2, 959, 555	2, 944, 980	2, 934, 504	2, 963, 288	18: 2, 928, 654
2, 953, 527	2, 923, 683	151: 2, 941, 949	2, 944, 981	2, 941, 959	2, 963, 288	17: 2, 956, 777
2, 962, 440	2, 923, 684	2, 963, 439	2, 944, 982	2, 945, 823	2, 963, 288	22: 2, 928, 654
37. 2: 2, 921, 903	2, 923, 685	152: 2, 921, 030	2, 964, 478	2, 960, 478	2, 963, 288	18: 2, 928, 654
2, 921, 904	2, 924, 573	2, 927, 900	340: 2, 920, 047	451: 2, 933, 456	2, 963, 288	26: 2, 920, 869
2, 932, 615	2, 925, 388	2, 930, 761	342: 2, 943, 061	452: 2, 247, 708	2, 963, 288	2, 922, 622
2, 939, 843	2, 925, 389	2, 950, 253	2, 944, 978	453: 2, 951, 815	2, 963, 288	2, 966, 334
39: 2, 927, 892	2, 927, 896	2, 950, 254	344: 2, 944, 983	2, 961, 414	2, 963, 288	28: 2, 940, 727
2, 935, 477	2, 927, 897	2, 950, 255	2, 944, 984	2, 921, 034	2, 963, 288	29: 2, 935, 298
2, 940, 930	2, 927, 898	2, 962, 448	2, 944, 985	2, 935, 483	2, 963, 288	2, 950, 085
2, 940, 931	2, 929, 787	153: 2, 927, 901	353: 2, 933, 452	2, 941, 960	2, 963, 288	2, 963, 273
2, 955, 084	2, 936, 287	2, 929, 789	2, 945, 818	2, 941, 961	2, 963, 288	2, 964, 294
2, 962, 441	2, 946, 752	2, 941, 950	356: 2, 944, 030	2, 945, 824	2, 963, 288	2, 965, 356
40: 2, 929, 780	2, 946, 753	2, 943, 058	359: 2, 920, 048	2, 947, 709	2, 963, 288	35: 2, 948, 508
2, 929, 781	2, 950, 251	2, 948, 686	2, 935, 482	2, 955, 090	2, 963, 288	50. 3: 2, 919, 892
2, 929, 782	2, 950, 252	156: 2, 931, 778	2, 944, 986	2, 956, 030	2, 963, 288	2, 932, 527
2, 946, 751	2, 951, 042	161: 2, 921, 910	2, 958, 666	2, 963, 448	2, 963, 288	2, 939, 677
2, 959, 548	2, 951, 810	2, 926, 142	363. 5: 2, 949, 428	2, 964, 481	2, 963, 288	2, 939, 678
2, 959, 549	2, 954, 346	2, 933, 451	364: 2, 942, 008	2, 920, 052	2, 963, 288	2, 954, 962
40. 5: 2, 929, 783	2, 955, 085	2, 938, 872	367: 2, 945, 819	2, 921, 035	2, 963, 288	2, 955, 802
2, 940, 932	2, 956, 024	2, 940, 936	372: 2, 944, 987	2, 927, 902	2, 963, 288	2, 957, 677
2, 944, 024	2, 956, 955	2, 941, 951	373: 2, 924, 577	2, 943, 066	2, 963, 288	2, 966, 333
40. 7: 2, 929, 784	2, 957, 827	2, 941, 952	2, 924, 578	2, 960, 479	2, 963, 288	2, 966, 333
2, 930, 757	2, 958, 664	2, 944, 028	2, 946, 754	464: 2, 938, 002	2, 963, 288	465: 2, 932, 620
2, 943, 053	2, 960, 470	2, 945, 816	376: 2, 960, 476	465: 2, 932, 620	2, 963, 288	2, 933, 067
2, 943, 054	2, 960, 471	2, 952, 639	378: 2, 945, 820	2, 952, 644	2, 963, 288	2, 952, 644
2, 943, 055	2, 960, 472	2, 956, 025	386: 2, 965, 582	2, 920, 053	2, 963, 288	2, 922, 767
2, 958, 662	2, 961, 407	2, 956, 026	389: 2, 941, 953	2, 922, 767	2, 963, 288	2, 925, 394
2, 959, 550	2, 962, 444	170: 2, 935, 479	392: 2, 945, 821	2, 922, 767	2, 963, 288	2, 925, 394
41: 2, 929, 785	2, 962, 445	171: 2, 951, 043	396: 2, 959, 556	2, 922, 767	2, 963, 288	2, 922, 767
2, 937, 993	2, 962, 445	179: 2, 943, 059	401: 2, 936, 290	2, 922, 767	2, 963, 288	2, 922, 767
42: 2, 953, 528	2, 947, 698	181: 2, 934, 503	408: 2, 964, 479	2, 922, 767	2, 963, 288	2, 922, 767
42. 7: 2, 936, 285	68: 2, 943, 057	2, 936, 289	2, 928, 791	2, 922, 767	2, 963, 288	2, 922, 767
2, 959, 551	73: 2, 933, 450	181. 6: 2, 960, 475	2, 929, 791	2, 922, 767	2, 963, 288	2, 922, 767
2, 960, 469	2, 951, 038	182: 2, 943, 060	2, 963, 442	2, 922, 767	2, 963, 288	2, 922, 767
2, 963, 434	74: 2, 923, 686	186: 2, 927, 082	2, 966, 467	2, 922, 767	2, 963, 288	2, 922, 767
2, 966, 462	75: 2, 937, 145	2, 935, 480	412: 2, 933, 453	2, 922, 767	2, 963, 288	2, 922, 767
46. 4: 2, 938, 869	2, 937, 146	2, 937, 998	413: 2, 955, 089	2, 922, 767	2, 963, 288	2, 922, 767
46. 6: 2, 948, 682	2, 948, 683	2, 962, 449	2, 956, 029	2, 922, 767	2, 963, 288	2, 922, 767
46. 7: 2, 927, 080	2, 960, 473	187: 2, 921, 031	2, 966, 468	2, 922, 767	2, 963, 288	2, 922, 767
2, 928, 790	2, 961, 408	2, 921, 911	414: 2, 925, 391	2, 922, 767	2, 963, 288	2, 922, 767
2, 930, 758	2, 944, 976	2, 963, 440	2, 945, 822	2, 922, 767	2, 963, 288	2, 922, 767
2, 963, 435	2, 947, 699	188. 3: 2, 961, 411	2, 961, 411	2, 922, 767	2, 963, 288	2, 922, 767
47: 2, 924, 572	2, 920, 044	190: 2, 963, 441	416: 2, 941, 954	2, 922, 767	2, 963, 288	2, 922, 767
47. 5: 2, 922, 763	2, 924, 574	194: 2, 951, 812	2, 946, 755	2, 922, 767	2, 963, 288	2, 922, 767
2, 925, 386	2, 924, 575	2, 957, 828	2, 947, 706	2, 922, 767	2, 963, 288	2, 922, 767
2, 940, 938	2, 934, 501	300: 2, 954, 349	2, 963, 443	2, 922, 767	2, 963, 288	2, 922, 767
2, 944, 973	2, 934, 502	2, 965, 578	2, 963, 444	2, 922, 767	2, 963, 288	2, 922, 767
2, 958, 663	2, 960, 474	301. 1: 2, 952, 640	2, 963, 445	2, 922, 767	2, 963, 288	2, 922, 767
48. 2: 2, 922, 764	2, 962, 446	2, 952, 641	417: 2, 926, 143	2, 922, 767	2, 963, 288	2, 922, 767
2, 943, 056	2, 965, 574	2, 955, 088	418: 2, 941, 955	2, 922, 767	2, 963, 288	2, 922, 767
2, 956, 951	79: 2, 921, 906	301. 2: 2, 937, 999	2, 941, 956	2, 922, 767	2, 963, 288	2, 922, 767
48. 4: 2, 938, 870	99: 2, 931, 776	2, 938, 873	419: 2, 922, 766	2, 922, 767	2, 963, 288	2, 922, 767
48. 6: 2, 941, 945	2, 959, 554	2, 940, 937	2, 933, 454	2, 922, 767	2, 963, 288	2, 922, 767
49. 6: 2, 927, 893	102: 2, 947, 700	2, 950, 256	2, 947, 707	2, 922, 767	2, 963, 288	2, 922, 767
2, 931, 774	106: 2, 931, 777	2, 953, 530	420: 2, 963, 446	2, 922, 767	2, 963, 288	2, 922, 767
2, 950, 250	2, 955, 575	2, 956, 027	421: 2, 932, 619	2, 922, 767	2, 963, 288	2, 922, 767
49. 7: 2, 920, 043	107: 2, 921, 907	301. 3: 2, 935, 481	2, 944, 031	2, 922, 767	2, 963, 288	2, 922, 767
2, 921, 028	2, 926, 141	301. 4: 2, 920, 046	426: 2, 927, 084			



104: 2,932,487	2.5: 2,923,531	65: 2,945,679	266: 2,938,713	151: 2,942,860	2.5: 2,966,470	23: 2,933,465
105: 2,919,896	2,937,006	2,946,568	267: 2,925,254	2,964,302	2,966,471	2,934,507
2,935,301	2,946,566	70: 2,963,275	2,963,279	154: 2,948,519	3: 2,938,876	2,938,877
106: 2,938,706	4: 2,925,252		2,964,298	2,954,215	2,944,989	2,940,946
2,966,336	2,937,007	<b>Class 257</b>	2,965,361	159: 2,945,683	2,944,990	2,941,968
110: 2,962,261	2,937,008	1: 2,924,435	268: 2,936,160	160: 2,940,739	2,962,457	2,943,069
111: 2,951,679	2,944,792	2,940,733	269: 2,932,492	161: 2,950,906	4: 2,932,622	2,943,070
113: 2,930,583	2,958,511	2,946,569	2,942,857	165: 2,945,684	2,957,833	2,944,037
122: 2,920,871	4.4: 2,942,850	2,949,282	2,945,681	167: 2,937,012	2,963,452	2,950,264
2,937,852	2,942,851	2,950,904	270: 2,937,010	171: 2,956,790	5: 2,947,710	2,951,050
129: 2,921,773	2,947,519	2,962,264	2,944,798	177: 2,944,799	6: 2,923,691	2,951,051
131: 2,929,609	2,950,087	2,966,339	2,946,573	2,961,225	2,940,942	2,951,052
2,937,004	2,950,088	2,966,339			8: 2,948,692	2,952,648
132: 2,926,890	2,950,901	32: 2,919,903		<b>Class 260</b>	2,956,962	2,953,537
2,928,655	2,951,682	2,941,786		2: 2,921,037	2,962,458	2,956,035
133: 2,960,309	2,953,351	2,946,570		2,923,690	2,963,454	2,956,969
134: 2,962,262	5: 2,927,773	2,928,659		2,924,580	9: 2,933,463	2,956,970
134.3: 2,923,528	19: 2,919,899	43: 2,939,685		2,926,145	2,944,034	2,956,971
2,928,656	2,939,681	2,946,571		2,928,794	2,954,351	2,961,419
2,930,584	2,945,676	2,956,784		2,931,781	2,956,963	2,963,455
2,946,558	2,945,677	2,962,265		2,933,459	2,928,795	2,964,484
2,946,559	2,959,398	73: 2,960,314		2,934,505	2,954,352	2,964,485
2,946,560	2,960,311	86: 2,946,572		2,936,292	15: 2,937,153	2,964,486
2,953,349	20: 2,946,567	95: 2,919,904		2,938,004	2,940,943	2,964,487
2,966,337	21: 2,950,902	2,936,158		2,938,875	2,952,645	2,965,589
139: 2,931,627	22: 2,933,290	2,964,297		2,939,849	2,956,964	2,965,590
139.1: 2,948,510	2,939,682	106: 2,926,002		2,941,963	16: 2,920,054	2,965,591
2,957,678	2,956,782	108: 2,951,684		2,946,756	17: 2,951,047	23.7: 2,927,091
144: 2,928,657	23: 2,927,774	122: 2,937,009		2,948,688	17.2: 2,930,772	2,933,466
145: 2,946,561	2,939,683	124: 2,924,436		2,948,689	2,957,834	2,935,485
150: 2,938,707	24: 2,920,872	2,930,590		2,956,959	2,962,459	2,944,038
2,966,338	2,944,793	2,956,785		2,962,453	17.3: 2,953,534	2,954,356
156: 2,922,623	2,944,794	130: 2,924,437		2,963,451	17.4: 2,922,768	2,955,093
159: 2,937,853	26: 2,935,302	2,926,003		2,933,460	2,923,692	2,956,972
161: 2,944,788	27: 2,922,626	2,957,679		2,944,033	2,935,494	2,958,667
2,946,562	28: 2,919,900	2,965,357		2,946,757	2,955,092	2,962,456
164: 2,946,563	2,924,433	133: 2,927,780		2,946,758	17.5: 2,923,693	2,963,456
166: 2,946,564	2,924,434	2,930,591		2,951,818	2,954,353	24: 2,947,714
2,948,511	2,937,854	2,934,320		2,960,480	2,956,033	2,948,694
167: 2,927,771	2,940,730	2,963,276		2,961,417	18: 2,921,040	26: 2,938,006
168: 2,924,429	2,953,352	137: 2,948,515		2,926,146	2,926,148	27: 2,921,918
2,924,430	2,956,783	2,949,283		2,930,768	2,930,773	2,927,092
2,939,680	2,958,512	148: 2,926,004		2,948,690	2,934,506	2,933,467
2,958,509	2,958,513	154: 2,924,438		2,953,532	2,939,853	2,943,071
2,960,310	2,961,219	2,932,489		2,962,454	2,944,035	2,959,500
172: 2,948,512	35: 2,926,891	2,933,291		2,963,453	2,944,036	2,961,420
2,959,396	2,947,520	171: 2,961,220		2,921,038	2,947,711	2,965,592
2,961,216	2,947,521	180: 2,932,490		2,926,149	2,947,712	28: 2,928,798
173: Re.24.818	36: 2,935,303	192: 2,948,516		2,926,150	2,956,034	2,928,799
2,922,624	2,953,353	195: 2,943,841		2,937,151	2,960,483	2,951,053
2,926,000	43: 2,942,852	199: 2,930,592		2,939,850	2,966,472	2,957,838
2,931,628	45: 2,929,611	208: 2,940,734		2,966,468	19: 2,921,041	28.5: 2,921,313
2,944,789	47: 2,925,253	2,950,094		2,921,039	2,926,149	2,921,919
2,950,086	2,930,587	215: 2,960,315		2,921,039	2,926,150	2,935,486
2,958,510	2,938,514	222: 2,942,855		2,921,915	2,927,089	2,944,039
175.7: 2,947,516	50: 2,919,901	227: 2,961,221		2,921,916	2,930,774	2,948,695
185: 2,922,625	51: 2,949,280	230: 2,920,873		2,924,581	2,937,154	2,948,696
2,945,675	61: 2,930,588	2,938,712		2,926,147	2,943,068	2,952,649
2,954,209	2,931,630	2,956,786		2,927,904	2,946,759	2,952,650
186: 2,927,772	2,940,731	2,965,358		2,927,905	2,947,713	2,956,036
2,930,585	2,945,678	235: 2,919,905		2,929,793	2,953,535	2,962,463
2,947,517	2,950,089	2,940,735		2,926,006	2,956,965	2,962,464
2,961,217	2,950,903	2,951,685		2,942,859	2,956,966	29.1: 2,940,947
187: 2,944,790	2,953,354	2,954,965		8: 2,953,359	2,956,967	2,954,357
2,956,778	2,954,211	236: 2,936,159		2,932,621	20: 2,952,646	29.2: 2,926,154
2,956,779	2,960,312	2,956,787		2,933,461	2,927,090	2,948,697
2,961,218	63: 2,938,709	2,966,340		2,933,462	2,940,944	2,951,054
190: 2,926,001	64: 2,955,804	238: 2,937,855		2,936,293	2,940,945	2,957,839
2,948,513	69: 2,955,805	239: 2,919,906		2,936,294	2,945,829	29.3: 2,931,782
2,949,279	72: 2,919,902	2,920,874		2,937,152	2,948,693	29.4: 2,937,155
2,956,780	2,927,775	245: 2,934,321		2,938,005	2,951,048	2,966,473
192: 2,923,529	2,927,776	2,937,856		2,939,851	2,952,647	29.6: 2,921,920
2,924,431	2,929,612	2,939,686		2,939,852	2,953,536	2,923,694
195: 2,931,629	2,944,795	2,940,736		2,941,964	2,956,968	2,928,800
	2,951,683	2,941,787		2,941,965	2,957,835	2,930,775
<b>Class 255</b>	76: 2,922,627	2,945,680		2,941,966	2,957,836	2,937,156
1: 2,924,432	2,941,785	2,952,444		2,941,967	2,959,558	2,940,948
2,941,783	2,944,796	2,952,445		2,945,826	2,960,484	2,941,969
1.4: 2,923,530	300: 2,938,710	2,959,400		2,945,827	2,962,460	2,941,970
2,928,658	308: 2,960,313	2,959,401		2,945,828	2,922,769	2,945,831
2,937,005	314: 2,950,090	2,961,222		2,948,691	2,928,796	2,946,760
2,944,791	327: 2,949,281	2,965,359		2,949,431	2,932,623	2,946,761
2,947,518	347: 2,927,777	248: 2,927,781		2,950,261	2,939,854	2,946,762
2,959,397	349: 2,927,778	2,948,517		2,950,262	2,944,991	2,947,715
1.6: 2,919,897	2,939,684	2,965,360		2,950,263	2,945,830	2,952,651
2,950,900		250: 2,935,305		2,951,819	2,951,049	2,954,358
2,953,350		2,935,306		2,953,533	2,951,820	2,956,973
2,956,781		2,942,856		2,955,091	2,954,354	2,958,668
1.8: 2,919,898	7: 2,959,399	255: 2,950,902		2,956,031	2,954,355	2,959,561
2,925,251	8: 2,940,732	2,954,213		2,956,032	2,957,837	2,961,421
2,929,610	11: 2,954,212	256: 2,921,774		2,956,960	2,959,559	2,962,465
2,930,586	13.1: 2,942,853	2,932,491		2,956,961	2,960,485	2,963,457
2,938,708	17: 2,938,711	2,934,322		2,957,831	2,962,461	2,965,593
2,940,729	2,950,091	2,940,737		2,957,832	2,964,482	2,965,594
2,941,784	19: 2,927,779	2,950,933		2,960,481	2,964,483	2,965,595
2,942,849	2,955,806	262.11: 2,963,277		2,960,482	2,965,587	2,965,596
2,946,555	21: 2,932,488	262.18: 2,959,402		2,961,418	2,965,588	29.7: 2,933,468
2,948,514	22: 2,944,797	2,962,263		2,962,455	2,962,455	2,933,469
2,951,680	34: 2,954,964	263: 2,933,292		2,965,584	2,926,152	2,936,295
2,951,681	48: 2,935,304	2,958,515		2,965,585	2,926,153	2,939,855
2,954,210	64: 2,930,589	265: 2,951,686		2,965,586	2,928,797	2,941,971
	2,942,854	2,963,278		2,966,469	2,933,464	2,944,040
						2,955,094



## Class 260—Con.

30. 2: 2, 953, 538	41. 5: 2, 943, 073	45. 7: 2, 952, 659	47: 2, 921, 049	75: 2, 939, 863	79. 5: 2, 932, 627	88. 1: 2, 934, 525
2, 956, 974	2, 944, 042	2, 952, 660	2, 921, 050	2, 941, 982	2, 943, 078	2, 934, 526
30. 4: 2, 921, 042	2, 945, 834	2, 953, 542	2, 921, 923	2, 945, 007	2, 943, 079	2, 954, 367
2, 924, 582	2, 948, 700	2, 955, 099	2, 923, 696	2, 945, 008	2, 951, 830	88. 2: 2, 920, 064
2, 924, 583	2, 948, 701	2, 956, 043	2, 925, 403	2, 945, 009	2, 955, 102	2, 921, 053
2, 941, 972	2, 952, 657	2, 957, 848	2, 926, 156	2, 945, 010	2, 958, 680	2, 921, 054
2, 956, 975	2, 964, 489	2, 960, 486	2, 928, 807	2, 945, 840	2, 959, 573	2, 924, 590
2, 957, 840	2, 964, 490	2, 962, 473	2, 928, 808	2, 946, 769	2, 962, 481	2, 925, 408
30. 6: 2, 922, 770	2, 965, 600	2, 965, 603	2, 928, 809	2, 947, 729	2, 965, 619	2, 926, 159
2, 925, 397	42: 2, 927, 909	2, 924, 586	2, 928, 810	2, 951, 060	79. 7: 2, 923, 700	2, 927, 103
2, 934, 509	2, 951, 822	2, 932, 624	2, 928, 811	2, 951, 827	2, 933, 479	2, 928, 814
2, 941, 973	2, 957, 844	2, 935, 491	2, 930, 778	2, 952, 664	2, 945, 843	2, 929, 807
2, 949, 432	2, 957, 845	2, 936, 299	2, 933, 471	2, 954, 364	2, 947, 730	2, 930, 782
2, 952, 652	2, 962, 468	2, 938, 013	2, 933, 472	2, 956, 984	2, 947, 731	2, 934, 527
2, 956, 037	43: 2, 920, 058	2, 944, 045	2, 933, 473	2, 956, 985	80: 2, 958, 681	2, 935, 495
2, 956, 976	2, 927, 094	2, 954, 362	2, 934, 520	2, 957, 852	80. 3: 2, 927, 911	2, 936, 496
2, 963, 458	2, 927, 910	2, 954, 363	2, 934, 521	2, 961, 430	2, 952, 668	2, 943, 081
2, 963, 460	2, 928, 803	2, 958, 675	2, 935, 492	2, 965, 613	2, 958, 682	2, 944, 047
30. 8: 2, 927, 906	2, 939, 558	2, 959, 568	2, 938, 014	77. 5: 2, 921, 926	80. 5: 2, 933, 480	2, 945, 015
2, 952, 653	2, 945, 835	2, 960, 489	2, 939, 862	2, 921, 927	2, 934, 524	2, 948, 711
2, 955, 095	2, 948, 702	2, 964, 495	2, 940, 953	2, 926, 157	2, 941, 985	2, 953, 552
31. 2: 2, 920, 055	2, 950, 266	2, 964, 496	2, 941, 981	2, 927, 098	2, 947, 732	2, 055, 105
2, 922, 771	2, 954, 360	2, 965, 606	2, 945, 003	2, 929, 800	2, 949, 442	2, 956, 989
2, 938, 878	2, 957, 846	45. 8: 2, 921, 922	2, 945, 004	2, 929, 801	2, 949, 443	2, 957, 855
2, 956, 977	2, 964, 491	2, 922, 776	2, 946, 766	2, 929, 802	2, 949, 444	2, 963, 469
31. 4: 2, 923, 695	2, 965, 601	2, 922, 777	2, 946, 767	2, 929, 803	2, 956, 046	2, 963, 470
2, 940, 949	45. 2: 2, 949, 433	2, 941, 979	2, 947, 725	2, 929, 804	2, 957, 853	2, 964, 509
2, 956, 978	2, 961, 424	2, 944, 998	2, 947, 726	2, 930, 780	2, 957, 854	
31. 6: 2, 920, 056	45. 3: 2, 939, 857	2, 944, 999	2, 948, 705	2, 933, 477	80. 7: 2, 929, 806	88. 3: 2, 927, 913
2, 927, 093	45. 4: 2, 924, 585	2, 945, 837	2, 951, 824	2, 933, 478	2, 937, 164	2, 934, 528
2, 950, 265	2, 928, 804	2, 946, 765	2, 951, 825	2, 935, 494	2, 950, 270	2, 938, 017
2, 953, 539	2, 928, 805	2, 947, 720	2, 953, 544	2, 941, 983	2, 951, 831	2, 947, 736
31. 8: 2, 934, 510	2, 929, 794	2, 951, 056	2, 953, 545	2, 941, 984	82: 2, 946, 775	2, 957, 856
2, 938, 007	2, 930, 776	2, 955, 100	2, 955, 101	2, 945, 841	2, 963, 467	88. 7: 2, 921, 055
2, 945, 832	2, 931, 784	2, 959, 566	2, 957, 850	2, 946, 770	2, 964, 504	2, 926, 160
2, 949, 433	2, 934, 513	2, 962, 474	2, 960, 493	2, 946, 771	2, 947, 733	2, 946, 776
2, 957, 841	2, 935, 487	2, 962, 475	2, 961, 426	2, 946, 772	82. 1: 2, 947, 733	2, 961, 433
2, 958, 669	2, 935, 488	2, 964, 493	2, 961, 427	2, 946, 773	82. 3: 2, 964, 505	89. 1: 2, 965, 623
2, 961, 422	2, 935, 489	2, 965, 604	2, 964, 499	2, 948, 707	83. 3: 2, 925, 407	89. 5: 2, 956, 049
2, 963, 461	2, 936, 297	45. 85: 2, 925, 400	2, 965, 607	2, 948, 708	83. 5: 2, 927, 100	2, 956, 990
2, 965, 598	2, 939, 858	2, 934, 518	2, 965, 608	2, 951, 828	2, 931, 790	89. 7: 2, 926, 161
32. 2: 2, 953, 540	2, 941, 976	2, 938, 883	2, 965, 609	2, 952, 665	83. 7: 2, 928, 813	91. 1: 2, 927, 914
32. 4: 2, 963, 462	2, 944, 996	2, 943, 076	2, 965, 610	2, 952, 666	2, 951, 061	2, 953, 553
32. 6: 2, 922, 772	2, 947, 717	2, 945, 000	2, 965, 611	2, 954, 365	2, 963, 459	91. 3: 2, 941, 988
2, 922, 773	2, 951, 823	2, 947, 722	2, 966, 478	2, 956, 986	2, 964, 506	2, 950, 271
2, 931, 783	2, 954, 361	2, 952, 661	49: 2, 925, 404	2, 959, 570	84. 1: 2, 932, 628	91. 5: 2, 932, 629
2, 938, 008	2, 959, 564	2, 956, 982	2, 961, 428	2, 959, 571	84. 3: 2, 922, 781	92. 1: 2, 936, 301
2, 938, 788	2, 962, 469	2, 960, 490	51: 2, 927, 096	2, 963, 465	85. 3: 2, 927, 101	2, 958, 685
2, 938, 879	2, 962, 470	2, 960, 491	2, 960, 494	2, 963, 466	2, 927, 912	92. 8: 2, 934, 529
2, 944, 992	2, 962, 471	2, 962, 476	53: 2, 931, 787	2, 964, 501	2, 930, 781	2, 957, 857
2, 948, 698	2, 965, 602	2, 964, 497	2, 945, 005	2, 965, 614	2, 931, 791	2, 957, 858
2, 952, 654	45. 5: 2, 921, 043	45. 9: 2, 920, 059	56: 2, 937, 158	2, 965, 615	2, 940, 960	93. 1: 2, 932, 630
2, 956, 979	2, 921, 044	2, 921, 047	57: 2, 923, 697	2, 921, 923	2, 948, 709	93. 3: 2, 932, 631
2, 957, 842	2, 921, 045	2, 921, 048	2, 927, 097	2, 923, 699	2, 953, 549	93. 5: 2, 920, 065
2, 958, 670	2, 921, 921	2, 926, 155	58: 2, 938, 884	2, 931, 789	2, 955, 103	2, 931, 792
32. 8: 2, 940, 950	2, 922, 774	2, 929, 796	59: 2, 934, 522	2, 937, 162	2, 958, 684	2, 931, 793
2, 941, 974	2, 922, 775	2, 929, 797	2, 937, 159	2, 937, 162	2, 962, 482	2, 943, 530
33. 2: 2, 957, 843	2, 925, 399	2, 930, 777	2, 940, 954	2, 938, 885	2, 965, 620	2, 941, 989
2, 964, 488	2, 927, 095	2, 931, 785	2, 951, 058	2, 940, 956	2, 965, 621	2, 941, 990
33. 4: 2, 936, 296	2, 929, 795	2, 934, 514	62: 2, 933, 474	2, 945, 011	85. 5: 2, 920, 063	2, 952, 670
2, 965, 599	2, 934, 515	2, 936, 298	2, 965, 612	2, 949, 440	2, 921, 932	2, 958, 686
33. 6: 2, 924, 584	2, 934, 516	2, 938, 882	63: 2, 931, 788	2, 950, 269	2, 923, 701	2, 958, 687
2, 925, 398	2, 934, 517	2, 939, 861	2, 933, 475	2, 952, 667	2, 940, 961	2, 962, 485
2, 945, 833	2, 939, 859	2, 945, 838	2, 945, 839	2, 953, 548	2, 941, 986	2, 963, 471
2, 952, 655	2, 939, 860	2, 947, 721	2, 961, 429	2, 956, 987	2, 948, 710	
2, 955, 096	2, 940, 952	2, 956, 981	2, 962, 477	2, 958, 677	2, 956, 047	93. 7: 2, 921, 056
2, 955, 097	2, 941, 977	2, 959, 567	2, 962, 478	2, 959, 572	2, 959, 574	2, 921, 057
2, 956, 038	2, 941, 978	2, 960, 487	65: 2, 945, 006	2, 965, 616	2, 965, 622	2, 925, 409
2, 966, 474	2, 943, 074	2, 960, 488	66: 2, 948, 706	2, 945, 012	85. 7: 2, 954, 366	2, 925, 410
33. 8: 2, 959, 562	2, 943, 075	2, 964, 494	67: 2, 924, 589	2, 949, 440	2, 966, 480	2, 927, 915
37: 2, 927, 907	2, 944, 043	2, 965, 605	2, 947, 727	2, 950, 269	86. 1: 2, 945, 013	2, 928, 815
2, 933, 470	2, 944, 997	45. 95: 2, 922, 778	2, 947, 728	2, 952, 667	2, 945, 844	2, 930, 783
2, 938, 009	2, 945, 836	2, 925, 401	2, 951, 059	2, 953, 549	2, 949, 445	2, 933, 482
2, 938, 010	2, 946, 763	2, 937, 157	2, 951, 826	2, 956, 987	2, 966, 481	2, 933, 483
2, 938, 011	2, 947, 718	2, 941, 980	2, 957, 851	2, 958, 678	86. 3: 2, 947, 734	2, 935, 497
2, 938, 880	2, 947, 719	2, 945, 001	2, 958, 676	2, 966, 479	2, 953, 550	2, 935, 498
2, 940, 951	2, 948, 703	2, 945, 002	2, 963, 464	78. 5: 2, 921, 930	86. 7: 2, 953, 551	2, 935, 499
2, 944, 993	2, 949, 435	2, 947, 723	2, 964, 500	2, 936, 300	87. 1: 2, 951, 062	2, 936, 302
2, 956, 039	2, 949, 436	2, 947, 724	2, 948, 704	2, 938, 887	2, 961, 432	2, 936, 303
2, 962, 466	2, 949, 437	2, 949, 439	67. 6: 2, 920, 061	2, 938, 887	2, 962, 483	2, 938, 018
2, 962, 467	2, 949, 438	2, 952, 662	2, 921, 924	2, 940, 957	87. 3: 2, 945, 014	2, 938, 019
38: 2, 934, 511	2, 950, 267	2, 953, 543	2, 929, 798	2, 946, 774	2, 947, 735	2, 940, 962
2, 966, 475	2, 953, 541	2, 956, 983	2, 929, 799	2, 965, 617	87. 5: 2, 927, 102	2, 943, 082
40: 2, 943, 072	2, 955, 098	2, 957, 849	2, 944, 046	2, 965, 618	2, 938, 888	2, 946, 777
2, 944, 994	2, 956, 041	2, 964, 498	69: 2, 950, 268	79: 2, 926, 158	2, 938, 889	2, 946, 778
41: 2, 927, 908	2, 956, 042	2, 966, 476	70: 2, 923, 698	2, 964, 502	2, 943, 080	2, 946, 779
2, 928, 801	2, 956, 980	2, 966, 477	2, 934, 523	79. 1: 2, 940, 958	2, 949, 446	2, 948, 712
2, 934, 512	2, 957, 847	46: 2, 952, 663	72: 2, 930, 779	2, 940, 959	2, 951, 063	2, 949, 447
2, 938, 012	2, 958, 671	2, 935, 493	2, 935, 493	2, 960, 495	2, 951, 064	2, 951, 066
2, 944, 995	2, 958, 672	2, 953, 546	2, 953, 546	2, 964, 503	2, 951, 832	2, 951, 833
2, 947, 716	2, 958, 673	2, 924, 587	73: 2, 940, 955	79. 3: 2, 920, 062	2, 952, 669	2, 954, 368
2, 948, 699	2, 958, 674	2, 924, 588	2, 953, 547	2, 937, 163	2, 959, 575	2, 955, 106
2, 951, 821	2, 959, 565	2, 925, 402	2, 962, 479	2, 943, 077	2, 962, 484	2, 955, 107
2, 952, 656	2, 962, 472	2, 928, 806	75: 2, 921, 051	2, 945, 842	2, 963, 468	2, 956, 991
2, 954, 359	2, 963, 463	2, 931, 786	2, 921, 052	2, 958, 679	2, 964, 507	2, 956, 992
2, 956, 040	2, 964, 492	2, 934, 519	2, 921, 925	2, 961, 431	2, 966, 482	2, 957, 859
2, 959, 563	45. 7: 2, 921, 046	2, 951, 057	2, 922, 779	2, 962, 480	87. 7: 2, 933, 481	2, 958, 688
2, 961, 423	2, 935, 490	2, 956, 044	2, 925, 405	79. 5: 2, 921, 931	2, 941, 987	2, 961, 434
41. 5: Re. 24, 904	2, 938, 881	2, 956, 045	2, 932, 625	2, 922, 780	2,	



94.3: 2,953,554	112: 2,938,023	210: 2,921,062	239.5: 2,937,168	240.5: 2,951,841	250: 2,946,790	286: 2,946,797
2,965,625	2,938,891	2,921,063	2,938,030	240.65: 2,921,067	2,957,874	2,948,729
94.7: 2,953,555	2,938,892	2,923,705	2,945,026	241: 2,964,524	2,960,504	2,960,506
2,953,556	2,948,714	2,925,411	2,945,852	242: 2,921,068	2,963,477	287: 2,924,600
2,962,488	2,953,558	2,926,162	2,959,584	243: 2,921,069	2,925,419	2,926,167
94.8: 2,927,104	2,953,559	2,931,796	2,965,640	2,921,935	2,933,497	2,929,817
94.9: 2,920,066	117: 2,920,068	2,931,797	239.55: 2,920,073	2,926,164	2,937,174	2,933,499
2,920,067	2,928,822	2,931,798	2,921,064	2,931,810	2,944,056	2,933,500
2,921,058	119: 2,927,916	2,936,307	2,921,065	2,933,495	2,946,791	2,938,906
2,921,060	123.5: 2,946,780	2,938,025	2,923,708	2,933,496	2,948,724	2,952,682
2,921,933	124: 2,934,531	2,938,899	2,923,709	2,934,533	2,953,565	2,954,381
2,922,782	2,935,504	2,938,900	2,924,596	2,937,169	2,959,589	2,956,999
2,922,782	2,938,893	2,940,966	2,924,597	2,941,999	2,927,113	2,957,000
2,923,702	2,947,739	2,945,850	2,925,415	2,943,086	2,955,110	2,957,877
2,924,591	2,949,448	2,949,449	2,926,163	2,944,054	2,966,057	2,957,878
2,924,592	2,964,518	2,950,277	2,927,108	2,945,030	2,963,478	2,959,591
2,924,593	2,964,519	2,951,073	2,927,109	2,945,031	2,963,479	2,959,592
2,924,594	139: 2,935,505	2,952,674	2,927,921	2,945,855	2,963,480	2,964,527
2,924,595	2,937,864	2,957,864	2,929,813	2,946,788	2,963,481	2,966,489
2,927,105	2,938,894	2,962,495	2,929,814	2,947,744	2,956,998	288: 2,951,843
2,927,106	2,947,740	2,966,484	2,929,815	2,948,724	2,957,875	289: 2,954,382
2,928,816	2,951,835	211: 2,922,783	2,931,806	2,948,720	2,966,488	290: 2,923,710
2,928,817	2,952,672	2,922,784	2,931,807	2,951,077	2,924,598	2,924,601
2,928,818	2,959,581	2,936,308	2,932,638	2,954,377	2,928,833	2,924,602
2,928,819	2,962,493	2,963,474	2,932,639	2,956,054	2,942,000	2,934,537
2,928,820	141: 2,920,069	211.5: 2,931,799	2,932,640	2,956,055	2,921,072	2,935,513
2,929,808	2,923,703	2,935,508	2,933,492	2,956,996	2,922,787	2,937,178
2,930,784	2,961,436	2,937,167	2,933,493	2,956,997	2,924,599	2,938,033
2,930,785	2,958,689	2,941,993	2,933,494	2,957,870	2,926,166	2,951,844
2,930,786	145: 2,933,488	2,946,781	2,934,532	2,963,476	2,931,812	2,952,683
2,930,787	2,933,489	2,949,450	2,935,511	244: 2,920,075	2,932,643	2,952,684
2,930,788	2,933,490	2,949,451	2,938,031	2,940,971	2,937,284	2,961,443
2,930,789	2,933,491	2,951,838	2,938,032	2,943,087	2,938,909	2,961,444
2,932,632	2,937,165	2,957,865	2,940,967	2,945,856	2,945,038	2,962,498
2,932,633	2,941,991	2,958,690	2,940,968	2,947,745	2,945,859	2,963,484
2,933,484	2,943,084	217: 2,928,823	2,941,996	2,947,746	2,949,466	2,965,645
2,933,485	146: 2,928,823	2,946,782	2,941,997	2,947,747	2,953,566	292: 2,921,075
2,935,500	2,929,809	220: 2,950,278	2,944,998	246: 2,948,721	2,957,876	2,921,938
2,935,501	2,931,794	223: 2,931,800	2,944,052	2,954,378	2,965,643	2,923,711
2,935,502	2,938,895	2,931,801	2,945,027	247.1: Re.24,763	2,921,073	2,927,925
2,938,020	2,943,085	2,964,521	2,945,028	2,921,936	2,931,813	2,933,501
2,938,021	2,954,370	227: 2,966,485	2,945,029	2,954,379	2,933,498	2,947,752
2,938,890	2,957,862	229: 2,932,706	2,946,784	247.2: 2,921,070	2,944,057	2,948,730
2,940,963	2,963,472	230: 2,925,412	2,946,785	2,947,748	2,952,680	2,962,499
2,940,964	147: 2,920,070	2,925,413	2,949,453	2,953,562	2,953,567	2,962,499
2,943,083	2,921,061	2,925,414	2,950,281	2,957,872	2,958,692	293: 2,927,115
2,944,048	2,951,069	231: 2,949,452	2,951,074	247.5: Re.24,826	2,945,039	2,937,179
2,944,049	148: 2,920,071	232: 2,921,934	2,951,840	Re.24,853	2,937,175	2,939,867
2,945,016	2,927,917	233: 2,928,825	2,954,374	2,922,786	2,948,725	2,946,798
2,945,017	2,950,274	2,928,826	2,954,375	2,927,111	2,930,792	2,957,001
2,945,018	151: 2,936,304	2,929,811	2,956,052	2,928,831	2,921,937	2,957,879
2,945,019	2,938,896	233.3: 2,923,707	2,956,053	2,934,534	2,943,089	2,962,500
2,945,020	2,961,437	2,928,827	2,957,868	2,940,972	2,946,792	293.2: 2,944,058
2,945,846	152: 2,961,438	2,935,509	2,959,585	2,944,055	2,948,726	293.4: 2,921,076
2,947,738	153: 2,938,024	2,935,510	2,959,586	2,945,032	2,920,076	2,924,603
2,948,713	2,945,021	2,938,026	2,960,500	2,945,033	2,920,077	2,948,731
2,951,067	2,945,022	2,965,632	2,960,501	2,946,789	2,921,074	2,920,079
2,951,068	2,951,070	233.5: 2,938,901	2,960,502	2,948,722	2,922,788	2,932,645
2,951,834	2,951,071	2,961,440	2,961,441	2,951,078	2,925,420	2,937,180
2,952,671	2,951,072	234: 2,928,828	2,964,523	2,957,873	2,927,114	2,955,111
2,953,557	2,951,073	2,928,829	2,966,486	2,962,496	2,927,924	2,955,112
2,956,050	2,951,836	2,931,802	2,966,487	2,965,641	2,928,834	2,955,113
2,956,993	2,951,837	2,938,027	2,966,488	247.7: 2,928,832	2,932,644	2,957,880
2,956,994	2,953,560	2,943,716	2,966,489	2,945,034	2,937,177	2,958,695
2,956,995	2,963,473	2,943,717	2,966,490	2,947,749	2,940,973	2,959,593
2,957,860	2,964,520	2,954,372	2,966,491	2,948,723	2,942,001	294.3: 2,921,077
2,957,861	154: 2,935,506	2,959,583	2,966,492	2,952,678	2,943,090	2,928,835
2,959,576	155: 2,965,631	236: 2,929,812	2,966,493	2,937,171	2,946,793	2,934,538
2,959,577	157: 2,932,636	2,945,851	2,966,494	2,938,032	2,948,727	2,946,799
2,959,578	2,960,497	2,947,741	2,966,495	2,943,088	2,950,282	2,947,753
2,959,579	158: 2,937,166	2,957,866	2,966,496	2,949,465	2,952,681	2,948,732
2,960,496	2,952,673	2,963,475	2,966,497	2,951,079	2,953,568	2,951,080
2,961,435	159: 2,938,897	236.6: 2,938,028	2,966,498	2,952,679	2,953,569	2,952,685
2,962,489	162: 2,962,494	2,946,783	2,966,499	2,953,563	2,954,380	2,955,114
2,962,490	163: 2,957,863	239: 2,928,829	2,966,500	2,956,056	2,958,693	2,956,058
2,962,491	2,959,582	2,931,803	2,966,501	2,959,587	2,958,694	2,956,059
2,962,492	166: 2,935,507	2,931,804	2,966,502	2,960,503	2,959,588	2,959,594
2,964,511	171: 2,966,483	2,941,994	2,966,503	2,960,504	2,959,589	2,962,501
2,964,512	172: 2,945,848	2,944,051	2,966,504	2,960,505	2,961,442	2,963,485
2,964,513	175: 2,936,305	2,948,718	2,966,505	249: 2,951,842	2,963,482	2,966,490
2,964,514	176: 2,936,306	2,948,719	2,966,506	2,962,497	2,963,483	2,966,491
2,964,515	178: 2,944,050	2,954,373	2,966,507	2,962,498	2,964,526	2,966,492
2,964,516	185: 2,945,849	2,957,867	2,966,508	249.5: 2,925,418	2,965,642	2,967,926
2,964,517	186: 2,954,371	2,958,691	2,966,509	2,927,922	2,967,927	2,968,795
2,965,626	188: 2,932,637	2,964,522	2,966,510	2,928,830	2,968,796	2,969,570
2,965,627	2,950,275	2,965,633	2,966,511	2,931,809	2,969,571	2,969,571
2,965,628	196: 2,950,276	2,965,634	2,966,512	2,940,969	2,969,572	2,969,572
2,965,629	199: 2,931,795	2,965,635	2,966,513	2,940,970	2,969,573	2,969,573
2,965,630	204: 2,948,715	2,965,636	2,966,514	249.9: 2,926,165	2,969,574	2,969,574
96.5: 2,938,022	205: 2,941,992	2,965,637	2,966,515	2,934,535	2,969,575	2,969,575
2,939,864	2,955,108	2,965,638	2,966,516	2,937,170	2,969,576	2,969,576
2,945,847	206: 2,929,810	2,965,639	2,966,517	2,937,171	2,969,577	2,969,577
2,959,580	207: 2,920,072	239.1: 2,941,995	2,966,518	2,937,172	2,969,578	2,969,578
97.5: 2,933,486	209: 2,923,704	2,951,839	2,966,519	2,937,173	2,969,579	2,969,579
2,954,369	2,927,918	239.3: 2,930,790	2,966,520	2,937,174	2,969,580	2,969,580
97.6: 2,940,965	2,927,919	2,931,805	2,966,521	2,937,175	2,969,581	2,969,581
104: 2,950,272	2,938,898	2,933,491	2,966,522	2,937,176	2,969,582	2,969,582
112: 2,927,107	2,945,023	2,938,029	2,966,523	2,937,177	2,969,583	2,969,583
2,928,821	2,945,024	2,939,865	2,966,524	2,937,178	2,969,584	2,969,584
2,932,634	2,945,025	2,952,675	2,966,525	2,937,179	2,969,585	2,969,585
2,932,635	2,961,439	2,955,109	2,966,526	2,937,180	2,969,586	2,969,586
2,933,487	209.5: 2,960,498	2,956,051	2,966,527	2,937,181	2,969,587	2,969,587
2,935,503		2,960,499	2,966,528	2,937,182	2,969,588	2,969,588
				2,937,183	2,969,589	2,969,589
				2,937,184	2,969,590	2,969,590
				2,937,185	2,969,591	2,969,591
				2,937,186	2,969,592	2,969,592
				2,937,187	2,969,593	2,969,593
				2,937,188	2,969,594	2,969,594
				2,937,189	2,969,595	2,969,595
				2,937,190	2,969,596	2,969,596
				2,937,191	2,969,597	2,969,597
				2,937,192	2,969,598	2,969,598
				2,937,193	2,969,599	2,969,599
				2,937,194	2,969,600	2,969,600
				2,937,195	2,969,601	2,969,601
				2,937,196	2,969,602	2,969,602
				2,937,197	2,969,603	2,969,603
				2,937,198	2,969,604	2,969,604
				2,937,199	2,969,605</	



## Class 260—Con.

294.9:	2,925,422	310:	2,926,170	340.7:	2,925,424	362:	2,921,943	397.45:	2,932,657	404.8:	2,925,429	437:	2,955,124
	2,938,035		2,927,927		2,946,806		2,934,544		2,933,515		2,938,044		2,960,515
	2,938,036		2,927,928		2,947,759		2,930,803		2,933,516	405:	2,929,827	438:	2,928,856
	2,943,091		2,928,929		2,960,510		2,938,913		2,935,520		2,947,766		2,938,045
295:	2,921,939		2,928,842		2,962,507		2,940,957		2,935,521	406:	2,920,087		2,944,073
	2,923,713		2,931,814	340.9:	2,934,543		2,948,739		2,936,531	407:	2,950,299		2,953,589
	2,923,714		2,921,080		2,945,738	371:	2,938,914		2,938,043		2,964,387	439:	2,922,805
	2,929,818		2,930,795		2,949,472	372:	2,952,600		2,938,916		2,955,121		2,964,549
	2,938,037		2,932,650		2,957,888	376:	2,921,944		2,938,917		2,964,545		2,936,316
	2,938,908		2,944,063		2,958,699	377:	2,924,609		2,939,873	408:	2,936,314		2,947,769
	2,945,040		2,951,081		2,958,700		2,957,010		2,940,991		2,938,918	440:	2,946,814
	2,946,800		2,951,848	343.2:	2,929,321		2,965,653		2,942,010		2,942,013		2,950,306
	2,946,801		2,952,688		2,929,822	380:	2,933,508		2,942,011		2,948,741		2,964,550
	2,948,733		2,961,447		2,931,815		2,945,867		2,942,012		2,950,300	443:	2,955,125
	2,951,845	314:	2,940,981		2,932,652	384:	2,964,536		2,943,098		2,965,659	448:	2,921,949
	2,953,572	314.5:	2,925,423		2,933,506	388:	2,951,855		2,944,099	409:	2,932,658		2,923,725
	2,955,115		2,930,796		2,938,039	389:	2,927,118		2,944,070		2,948,742		2,926,184
	2,957,882		2,933,505		2,948,807		2,938,915		2,946,811		2,950,300		2,929,828
295.5:	2,923,715		2,950,285		2,951,851	391:	2,950,290		2,946,812	410.5:	2,924,613		2,930,808
	2,932,648		2,950,286		2,952,689	396:	2,920,082		2,946,812		2,945,871		2,931,820
	2,934,539		2,953,574		2,966,497		2,927,932		2,947,765	410.6:	2,921,947		2,936,317
	2,945,041		2,957,004	343.3:	2,937,187		2,935,518		2,949,478		2,939,874		2,943,102
	2,947,754		2,964,532		2,938,910		2,938,041		2,950,297		2,942,014		2,951,087
	2,948,734		2,921,942		2,945,865		2,940,988		2,950,298	410.8:	2,957,932		2,952,698
	2,948,735	315:	2,921,942		2,958,696		2,943,097		2,951,084	410.9:	2,920,088		2,954,388
	2,949,468	316:	2,920,080		2,951,852		2,955,117		2,951,857		2,928,853		2,954,389
	2,964,529	319:	2,927,117		2,957,008	397.1:	2,923,720		2,951,858		2,931,819		2,955,126
	2,924,604		2,930,797	343.4:	2,933,507		2,923,720		2,952,692		2,936,315		2,957,897
	2,928,837		2,930,798	343.5:	2,923,718		2,963,491		2,952,693		2,949,480		2,957,898
	2,929,819		2,943,093		2,923,719	397.2:	2,920,083		2,955,119		2,955,122		2,958,703
	2,942,002		2,944,064		2,957,009		2,920,083		2,957,013		2,956,070		2,959,606
	2,945,042		2,945,046	343.6:	2,925,173		2,932,654		2,957,892		2,957,013		2,960,516
	2,946,802		2,947,757		2,932,653		2,942,009		2,957,893		2,957,933		2,961,452
	2,947,755		2,947,758		2,938,911		2,953,580		2,957,894		2,963,499		2,962,513
	2,947,756		2,949,469		2,938,912		2,960,512		2,957,895	413:	2,921,084		2,965,682
	2,952,686		2,950,287	343.9:	2,940,982	397.25:	2,947,764		2,957,896		2,926,182		2,965,683
	2,962,502		2,953,575	345.1:	2,959,596		2,957,891		2,958,702		2,928,854	448.2:	2,920,091
	2,963,486	325:	2,964,533		2,959,597		2,963,492		2,959,603		2,945,050		2,920,092
	2,965,646	326:	2,927,930	345.2:	2,947,760	397.3:	2,923,721		2,961,450	414:	2,922,799		2,920,093
	2,966,493		2,944,065		2,953,576		2,924,610		2,962,512		2,922,800		2,920,094
	2,966,494		2,960,509	345.7:	2,926,174		2,928,847		2,963,495		2,925,430		2,921,950
297:	2,921,078		2,964,534	345.8:	2,930,801		2,930,804		2,963,497		2,932,659		2,921,951
	2,921,940	326.3:	2,926,171		2,949,473		2,932,655		2,963,498		2,945,051		2,922,806
	2,944,059		2,926,172		2,953,577		2,933,511		2,964,539		2,947,767		2,922,807
	2,945,862		2,928,843	345.9:	2,926,175		2,933,511		2,964,540		2,948,743		2,929,829
	2,945,862		2,928,844		2,926,176		2,937,191		2,964,541		2,952,695		2,929,830
299:	2,933,502		2,928,845		2,926,177		2,937,191		2,964,542		2,957,934		2,934,549
301:	2,957,883		2,936,309		2,926,178		2,944,067		2,964,543		2,966,504		2,934,550
302:	2,926,168		2,945,863		2,926,179		2,947,762		2,966,504	415:	2,964,546		2,938,046
	2,928,838		2,945,863		2,926,180		2,949,475	397.47:	2,926,181		2,946,813		2,938,047
	2,937,181		2,949,470		2,926,181		2,950,291		2,934,546	419:	2,934,547		2,942,019
	2,940,979		2,951,846	346.1:	2,959,598		2,951,856		2,952,696		2,951,859		2,945,873
	2,951,846		2,961,446	346.2:	2,931,816		2,952,691		2,954,386	423:	2,937,193		2,945,874
304:	2,922,794		2,964,538		2,937,188		2,953,582		2,964,544	426:	2,944,072		2,947,770
	2,928,838		2,956,082		2,940,983		2,953,583	397.5:	2,927,119	429:	2,920,090		2,947,771
	2,932,649		2,957,886		2,937,189		2,955,118		2,928,849		2,921,948		2,951,861
	2,942,003		2,958,697	346.3:	2,940,984		2,955,118		2,931,817		2,927,935		2,951,862
305:	2,951,847		2,962,503		2,959,599		2,957,890		2,940,990		2,927,936		2,954,390
	2,952,687	326.5:	2,924,606	346.4:	2,925,425		2,963,492		2,944,068		2,930,807		2,954,391
306:	2,921,079		2,928,846		2,930,802		2,965,654		2,945,868		2,943,100		2,955,127
	2,929,820		2,935,515		2,942,005	397.4:	2,925,427		2,949,476		2,952,697		2,955,128
306.6:	2,930,794		2,937,185		2,954,385		2,925,428		2,949,477		2,953,586		2,957,899
	2,957,002		2,939,869	346.7:	2,958,701		2,928,848		2,966,502		2,953,587		2,957,900
306.7:	2,934,540		2,939,870	346.8:	2,942,006		2,929,826		2,966,503		2,959,604		2,958,707
	2,940,980		2,946,805		2,959,600		2,930,805		2,966,504	397.6:	2,938,042		2,960,514
	2,953,573		2,957,006		2,966,498		2,933,512		2,966,505	397.7:	2,921,945		2,960,515
306.8:	2,937,182		2,962,504	347.2:	2,945,047		2,933,513		2,966,506		2,922,796		2,961,453
	2,937,183		2,964,535		2,953,578		2,933,514		2,966,507		2,950,293		2,963,500
	2,966,495	327:	2,923,716		2,961,449		2,934,545		2,966,508		2,950,294		2,963,501
	2,968,493		2,930,799	347.3:	2,937,190		2,935,519		2,966,509		2,950,295		2,966,502
307:	2,928,840		2,961,448		2,963,488		2,936,312		2,966,510		2,950,296		2,966,503
	2,939,868		2,965,649		2,963,489		2,937,192		2,966,511		2,957,012		2,966,504
	2,943,092		2,965,650	347.5:	2,940,985		2,940,989		2,966,512	429.2:	2,922,801	448.3:	2,920,095
	2,960,508		2,965,651		2,951,853		2,948,740		2,966,513	429.3:	2,922,802		2,927,937
	2,964,530	328:	2,951,082	347.8:	2,920,081		2,950,292		2,966,514		2,924,614		2,927,938
	2,966,496	329:	2,921,081		2,928,823		2,957,011		2,966,515		2,956,071		2,928,857
307.5:	2,957,884		2,943,094		2,929,823		2,959,601	398.5:	2,955,120	429.5:	2,920,089		2,928,858
308:	2,944,060	330.5:	2,930,800		2,944,066		2,960,513		2,955,121		2,922,803		2,930,809
309:	2,944,061		2,949,471		2,957,889		2,962,509	399:	2,920,086		2,925,183		2,943,103
	2,946,803	332.1:	2,957,887		2,962,509		2,962,510	400:	2,921,083		2,935,522		2,947,772
	2,946,804	332.2:	2,922,795	348:	2,925,426		2,963,493		2,923,724		2,951,085		2,957,901
	2,956,061		2,948,737		2,929,824		2,966,501		2,957,014		2,966,505		2,963,502
309.2:	2,957,885		2,935,517		2,935,517		2,966,501		2,966,506		2,966,506		2,963,503
	2,927,116	332.3:	2,959,595		2,939,872		2,966,501		2,966,507		2,966,507		2,963,504
	2,933,503	332.5:	2,932,651		2,940,986		2,966,501		2,966,508		2,966,508		2,963,505
	2,933,504		2,939,871		2,946,808		2,966,501		2,966,509		2,966,509		2,963,506
	2,935,514		2,967,007		2,949,474		2,966,501		2,966,510		2,966,510		2,963,507
	2,944,062	333:	2,924,607		2,950,289		2,966,501		2,966,511		2,966,511		2,963,508
	2,945,043	335:	2,937,186		2,951,854</								



453: 2,934,553 2,945,875 2,950,307 2,953,590 2,957,903 2,963,504	461: 2,962,518 2,962,519 2,962,520 2,962,521 2,963,505 2,963,506 2,964,552 2,965,664 2,965,665 2,965,666 2,965,667 2,965,668	475: 2,921,088 2,921,089 2,923,733 2,926,189 2,930,811 2,930,812 2,932,662 2,936,320 2,937,197 2,939,879 2,950,310 2,957,023	520: 2,933,523 2,954,400 521: 2,931,830 2,940,996 523: 2,952,703 2,966,513 524: 2,920,106 2,959,613 2,963,508 2,963,509 2,966,514 2,966,515	553: 2,943,110 2,951,092 2,957,910 2,960,534 2,962,530 2,964,560 554: 2,959,615 555: 2,933,526 2,933,527 2,957,911 2,957,912 2,957,913 2,961,464 2,966,516 556: 2,937,202 2,948,753 557: 2,928,875 558: 2,927,132 2,932,065 2,936,323 2,937,203 2,937,204 2,945,062 2,951,868 2,953,598 2,956,081 559: 2,922,817 2,923,737 2,932,666 2,933,528 2,938,052 2,948,754 561: 2,923,738 2,927,942 2,932,667 2,938,053 2,942,027 2,953,599 2,955,137 2,957,914 2,957,915 2,961,465 2,923,533 562: 2,921,961 2,929,844 2,941,002 2,945,883 563: 2,941,003 2,945,063 2,955,138 564: 2,929,846 2,946,820 2,949,484 565: 2,959,616 566: 2,921,092 2,928,876 2,945,064 2,945,065 2,945,884 2,945,885 2,947,783 2,966,517 567: 2,929,846 567.5: 2,942,028 2,953,600 567.6: 2,931,833 2,933,529 2,933,530 2,941,004 2,949,485 2,950,318 2,951,869 2,921,963 2,922,819 2,923,741 2,923,742 2,925,437 2,925,438 2,925,439 570.5: 2,921,093 2,959,617 570.6: 2,938,921 570.7: 2,966,518 570.8: 2,963,512 570.9: 2,926,193 2,931,835 2,934,566 2,937,207 2,938,926 2,939,885 2,941,008 2,944,084 2,938,055 2,938,922 2,943,111 2,943,112 577: 2,921,094 2,947,784 578: 2,927,136 2,964,561 2,964,562	580: 2,956,082 581: 2,948,755 582: 2,946,821 2,946,822 2,950,319 583: 2,922,818 2,927,133 2,929,847 2,934,565 2,938,923 2,941,005 2,944,082 2,947,785 2,957,917 2,960,536 2,961,467 2,962,532 2,964,563 584: 2,928,877 2,952,707 2,963,513 2,964,564 585: 2,953,601 586: 2,927,134 2,927,135 2,927,944 2,931,834 2,938,056 2,938,057 2,938,924 2,964,565 2,964,566 587: 2,942,029 2,945,069 2,945,067 2,945,068 2,937,205 2,938,925 2,957,918 2,961,468 591: 2,921,962 2,928,878 2,933,533 592: 2,920,108 2,923,739 2,929,848 2,950,320 2,933,534 2,946,823 2,951,870 2,957,027 594: 2,937,206 2,959,619 596: 2,944,083 598: 2,932,669 2,947,786 599: 2,928,879 2,942,030 2,948,756 2,960,537 601: 2,939,882 2,942,031 2,957,028 602: 2,941,006 603: 2,939,883 2,953,602 604: 2,939,884 2,941,007 2,949,486 2,963,514 606.5: 2,921,095 2,921,096 2,921,963 2,922,819 2,923,740 2,923,741 2,923,742 2,925,437 2,925,438 2,925,439 2,925,440 2,926,194 2,926,195 2,927,945 2,930,814 2,931,835 2,934,566 2,937,207 2,938,926 2,939,885 2,941,008 2,944,084 2,950,321 2,950,322 2,951,871	606.5: 2,953,603 2,959,620 2,959,621 2,961,469 2,964,567 2,964,568 607: 2,921,964 2,922,819 2,925,442 2,930,815 2,935,532 2,935,533 2,938,927 2,952,708 2,957,919 2,965,520 2,966,521 2,966,522 609: Re.24,796 2,922,820 2,922,821 2,927,135 2,927,943 2,931,834 2,938,056 2,928,880 2,930,816 2,938,928 2,964,565 2,964,566 2,942,032 2,945,889 2,949,487 2,949,488 2,950,323 2,950,324 2,951,872 2,951,873 2,951,874 2,951,875 2,954,403 2,954,404 2,957,029 2,957,920 2,960,538 2,961,470 2,965,677 610: 2,954,405 2,954,406 2,957,030 611: 2,924,621 2,926,196 2,941,009 2,946,825 611.5: 2,938,058 2,942,033 612: 2,931,836 2,957,031 613: 2,934,567 2,960,539 2,964,569 614: 2,922,822 2,962,534 615: 2,931,837 2,931,838 2,932,670 2,934,568 2,935,534 2,941,010 2,948,757 2,951,094 2,965,678 617: 2,921,966 2,936,324 2,955,139 618: 2,924,622 2,930,817 2,939,886 2,951,876 2,956,083 619: 2,923,744 2,925,444 2,929,849 2,932,671 2,944,086 2,947,789 2,959,622 621: Re.24,848 2,928,881 2,948,758 2,952,709 2,954,407 2,957,921 622: 2,945,890 623: 2,934,569 2,938,059 2,947,790 2,950,325 624: Re.24,834 2,923,745 2,928,882 631.5: 2,949,489
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## Class 260—Con.

633: 2, 931, 839	653: 2, 920, 111	667: 2, 927, 014	676: 2, 921, 970	683. 41: 2, 952, 720	41: 2, 922, 629	Class 263
2, 934, 570	2, 920, 112	2, 929, 854	2, 924, 630	683. 43: 2, 946, 832	2, 925, 256	2: 2, 930, 599
635: 2, 939, 887	2, 921, 098	2, 934, 573	2, 927, 950	683. 44: 2, 923, 750	2, 928, 662	3: 2, 921, 778
2, 950, 326	2, 922, 825	2, 953, 608	2, 928, 885	2, 945, 907	2, 929, 613	2, 929, 614
2, 950, 327	2, 924, 623	2, 920, 115	2, 935, 539	683. 48: 2, 929, 857	2, 957, 683	2, 952, 451
2, 951, 095	2, 924, 624	2, 920, 116	2, 943, 124	683. 49: 2, 935, 543	2, 962, 269	2, 958, 518
2, 953, 604	2, 924, 625	2, 920, 117	2, 944, 092	683. 53: 2, 943, 126	2, 966, 344	2, 928, 666
2, 953, 605	2, 939, 888	2, 927, 949	2, 944, 093	2, 960, 553	42: 2, 920, 877	2, 932, 497
2, 955, 140	2, 942, 036	2, 929, 855	2, 945, 073	2, 963, 526	44: 2, 957, 684	2, 940, 741
2, 960, 540	2, 951, 102	2, 933, 540	2, 952, 717	2, 965, 693	50: 2, 926, 007	2, 950, 097
2, 961, 471	2, 959, 624	2, 937, 212	2, 956, 089	2, 966, 535	2, 937, 858	2, 953, 363
2, 964, 570	653. 1: 2, 933, 536	2, 938, 933	2, 957, 927	683. 58: 2, 949, 494	2, 962, 270	2, 927, 782
2, 964, 571	653. 3: 2, 925, 446	2, 942, 041	2, 958, 714	683. 59: 2, 920, 124	51: 2, 943, 849	2, 940, 742
2, 965, 679	2, 926, 203	2, 944, 089	2, 963, 519	683. 62: 2, 920, 125	2, 964, 303	2, 944, 805
637: 2, 930, 818	2, 931, 840	2, 944, 090	2, 966, 531	2, 938, 061	62: 2, 945, 685	2, 925, 260
638: 2, 941, 011	2, 941, 012	2, 945, 071	2, 920, 122	2, 947, 796	69: 2, 922, 630	2, 926, 008
2, 942, 034	653. 5: 2, 924, 626	2, 945, 899	2, 927, 141	683. 65: 2, 921, 103	70: 2, 928, 663	2, 926, 897
639: 2, 945, 891	2, 945, 896	2, 947, 794	2, 934, 574	2, 925, 454	71: 2, 951, 690	2, 950, 098
643: 2, 944, 087	653. 7: 2, 921, 099	2, 950, 332	2, 938, 934	2, 926, 207	72: 2, 921, 775	11: 2, 958, 520
2, 965, 680	2, 924, 627	2, 951, 882	2, 939, 892	2, 935, 544	92: 2, 937, 014	15: Re 24, 859
644: 2, 928, 883	2, 927, 948	2, 952, 716	2, 942, 042	2, 937, 214	76: 2, 923, 532	2, 959, 406
2, 933, 535	2, 946, 827	2, 953, 609	2, 944, 094	2, 939, 894	78: 2, 928, 664	19: 2, 931, 635
2, 963, 515	653. 8: 2, 937, 210	2, 954, 412	2, 945, 904	2, 943, 127	84: 2, 922, 631	2, 933, 296
645: 2, 934, 571	2, 965, 683	2, 956, 086	2, 946, 829	2, 944, 096	87: 2, 928, 665	2, 937, 860
2, 945, 892	654: 2, 926, 204	2, 957, 036	2, 946, 830	2, 944, 097	2, 944, 802	2, 941, 790
2, 947, 791	2, 928, 884	2, 966, 529	2, 950, 337	2, 945, 908	89: 2, 932, 495	2, 943, 850
2, 951, 877	2, 938, 931	2, 966, 530	2, 953, 611	2, 945, 909	92: 2, 934, 325	2, 947, 526
2, 965, 681	2, 948, 760	2, 966, 531	2, 956, 090	2, 951, 887	94: 2, 921, 776	2, 953, 364
646: 2, 948, 759	2, 950, 330	2, 925, 449	2, 958, 715	2, 951, 888	110: 2, 923, 533	2, 962, 272
647: 2, 949, 490	2, 950, 331	2, 933, 541	2, 959, 627	2, 966, 532	113: 2, 924, 441	2, 964, 306
648: 2, 921, 097	2, 951, 103	2, 939, 889	2, 961, 472	2, 966, 537	2, 939, 895	2, 966, 347
2, 922, 823	2, 952, 713	2, 945, 900	2, 962, 537	2, 951, 889	2, 952, 721	21: 2, 932, 498
2, 923, 746	2, 957, 033	2, 950, 333	2, 966, 532	2, 952, 721	2, 951, 691	2, 934, 328
2, 925, 445	2, 957, 922	2, 951, 104	2, 924, 631	683. 67: 2, 938, 935	2, 959, 404	2, 940, 743
2, 926, 197	2, 957, 923	2, 951, 884	2, 925, 451	2, 965, 694	2, 960, 322	2, 953, 365
2, 926, 198	2, 966, 525	2, 954, 413	2, 934, 575	683. 68: 2, 938, 936	117: 2, 963, 284	2, 961, 227
2, 926, 199	655: 2, 920, 113	2, 964, 578	2, 934, 576	2, 939, 896	2, 964, 304	28: 2, 930, 600
2, 927, 947	2, 922, 826	2, 956, 087	2, 934, 577	2, 939, 897	122: 2, 947, 525	29: 2, 926, 009
2, 929, 850	2, 923, 748	2, 920, 118	2, 941, 020	2, 943, 128	129: 2, 957, 685	2, 948, 521
2, 934, 572	2, 926, 205	2, 920, 119	2, 947, 795	2, 943, 129	144: 2, 954, 967	2, 960, 323
2, 942, 035	2, 938, 930	2, 930, 819	2, 949, 493	2, 944, 098	145: 2, 925, 257	30: 2, 933, 297
2, 943, 113	2, 942, 037	2, 930, 820	2, 952, 718	2, 956, 095	2, 925, 257	32: 2, 945, 687
2, 945, 893	2, 942, 038	2, 939, 890	2, 956, 091	2, 960, 554	2, 963, 527	2, 952, 452
2, 960, 328	2, 945, 761	2, 941, 015	2, 963, 521	2, 963, 527	683. 73: 2, 937, 215	2, 965, 366
2, 951, 096	2, 960, 543	2, 943, 118	2, 920, 123	2, 937, 215	683. 74: 2, 945, 910	33: 2, 923, 538
2, 951, 097	660: 2, 921, 967	2, 943, 119	2, 921, 100	2, 945, 911	2, 945, 911	2, 939, 693
2, 951, 098	2, 929, 852	2, 945, 072	2, 939, 893	2, 946, 833	3: 2, 919, 909	2, 941, 791
2, 951, 099	2, 941, 013	2, 945, 901	2, 941, 021	2, 942, 043	2, 923, 535	2, 959, 407
2, 951, 878	662: 2, 941, 014	2, 948, 763	2, 942, 043	2, 945, 074	2, 930, 598	2, 960, 324
2, 952, 710	2, 942, 039	2, 949, 492	2, 945, 075	2, 938, 062	2, 939, 689	2, 965, 367
2, 954, 408	2, 952, 714	2, 950, 335	2, 945, 905	2, 956, 096	2, 944, 803	2, 966, 348
2, 955, 141	2, 957, 924	2, 951, 885	2, 954, 415	2, 963, 528	2, 952, 449	36: 2, 949, 286
2, 957, 032	663: 2, 945, 897	2, 954, 414	2, 954, 416	2, 965, 695	2, 952, 450	2, 958, 521
2, 960, 541	665: 2, 929, 853	2, 955, 143	2, 958, 716	2, 956, 097	2, 954, 218	39: 2, 927, 783
2, 963, 516	2, 933, 537	2, 965, 686	2, 959, 629	683. 76: 2, 934, 578	2, 958, 519	2, 940, 744
649: 2, 932, 672	2, 938, 932	2, 931, 842	2, 965, 688	683. 9: 2, 953, 612	2, 966, 346	40: 2, 929, 615
2, 937, 209	2, 942, 040	2, 943, 120	2, 966, 533	2, 958, 718	6: 2, 923, 536	2, 964, 307
2, 952, 711	2, 943, 115	2, 960, 545	2, 921, 101	2, 922, 831	7: 2, 920, 878	41: 2, 931, 636
2, 960, 542	2, 947, 793	2, 963, 518	2, 921, 102	2, 938, 937	2, 925, 258	46: 2, 930, 601
650: 2, 920, 109	2, 948, 762	2, 953, 610	2, 924, 632	736: 2, 931, 844	2, 939, 690	47: 2, 940, 745
2, 920, 110	2, 954, 410	2, 962, 536	2, 930, 822	747: 2, 931, 845	2, 942, 863	2, 960, 325
2, 926, 200	2, 956, 085	2, 962, 536	2, 933, 543	752: 2, 923, 752	2, 944, 804	2, 962, 273
2, 927, 138	2, 959, 625	2, 962, 536	2, 933, 544	2, 923, 753	2, 945, 686	48: 2, 930, 602
2, 929, 851	2, 960, 544	2, 921, 969	2, 946, 831	2, 939, 898	2, 946, 578	2, 948, 522
2, 938, 929	2, 965, 684	2, 922, 827	2, 956, 092	758: 2, 921, 105	2, 950, 907	2, 960, 326
2, 943, 114	2, 966, 526	2, 922, 828	2, 957, 928	788: 2, 930, 824	2, 955, 808	2, 961, 228
2, 949, 491	666: 2, 920, 114	2, 923, 749	2, 958, 717	820: 2, 932, 678	2, 957, 686	50: 2, 954, 968
2, 950, 329	2, 921, 968	2, 925, 450	2, 963, 522	Class 261	2, 959, 405	51: 2, 936, 162
2, 952, 712	2, 924, 628	2, 926, 206	2, 957, 929	3: 2, 949, 285	8: 2, 951, 692	52: 2, 944, 806
2, 954, 409	2, 925, 447	2, 929, 856	681. 5: 2, 925, 452	4: 2, 963, 282	2, 955, 809	2, 944, 807
2, 955, 142	2, 927, 139	2, 930, 821	2, 930, 823	16: 2, 946, 575	2, 962, 271	2, 966, 349
2, 958, 708	2, 931, 841	2, 932, 676	2, 935, 540	17: 2, 937, 013	9: 2, 923, 537	53: 2, 923, 539
2, 962, 535	2, 932, 673	2, 932, 677	2, 935, 541	18: 2, 944, 800	2, 954, 219	2, 945, 688
651: 2, 926, 201	2, 932, 674	2, 936, 325	2, 944, 095	21: 2, 954, 216	13: 2, 964, 305	
2, 926, 202	2, 933, 538	2, 939, 891	2, 960, 549	23: 2, 941, 788	19: 2, 920, 879	Class 264
2, 935, 535	2, 933, 539	2, 941, 017	2, 961, 473	2, 943, 787	2, 933, 294	1: 2, 922, 632
2, 938, 930	2, 935, 538	2, 941, 018	2, 963, 523	2, 946, 576	2, 954, 220	2, 922, 633
2, 945, 894	2, 937, 211	2, 943, 121	682: 2, 928, 886	2, 953, 361	20: 2, 931, 634	2, 924, 442
2, 951, 100	2, 943, 117	2, 943, 122	683: 2, 931, 843	2, 957, 682	2, 934, 327	2, 926, 898
2, 951, 101	2, 945, 898	2, 943, 123	2, 937, 213	2, 945, 906	2, 935, 308	2, 926, 899
2, 956, 084	2, 951, 879	2, 944, 091	2, 945, 076	2, 956, 093	2, 939, 691	2, 928, 667
2, 958, 709	2, 951, 880	2, 945, 903	2, 945, 906	2, 966, 534	26: 2, 932, 496	2, 928, 668
2, 964, 572	2, 951, 881	2, 948, 764	683. 15: 2, 921, 971	2, 950, 695	2, 935, 309	2, 933, 298
2, 964, 573	2, 952, 715	2, 950, 336	2, 935, 542	2, 939, 687	2, 937, 859	2, 933, 299
2, 965, 682	2, 953, 606	2, 951, 886	2, 943, 125	29: 2, 961, 226	2, 940, 740	2, 933, 300
2, 966, 523	2, 954, 411	2, 955, 144	2, 957, 930	30: 2, 960, 321	2, 948, 520	2, 934, 329
652: 2, 935, 536	2, 957, 034	2, 956, 088	2, 960, 552	34: 2, 919, 908	2, 951, 693	3: 2, 929, 616
652. 5: 2, 922, 824	2, 957, 035	2, 957, 925	2, 963, 525	2, 926, 892	2, 953, 362	7: 2, 933, 301
2, 923, 747	2, 958, 713	2, 959, 626	2, 965, 691	2, 942, 861	29: 2, 926, 896	15: 2, 926, 900
2, 935, 537	2, 963, 517	2, 960, 546	2, 965, 692	2, 966, 343	2, 939, 692	2, 932, 499
2, 944, 088	2, 964, 574	2, 960, 547	683. 2: 2, 921, 103	36: 2, 926, 893	30: 2, 937, 015	2, 926, 901
2, 945, 070	2, 964, 575	2, 960, 548	2, 952, 719	37: 2, 926, 894	33: 2, 933, 295	
2, 945, 895	2, 966, 527	2, 965, 687	2, 956, 094	38: 2, 963, 283	2, 941, 789	5: 2, 927, 784
2, 946, 826	2, 966, 528	2, 922, 829	2, 960, 550	39: 2, 920, 876	2, 950, 096	2, 932, 500
2, 947, 792	666. 5: 2, 925, 448	2, 933, 542	2, 960, 551	2, 926, 895	2, 955, 810	2, 944, 808
2, 958, 711	2, 965, 685		2, 965, 689	2, 943, 848	2, 956, 792	2, 946, 579
2, 958, 712			683. 3: 2, 945, 077	2, 946, 577	2, 965, 365	2, 948, 523



27: 2,920,880	1: 2,926,904	65: 2,956,797	77: 2,919,914	62: 2,922,647	<b>Class 273</b>	95: 2,923,548
2,924,443	2,930,605	2,960,333	79: 2,947,536	2,952,458		2,926,914
2,926,010	2,932,503	2,963,289	80: 2,953,291	2,958,527	1: 2,933,315	2,926,915
2,936,163	2,932,504	2,964,311	80: 2,954,974	2,960,334	2,934,342	2,928,677
2,937,861	2,933,307	2,925,266	83: 2,942,874	Re.24,843	2,942,882	2,945,694
2,941,793	2,937,865	71: 2,959,411	86: 2,931,645	2,919,917	2,943,855	2,954,229
2,954,969	2,937,866	72: 2,933,311	2,956,799	2,947,539	2,956,807	2,957,693
2,958,523	2,938,718	74: 2,924,448		2,956,805	2,966,356	2,959,415
2,959,408	2,940,749			68: 2,933,313	1.5: 2,932,511	2,964,321
2,962,274	2,942,867	<b>Class 268</b>	<b>Class 271</b>	2,938,724	2,939,705	96: 2,930,618
28: 2,927,785	2,942,868		1: 2,935,315	2,948,530	2,958,528	2,935,322
29: 2,937,862	2,947,528	16: 2,926,012	2,944,812	69: 2,936,173	2,961,236	2,948,533
30: 2,931,637	2,947,529	2,927,787	2,954,225	71: 2,944,813	4: 2,923,546	2,961,239
40: 2,923,540	2,948,526	23: 2,920,886	2,927,789	74: 2,931,647	23: 2,931,649	97: 2,945,695
2,931,638	2,948,527	30: 2,941,794	2,942,876	79: 2,924,453	25: 2,947,540	2,950,113
2,933,302	2,950,101	2,947,533	2,921,787	2,942,878	26: 2,923,547	99: 2,942,886
2,940,746	2,951,695	31: 2,931,643	2,922,642	2,951,700	2,925,273	2,950,114
47: 2,932,501	2,952,453	2,954,971	2,925,270	80: 2,965,374	2,942,883	2,950,917
2,954,221	2,955,813	48: 2,929,622	2,934,338	83: 2,924,454	2,944,816	2,950,918
2,960,328	2,956,795	53: 2,927,788	2,919,915	84: 2,959,412	2,944,817	101: 2,920,893
2,946,580	2,958,525	58: 2,921,782	2,919,916	86: 2,937,021	2,955,823	2,944,822
49: 2,933,303	2,961,233	59: 2,922,638	2,923,543	2,937,869	2,955,824	2,964,322
2,949,287	2,963,287	2,923,541	2,939,700	2,950,108	2,964,316	102.1: 2,931,654
53: 2,933,304	2,965,310	2,925,267	2,942,875	2,964,314	30: 2,931,650	2,949,305
2,963,286	2,965,372	2,937,867	2,945,692	87: 2,925,271	33: 2,930,615	102.2: 2,926,015
54: 2,937,863	2,966,351	2,944,810	2,946,585	2,926,910	2,943,856	2,926,916
2,950,099	2,966,352	2,954,224	2,949,295	2,930,611	2,950,110	2,934,346
2,955,811	2,929,617	63: 2,941,795	Re.24,778	88: 2,933,314	34: 2,929,628	2,939,706
56: 2,925,261	3: 2,930,606	2,950,911	2,923,544	2,957,691	37: 2,946,590	104: 2,922,650
60: 2,950,100	8: 2,920,882	65: 2,924,449	2,924,452		2,960,336	2,965,376
62: 2,942,865	2,925,263	2,947,534	2,927,790	<b>Class 272</b>	41: 2,940,755	105: 2,932,516
67: 2,937,016	2,927,786	66: 2,926,013	2,932,508	1: 2,923,545	42: 2,936,176	2,939,707
68: 2,939,694	2,934,332	74: 2,929,623	2,934,339	2,931,648	43: 2,920,891	105.1: 2,957,695
2,944,809	2,948,528	96: 2,925,815	2,946,586	2,940,755	2,920,892	105.3: 2,927,549
2,949,288	2,948,529	105: 2,926,905	2,946,587	2,949,298	2,930,616	2,927,793
2,960,329	2,966,352	106: 2,953,368	2,946,588	2,953,373	2,930,619	2,930,619
70: 2,921,780	2,965,329	109: 2,961,234	2,947,537	2,962,283	2,930,612	2,933,317
2,931,639	2,952,434	124: 2,919,911	2,929,626	7: 2,965,375	2,932,512	2,953,377
2,936,165	15: 2,922,635	2,921,783	2,930,610	8: 2,936,174	2,932,513	2,953,442
2,940,747	2,922,636	2,922,639	2,949,296	2,953,374	2,935,319	2,959,416
71: 2,920,881	2,932,505	2,945,691	2,922,641	17: 2,935,315	2,941,803	105.6: 2,931,655
2,950,909	2,933,308	2,947,535	2,938,720	21: 2,938,725	2,941,804	106: 2,948,534
2,961,231	2,963,287	2,955,816	2,940,752	22: 2,942,879	2,943,857	2,943,378
2,962,275	2,963,368	2,925,268	3: 2,957,690	31: 2,928,673	2,944,818	2,953,378
2,962,276	16: 2,931,642	2,949,290	4: 2,953,370	2,937,870	2,944,819	106.5: 2,925,277
72: 2,924,444	19: 2,934,334	2,955,817	5: 2,936,169	2,942,880	2,946,591	2,926,016
2,950,910	20: 2,935,313	133: 2,936,166	2,954,226	32: 2,938,726	2,947,541	2,926,017
73: 2,931,640	28: 2,924,447		2,956,800	33: 2,920,889	2,949,300	2,930,620
2,936,164	30: 2,920,883	<b>Class 269</b>	2,956,801	2,962,284	2,961,237	2,937,873
<b>Class 266</b>	2,929,618		7: 2,951,699	2,925,272	2,962,284	2,939,708
2.5: 2,933,305	2,952,455	104: 2,949,291	2,954,975	2,943,854	2,964,317	2,940,758
3: 2,926,902	2,951,781	112: 2,921,784	10: 2,931,646	36: 2,922,648	44: 2,928,676	2,940,759
2,932,502	2,934,335	2,931,644	2,954,976	38: 2,934,341	2,962,285	108: 2,919,920
2,957,088	2,945,689	115: 2,919,913	11: 2,927,791	39: 2,941,800	47: 2,936,176	117: 2,954,230
2,965,368	35: 2,930,607	2,935,314	2,947,538	41: 2,950,109	2,949,301	118: 2,931,656
4: 2,930,603	44: 2,932,506	122: 2,955,818	2,963,292	49: 2,949,299	49: 2,931,651	2,939,709
2,935,312	45: 2,942,869	124: 2,954,972	12: 2,936,170	52: 2,935,317	2,937,024	2,941,807
2,937,017	2,951,696	131: 2,926,906	2,952,457	2,935,318	2,964,318	2,943,858
2,956,793	48: 2,928,669	134: 2,941,796	2,956,802	2,937,022	51: 2,949,303	2,932,517
2,958,524	49: 2,920,884	136: 2,923,542	2,946,589	2,944,814	54: 2,924,457	2,960,339
2,965,369	52: 2,942,870	140: 2,921,785	2,950,913	2,953,375	2,924,458	2,962,287
5: 2,931,641	54: 2,932,507	144: 2,955,819	2,953,371	52.5: 2,930,612	2,942,884	120: 2,936,178
2,934,330	2,950,102	145: 2,944,811	27: 2,941,799	53.1: 2,922,649	2,954,228	126: 2,954,978
2,938,716	57: 2,925,264	155: 2,946,583	28: 2,956,803	53.2: 2,921,789	2,960,337	127: 2,954,979
6: 2,924,445	2,942,871	156: 2,946,584	30: 2,937,868	2,928,674	2,929,629	2,963,295
2,954,222	2,955,820	160: 2,949,292	31: 2,942,877	55: 2,953,376	2,929,630	129: 2,921,792
9: 2,946,581	61: 2,934,336	163: 2,934,337	32: 2,928,672	56.5: 2,924,455	2,934,343	2,935,323
2,964,308	63: 2,942,872	189: 2,950,912	34: 2,921,788	57: 2,930,613	2,937,872	130: 2,940,760
19: 2,934,331	2,962,279	190: 2,956,798	2,954,227	2,938,727	2,940,757	2,953,379
20: 2,930,604	64: 2,928,670	2,962,281	35: 2,922,643	2,948,531	58: 2,924,459	2,926,917
2,939,695	2,930,608	201: 2,939,699	2,926,907	2,952,459	2,934,344	2,930,621
21: 2,933,306	2,933,309		36: 2,940,754	2,961,235	2,941,805	2,964,323
2,949,289	2,933,310	<b>Class 270</b>	39: 2,922,644	2,964,315	2,948,532	137: 2,932,518
2,953,366	2,933,310		41: 2,938,721	58: 2,920,890	2,952,460	2,937,874
2,955,812	2,939,696	5: 2,920,887	44: 2,927,792	2,921,790	2,936,177	2,945,592
2,961,232	2,939,697	31: 2,921,786	2,934,340	2,928,675	2,950,111	2,951,703
23: 2,940,748	2,942,873	2,924,450	2,937,019	2,932,509	64: 2,957,692	139: 2,942,887
24: 2,964,300	2,946,582	2,966,353	2,938,722	59: 2,937,871	65: 2,931,653	142: 2,922,651
25: 2,960,330	2,954,223	39: 2,929,624	45: 2,922,645	2,960,335	2,945,693	143: 2,944,823
30: 2,926,903	2,959,410	52: 2,925,269	2,922,646	2,929,627	67: 2,935,321	145: 2,919,921
2,937,018	2,960,332	54: 2,933,312	2,949,297	2,939,704	72: 2,944,820	2,952,461
2,942,866	2,962,280	55: 2,966,354	2,950,914	2,944,815	73: 2,932,514	146: 2,922,652
33: 2,966,350	2,965,373	56: 2,949,293	47: 2,926,908	2,954,977	74: 2,926,912	147: 2,945,696
34: 2,937,864	65: 2,920,885	58: 2,920,888	2,936,172	2,956,806	79: 2,962,286	148: 2,961,240
2,947,527	2,922,637	2,922,640	49: 2,938,723	2,959,413	80: 2,926,913	150: 2,926,918
2,956,794	2,922,637	2,928,671	50: 2,950,915	62: 2,932,510	2,934,345	155: 2,931,657
2,960,331	2,925,265	2,936,167	51: 2,926,909	66: 2,951,701	2,960,338	157: 2,923,550
2,965,370	2,926,011	2,936,168	2,939,702	2,963,294	80.1: 2,932,515	2,923,551
36: 2,962,277	2,929,619	2,940,750	52: 2,953,372	68: 2,926,911	81.2: 2,941,806	2,948,535
38: 2,948,524	2,938,717	2,951,697	53: 2,939,703	70: 2,941,801	81.3: 2,949,304	2,952,462
39: 2,938,717	2,962,278	2,952,456	54: 2,922,646	75: 2,919,919	82: 2,942,885	2,953,380
42: 2,959,409	2,939,698	61: 2,964,312	57: 2,926,014	79: 2,921,791	2,944,821	159: 2,921,793
43: 2,943,240	2,943,851	68: 2,949,294	2,963,293	80: 2,937,023	2,950,112	161: 2,953,381
2,948,525	2,947,530	69: 2,924,451	2,966,355	82: 2,930,614	2,964,319	163: 2,919,922
<b>Class 267</b>	2,947,532	72: 2,929,625	58: 2,937,020	83: 2,951,702	85: 2,937,025	2,923,552
1: 2,919,910	2,950,104	2,941,798	60: 2,950,916	2,959,414	88: 2,925,275	164: 2,934,347
2,924,446	2,955,814	2,950,105	61: 2,950,107		93: 2,933,316	2,954,231
2,925,262	2,956,796				94: 2,961,238	2,957,696



**Class 273—Con.**

165: 2,928,678  
2,938,728  
2,962,288  
171: 2,950,919  
177: 2,957,697  
178: 2,933,318  
2,938,729  
180: 2,951,704  
181: 2,922,653  
182: 2,936,179  
183: 2,934,345  
185: 2,926,919  
2,929,632  
2,954,232  
186: 2,950,115  
187: 2,941,808  
189: 2,943,859  
195: 2,937,875  
198: 2,961,241  
201: 2,943,536  
235: 2,939,710

**Class 274**

1: 2,925,279  
2,939,711  
2,940,761  
2,940,762  
2,944,824  
2,954,980  
2,955,825  
2,926,018  
2,926,920  
2,929,633  
2,940,763  
2,943,860  
2,944,825  
2,946,593  
2,954,233  
2,964,324  
2,966,357  
9: 2,927,794  
2,927,795  
2,937,876  
2,939,712  
2,939,713  
2,941,809  
2,943,861  
2,953,382  
2,955,826  
10: 2,919,923  
2,919,924  
2,921,794  
2,923,553  
2,925,280  
2,926,019  
2,927,796  
2,930,622  
2,932,519  
2,932,620  
2,935,324  
2,935,325  
2,937,026  
2,938,730  
2,939,464  
2,939,714  
2,944,826  
2,946,594  
2,946,595  
2,947,542  
2,949,307  
2,949,308  
2,949,309  
2,949,310  
2,950,920  
2,950,921  
2,952,463  
2,954,234  
2,954,981  
2,956,830  
2,959,417  
2,959,418  
2,960,340  
2,962,289  
2,963,296  
2,963,297  
2,966,358  
11: 2,922,654  
2,933,319  
2,938,731  
2,945,697  
2,966,359  
13: 2,922,655  
2,941,810  
2,955,827  
14: 2,951,705  
2,961,242  
15: 2,930,623  
2,936,180  
2,939,715  
2,948,537

15: 2,952,464  
2,953,383  
2,959,419  
2,965,377  
17: 2,925,281  
2,953,384  
18: 2,924,460  
21: 2,961,243  
23: 2,924,461  
2,935,326  
2,937,027  
2,937,877  
2,946,596  
2,948,538  
2,949,311  
2,966,360  
26: 2,942,888  
2,942,889  
31: 2,926,921  
36: 2,931,658  
2,942,890  
37: 2,939,716  
2,961,244  
2,962,290  
2,965,378  
39: 2,948,539  
41.4: 2,924,462  
2,937,028  
41.6: 2,953,385  
42: 2,932,521  
2,932,522  
43: 2,921,795  
45: 2,959,420  
46: 2,930,624  
2,950,116  
47: 2,938,732  
2,958,529

**Class 275**

1: 2,959,421  
2: 2,929,634  
3: 2,945,698  
2,954,235  
2,957,698  
5: 2,947,543  
6: 2,930,625  
2,952,466  
2,953,386  
2,956,808  
2,956,809  
2,958,530  
8: 2,941,811  
2,946,597  
2,947,544  
2,948,982  
2,956,810  
2,956,379  
15: 2,949,312  
2,955,828  
2,958,531  
2,961,245

**Class 276**

34: 2,961,246

**Class 279**

1: 2,928,679  
2,933,320  
2,940,764  
2,942,891  
2,960,341  
2,961,247  
2,920,894  
2,928,680  
2,929,635  
2,938,733  
2,942,892  
2,949,313  
2,957,699  
2,960,342  
2,966,361  
3: 2,955,829  
4: Re.24,842  
2,920,895  
2,923,554  
2,943,862  
2,948,540  
2,948,541  
2,958,532  
2,958,533  
2,963,298  
2,966,362  
5: 2,930,626  
2,948,542  
6: 2,952,467  
16: 2,940,765  
2,965,380  
19: 2,930,627  
2,958,534  
19.1: 2,958,534

19.5: 2,932,523  
2,935,327  
2,951,706  
20: 2,933,321  
2,937,029  
30: 2,959,422  
35: 2,931,659  
41: 2,951,707  
46: 2,922,656  
2,935,328  
2,964,325  
2,965,381  
48: 2,931,660  
51: 2,935,329  
52: 2,966,363  
58: Re.24,903  
2,955,830  
75: 2,925,020  
2,937,030  
77: 2,965,382  
78: 2,955,831  
81: 2,960,343  
97: 2,960,344  
102: 2,965,383  
103: 2,931,661  
2,955,832  
106: 2,922,657  
110: 2,921,796  
114: 2,925,922  
2,932,524  
2,962,291  
121: 2,954,983  
123: 2,919,925  
2,920,896  
2,925,282  
2,950,117  
2,956,811  
2,965,384

**Class 280**

1.11: 2,958,535  
1.181: 2,965,385  
1.182: 2,960,345  
1.184: 2,936,181  
5: 2,946,598  
2,952,468  
5.2: 2,933,322  
5.22: 2,933,323  
6: 2,919,926  
8: 2,928,623  
11: 2,948,543  
2,925,021  
11.12: 2,920,897  
11.13: 2,920,898  
2,929,636  
2,946,599  
11.14: 2,950,118  
11.2: 2,937,031  
2,941,812  
2,954,984  
11.26: 2,927,797  
2,927,798  
11.28: 2,920,899  
2,944,827  
2,959,423  
11.3: 2,926,924  
11.35: 2,933,324  
2,944,828  
2,947,545  
2,950,119  
2,954,236  
2,959,424  
11.37: 2,946,600  
2,956,812  
2,956,813  
12: 2,950,922  
2,950,923  
12.1: 2,950,120  
13: 2,932,525  
2,937,878  
14: 2,950,924  
16: 2,937,032  
18: 2,927,799  
22: 2,966,364  
25: 2,963,299  
29: 2,929,637  
2,940,766  
30: 2,938,734  
2,941,813  
31: 2,961,248  
32.5: 2,952,469  
33.99: 2,919,927  
2,928,681  
2,931,662  
2,935,330  
2,952,470  
2,958,536  
2,958,537  
2,962,292  
2,964,326

34: Re.24,895  
2,934,349  
2,938,735  
2,955,833  
2,958,538  
2,961,249  
35: 2,933,325  
2,961,250  
36: 2,920,900  
2,947,546  
2,949,314  
2,962,293  
37: 2,925,283  
38: 2,952,294  
41: 2,921,787  
2,936,182  
2,951,708  
42: 2,926,922  
2,932,526  
2,941,814  
2,955,834  
43: 2,955,835  
43.12: 2,940,767  
43.13: 2,948,544  
2,952,471  
43.18: 2,940,768  
43.19: 2,920,901  
2,960,346  
43.2: 2,926,926  
43.21: 2,937,879  
2,961,251  
43.23: 2,940,769  
2,947,547  
2,952,472  
43.24: 2,932,527  
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46: 2,946,601  
47.11: 2,950,121  
47.13: 2,933,326  
2,937,880  
2,953,387  
47.19: 2,950,925  
2,957,700  
2,964,328  
47.24: 2,953,388  
47.26: 2,939,717  
2,940,770  
2,960,347  
47.27: 2,921,798  
47.29: 2,922,658  
47.3: 2,958,539  
47.34: 2,955,836  
47.37: 2,922,659  
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47.39: 2,961,252  
63: Re.24,867  
2,955,837  
79.1: 2,943,863  
79.2: 2,920,902  
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2,947,548  
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79.3: 2,926,022  
2,935,331  
2,945,699  
81: 2,919,928  
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87: 2,933,327  
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87.01: 2,965,387  
87.02: 2,926,927  
87.04: 2,953,389  
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92: 2,935,333  
95: 2,929,638  
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96: 2,944,830  
96.1: 2,923,555  
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96.2: 2,931,663  
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104: 2,950,122  
2,955,840  
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104.5: 2,920,903  
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2,939,718  
2,940,771

104.5: 2,943,864  
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2,939,723  
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112: 2,934,353  
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113: 2,952,474  
116: 2,933,329  
124: 2,919,929  
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150: 2,919,932  
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2,961,255

150.5: 2,924,463  
2,930,629  
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153: 2,966,367  
154.5: 2,935,336  
2,940,773  
158: 2,937,883  
166: 2,945,550  
179: 2,950,126  
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2,964,335  
2,966,368  
202: 2,928,682  
2,948,551  
205: 2,920,904  
207: 2,953,394  
212: 2,965,393  
248: 2,926,024  
249: 2,938,738  
250: 2,946,602  
261: 2,929,641  
276: 2,932,530  
2,935,395  
282: 2,937,035  
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293: 2,960,351  
303: 2,937,884  
304: 2,950,127  
400: 2,955,845  
2,958,540  
2,962,300  
405: 2,940,774  
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406: 2,928,683  
2,930,630  
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407: 2,923,560  
411: 2,926,929  
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415: 2,940,775  
421: 2,924,464  
423: 2,952,476  
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425: 2,928,684  
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426: 2,925,285  
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432: 2,959,429  
2,962,301  
433: 2,958,541  
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434: 2,924,465  
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438: 2,933,331  
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440: 2,920,905  
442: 2,919,933  
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443: 2,929,642  
445: 2,930,631  
446: 2,940,776  
447: 2,948,552  
456: 2,949,317  
457: 2,937,885  
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462: 2,924,466  
2,950,927  
2,954,240  
2,963,303  
463: 2,946,603  
468: 2,922,660  
475: 2,920,906  
2,926,930  
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476: 2,954,241  
477: 2,920,907  
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2,950,128  
479: 2,926,931  
482: 2,925,287  
2,944,835  
2,954,242  
487: 2,952,477  
489: 2,965,369  
491: 2,929,643  
2,944,836  
2,958,543  
2,961,256  
492: 2,937,886  
495: 2,921,800  
499: 2,947,551  
501: 2,958,517  
502: 2,938,739  
503: 2,944,837  
508: 2,937,887  
2,951,711

511: 2,927,802  
512: 2,954,243  
**Class 281**  
15: 2,953,397  
2,965,394  
16: 2,938,740  
29: 2,964,336  
33: 2,947,552  
34: 2,926,932  
2,935,337  
2,946,604  
44: 2,961,257  
**Class 282**  
3: 2,949,318  
11.5: 2,931,666  
16: 2,919,934  
19: 2,929,644  
2,939,726  
21: 2,964,337  
22: 2,922,661  
2,926,025  
2,930,632  
2,966,370  
24: 2,962,302  
25: 2,927,803  
27: 2,926,933  
29: 2,944,838  
2,952,478  
**Class 283**  
9: 2,925,288  
42: 2,941,819  
2,951,712  
58: 2,931,667  
2,955,849  
**Class 284**  
4: 2,922,662  
2,936,183  
2,948,553  
18: 2,919,935  
2,926,934  
2,941,820  
2,945,703  
2,946,605  
2,958,544  
2,962,303  
19: 2,931,668  
2,934,359  
2,935,338  
2,941,821  
2,951,713  
**Class 285**  
1: 2,930,633  
3: 2,933,333  
2,958,545  
4: 2,935,339  
5: 2,921,801  
7: 2,925,289  
2,941,822  
8: 2,926,026  
9: 2,922,663  
10: 2,952,479  
11: 2,954,244  
2,957,709  
13: 2,942,894  
16: 2,955,847  
18: 2,921,802  
2,934,360  
2,935,340  
2,945,704  
2,945,705  
2,952,480  
2,955,850  
21: 2,930,634  
2,958,546  
26: 2,958,547  
31: 2,937,889  
32: 2,926,027  
36: 2,954,245  
39: Re.24,786  
2,927,804  
2,966,372  
40: 2,965,395  
41: 2,937,836  
45: 2,931,669  
2,944,838  
48: 2,962,304  
49: 2,950,129  
2,950,928



53: 2,920,908	<b>Class 286</b>	52.03: 2,950,933	114: 2,930,642	<b>Class 292</b>	251.5: 2,935,352	67: 2,933,339
55: 2,919,936		52.05: 2,926,033	2,962,313		2,935,353	2,938,747
2,957,710	1: 2,924,467	2,935,345	117: 2,937,041	1: 2,922,671	2,942,907	2,940,791
62: 2,943,858		2,965,398	2,944,847	2,937,897	2,943,881	2,946,617
67: 2,950,130	5: 2,926,938	52.08: 2,954,991	2,957,715	2,940,788	2,950,139	2,946,618
81: 2,919,937	2,926,939	52.09: 2,959,435	118: 2,943,876	2,955,858	2,950,140	2,948,562
2,931,670	2,945,707	53: 2,925,293	119: 2,920,913	2,959,439	2,954,253	2,963,310
2,936,184	2,945,708	2,926,034	2,942,903	3: 2,953,404	2,956,828	2,960,380
86: 2,950,929	2,962,308	2,926,940	2,948,559	5: 2,937,043	2,962,318	69: 2,956,832
89: 2,960,353	6: 2,926,031	2,939,731	2,954,994	6: 2,955,859	2,966,375	2,956,833
90: 2,926,028	2,935,344	2,940,781	2,955,856	11: 2,922,672	2,950,141	2,963,311
2,935,342	2,940,780	2,940,782	2,924,787	2,924,473	2,952,488	73: 2,919,948
2,943,869	2,941,824	2,941,826	125: 2,924,470	2,926,942	262: 2,919,945	74: 2,919,949
93: 2,956,819	2,951,718	2,944,844	126: 2,924,470	2,942,905	2,943,882	2,946,619
95: 2,927,805	2,958,551	2,944,845	2,937,042	2,946,612	263: 2,961,266	2,960,365
2,931,671	2,959,431	2,945,712	2,941,827	2,960,361	204: 2,955,863	2,960,366
2,935,343	2,959,432	2,948,557	2,950,937	18: 2,919,944	270: 2,927,813	2,965,407
2,940,778	2,960,355	2,948,558	127: 2,941,828	21: 2,932,536	272: 2,939,738	76: 2,927,815
2,922,664	2,964,338	2,950,134	2,941,829	23: 2,943,877	275: 2,951,723	78: 2,925,298
2,939,727	7: 2,932,533	2,950,934	2,957,716	26: 2,945,717	2,962,319	2,925,299
2,945,706	2,945,709	2,955,853	130: 2,934,367	2,949,327	279: 2,958,554	81: 2,920,917
98: 2,963,304	8: 2,925,290	2,958,552	2,950,938	27: 2,935,350	280: 2,923,568	2,965,408
105: 2,922,665	2,945,710	2,960,359	2,953,403	28: 2,962,315	2,925,297	82: 2,928,692
2,956,820	2,946,608	2,962,309	2,965,404	42: 2,936,189	2,948,561	2,962,322
110: 2,932,531	2,950,931	53.5: 2,935,346		44: 2,943,878	2,955,864	83: 2,919,950
2,933,334	2,950,932	2,961,259	<b>Class 288</b>	45: 2,935,351	2,955,865	2,928,693
2,950,930	2,956,824	2,962,310	1: 2,941,830	2,935,351	2,960,362	2,933,340
2,953,398	2,963,306	54: 2,926,941	2: 2,925,296	2,948,560	2,961,267	2,937,899
112: 2,926,305	9: 2,921,804	2,930,638	2,942,899	53: 2,926,943	281: 2,960,363	2,940,792
114: 2,940,779	2,929,646	2,942,899	2,945,713	60: 2,929,647	288: 2,919,946	2,940,793
2,954,989	2,948,554	2,945,713	2,947,555	63: 2,955,860	296: 2,924,479	2,941,835
2,954,990	2,949,321	2,947,555	2,949,323	64: 2,939,734	2,926,944	2,942,911
2,956,821	2,956,825	2,952,484	2,952,484	2,950,136	2,965,401	2,948,563
2,963,305	10: 2,946,609	2,954,250	2,937,896	67: 2,920,914	324: 2,942,908	2,949,330
2,927,806	2,960,356	2,940,783	2,938,744	70: 2,939,735	332: 2,926,945	2,952,489
116: 2,952,481	2,963,307	2,919,941	2,950,135	76: 2,957,719	333: 2,928,696	2,955,866
119: 2,922,666	2,964,339	2,923,564	2,966,376	77: 2,931,675	335: 2,927,814	2,955,867
127: 2,955,851	11: 2,939,730	2,923,565	5: 2,962,314	79: 2,941,831	336.3: 2,924,480	2,959,443
128: 2,927,807	2,941,825	2,930,639	7: 2,935,349	83: 2,933,338	2,928,690	2,963,312
2,938,741	2,943,872	2,942,900	10: 2,924,471	87: 2,920,915	2,937,045	2,964,347
133: 2,947,553	2,949,322	2,947,556	16: 2,951,721	92: 2,928,688	2,938,746	83.1: 2,965,409
137: 2,956,822	2,957,711	2,947,557	20: 2,919,943	99: 2,929,648	2,949,329	85: 2,961,269
2,965,396	11.11: 2,919,938	2,952,485	23: 2,945,715	2,937,044	2,962,320	2,961,270
138: 2,937,890	2,943,873	2,955,854	24: 2,924,472	2,956,827	340: 2,937,898	2,924,483
143: 2,923,562	11.12: 2,919,939	2,961,260	27: 2,957,717	109: 2,930,645	2,954,254	2,931,679
146: 2,920,909	11.13: 2,921,805	2,920,912	2,964,343	110: 2,954,252	2,964,346	2,953,406
149: 2,920,910	2,948,555	2,923,566	<b>Class 289</b>	113: 2,921,810	2,929,652	2,958,556
158: 2,958,548	2,959,433	2,940,784	1: 2,942,904	2,926,037	341.11: 2,946,614	2,959,444
160: 2,931,672	2,961,258	2,931,674	14: 2,945,716	2,928,689	341.15: 2,956,829	2,959,445
161: 2,932,532	2,963,308	75: 2,950,936	17: 2,926,036	2,955,861	2,957,721	87: 2,924,484
162: 2,938,742	11.14: 2,928,685	2,959,436	<b>Class 290</b>	126: 2,940,789	341.17: 2,936,190	2,954,564
173: 2,949,319	2,930,636	2,944,843	1: 2,920,210	127: 2,939,736	341.19: 2,941,834	2,954,996
177: 2,937,891	2,944,840	2,964,340	2,924,721	2,945,718	347: 2,919,947	2,935,355
184: 2,926,935	2,966,374	2,934,364	14: 2,945,716	128: 2,924,474	2,936,191	2,946,620
189: 2,950,131	2,965,397	2,937,040	17: 2,926,036	2,947,559	2,942,909	2,946,621
200: 2,943,870	2,921,806	2,943,875	<b>Class 291</b>	129: 2,924,475	2,947,561	2,965,410
212: 2,942,895	2,922,668	2,952,486	1: 2,920,210	140: 2,961,263	2,965,402	87.28: 2,964,348
213: 2,966,373	2,937,039	2,954,251	2,924,721	142: 2,934,370	2,965,403	88: 2,956,834
222: 2,962,306	2,945,711	2,959,437	2,929,130	148: 2,940,790	2,965,404	94: 2,953,407
226: 2,936,185	2,951,719	2,962,311	2,934,369	163: 2,930,646	2,965,405	96: 2,939,739
228: 2,942,896	2,959,439	2,952,487	<b>Class 292</b>	164: 2,927,811	2,965,406	2,945,720
2,960,354	12: 2,927,808	2,954,251	1: 2,920,210	166: 2,930,647	347: 2,919,947	97: 2,951,725
230: Re.24,799	16: 2,990,357	2,959,437	2,924,721	169: 2,929,649	2,936,191	99: 2,957,723
232: 2,944,840	2,937,037	2,962,311	2,929,130	2,945,718	2,936,191	100: 2,931,680
233: 2,937,037	25: 2,925,291	2,962,312	2,961,549	129: 2,924,475	2,942,909	2,947,564
238: 2,929,645	26: 2,931,673	2,943,364	2,934,655	140: 2,961,263	2,947,561	102: 2,954,258
243: 2,944,841	2,934,363	2,949,324	2,953,691	142: 2,934,370	2,947,561	2,955,868
2,958,549	2,943,874	2,923,567	2,961,550	148: 2,940,790	2,965,402	2,957,724
245: 2,937,892	2,943,874	2,930,641	2,962,597	163: 2,930,646	2,965,403	103: 2,925,300
249: 2,951,715	2,948,556	2,935,348	4: 2,962,598	173: 2,966,377	2,965,404	106: 2,923,569
256: 2,926,029	28: 2,936,187	2,937,895	2,962,599	175: 2,964,344	2,965,405	2,926,039
260: 2,922,667	<b>Class 287</b>	2,940,786	30: 2,920,211	181: 2,944,848	2,965,406	2,958,557
262: 2,921,803	1: 2,950,133	90: 2,921,809	36: 2,930,900	196: 2,927,812	2,965,407	110: 2,950,940
273: 2,951,716	2,953,400	2,922,670	2,938,127	198: 2,952,487	2,965,408	2,954,997
286: 2,926,030	12: 2,921,807	2,924,469	37: 2,952,782	2,962,316	2,965,409	<b>Class 293</b>
298: 2,956,823	2,921,808	2,928,687	33: 2,923,830	201: 2,943,880	2,965,410	16: 2,928,691
301: 2,958,550	2,928,686	2,934,365	2,926,265	204: 2,938,745	2,965,411	62: 2,958,555
306: 2,934,361	14: 2,920,911	2,934,366	2,930,901	207: 2,941,832	2,965,412	63: 2,965,403
307: 2,950,132	2,922,669	2,936,188	2,934,656	2,949,328	2,965,413	66: 2,954,255
311: 2,951,717	2,954,247	2,942,901	2,939,964	209: 2,924,476	2,965,414	69: 2,951,724
313: 2,952,482	20: 2,954,248	2,942,902	2,943,211	211: 2,931,676	2,965,415	2,965,404
315: 2,939,728	2,955,852	2,953,401	40: 2,922,050	216: 2,924,477	2,965,416	70: 2,954,255
2,939,729	2,955,853	2,954,992	2,922,895	2,961,265	31.2: 2,942,910	16: 2,936,192
317: 2,962,307	20.3: 2,927,809	2,954,993	2,924,722	219: 2,929,650	33: 2,926,038	19: 2,936,193
323: 2,937,038	2,930,637	2,957,713	2,933,614	220: 2,941,833	49: 2,937,046	2,936,193
325: 2,926,936	20.5: 2,924,468	2,957,714	2,942,122	222: 2,944,849	2,965,379	19: 2,936,193
328: 2,937,893	49: 2,942,898	2,944,846	2,949,540	223: 2,944,850	2,965,380	20: 2,924,481
330: 2,954,246	51: 2,933,335	2,955,855	2,949,541	224: 2,924,478	2,965,381	25: 2,935,354
332.3: 2,946,606	52: 2,919,940	2,962,312	2,955,210	226: 2,942,906	2,965,382	26: 2,924,482
334.5: 2,946,607	2,923,563	2,925,292	2,955,764	228: 2,929,651	2,965,383	26: 2,930,648
341: 2,930,635	2,925,292	2,926,032	44: 2,939,017	229: 2,931,677	2,965,384	29: 2,950,441
342: 2,934,362	2,927,810	2,945,610	50: 2,956,765	2,946,613	31: 2,959,442	2,965,405
344: 2,943,871	2,952,483	2,951,720	52: 2,929,937	2,950,137	31.2: 2,942,910	25: 2,935,354
2,959,430	2,954,249	2,955,856	2,945,960	2,950,138	33: 2,926,038	26: 2,924,482
350: 2,926,937	2,955,857	2,959,438	<b>Class 291</b>	241: 2,947,560	49: 2,937,046	2,930,648
356: 2,949,320	2,956,820	2,960,358	1: 2,933,337	242: 2,922,673	2,943,883	2,965,379
368: 2,944,842	2,963,309	2,963,309	11: 2,949,326	246: 2,955,862	2,965,380	2,965,380
373: 2,936,186	2,963,309	2,963,309	2,957,718	247: 2,951,722	2,965,381	50.8: 2,957,722
374: 2,953,399	2,963,309	2,963,309		251: 2,962,317	2,965,382	51: 2,932,537
408: 2,941,823	2,963,309	2,963,309			2,965,383	57: 2,956,831
413: 2,923,561	2,963,309	2,963,309			2,965,384	61: 2,947,562
					2,965,385	64: 2,920,916
					2,965,386	65: 2,931,678
					2,965,387	65.5: 2,932,538
					2,965,388	2,936,194
					2,965,389	2,945,616
					2,965,390	2,947,563
					2,965,391	2,954,257
					2,965,392	2,965,406



Class 296—Con.	Class 298	37: 2,964,358	24: 2,954,262	88: 2,946,896	88.5: 2,943,212	106: 2,920,217
28: 2,921,812	1: 2,957,726	41: 2,946,625	2,957,729	2,948,818	2,944,164	2,923,841
2,925,301	5: 2,919,953	47: 2,930,656	2,959,450	2,948,819	2,944,165	2,929,942
2,929,655	8: 2,929,658	48: 2,924,486	2,961,275	2,949,542	2,944,166	2,939,019
2,931,681	10: 2,947,571	58: 2,937,905	2,963,328	2,950,397	2,944,167	2,947,884
2,933,341	17: 2,960,367	63: 2,943,889	2,940,798	2,951,949	2,945,133	2,962,608
2,934,371	20: 2,930,653	2,948,568	2,922,678	2,954,480	2,945,134	2,924,726
2,934,372	22: 2,953,410	Class 302	2,937,052	2,954,481	2,945,135	2,927,224
2,934,373	28: 2,954,995	2: 2,934,378	2,955,882	2,954,482	2,945,964	2,956,183
2,937,047	35: 2,958,560	14: 2,920,922	30: 2,923,576	2,955,211	2,945,965	112: 2,941,097
2,945,721	Class 300	2,937,049	2,926,046	2,955,212	2,945,966	2,943,213
2,947,567	14: 2,927,820	2,939,745	31: 2,922,679	2,956,173	2,946,897	2,945,967
2,953,408	2,937,900	2,943,890	2,945,726	2,956,174	2,946,898	2,963,595
2,953,409	2,938,750	2,960,368	35: 2,940,799	2,957,087	2,946,899	115: 2,927,225
2,954,998	16: 2,964,353	36: 2,926,965	36: 2,926,965	2,957,088	2,946,900	2,943,214
2,955,870	18: 2,926,952	46: 2,926,966	48: 2,920,925	2,958,787	2,946,901	117: 2,933,626
2,962,323	Class 301	53: 2,964,360	54: 2,934,382	2,959,684	2,947,879	2,944,168
35: 2,927,817	5: 2,926,953	59: 2,957,730	59: 2,957,730	2,959,685	2,947,880	2,954,489
2,942,912	2,926,954	60: 2,926,967	60: 2,926,967	2,959,686	2,947,881	132: 2,931,923
2,947,568	2,926,955	63: 2,938,753	63: 2,938,753	2,960,613	2,947,882	2,939,020
2,956,835	2,926,956	2,945,727	2,945,728	2,962,601	2,947,883	2,947,885
2,965,414	2,926,957	2,946,627	2,946,627	2,962,602	2,948,820	2,962,609
37: 2,934,374	2,926,958	2,946,628	2,946,628	2,963,591	2,949,543	2,964,658
2,941,837	2,926,959	2,946,629	2,946,629	2,964,646	2,949,544	140: 2,928,957
2,963,314	2,926,960	2,946,630	2,946,630	2,964,647	2,949,545	141.4: 2,946,902
44: 2,922,674	2,926,961	2,946,631	2,946,631	2,964,648	2,949,546	2,962,610
2,923,571	2,926,962	2,946,632	2,946,632	2,966,595	2,949,547	2,963,596
2,926,040	2,926,963	2,946,633	2,946,633	2,966,596	2,949,548	141.8: 2,922,900
2,926,041	2,926,964	2,946,634	2,946,634	2,966,597	2,949,549	146: 2,955,215
2,929,656	2,926,965	2,946,635	2,946,635	2,966,598	2,950,398	2,965,772
2,934,375	2,926,966	2,946,636	2,946,636	2,966,599	2,950,399	147: 2,933,627
2,938,749	2,926,967	2,946,637	2,946,637	2,966,600	2,951,950	2,934,660
2,941,838	2,926,968	2,946,638	2,946,638	2,966,601	2,951,951	2,945,137
2,946,622	2,926,969	2,946,639	2,946,639	2,966,602	2,951,952	149: 2,922,052
2,947,569	2,926,970	2,946,640	2,946,640	2,966,603	2,951,953	2,922,053
2,955,871	2,926,971	2,946,641	2,946,641	2,966,604	2,952,783	2,950,400
44.5: 2,930,649	2,926,972	2,946,642	2,946,642	2,966,605	2,952,784	150: 2,924,727
2,933,342	2,926,973	2,946,643	2,946,643	2,966,606	2,952,785	156: 2,927,226
46: 2,956,836	2,926,974	2,946,644	2,946,644	2,966,607	2,953,692	2,946,903
47: 2,955,872	2,926,975	2,946,645	2,946,645	2,966,608	2,953,693	Class 308
49.2: 2,948,565	2,926,976	2,946,646	2,946,646	2,966,609	2,953,694	1: 2,933,352
50: 2,961,271	2,926,977	2,946,647	2,946,647	2,966,610	2,953,695	2: 2,920,927
51: 2,951,726	2,926,978	2,946,648	2,946,648	2,966,611	2,953,696	2,937,053
56: 2,955,873	2,926,979	2,946,649	2,946,649	2,966,612	2,953,697	2,951,727
57: 2,958,558	2,926,980	2,946,650	2,946,650	2,966,613	2,953,698	3: 2,919,956
2,964,350	2,926,981	2,946,651	2,946,651	2,966,614	2,953,699	2,925,305
2,964,351	2,926,982	2,946,652	2,946,652	2,966,615	2,953,700	2,931,684
65: 2,945,722	2,926,983	2,946,653	2,946,653	2,966,616	2,953,701	2,934,384
2,952,490	2,926,984	2,946,654	2,946,654	2,966,617	2,953,702	2,959,452
2,959,446	2,926,985	2,946,655	2,946,655	2,966,618	2,953,703	3.5: 2,930,659
2,959,447	2,926,986	2,946,656	2,946,656	2,966,619	2,953,704	2,951,728
66: 2,926,948	2,926,987	2,946,657	2,946,657	2,966,620	2,953,705	3.8: 2,926,048
2,926,949	2,926,988	2,946,658	2,946,658	2,966,621	2,953,706	2,928,696
2,926,950	2,926,989	2,946,659	2,946,659	2,966,622	2,953,707	2,941,847
2,926,951	2,926,990	2,946,660	2,946,660	2,966,623	2,953,708	4: 2,950,149
2,927,818	2,926,991	2,946,661	2,946,661	2,966,624	2,953,709	2,959,453
2,939,740	2,926,992	2,946,662	2,946,662	2,966,625	2,953,710	5: 2,924,491
2,949,331	2,926,993	2,946,663	2,946,663	2,966,626	2,953,711	6: 2,919,957
2,956,837	2,926,994	2,946,664	2,946,664	2,966,627	2,953,712	2,929,661
84: 2,924,485	2,926,995	2,946,665	2,946,665	2,966,628	2,953,713	2,932,541
2,933,343	2,926,996	2,946,666	2,946,666	2,966,629	2,953,714	2,959,454
2,942,913	2,926,997	2,946,667	2,946,667	2,966,630	2,953,715	9: 2,932,542
2,943,884	2,926,998	2,946,668	2,946,668	2,966,631	2,953,716	2,951,729
90: 2,943,884	2,926,999	2,946,669	2,946,669	2,966,632	2,953,717	2,952,494
91: 2,919,952	2,927,000	2,946,670	2,946,670	2,966,633	2,953,718	15: 2,923,579
2,933,344	2,927,001	2,946,671	2,946,671	2,966,634	2,953,719	2,952,495
2,933,345	2,927,002	2,946,672	2,946,672	2,966,635	2,953,720	2,965,418
2,933,346	2,927,003	2,946,673	2,946,673	2,966,636	2,953,721	21: 2,926,049
2,933,347	2,927,004	2,946,674	2,946,674	2,966,637	2,953,722	22: 2,921,819
2,933,348	2,927,005	2,946,675	2,946,675	2,966,638	2,953,723	2,938,754
2,933,349	2,927,006	2,946,676	2,946,676	2,966,639	2,953,724	26: 2,937,054
2,933,350	2,927,007	2,946,677	2,946,677	2,966,640	2,953,725	2,941,848
2,933,351	2,927,008	2,946,678	2,946,678	2,966,641	2,953,726	2,953,414
2,933,352	2,927,009	2,946,679	2,946,679	2,966,642	2,953,727	2,956,841
2,933,353	2,927,010	2,946,680	2,946,680	2,966,643	2,953,728	2,958,563
2,933,354	2,927,011	2,946,681	2,946,681	2,966,644	2,953,729	28: 2,922,680
2,933,355	2,927,012	2,946,682	2,946,682	2,966,645	2,953,730	2,930,660
2,933,356	2,927,013	2,946,683	2,946,683	2,966,646	2,953,731	2,935,362
2,933,357	2,927,014	2,946,684	2,946,684	2,966,647	2,953,732	2,939,748
2,933,358	2,927,015	2,946,685	2,946,685	2,966,648	2,953,733	2,964,650
2,933,359	2,927,016	2,946,686	2,946,686	2,966,649	2,953,734	2,964,651
2,933,360	2,927,017	2,946,687	2,946,687	2,966,650	2,953,735	2,964,652
2,933,361	2,927,018	2,946,688	2,946,688	2,966,651	2,953,736	2,964,653
2,933,362	2,927,019	2,946,689	2,946,689	2,966,652	2,953,737	2,964,654
2,933,363	2,927,020	2,946,690	2,946,690	2,966,653	2,953,738	2,964,655
2,933,364	2,927,021	2,946,691	2,946,691	2,966,654	2,953,739	2,964,656
2,933,365	2,927,022	2,946,692	2,946,692	2,966,655	2,953,740	2,964,657
2,933,366	2,927,023	2,946,693	2,946,693	2,966,656	2,953,741	2,964,658
2,933,367	2,927,024	2,946,694	2,946,694	2,966,657	2,953,742	2,964,659
2,933,368	2,927,025	2,946,695	2,946,695	2,966,658	2,953,743	2,964,660
2,933,369	2,927,026	2,946,696	2,946,696	2,966,659	2,953,744	2,964,661
2,933,370	2,927,027	2,946,697	2,946,697	2,966,660	2,953,745	2,964,662
2,933,371	2,927,028	2,946,698	2,946,698	2,966,661	2,953,746	2,964,663
2,933,372	2,927,029	2,946,699	2,946,699	2,966,662	2,953,747	2,964,664
2,933,373	2,927,030	2,946,700	2,946,700	2,966,663	2,953,748	2,964,665
2,933,374	2,927,031	2,946,701	2,946,701	2,966,664	2,953,749	2,964,666
2,933,375	2,927,032	2,946,702	2,946,702	2,966,665	2,953,750	2,964,667
2,933,376	2,927,033	2,946,703	2,946,703	2,966,666	2,953,751	2,964,668
2,933,377	2,927,034	2,946,704	2,946,704	2,966,667	2,953,752	2,964,669
2,933,378	2,927,035	2,946,705	2,946,705	2,966,668	2,953,753	2,964,670
2,933,379	2,927,036	2,946,706	2,946,706	2,966,669	2,953,754	2,964,671
2,933,380	2,927,037	2,946,707	2,946,707	2,966,670	2,953,755	2,964,672
2,933,381	2,927,038	2,946,708	2,946,708	2,966,671	2,953,756	2,964,673
2,933,382	2,927,039	2,946,709	2,946,709	2,966,672	2,953,757	2,964,674
2,933,383	2,927,040	2,946,710	2,946,710	2,966,673	2,953,758	2,964,675
2,933,384	2,927,041	2,946,711	2,946,711	2,966,674	2,953,759	2,964,676
2,933,385	2,927,042	2,946,712	2,946,712	2,966,675	2,953,760	2,964,677
2,933,386	2,927,043	2,946,713	2,946,713	2,966,676	2,953,761	2,964,678
2,933,387	2,927,044	2,946,714	2,946,714	2,966,677	2,953,762	2,964,679
2,933,388	2,927,045	2,946,715	2,946,715	2,966,678	2,953,763	2,964,680
2,933,389	2,927,046	2,946,716	2,946,716	2,966,679	2,953,764	2,964,681
2,933,390	2,927,047	2,946,717	2,946,717	2,966,680	2,953,765	2,964,682
2,933,391	2,927,048	2,946,718	2,946,718	2,966,681	2,953,766	2,964,683
2,933,392	2,927,049	2,946,719	2,946,719	2,966,682	2,953,767	2,964,684
2,933,393	2,927,050	2,946,720	2,946,720	2,966,683	2,953,768	2,964,685



79: 2, 923, 581 2, 946, 630 2, 948, 571	243: 2, 919, 964 2, 920, 928 2, 927, 827 2, 927, 828 2, 929, 664 2, 929, 665 2, 936, 202 2, 939, 751 2, 939, 752 2, 955, 005 2, 960, 372	26: 2, 930, 911 2, 930, 912 2, 930, 913 2, 947, 888 2, 947, 889 2, 947, 890 2, 955, 217 2, 957, 994 27: 2, 924, 728 2, 925, 503 2, 930, 914 2, 931, 925 2, 935, 629 2, 945, 968 2, 948, 821 28: 2, 958, 792 29: 2, 930, 915 2, 962, 611 34: 2, 946, 905 37: 2, 945, 969 2, 958, 793 39: 2, 933, 629 2, 943, 215 41: 2, 947, 891 42: 2, 939, 021 43: 2, 922, 902 2, 961, 555 44: 2, 950, 401 46: 2, 932, 749 47: Re. 2, 472, 772 50: 2, 931, 926 2, 936, 386 2, 941, 098 2, 963, 598 2, 965, 774 51: 2, 953, 697 54: 2, 951, 165 2, 964, 659 55: 2, 920, 218 2, 920, 219 56: 2, 924, 729 2, 950, 402 57: 2, 947, 892 61: 2, 951, 954 2, 959, 694 64: 2, 929, 943 2, 965, 775 65: 2, 956, 186 67: 2, 929, 944 2, 931, 927 2, 935, 630 68: 2, 934, 662 2, 951, 166 2, 922, 054 71: 2, 939, 022 2, 942, 125 75: 2, 956, 187 2, 958, 794 77: 2, 946, 906 2, 959, 695 81: 2, 924, 730 2, 945, 970 83: 2, 944, 169 86: 2, 956, 188 2, 965, 776 87: 2, 922, 055 15: 2, 964, 367 2, 958, 795 2, 962, 612 2, 964, 660 89: 2, 932, 750 2, 944, 170 90: 2, 928, 960 2, 937, 294 2, 947, 893 2, 959, 696 91: 2, 927, 228 2, 928, 961 93: 2, 920, 220 2, 922, 056 2, 951, 955 2, 951, 956 2, 957, 093 2, 964, 661 94: 2, 938, 132 95: 2, 931, 928 2, 939, 973 2, 939, 974 2, 958, 796 96: 2, 920, 221 103: 2, 943, 216 105: 2, 939, 023 2, 949, 552 2, 965, 777 111: 2, 957, 094 112: 2, 939, 972 131: 2, 939, 975 153: 2, 928, 962 2, 945, 130 2, 963, 599 154: 2, 932, 751 2, 939, 024	156: 2, 922, 903 2, 929, 945 2, 930, 916 2, 931, 929 157: 2, 952, 787 162: 2, 927, 229 2, 949, 553 2, 964, 662 164: 2, 951, 957 166: 2, 932, 752 168: 2, 928, 963 172: 2, 922, 057 194: 2, 931, 930 196: 2, 939, 976 202: 2, 947, 894 206: 2, 921, 207 2, 949, 554 208: 2, 928, 964 2, 955, 631 2, 962, 613 211: 2, 944, 171 2, 956, 189 214: 2, 921, 208 2, 922, 058 2, 945, 139 2, 945, 140 216: 2, 961, 556 228: 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942, 924 184: 2, 962, 335 195: 2, 933, 360 196: 2, 931, 685 2, 944, 861 200: 2, 945, 733 202: 2, 950, 155 204: 2, 934, 387 207: 2, 937, 910 2, 942, 925 2, 950, 946 2, 956, 851 208: 2, 962, 336 213: 2, 935, 066 214: 2, 955, 006 218: 2, 930, 666 2, 960, 374 2, 966, 384 221: 2, 952, 497 222: 2, 964, 370 223: 2, 928, 705 2, 928, 706 2, 946, 637 228: 2, 960, 375 2, 961, 281 229: 2, 937, 063 2, 943, 901 2, 962, 337 231: 2, 963, 332 233: 2, 934, 388 234.1: 2, 952, 498 234.5: 2, 964, 371 237: 2, 944, 862 238: 2, 933, 361 2, 944, 863 240: 2, 948, 576 242: 2, 955, 891 2, 965, 427 245: 2, 931, 686 2, 939, 755 2, 957, 740 2, 965, 428 246: 2, 923, 583 251: 2, 924, 495 252: 2, 965, 429 254: 2, 940, 809 255: 2, 946, 638 2, 961, 282 257: 2, 946, 639 2, 962, 338 2, 966, 385 262: 2, 934, 389 264: 2, 948, 577 266: 2, 950, 156 268: 2, 935, 367 2, 940, 810	270: 2, 934, 390 2, 942, 926 276: 2, 953, 419 2, 966, 386 277: 2, 941, 856 278: 2, 966, 387 282: 2, 939, 756 284: 2, 965, 430 285: 2, 943, 902 293: 2, 934, 391 2, 955, 892 296: 2, 932, 545 300: 2, 950, 157 301: 2, 926, 979 2, 947, 589 302: 2, 936, 205 303: 2, 926, 980 304: 2, 930, 667 2, 955, 007 311: 2, 943, 903 2, 961, 283 312: 2, 937, 911 317: 2, 923, 584 2, 964, 372 320: 2, 926, 056 2, 944, 864 2, 946, 640 2, 950, 947 2, 955, 893 322: 2, 936, 206 323: 2, 931, 687 333: 2, 966, 388 339: 2, 960, 376 2, 964, 373 341: 2, 944, 865 342: 2, 948, 578 2, 950, 158 350: 2, 961, 284 352: 2, 932, 584	Class 313 1: 2, 951, 958 2, 963, 600 3: 2, 922, 059 2, 954, 493 6: 2, 921, 209 7: 2, 921, 210 2, 925, 504 2, 937, 295 2, 941, 099 2, 944, 172 2, 963, 601 11.5: 2, 963, 602 17: 2, 963, 603 19: 2, 929, 947 21: 2, 958, 797 22: 2, 936, 387 25: 2, 961, 959 2, 966, 600 26: 2, 927, 231 30: 2, 928, 013 32: 2, 935, 633 33: 2, 965, 778 35: 2, 966, 601 36: 2, 951, 960 42: 2, 932, 753 43: 2, 924, 731 2, 946, 909 2, 964, 664 44: 2, 966, 602 49: 2, 952, 789 51: 2, 937, 296 2, 957, 095 2, 965, 779 54: 2, 926, 268 2, 934, 664 2, 958, 798 56: 2, 942, 126 2, 939, 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127 2, 951, 961 2, 954, 494 2, 955, 220 2, 957, 097 77: 2, 921, 213 2, 926, 274 2, 927, 236 2, 939, 979 2, 941, 102 2, 943, 218 2, 944, 173 2, 944, 174 2, 944, 175 2, 963, 607 78: 2, 928, 014 2, 928, 971 2, 929, 948 2, 947, 896 79: 2, 943, 219 82: 2, 921, 214 2, 922, 062 2, 923, 845 2, 935, 636 2, 938, 134 2, 939, 982 2, 942, 128 2, 945, 143 2, 947, 897 2, 949, 556 2, 950, 408 2, 956, 192 2, 961, 562 2, 963, 608 83: 2, 928, 972 2, 930, 918 2, 958, 800 84: 2, 922, 910 2, 925, 508 2, 934, 666 2, 939, 028 2, 952, 791 2, 956, 193 2, 963, 609 2, 965, 782 85: 2, 921, 215 2, 928, 966 2, 932, 755 2, 937, 297 2, 939, 981
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## Class 313—Con.

85: 2,942,129 2,942,130 2,951,167	141: 2,944,178 2,946,912 2,955,222 2,957,998	262: 2,920,225 265: 2,965,791 266: 2,937,307 268: 2,932,757 269: 2,943,224	3.5: 2,928,019 2,928,020 2,930,925 2,930,926 2,930,927 2,932,760 2,933,637 2,933,638 2,934,671 2,935,640 2,935,641 2,936,394 2,936,395 2,936,396 2,936,397 2,937,309 2,937,310 2,938,138 2,939,034 2,939,035 2,939,993 2,939,994 2,939,995 2,939,996 2,941,111 2,941,112 2,941,113 2,941,114 2,942,140 2,942,141 2,942,142 2,942,143 2,943,227 2,943,228 2,944,181 2,944,182 2,945,153 2,945,154 2,945,979 2,945,980 2,945,981 2,947,906 2,947,907 2,949,558 2,951,173 2,951,174 2,951,963 2,952,795 2,952,796 2,953,709 2,955,223 2,955,224 2,955,225 2,956,198 2,956,199 2,956,200 2,957,102 2,959,707 2,961,571 2,962,620 2,964,669 2,964,670 2,966,609 2,966,610	5.26: 2,924,741 2,938,139 5.29: 2,932,762 5.35: 2,965,795 5.39: 2,945,155 2,955,229 2,958,804 5.41: 2,940,000 2,956,201 5.42: 2,922,921 2,925,522 2,940,001 5.43: 2,930,928 5.46: 2,929,955 2,934,672 2,940,002 2,944,183 2,947,908 2,949,559 5.47: 2,939,036 2,945,156 5.52: 2,939,037 5.54: 2,963,616 7: 2,925,523 2,942,144 8: 2,921,226 2,925,524 2,962,621 2,962,622 8.5: 2,921,227 2,922,069 2,927,242 2,932,763 2,934,673 2,937,312 2,944,185 2,948,829 2,957,104 8.6: 2,931,936 2,940,003 9: 2,922,070 2,924,742 2,938,140 10: Re.24,781 2,924,743 2,925,525 2,926,282 2,928,980 2,929,956 2,930,929 2,951,175 2,953,710 2,966,612 11: 2,922,922 2,938,141 2,961,574 12: 2,922,071 2,929,957 2,931,937 2,931,938 2,932,764 2,937,313 2,942,145 2,942,146 2,943,230 2,943,231 2,946,917 2,948,830 2,949,561 2,951,176 2,951,177 2,953,712 2,957,105 2,962,623 13: 2,921,228 2,928,981 2,928,982 2,930,930 2,933,640 2,941,116 2,943,232 2,945,157 2,951,178 2,957,106 15: 2,931,939 2,935,642 2,951,179 16: 2,922,072 2,930,931 17: 2,937,314 2,954,499 20: 2,928,983 2,940,004 2,943,233 2,963,617 21: 2,922,073 2,925,526 2,926,283 2,936,399 2,940,005 2,945,982	21: 2,952,796 2,958,002 2,961,575 2,961,576 2,962,624 2,964,672 2,920,230 2,921,229 2,928,984 2,931,940 2,939,038 2,939,039 2,942,147 2,951,965 2,954,500 2,954,501 2,922,074 2,935,643 24: 2,936,400 2,951,180 2,951,181 2,951,966 2,963,618 26: 2,938,142 2,954,502 2,962,625 2,964,673 27: 2,921,230 2,921,231 2,923,850 2,923,851 2,924,744 2,924,745 2,924,746 2,925,527 2,926,284 2,929,958 2,932,765 2,932,766 2,933,641 2,933,642 2,935,644 2,937,315 2,939,040 2,944,186 2,954,503 2,954,504 2,956,202 2,958,003 2,962,626 2,963,619 2,964,674 2,965,796 30: 2,920,231 2,927,243 2,928,985 2,943,234 2,956,203 2,939,042 2,942,148 35: 2,963,620 36: 2,948,831 39: 2,925,528 2,926,285 2,928,022 2,928,986 2,931,941 2,931,942 2,932,767 2,939,043 2,939,044 2,944,187 2,945,158 2,946,918 2,946,919 2,949,562 2,953,713 2,958,004 2,964,675 39.3: 2,925,529 2,930,932 2,933,643 2,934,674 2,939,045 2,940,006 2,942,149 2,945,983 2,949,563 2,954,505 2,956,204 2,963,621 39.53: 2,951,182 39.55: 2,928,987 2,940,007 39.61: 2,928,023 2,931,943 2,934,675 2,945,159 39.63: 2,922,075 2,930,933 2,932,768 2,953,714	39.65: 2,965,797 39.69: 2,950,416 39.71: 2,939,046 2,958,005 39.73: 2,935,645 39.75: 2,929,959 2,943,235 2,953,715 39.77: 2,943,236 43: 2,937,316 45: 2,959,708 46: 2,930,934 2,951,967 2,962,627 51: 2,928,024 55: 2,922,923 2,945,984 2,954,506 57: 2,951,968 58: 2,946,920 2,958,006 59: 2,923,852 2,936,401 2,953,716 2,958,805 71: 2,920,232 2,922,076 75: 2,950,417 78: 2,932,769 80: 2,955,230 81: 2,941,117 82: 2,941,118 2,945,985 2,948,832 83: 2,920,233 2,921,232 2,922,077 2,927,244 2,927,245 2,928,025 2,931,944 2,934,676 2,935,646 2,938,143 2,944,188 2,959,709 2,962,628 2,963,622 2,965,798 84.5: 2,924,747 2,928,988 2,933,644 2,934,677 2,934,678 2,936,402 2,960,623 84.6: 2,921,233 2,923,853 2,925,530 2,925,531 2,927,246 2,931,945 2,937,317 2,937,318 2,939,047 2,943,237 2,944,189 2,946,921 2,949,564 2,956,205 2,966,613 90: 2,928,989 92: 2,941,119 96: 2,931,946 97: 2,928,990 2,938,144 2,940,008 2,953,717 2,960,624 2,962,629 2,965,799 98: 2,949,565 2,964,676 100: 2,923,854 2,923,855 2,929,960 2,933,645 2,936,403 2,938,146 2,943,238 2,945,986 2,945,987 2,946,922 2,947,909 2,958,007 2,958,806 2,963,623 101: 2,940,009 106: 2,945,160 107: 2,940,010 2,964,677
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2,936,407 2,942,156 2,943,243 2,950,421 2,953,724 2,955,235 2,959,714 2,959,715 2,963,626 2,965,811 100: 2,927,250 2,933,655 2,941,123 101: 2,920,245 2,923,859 2,923,860 2,925,537 2,927,251 2,929,964 2,929,965 2,932,772 2,935,654 2,939,051 2,940,016 2,940,017 2,940,018 2,945,162 2,945,163 2,945,989 2,946,927 2,947,914 2,948,834 2,951,184 2,951,185 2,955,236 2,958,013 2,958,014 2,960,633 2,961,584 2,964,683 2,965,812 2,966,618 103: 2,952,799 107: 2,958,810 112: 2,920,246 2,935,655 117: 2,933,656 119: 2,921,240 2,923,998 2,929,966 2,934,679 2,942,157 2,943,244 2,946,928 122: 2,946,929 123: 2,925,538 2,927,252 2,928,999 2,931,952 2,935,656 2,938,151 2,941,124 2,941,125 2,944,194 2,945,990	123: 2,945,991 2,946,930 2,951,186 2,953,725 2,953,726 2,953,727 2,953,728 2,964,684 124: 2,922,929 2,924,754 2,946,931 2,958,811 2,964,685 130: 2,920,247 2,929,967 2,939,052 2,958,015 2,960,634 2,965,813 2,966,619 131: 2,920,248 132: 2,929,968 2,935,657 133.5: 2,922,082 2,922,083 2,932,773 134: 2,931,953 135: 2,922,084 2,962,633 137: 2,927,253 2,960,635 138: 2,942,158 139: 2,922,085 2,924,755 2,930,941 2,958,016 2,962,634 140: 2,920,249 2,935,658 2,942,159 2,954,511 141: 2,932,861 2,932,774 2,935,659 2,960,636 142: 2,923,862 2,927,254 2,929,000 2,933,657 2,938,152 2,941,126 2,941,127 2,942,160 2,950,422 2,952,800 2,962,635 2,965,814 2,965,815 144: 2,920,250 2,927,255 2,931,954 146: 2,924,756 2,929,969 2,947,915 147: 2,939,053 2,951,973 2,960,637 148: 2,921,241 148.5: 2,922,930 2,923,863 2,924,757 2,930,942 2,931,955 2,933,658 2,935,660 2,935,661 2,947,916 2,955,237 2,957,111 2,958,017 2,959,716 2,959,717 149: 2,920,251 2,920,252 2,922,931 2,925,539 2,930,943 2,931,956 2,933,659 2,941,128 2,943,245 2,947,917 2,958,018 2,963,627 2,964,636 2,964,637 150: 2,942,161 2,951,187 151: 2,922,086 2,954,512	152: 2,929,970 2,947,918 2,947,919 2,950,423 153: 2,931,957 155.5: 2,922,087 2,923,864 2,926,289 2,960,638 156: 2,925,540 2,937,321 2,951,188 2,951,189 157: 2,927,256 2,939,054 2,963,628 157.5: 2,930,944 2,942,162 2,946,932 158: 2,921,242 2,922,932 2,925,541 2,937,322 2,940,019 2,941,129 2,947,920 2,955,238 2,962,636 159: 2,920,253 2,922,933 2,923,865 2,935,662 2,943,246 2,947,921 2,955,239 2,958,019 2,963,629 165: 2,922,088 2,932,775 2,933,660 2,943,247 2,952,801 2,952,802 166: 2,922,089 2,942,163 171: 2,941,130 2,946,933 172: 2,928,028 2,930,945 2,930,946 2,956,212 173: 2,932,776 2,951,190 176: 2,929,001 2,955,240 184: 2,942,164 2,944,195 187: 2,928,029 2,929,002 2,955,241 2,929,003 188: 2,939,055 190: 2,935,663 191: 2,920,254 2,930,947 197: 2,934,680 2,950,424 198: 2,954,513 200: 2,925,542 2,940,020 201: 2,936,408 2,949,569 2,952,803 203: 2,924,758 2,962,637 230: 2,922,090 2,923,866 2,923,867 2,929,004 2,929,005 2,932,153 2,934,681 2,934,682 2,940,021 2,944,196 2,945,164 2,956,213 2,962,638 2,965,690 2,965,816 2,965,817 234: 2,921,243 2,921,244 2,921,245 2,922,091 2,922,092 2,923,868 2,923,869 2,924,759 2,928,030 2,928,031 2,929,971 2,930,948	234: 2,931,958 2,931,959 2,933,661 2,933,662 2,933,663 2,934,683 2,934,684 2,935,664 2,935,665 2,935,666 2,936,409 2,937,323 2,937,324 2,942,165 2,942,166 2,944,197 2,945,992 2,945,993 2,946,934 2,946,935 2,947,922 2,948,835 2,953,729 2,955,242 2,956,214 2,956,215 2,957,112 2,958,020 2,958,021 2,959,718 2,960,639 2,962,639 2,962,640 2,963,630 2,964,688 2,965,818 2,965,819 2,966,620 235: Re.24,872 2,922,934 2,922,935 2,923,770 2,926,290 2,929,006 2,929,972 2,930,949 2,930,950 2,934,685 2,936,410 2,939,057 2,940,022 2,940,023 2,941,131 2,946,936 2,947,923 2,947,924 2,947,925 2,948,836 2,950,425 2,951,191 2,952,804 2,953,730 2,956,216 2,956,217 2,958,022 2,959,719 2,960,640 2,960,641 2,963,631 2,963,632 2,964,689 2,965,820 236: 2,939,058 2,940,024 238: 2,948,837 240: 2,931,960 241: 2,956,218 242: 2,922,936 2,930,951 2,939,059 2,942,167 2,944,198 2,948,838 243: 2,933,664 245: 2,920,255 2,930,955 2,957,113 246: 2,932,777 2,933,665 2,936,411 2,944,199 2,945,165 2,950,426 249: 2,922,093 2,926,291 2,930,953 258: 2,920,256 2,922,937 2,930,954 2,931,961 2,934,686	258: 2,934,687 2,935,667 2,935,668 2,938,153 2,940,025 2,945,994 2,946,937 2,947,926 2,947,927 2,956,219 2,960,642 2,922,938 2,921,246 2,939,060 2,949,570 2,956,220 2,957,114 261: 2,935,669 2,952,805 2,958,023 262: 2,928,032 2,944,200 2,966,621
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## Class 318

6: 2,931,962 7: 2,926,292 2,941,132 2,965,821 11: 2,941,133 16: 2,930,955 18: 2,940,026 19: 2,941,134 2,945,995 2,950,427 2,958,024 22: 2,931,963 23: 2,943,248 2,947,928 27: 2,925,543 2,946,938 2,958,812 28: 2,921,247 2,925,544 2,928,033 2,929,973 2,930,956 2,931,964 2,935,670 2,937,325 2,944,201 2,945,166 2,945,167 2,945,996 2,947,929 2,950,428 2,950,429 2,950,430 2,951,974 2,954,514 2,957,115 2,961,585 2,961,586 2,965,822 2,965,823 29: 2,938,154 2,943,249 2,944,202 2,948,839 2,948,840 2,962,641 30: 2,929,007 2,933,666 2,939,061 31: 2,922,939 2,924,761 2,927,257 2,937,326 2,941,135 2,946,939 32: 2,941,136 37: 2,963,633 2,965,824 39: 2,927,258 44: 2,939,062 46: 2,929,974 47: 2,958,813 50: 2,922,094 52: 2,930,957 2,939,063 55: 2,962,642 60: 2,933,667 70: 2,930,958 85: 2,954,515 93: 2,965,825 117: 2,926,293 118: 2,951,975 124: 2,960,643 128: 2,935,672 2,935,672 2,940,027 2,945,168
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## Class 318—Con.

- 128: 2, 946, 940  
2, 966, 622  
131: 2, 949, 571  
132: 2, 957, 116  
2, 961, 587  
2, 962, 643  
135: 2, 958, 025  
138: 2, 922, 095  
2, 929, 008  
139: 2, 961, 588  
143: 2, 943, 250  
144: 2, 921, 248  
2, 962, 644  
148: 2, 966, 623  
151: 2, 924, 762  
154: 2, 929, 975  
158: 2, 965, 826  
161: 2, 941, 137  
162: 2, 922, 940  
2, 933, 668  
2, 943, 251  
2, 958, 026  
2, 962, 645  
171: 2, 923, 871  
2, 961, 589  
203: 2, 951, 192  
2, 953, 731  
207: 2, 922, 096  
2, 922, 941  
2, 929, 976  
2, 953, 732  
2, 958, 814  
2, 959, 720  
2, 960, 644  
208: 2, 924, 763  
209: 2, 963, 634  
210: 2, 947, 930  
211: 2, 940, 028  
2, 959, 721  
212: 2, 922, 097  
2, 929, 977  
220: 2, 922, 942  
2, 941, 138  
221: 2, 929, 978  
2, 930, 959  
223: 2, 946, 941  
224: 2, 935, 673  
228: 2, 964, 690  
229: 2, 942, 168  
231: 2, 940, 029  
237: 2, 924, 764  
2, 924, 765  
243: 2, 922, 098  
246: 2, 939, 064  
254: 2, 922, 943  
258: 2, 962, 646  
262: 2, 958, 815  
266: 2, 920, 257  
286: 2, 922, 944  
2, 934, 688  
293: 2, 935, 674  
2, 939, 065  
2, 946, 942  
2, 955, 243  
297: 2, 923, 872  
302: 2, 922, 099  
2, 924, 766  
305: 2, 958, 027  
314: 2, 932, 778  
323: 2, 924, 767  
325: Re. 24, 780  
2, 933, 669  
2, 936, 412  
2, 943, 252  
2, 943, 253  
327: 2, 929, 009  
2, 940, 030  
328: 2, 934, 689  
330: 2, 928, 034  
331: 2, 929, 979  
2, 955, 244  
338: 2, 964, 691  
341: 2, 945, 997  
345: 2, 925, 545  
350: 2, 930, 960  
354: 2, 923, 873  
373: 2, 943, 254  
2, 945, 998  
380: 2, 965, 827  
391: 2, 929, 980  
443: 2, 938, 155  
446: 2, 941, 139  
447: 2, 947, 931  
448: 2, 921, 249  
2, 928, 035  
2, 937, 327  
2, 939, 066  
2, 946, 943  
2, 951, 193  
2, 960, 645  
2, 961, 590
- 448: 2, 965, 828  
466: 2, 932, 779  
467: 2, 940, 031  
2, 945, 169  
2, 951, 194  
2, 958, 028  
2, 965, 829  
468: 2, 961, 591  
480: 2, 924, 768  
2, 962, 647  
481: 2, 931, 965  
2, 963, 635  
489: 2, 922, 100  
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2, 926, 294  
2, 929, 981  
2, 934, 690  
2, 940, 032  
2, 944, 203  
2, 945, 170  
2, 946, 944  
2, 950, 431  
2, 953, 733  
2, 958, 029  
2, 958, 030  
2, 958, 031  
2, 961, 592  
2, 962, 648  
490: 2, 929, 010  
492: 2, 959, 722  
493: 2, 958, 816  
506: 2, 926, 295
- Class 320**  
1: 2, 927, 259  
2, 942, 169  
2, 943, 255  
2, 944, 204  
2, 953, 734  
2: 2, 946, 945  
4: 2, 935, 675  
23: 2, 942, 170  
35: 2, 945, 999  
2, 955, 245  
2, 957, 117  
2, 965, 830
- Class 321**  
1.5: 2, 951, 976  
2: 2, 920, 258  
2, 920, 259  
2, 929, 982  
2, 932, 780  
2, 948, 841  
2, 958, 032  
2, 959, 723  
4: 2, 923, 875  
5: 2, 953, 735  
7: 2, 929, 011  
2, 942, 171  
2, 953, 736  
8: 2, 920, 260  
2, 924, 769  
2, 928, 036  
2, 931, 966  
2, 955, 246  
11: 2, 929, 012  
2, 935, 676  
12: 2, 932, 781  
14: 2, 921, 250  
2, 930, 961  
2, 961, 593  
15: 2, 939, 067  
16: 2, 930, 962  
2, 943, 256  
2, 957, 118  
2, 959, 724  
2, 962, 649  
18: 2, 936, 413  
2, 942, 172  
2, 949, 572  
2, 955, 247  
2, 957, 119  
2, 957, 120  
2, 959, 725  
2, 959, 726  
2, 966, 624  
2, 937, 328  
19: 2, 945, 171  
2, 945, 172  
2, 949, 573  
2, 961, 594  
25: 2, 925, 546  
2, 939, 068  
26: 2, 958, 817  
35: 2, 929, 013  
42: 2, 964, 692  
43: 2, 942, 173  
45: 2, 926, 296  
2, 937, 329  
2, 953, 737
- 47: 2, 953, 738  
48: 2, 925, 547  
2, 947, 932  
2, 959, 727  
2, 961, 595  
2, 962, 650  
2, 965, 831  
49: 2, 951, 977  
50: 2, 929, 014  
57: 2, 934, 691  
68: 2, 921, 251  
2, 927, 260  
69: 2, 944, 205
- Class 322**  
2: 2, 921, 252  
2, 935, 677  
2, 945, 173  
6: 2, 951, 978  
19: 2, 932, 782  
20: 2, 963, 636  
24: 2, 966, 625  
25: 2, 920, 261  
2, 927, 261  
2, 927, 262  
2, 949, 574  
2, 951, 195  
2, 958, 033  
2, 958, 034  
28: 2, 920, 262  
2, 933, 670  
2, 934, 692  
2, 940, 033  
29: 2, 943, 257  
32: 2, 920, 263  
33: 2, 926, 297  
36: 2, 929, 983  
2, 937, 330  
37: 2, 951, 979  
47: 2, 947, 933  
56: 2, 927, 263  
2, 930, 963  
57: 2, 939, 069  
76: 2, 958, 035  
87: 2, 935, 678
- Class 323**  
4: 2, 964, 693  
7: 2, 964, 694  
11: 2, 940, 034  
16: 2, 923, 876  
2, 944, 206  
2, 951, 980  
18: 2, 965, 832  
22: Re. 24, 800  
2, 922, 945  
2, 925, 548  
2, 932, 783  
2, 942, 174  
2, 945, 174  
2, 949, 575  
2, 962, 651  
2, 963, 637  
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23: 2, 954, 516  
2, 957, 121  
24: 2, 929, 015  
2, 933, 671  
43.5: 2, 951, 196  
2, 956, 221  
2, 959, 728  
44: 2, 929, 016  
2, 944, 207  
45: Re. 24, 788  
2, 965, 833  
2, 966, 626  
47: Re. 24, 896  
48: 2, 929, 017  
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2, 944, 208  
50: 2, 926, 298  
51: 2, 931, 967  
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53: 2, 958, 036  
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56: 2, 920, 264  
58: 2, 951, 197  
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66: 2, 925, 549  
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68: 2, 926, 299  
2, 928, 037  
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69: 2, 932, 784  
70: 2, 957, 122
- 74: 2, 930, 965  
2, 938, 156  
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75: 2, 920, 265  
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76: 2, 957, 123  
77: 2, 932, 786  
78: 2, 961, 597  
79: 2, 959, 729  
81: 2, 948, 843  
82: 2, 957, 124  
89: 2, 922, 946  
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93: 2, 956, 836  
94: 2, 938, 160  
2, 944, 211  
117: 2, 925, 550  
122: 2, 951, 981
- Class 324**  
5: 2, 922, 947  
2, 929, 018  
2, 930, 966  
2, 944, 212  
2, 948, 845  
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4: 2, 955, 250  
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6: 2, 929, 984  
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- 8: 2, 931, 974  
10: 2, 930, 969  
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13: 2, 942, 176  
2, 963, 641  
2, 963, 642  
15: 2, 938, 161  
2, 962, 654  
16: 2, 926, 301  
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2, 962, 655  
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24: 2, 924, 770  
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25: 2, 947, 936  
2, 965, 839  
26: 2, 923, 878  
28: 2, 935, 679  
2, 940, 036  
2, 947, 937  
29.5: 2, 921, 254  
2, 922, 104  
2, 922, 948  
2, 951, 199  
30: 2, 922, 105  
2, 933, 675  
2, 934, 693  
2, 939, 070  
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31: 2, 941, 142  
32: 2, 924, 771  
33: 2, 928, 042  
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34: 2, 920, 268  
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2, 937, 335  
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2, 962, 656  
37: 2, 925, 552  
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2, 938, 162  
2, 938, 163  
2, 942, 177  
2, 955, 253  
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2, 958, 818  
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2, 965, 840  
38: 2, 930, 971  
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2, 963, 645  
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41: 2, 933, 679  
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2, 958, 037  
43: 2, 929, 019  
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2, 942, 170  
2, 942, 180  
2, 950, 433  
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2, 961, 604  
2, 964, 700
- 45: 2, 959, 733  
48: 2, 928, 044  
2, 930, 974  
2, 950, 434  
51: 2, 924, 773  
2, 933, 680  
2, 939, 074  
2, 946, 949  
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2, 962, 667  
116: 2, 930, 002  
2, 930, 990  
2, 942, 205  
2, 946, 018  
2, 950, 447  
2, 959, 746  
2, 962, 668  
117: 2, 930, 003  
2, 930, 991  
2, 942, 206  
127: 2, 932, 802  
130: 2, 963, 659  
131: 2, 923, 890  
136: 2, 960, 667  
137: 2, 941, 160  
141: 2, 930, 992  
142: 2, 927, 282  
144: 2, 938, 172  
2, 947, 949  
2, 954, 532  
145: 2, 942, 207  
2, 960, 668  
147: 2, 954, 533  
149: 2, 941, 161  
151: 2, 922, 120  
152: 2, 922, 121  
2, 924, 787  
154: 2, 926, 313  
156: 2, 956, 242  
2, 959, 747  
158: 2, 939, 089  
176: 2, 933, 698  
177: 2, 921, 270  
2, 930, 993  
2, 936, 428  
179: 2, 933, 699  
183: 2, 952, 819  
2, 956, 243  
185: 2, 928, 052

Class 332  
1: 2, 920, 287  
2, 935, 699  
2, 956, 244  
2, 959, 748  
5: 2, 933, 700  
7: 2, 921, 271  
9: 2, 920, 288  
2, 947, 950  
2, 951, 211



## Class 333—Con.

20: 2,935,703	73: 2,950,451	30: 2,930,009	4: 2,920,299	164: 2,931,996	17: 2,947,964	99: 2,923,910
21: 2,923,897	2,950,452	2,930,010	2,933,706	2,937,356	2,951,226	2,929,043
2,939,094	2,954,535	2,941,170	2,933,707	2,925,575	2,953,765	2,930,021
2,948,865	2,954,536	2,942,212	2,935,710	2,926,322	2,953,766	2,938,189
22: 2,922,963	2,964,718	2,952,000	2,947,962	2,931,002	2,954,540	100: 2,940,060
2,950,450	2,922,128	2,954,538	2,948,873	2,948,874	2,956,257	2,952,832
2,958,830	2,943,281	2,958,056	2,951,223	2,929,040	2,957,155	2,955,871
2,965,858	2,934,722	2,964,721	2,963,671	2,942,220	2,958,063	103: 2,930,022
2,966,639	2,926,816	2,937,349	2,942,219	2,956,255	2,958,064	2,935,721
2,965,859	2,953,756	2,960,672	2,965,866	2,958,838	2,958,065	2,946,978
2,920,292	2,938,180	2,942,213	2,921,282	2,926,323	2,959,758	108: 2,934,738
2,922,125	2,946,026	2,949,590	2,954,539	2,939,098	2,961,629	109: 2,931,004
2,922,964	2,937,348	2,942,214	2,953,759	2,946,032	2,962,686	2,958,067
2,930,004	2,940,058	2,927,957	2,962,680	2,958,839	2,966,652	2,936,438
2,941,168	2,937,286	2,929,036	2,964,723	2,958,840	2,922,135	110: 2,945,204
2,943,274	2,933,703	2,953,758	2,930,999	2,934,735	2,927,295	115: 2,951,228
2,944,229	2,936,431	2,922,132	2,937,353	2,961,627	2,929,042	118: 2,935,722
2,946,025	2,943,282	2,942,215	2,957,152	2,926,324	2,939,100	119: 2,941,181
2,946,966	2,946,969	2,965,867	2,965,867	2,927,294	2,945,200	125: 2,932,000
2,949,588	2,948,869	2,943,285	2,963,672	2,932,808	2,952,828	128: 2,922,136
2,951,220	2,965,862	2,959,753	2,935,711	2,935,715	2,924,802	2,928,065
2,956,245	2,922,969	2,948,871	2,951,224	2,937,176	2,924,803	2,957,158
2,956,246	2,924,794	2,949,591	2,963,673	2,938,186	2,924,804	2,961,631
2,963,667	2,927,287	2,962,679	2,963,674	2,945,192	2,928,064	131: 2,941,182
2,925,566	2,928,058	2,923,905	2,928,061	2,958,062	2,942,224	2,953,768
2,934,721	2,934,723	2,939,096	2,935,712	2,958,841	2,942,225	2,960,676
2,942,210	2,943,283	2,947,958	2,952,824	2,922,977	2,946,034	2,966,654
2,943,275	2,951,998	2,941,172	2,937,354	2,940,059	2,950,456	133: 2,961,632
2,966,640	2,951,999	2,942,216	2,966,646	2,946,975	2,952,829	136: 2,922,137
2,921,274	2,954,537	2,965,864	2,936,434	2,952,827	2,939,101	147: 2,922,138
2,944,230	2,961,631	2,924,796	2,944,236	2,953,765	2,963,676	2,942,227
2,962,677	2,964,719	2,925,570	2,949,594	2,962,682	2,938,187	2,963,678
2,921,275	2,925,568	2,930,011	2,925,572	2,943,288	2,938,187	149: 2,930,023
2,922,965	2,929,033	2,920,296	2,933,708	2,942,221	2,957,156	2,956,259
2,932,804	2,933,704	2,924,798	2,945,196	2,943,289	2,920,301	2,964,726
2,933,702	2,944,233	2,921,280	2,946,974	2,952,001	2,942,228	150: 2,942,228
2,947,953	2,961,632	2,928,060	2,957,153	2,929,041	2,935,723	154: 2,935,723
2,948,866	2,965,863	2,935,707	2,959,755	2,920,301	2,965,869	2,946,037
2,958,831	2,931,992	2,957,149	2,961,625	2,922,978	2,937,359	157: 2,922,980
2,958,832	2,938,181	2,958,057	2,926,320	2,932,809	2,955,272	159: 2,965,872
2,920,293	2,943,284	2,946,029	2,958,836	2,930,018	2,932,811	176: 2,923,911
2,923,898	2,946,027	2,949,592	2,962,681	2,962,683	2,926,327	2,924,807
2,935,704	2,950,453	2,927,291	2,966,647	2,942,222	2,950,457	2,927,296
2,943,276	2,958,833	2,926,317	2,930,016	2,943,290	2,939,102	2,936,439
2,946,967	2,929,034	2,941,173	2,941,174	2,959,756	2,955,273	2,938,190
2,966,641	2,921,276	2,946,030	2,953,760	2,962,684	2,964,724	2,942,229
2,922,966	2,921,277	2,930,997	2,934,728	2,942,223	2,948,875	2,956,260
2,922,967	2,923,802	2,930,998	2,932,807	2,959,757	2,945,201	2,959,760
2,927,284	2,930,007	2,956,249	2,934,729	2,966,684	2,946,035	2,965,873
2,946,968	2,934,724	2,929,037	2,956,251	2,962,685	2,945,202	177: 2,930,024
2,947,954	2,946,970	2,957,150	2,931,994	2,965,868	2,957,157	2,933,714
2,957,142	2,949,589	2,967,151	2,951,225	2,941,176	2,968,066	2,936,440
2,965,851	2,950,454	2,958,058	2,946,031	2,961,628	2,938,188	2,937,360
2,922,126	2,956,248	2,958,835	2,956,252	2,963,709	2,955,275	180: 2,965,875
2,923,899	2,966,643	2,930,012	2,925,573	2,947,963	2,964,725	182: 2,931,005
2,925,567	2,966,644	2,922,133	2,931,000	2,928,062	2,923,909	2,954,544
2,935,705	2,924,795	2,937,350	2,937,355	2,957,154	2,935,724	184: 2,935,724
2,937,346	2,932,805	2,930,013	2,958,061	2,926,325	2,958,842	2,935,725
2,943,277	2,942,211	2,959,754	2,934,730	2,933,710	2,947,966	188: 2,947,966
2,944,231	2,921,278	2,930,014	2,943,286	2,934,736	2,959,759	191: 2,953,769
2,951,221	2,926,318	2,934,726	2,949,595	2,935,717	2,965,870	192: 2,926,328
2,952,821	2,938,182	2,935,708	2,944,237	2,953,764	2,930,020	195: 2,920,304
2,954,534	2,946,971	2,956,250	2,921,283	315: 2,931,997	2,944,240	2,944,243
2,956,247	2,952,823	2,964,720	2,938,184	317: 2,921,285	2,954,543	2,959,762
2,958,055	2,961,623	2,966,649	2,938,185	322: 2,944,239	2,954,543	194: 2,942,230
2,961,620	2,964,720	2,958,059	2,930,017	2,965,649	2,939,103	2,962,690
2,963,672	2,966,645	2,961,624	2,943,287	324: 2,931,998	2,942,226	195: 2,953,770
2,943,278	2,920,295	2,963,669	2,963,675	326: 2,922,979	2,943,291	2,958,068
2,952,822	2,922,129	2,964,722	2,955,270	329: 2,935,718	2,952,002	196: 2,923,912
2,954,535	2,922,130	2,965,865	2,935,713	330: 2,935,719	2,956,258	2,927,297
2,955,247	2,922,131	2,966,646	2,929,039			2,959,763
2,958,056	2,922,970	2,967,152	2,921,284			198: 2,922,139
2,961,621	2,923,907	2,968,059	2,922,974			2,923,913
2,963,673	2,924,797	2,969,166	2,934,731			2,924,808
2,966,642	2,925,569	2,970,273	2,944,238			2,925,577
2,968,057	2,926,319	2,971,380	2,925,574			2,926,329
2,969,166	2,927,288	2,972,487	2,941,175			2,927,298
2,970,273	2,928,059	2,973,594	2,950,455			2,928,066
2,971,380	2,929,035	2,974,701	2,958,837			2,931,006
2,972,487	2,930,008	2,975,808	2,923,906			2,945,205
2,973,594	2,932,806	2,976,915	2,931,995			2,928,067
2,974,701	2,933,705	2,978,022	2,926,321			2,921,286
2,975,808	2,934,725	2,979,129	2,956,252			2,926,330
2,976,915	2,944,234	2,980,236	2,922,975			2,937,361
2,978,022	2,946,972	2,981,343	2,936,436			2,929,044
2,979,129	2,947,955	2,982,450	2,943,732			2,925,578
2,980,236	2,949,596	2,983,557	2,945,197			2,931,007
2,981,343	2,951,222	2,984,664	2,953,761			2,936,440
2,982,450	2,952,824	2,985,771	2,961,626			2,942,231
2,983,557	2,954,536	2,986,878	2,963,676			2,947,967
2,984,664	2,956,250	2,987,985	2,965,649			2,950,456
2,985,771	2,958,060	2,989,092	2,967,766			2,952,829
2,986,878	2,959,759	2,990,199	2,969,883			2,954,544
2,987,985	2,961,630	2,991,306	2,971,990			2,956,259
2,989,092	2,963,677	2,992,413	2,974,101			2,958,069
2,990,199	2,965,884	2,993,520	2,976,212			2,959,770
2,991,306	2,967,991	2,994,627	2,978,323			2,960,877
2,992,413	2,970,102	2,995,734	2,980,434			2,961,984
2,993,520	2,972,213	2,996,841	2,982,545			2,963,091
2,994,627	2,974,324	2,997,948	2,984,656			2,964,198
2,995,734	2,976,435	2,999,055	2,986,767			2,965,305
2,996,841	2,978,546	3,000,162	2,988,878			2,966,412
2,997,948	2,980,657	3,001,269	2,990,989			2,967,519
2,999,055	2,982,768	3,002,376	2,993,100			2,968,626
3,000,162	2,984,879	3,003,483	2,995,211			2,969,733
3,001,269	2,986,990	3,004,590	2,997,322			2,970,840
3,002,376	2,989,101	3,005,697	2,999,433			2,971,947
3,003,483	2,991,212	3,006,804	3,001,544			2,973,054
3,004,590	2,993,323	3,007,911	3,003,655			2,974,161
3,005,697	2,995,434	3,009,018	3,005,766			2,975,268
3,006,804	2,997,545	3,010,125	3,007,877			2,976,375
3,007,911	2,999,656	3,011,232	3,009,988			2,977,482
3,009,018	3,001,767	3,012,339	3,012,099			2,978,589
3,010,125	3,003,878	3,013,446	3,014,210			2,979,696
3,011,232	3,005,989	3,014,553	3,016,321			2,980,803
3,012,339	3,008,100	3,015,660	3,018,432			2,981,910
3,013,446	3,010,211	3,016,767	3,020,543			2,983,017
3,014,553	3,012,322	3,017,874	3,022,654			2,984,124
3,015,660	3,014,433	3,018,981	3,024,765			2,985,231
3,016,767	3,016,544	3,019,088	3,026,876			2,986,338
3,017,874	3,018,655	3,020,195	3,028,987			2,987,445
3,018,981	3,020,766	3,021,302	3,031,098			2,988,552
3,019,088	3,022,877	3,022,409	3,033,209			2,989,659
3,020,195	3,024,988	3,023,516	3,035,320			2,990,766
3,021,302	3,027,099	3,024,623	3,037,431			2,991,873
3,022,409	3,029,210	3,025,730	3,039,542			2,992,980
3,023,516	3,031,321					



231: 2, 935, 726	17: 2, 920, 307	149: 2, 956, 264	174: 2, 923, 921	174: 2, 947, 976	213: 2, 925, 591	345: 2, 932, 016
242: 2, 943, 294	2, 920, 308	2, 959, 768	2, 923, 922	2, 947, 977	2, 931, 018	2, 939, 126
246: 2, 953, 679	2, 923, 915	2, 959, 769	2, 923, 923	2, 947, 978	2, 934, 752	2, 939, 127
253: 2, 946, 979	2, 923, 916	2, 961, 649	2, 923, 924	2, 948, 882	2, 939, 123	2, 948, 886
254: 2, 960, 677	2, 933, 715	2, 963, 683	2, 925, 586	2, 948, 883	2, 939, 124	2, 948, 887
258: 2, 921, 287	2, 964, 732	2, 964, 734	2, 925, 587	2, 948, 884	2, 942, 245	2, 948, 888
2, 924, 809	18: 2, 927, 301	150: 2, 922, 142	2, 925, 588	2, 948, 885	2, 942, 246	2, 952, 843
2, 942, 231	2, 957, 159	153: 2, 921, 290	2, 925, 589	2, 950, 464	2, 943, 303	347: 2, 920, 316
2, 943, 295	2, 963, 682	154: 2, 922, 984	2, 926, 337	2, 950, 466	2, 944, 251	2, 920, 317
2, 948, 876	21: 2, 944, 244	2, 949, 599	2, 926, 338	2, 950, 467	2, 947, 979	2, 922, 151
2, 948, 877	22: 2, 922, 981	156: 2, 935, 731	2, 926, 339	2, 950, 468	2, 947, 980	2, 922, 995
2, 962, 693	23: 2, 932, 812	162: 2, 944, 245	2, 926, 340	2, 951, 237	214: 2, 943, 304	2, 922, 996
259: 2, 952, 005	2, 948, 881	163: 2, 924, 813	2, 926, 341	2, 951, 238	222: 2, 943, 305	2, 923, 929
263: 2, 942, 232	25: 2, 934, 742	2, 936, 442	2, 926, 342	2, 951, 239	2, 945, 218	2, 924, 815
265: 2, 948, 878	2, 938, 192	2, 939, 111	2, 927, 304	2, 951, 240	227: 2, 922, 147	2, 924, 816
266: 2, 964, 728	2, 960, 679	2, 942, 238	2, 927, 305	2, 951, 241	2, 926, 343	2, 926, 346
268: 2, 931, 009	26: 2, 946, 041	2, 944, 247	2, 927, 306	2, 951, 242	2, 927, 309	2, 927, 312
2, 959, 764	2, 958, 847	2, 952, 836	2, 927, 307	2, 952, 007	2, 946, 990	2, 927, 313
269: 2, 946, 039	27: 2, 921, 289	2, 955, 278	2, 928, 076	2, 952, 008	2, 954, 548	2, 929, 055
270: 2, 958, 070	2, 922, 982	2, 965, 881	2, 928, 077	2, 952, 009	2, 956, 267	2, 930, 033
2, 959, 765	2, 923, 917	2, 965, 882	2, 928, 078	2, 952, 840	228: 2, 941, 192	2, 931, 023
272: 2, 920, 305	2, 934, 743	164: 2, 929, 048	2, 928, 079	2, 952, 841	231: 2, 963, 691	2, 931, 024
2, 938, 191	2, 942, 233	2, 947, 973	2, 928, 080	2, 953, 774	233: 2, 962, 703	2, 931, 025
2, 946, 040	2, 950, 460	2, 947, 974	2, 929, 049	2, 953, 775	236: 2, 923, 926	2, 932, 017
2, 947, 967	37: 2, 925, 583	2, 950, 463	2, 929, 050	2, 956, 266	2, 966, 667	2, 933, 722
2, 949, 597	40: 2, 926, 332	2, 955, 279	2, 930, 028	2, 957, 165	239: 2, 939, 125	2, 934, 754
2, 953, 771	2, 926, 333	166: 2, 932, 007	2, 930, 029	2, 957, 166	240: 2, 930, 031	2, 936, 447
273: 2, 959, 766	2, 933, 716	2, 949, 600	2, 931, 014	2, 958, 074	2, 966, 668	2, 937, 371
275: 2, 961, 633	41: 2, 932, 003	2, 958, 848	2, 931, 015	2, 958, 075	244: 2, 932, 818	2, 938, 198
276: 2, 929, 046	2, 941, 185	2, 960, 682	2, 931, 016	2, 958, 076	2, 946, 991	2, 938, 199
2, 945, 206	44: 2, 952, 835	2, 963, 684	2, 931, 017	2, 958, 077	2, 965, 888	2, 940, 071
2, 945, 207	47: 2, 942, 234	2, 963, 685	2, 932, 008	2, 958, 852	248: 2, 922, 148	2, 941, 196
2, 947, 968	48: 2, 961, 640	2, 965, 883	2, 932, 009	2, 958, 853	2, 941, 193	2, 942, 252
2, 961, 634	49: 2, 925, 584	167: 2, 921, 291	2, 932, 010	2, 958, 854	2, 941, 194	2, 943, 310
278: 2, 927, 299	2, 932, 813	2, 943, 299	2, 932, 011	2, 958, 855	2, 956, 268	2, 943, 311
2, 935, 727	50: 2, 928, 072	168: 2, 931, 013	2, 932, 012	2, 959, 770	2, 965, 889	2, 943, 312
	2, 936, 441	2, 938, 193	2, 932, 013	2, 960, 684	251: 2, 923, 927	2, 945, 220
	2, 947, 970	2, 939, 112	2, 932, 815	2, 960, 685	2, 963, 692	2, 945, 221
Class 340	51: 2, 931, 010	2, 946, 984	2, 932, 816	2, 961, 643	252: 2, 922, 149	2, 946, 993
1: 2, 939, 105	52: 2, 927, 302	2, 951, 230	2, 933, 718	2, 961, 644	2, 930, 032	2, 948, 889
2, 943, 296	2, 930, 026	2, 962, 698	2, 933, 719	2, 962, 699	253: 2, 926, 344	2, 948, 890
2, 948, 879	2, 931, 011	2, 964, 735	2, 933, 720	2, 962, 700	2, 931, 019	2, 949, 602
2, 950, 678	2, 935, 729	2, 926, 335	2, 933, 721	2, 962, 701	2, 938, 196	2, 950, 469
2, 963, 680	2, 941, 186	2, 921, 292	2, 934, 746	2, 962, 719	2, 960, 687	2, 950, 470
3: 2, 925, 580	2, 942, 235	2, 923, 918	2, 934, 747	2, 963, 686	258: 2, 922, 997	2, 950, 471
2, 930, 025	2, 946, 982	2, 954, 545	2, 934, 748	2, 963, 687	2, 942, 247	2, 950, 472
2, 935, 728	2, 957, 160	2, 966, 659	2, 934, 749	2, 963, 688	2, 943, 306	2, 952, 012
2, 941, 183	58: 2, 966, 658	172: 2, 932, 919	2, 934, 750	2, 963, 689	2, 956, 269	2, 952, 844
2, 958, 846	61: 2, 956, 262	2, 961, 641	2, 935, 732	2, 964, 736	259: 2, 934, 753	2, 953, 778
2, 962, 694	63: 2, 935, 730	2, 951, 231	2, 935, 733	2, 964, 737	2, 941, 195	2, 954, 549
2, 964, 729	2, 956, 263	2, 951, 232	2, 935, 734	2, 964, 738	2, 942, 248	2, 954, 550
2, 965, 876	2, 964, 733	2, 951, 233	2, 935, 735	2, 964, 739	2, 946, 992	2, 954, 551
2, 966, 655	2, 946, 042	2, 951, 234	2, 935, 736	2, 964, 740	261: 2, 931, 020	2, 956, 271
5: 2, 921, 288	70: 2, 940, 063	2, 951, 235	2, 935, 737	2, 965, 885	2, 963, 693	2, 956, 272
2, 947, 969	2, 960, 680	2, 952, 837	2, 935, 738	2, 966, 661	263: 2, 952, 011	2, 957, 168
6: 2, 925, 581	71: 2, 945, 209	2, 952, 838	2, 935, 739	2, 966, 662	2, 963, 694	2, 958, 859
2, 946, 980	72: 2, 945, 210	2, 955, 280	2, 936, 443	2, 966, 663	2, 964, 741	2, 958, 860
8: 2, 946, 981	73: 2, 957, 161	2, 957, 162	2, 936, 444	2, 966, 664	267: 2, 963, 695	2, 958, 861
2, 961, 635	2, 958, 071	2, 957, 163	2, 936, 445	2, 966, 665	268: 2, 943, 307	2, 959, 775
2, 963, 681	76: 2, 932, 814	2, 958, 849	2, 936, 446	2, 966, 666	269: 2, 961, 646	2, 960, 680
9: 2, 922, 140	2, 934, 744	2, 958, 850	2, 937, 364	174.1: 2, 951, 236	270: 2, 940, 070	2, 960, 690
2, 943, 297	81: 2, 931, 012	2, 958, 851	2, 937, 365	2, 951, 243	271: 2, 961, 647	2, 961, 648
2, 961, 636	2, 942, 236	2, 960, 683	2, 937, 366	2, 952, 010	274: 2, 921, 299	2, 962, 704
10: 2, 928, 058	2, 943, 298	2, 961, 642	2, 937, 367	2, 954, 546	2, 923, 928	2, 962, 705
2, 928, 059	2, 965, 880	2, 966, 660	2, 937, 368	2, 954, 547	2, 955, 282	2, 963, 697
2, 939, 106	84: 2, 932, 004	173: 2, 920, 311	2, 938, 195	2, 957, 167	275: 2, 922, 150	2, 963, 698
2, 945, 208	2, 949, 598	2, 922, 985	2, 939, 114	2, 958, 856	276: 2, 928, 081	2, 963, 699
2, 961, 637	87: 2, 937, 362	2, 922, 986	2, 939, 115	2, 959, 771	2, 943, 308	2, 965, 891
2, 962, 695	88: 2, 940, 064	2, 922, 987	2, 939, 116	2, 960, 686	2, 944, 252	2, 966, 670
2, 966, 056	127: 2, 939, 108	2, 923, 920	2, 939, 117	2, 961, 645	278: 2, 959, 772	2, 966, 671
11: 2, 961, 638	128: 2, 920, 309	2, 924, 814	2, 939, 118	2, 963, 690	280: 2, 958, 858	2, 966, 672
12: 2, 964, 730	136: 2, 924, 811	2, 925, 585	2, 939, 119	2, 965, 886	2, 965, 890	2, 966, 673
13: 2, 964, 731	147: 2, 922, 141	2, 926, 336	2, 939, 120	2, 966, 666	281: 2, 945, 219	359: 2, 960, 691
2, 965, 877	2, 926, 334	2, 928, 075	2, 940, 065	176: 2, 939, 121	2, 946, 993	364: 2, 930, 034
14: 2, 961, 639	2, 932, 005	2, 933, 717	2, 940, 066	2, 958, 857	282: 2, 926, 345	365: 2, 942, 253
15: 2, 920, 306	2, 934, 745	2, 937, 363	2, 940, 067	2, 965, 887	2, 927, 310	2, 964, 743
2, 924, 810	2, 939, 109	2, 938, 194	2, 940, 068	177: 2, 932, 014	2, 931, 021	2, 922, 152
2, 926, 331	2, 945, 211	2, 939, 113	2, 941, 188	2, 937, 369	2, 932, 015	2, 923, 930
2, 927, 300	2, 946, 043	2, 944, 246	2, 941, 189	2, 943, 302	2, 952, 842	2, 925, 592
2, 928, 070	2, 950, 461	2, 947, 975	2, 941, 190	180: 2, 940, 069	2, 955, 283	2, 927, 314
2, 928, 071	2, 950, 462	2, 950, 465	2, 942, 239	2, 962, 702	2, 960, 688	2, 931, 026
2, 932, 001	2, 951, 229	2, 952, 839	2, 942, 240	181: 2, 946, 989	2, 927, 311	2, 932, 018
2, 934, 741	2, 953, 772	2, 958, 073	2, 942, 241	182: 2, 929, 051	2, 938, 197	2, 932, 819
2, 939, 107	2, 958, 072	2, 965, 884	2, 942, 242	2, 935, 740	310: 2, 935, 741	2, 945, 222
2, 940, 061	2, 959, 767	2, 965, 265	2, 943, 300	2, 942, 243	312: 2, 942, 249	2, 956, 273
2, 940, 062	2, 960, 681	2, 957, 164	2, 943, 301	2, 942, 244	313: 2, 937, 370	2, 957, 169
2, 941, 184	149: 2, 920, 312	2, 920, 312	2, 944, 248	185: 2, 949, 601	2, 942, 250	2, 959, 776
2, 948, 880	2, 924, 812	2, 920, 313	2, 944, 249	186: 2, 929, 052	2, 958, 078	2, 966, 674
2, 950, 459	2, 927, 303	2, 920, 314	2, 945, 212	187: 2, 922, 991	315: 2, 966, 669	367: 2, 922, 153
2, 952, 006	2, 928, 073	2, 920, 315	2, 945, 213	2, 930, 030	316: 2, 959, 773	2, 922, 997
2, 952, 833	2, 928, 074	2, 921, 293	2, 945, 214	2, 932, 817	324: 2, 921, 300	2, 936, 448
2, 952, 834	2, 929, 047	2, 921, 294	2, 945, 215	2, 939, 122	2, 922, 993	2, 942, 254
2, 956, 261	2, 930, 027	2, 921, 295	2, 945, 216	195: 2, 929, 053	2, 928, 082	368: 2, 936, 449
16: 2, 925, 582	2, 932, 006	2, 921, 296	2, 945, 217	199: 2, 921, 298	2, 931, 022	369: 2, 922, 998
2, 932, 002	2, 932, 143	2, 921, 297	2, 946, 044	2, 922, 146	2, 942, 251	2, 932, 019
2, 962, 696	2, 941, 187	2, 922, 143	2, 946, 045	2, 934, 751	2, 943, 309	370: 2, 927, 315
2, 962, 697	2, 942, 237	2, 922, 144	2, 946, 046	200: 2, 925, 590	2, 953, 776	377: 2, 924, 817
2, 965, 878	2, 946, 983	2, 922, 145	2, 946, 047	201: 2, 927, 308	2, 959, 774	2, 931, 027
2, 965, 879	2, 947, 971	2, 922, 231	2, 946, 985	2, 944, 250	2, 963, 69	



## Class 340—Con.

381: 2,938,200  
2,946,990  
384: 2,922,999  
2,926,347  
2,932,821  
386: 2,941,197  
388: 2,936,450  
2,941,198  
2,942,255  
2,946,995  
2,953,779  
393: 2,965,892  
394: 2,920,318  
2,931,028  
396: 2,925,593  
398: 2,923,931  
2,952,013  
407: 2,964,744

## Class 343

5: 2,925,594  
2,933,723  
2,934,755  
2,935,742  
2,938,201  
2,939,128  
2,939,129  
2,940,072  
2,944,253  
2,946,048  
2,946,996  
2,948,892  
2,952,845  
2,959,777  
2,959,778  
6: 2,921,301  
2,922,154  
2,927,816  
2,945,223  
2,947,981  
2,959,779  
2,960,692  
2,962,706  
6.5: 2,922,155  
2,931,029  
2,950,473  
2,962,707  
2,962,708  
2,966,675  
7: 2,930,035  
2,939,130  
2,947,982  
2,950,474  
2,952,846  
2,955,083  
2,965,893  
2,965,894  
7.3: 2,920,319  
2,922,156  
2,924,818  
2,925,083  
2,940,073  
2,948,893  
2,958,079  
2,961,650  
7.4: 2,926,348  
2,929,056  
2,939,131  
2,946,049  
7.5: 2,921,302  
2,938,202  
7.7: 2,933,724  
2,943,314  
2,956,274  
2,965,895  
7.9: 2,932,020  
2,952,847

8: 2,921,303  
2,923,000  
2,923,932  
2,935,743  
2,939,132  
2,947,983  
9: 2,923,001  
2,949,603  
2,959,780  
10: 2,928,084  
2,950,475  
11: 2,924,819  
2,939,133  
2,935,744  
2,940,074  
2,941,199  
2,944,254  
2,946,997  
2,950,476  
2,951,244  
2,952,014  
2,955,284  
2,961,651  
2,962,709  
2,963,700  
2,964,745  
12: 2,920,320  
2,923,002  
2,934,756  
2,962,710  
13: 2,923,003  
2,923,933  
2,927,317  
2,935,203  
2,939,134  
2,946,050  
2,950,477  
2,951,245  
2,961,652  
2,961,653  
2,962,711  
2,962,712  
14: 2,923,004  
2,923,005  
2,928,085  
2,929,057  
2,931,030  
2,933,725  
2,939,135  
2,949,604  
2,958,862  
2,966,676  
15: 2,932,021  
16: 2,925,595  
2,927,318  
2,929,058  
2,929,059  
2,934,757  
2,946,051  
2,956,275  
2,958,080  
2,958,863  
17: 2,930,036  
2,943,315  
2,927,319  
2,936,451  
2,943,316  
2,943,317  
2,957,171  
2,959,781  
2,962,713  
17.2: 2,941,200  
17.5: 2,965,896  
17.7: 2,921,304  
2,922,157  
2,928,086  
2,934,758  
2,934,759

17.7: 2,942,256  
2,942,257  
2,952,015  
2,952,848  
2,953,780  
2,958,864  
2,961,654  
2,961,655  
2,965,897  
18: 2,921,305  
2,922,158  
2,923,934  
2,931,031  
2,943,318  
2,951,246  
2,951,247  
2,954,552  
100: 2,925,596  
2,940,075  
2,941,201  
2,953,781  
2,954,553  
2,954,554  
2,956,276  
2,956,277  
2,961,656  
2,963,701  
2,965,898  
101: 2,923,935  
2,941,202  
102: 2,920,321  
2,924,820  
2,938,204  
2,945,224  
2,952,016  
103: 2,932,022  
2,946,052  
105: Re.24,891  
2,929,060  
2,930,037  
2,943,319  
2,943,320  
2,947,984  
2,947,985  
106: 2,924,821  
2,924,822  
2,928,087  
2,928,088  
2,938,205  
2,939,136  
2,944,255  
2,954,555  
107: 2,927,320  
2,932,023  
2,945,225  
2,956,278  
108: 2,932,024  
2,939,137  
2,946,053  
2,958,865  
112: 2,921,306  
2,922,159  
2,932,025  
2,933,726  
2,940,076  
2,943,321  
2,945,226  
2,958,866  
113: 2,923,006  
2,925,597  
2,928,089  
2,933,727  
2,933,728  
2,933,729  
2,938,206  
2,944,256  
2,951,248  
114: 2,939,138  
2,940,077

114.5: 2,962,714  
117: 2,928,090  
2,929,061  
2,942,258  
2,947,986  
2,950,478  
2,958,867  
118: 2,943,322  
2,946,998  
2,953,782  
2,953,783  
119: 2,928,091  
2,931,032  
2,952,849  
120: 2,943,323  
2,962,715  
121: 2,955,285  
178: 2,927,321  
180: 2,939,139  
2,947,987  
202: 2,949,605  
205: 2,929,062  
225: 2,946,054  
228: 2,934,760  
702: 2,930,038  
2,950,479  
703: 2,931,033  
705: 2,921,307  
2,941,203  
708: 2,932,026  
2,934,761  
2,949,606  
2,959,782  
709: 2,963,702  
713: 2,941,204  
2,964,746  
714: 2,938,207  
2,961,657  
720: 2,933,730  
2,962,716  
722: 2,949,607  
724: 2,939,140  
725: 2,948,894  
726: 2,964,747  
727: 2,923,007  
2,946,055  
2,954,556  
731: 2,929,063  
2,945,227  
742: 2,947,988  
2,955,286  
746: 2,957,172  
747: 2,932,822  
2,942,259  
749: 2,944,257  
750: 2,931,034  
751: 2,924,823  
753: 2,928,092  
2,945,228  
2,955,287  
754: 2,921,308  
2,934,762  
2,935,745  
2,939,141  
2,939,142  
2,945,229  
2,959,785  
756: 2,930,039  
2,930,040  
2,933,731  
2,942,260  
2,942,261  
2,942,262  
2,943,324  
2,952,017  
2,954,557  
757: 2,936,452  
2,947,989

758: 2,934,763  
2,955,279  
761: 2,935,746  
2,935,208  
2,940,078  
762: 2,943,325  
765: 2,924,824  
2,960,693  
766: 2,931,035  
767: 2,935,747  
2,942,263  
2,944,258  
2,948,895  
768: 2,946,056  
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2,960,694  
2,961,658  
2,931,036  
2,937,372  
2,953,784  
771: 2,929,064  
2,933,823  
2,937,373  
2,967,677  
772: 2,945,230  
2,956,280  
2,957,173  
2,957,178  
773: 2,954,559  
776: 2,920,322  
2,941,205  
778: 2,961,659  
2,942,264  
2,942,265  
2,955,288  
781: 2,921,309  
2,952,018  
2,965,899  
782: 2,942,266  
783: 2,959,784  
785: 2,929,065  
2,927,322  
2,946,999  
788: 2,931,037  
2,932,027  
2,953,785  
793: 2,963,703  
795: 2,958,868  
800: 2,939,143  
2,945,231  
2,945,232  
807: 2,945,232  
809: 2,966,678  
813: 2,938,209  
814: 2,937,374  
2,941,206  
815: 2,921,310  
2,955,289  
817: 2,943,326  
834: 2,952,850  
835: 2,921,311  
2,922,160  
2,939,144  
840: 2,926,349  
2,945,233  
2,920,323  
850: 2,920,323  
861: 2,925,598  
872: 2,956,281  
2,961,286  
2,962,717  
873: 2,948,896  
875: 2,953,786  
2,954,559  
876: 2,934,764  
881: 2,926,350  
2,932,028  
895: 2,938,210  
2,947,000  
2,958,081  
2,963,704

895: 2,964,748  
2,966,679  
899: 2,933,732  
900: 2,941,207  
901: Re.24,866  
903: 2,926,351  
2,949,608  
911: 2,921,312  
912: 2,922,161  
915: 2,936,453  
2,945,234

## Class 346

1: 2,946,643  
2,951,736  
7: 2,959,459  
2,959,460  
8: 2,927,833  
2,930,668  
2,937,912  
2,943,905  
2,944,866  
2,948,679  
2,948,580  
2,957,742  
13: 2,946,644  
14: 2,951,737  
2,955,567  
2,924,496  
17: 2,925,308  
2,942,027  
2,952,500  
2,952,501  
2,957,743  
2,964,374  
21: 2,927,834  
22: 2,923,587  
2,960,377  
2,963,333  
23: 2,922,686  
2,923,588  
2,929,669  
2,932,547  
2,933,363  
24: 2,927,835  
2,928,687  
25: 2,934,393  
2,939,757  
29: 2,936,207  
2,937,913  
32: 2,925,309  
2,935,368  
33: 2,933,364  
2,943,906  
2,946,645  
2,946,646  
2,952,502  
2,954,265  
2,954,266  
2,965,431  
35: 2,965,432  
37: 2,965,433  
46: 2,920,930  
49: 2,960,378  
50: 2,947,591  
2,961,286  
59: 2,944,867  
2,950,159  
66: 2,922,687  
74: 2,919,967  
2,919,968  
2,923,589  
2,925,310  
2,926,057  
2,926,982  
2,928,708  
2,928,709

74: 2,928,710  
2,929,670  
2,929,671  
2,929,672  
2,931,688  
2,931,689  
2,931,690  
2,931,691  
2,932,548  
2,934,394  
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2,939,758  
2,942,925  
2,943,907  
2,943,908  
2,944,868  
2,946,647  
2,947,592  
2,950,160  
2,950,161  
2,950,162  
2,952,503  
2,954,287  
2,955,894  
2,956,852  
2,958,568  
2,961,287  
2,962,339  
2,963,334  
2,963,335  
2,963,336  
2,964,375  
76: 2,922,688  
2,955,895  
82: 2,925,311  
98: 2,922,689  
101: 2,935,208  
2,962,340  
103: 2,955,896  
107: 2,927,836  
2,927,837  
2,937,914  
2,962,504  
2,960,379  
108: 2,942,929  
2,950,163  
109: 2,930,669  
2,937,915  
110: 2,923,590  
2,932,549  
2,965,434  
111: 2,926,058  
113: 2,919,969  
114: 2,927,838  
117: 2,947,593  
121: 2,924,497  
2,924,498  
130: 2,925,312  
135: 2,935,369  
2,926,059  
2,937,916  
2,938,760  
138: 2,920,931  
2,926,983  
2,931,692  
2,935,370  
2,964,376  
2,966,389  
139: 2,926,984  
2,934,395  
2,937,917  
2,938,761  
2,951,738  
140: 2,950,164  
2,954,268  
2,963,337  
145: 2,924,499



# 1960

## CLASSIFICATION OF DESIGNS

<b>Class D1</b>	3: 186, 975 187, 455 187, 456 187, 457 187, 520 187, 636 187, 853 188, 090 188, 308 188, 369 188, 453 188, 481 188, 482 188, 714 188, 894 189, 339	2: 187, 977 188, 039 188, 093 188, 094 188, 095 188, 177 188, 178 188, 237 188, 309 188, 410 188, 411 188, 591 188, 592 188, 653 188, 934 188, 981 188, 982 189, 019 189, 083 189, 124 189, 235 189, 287 189, 394 189, 414 189, 415 189, 444 189, 445 189, 446 6: 187, 367 187, 462 187, 639 187, 856 188, 096 188, 097 188, 593 188, 983	1: 187, 691 187, 692 187, 693 187, 694 187, 730 187, 783 187, 784 187, 910 187, 911 187, 912 187, 913 187, 978 188, 043 188, 098 188, 180 188, 275 188, 311 188, 412 188, 455 188, 716 188, 839 189, 020 189, 021 189, 022 189, 023 189, 127 189, 128 189, 129 189, 130 189, 131 189, 238 189, 342 189, 416 189, 417 189, 447 3: 188, 782 7: 187, 423 187, 523 187, 640 187, 979 188, 238 188, 312	3: 188, 841 189, 024 189, 025 189, 239 189, 290 189, 291 189, 395 189, 474 6: 187, 070 187, 369 187, 370 187, 466 187, 467 187, 524 187, 584 187, 788 187, 789 187, 859 187, 860 187, 861 187, 862 187, 863 188, 100 188, 101 188, 239 188, 316 188, 370 188, 414 188, 415 188, 457 188, 534 188, 535 188, 595 188, 720 188, 756 188, 757 189, 182 189, 418 189, 448 18: 187, 071 187, 072 187, 211 187, 212 187, 371 188, 596 188, 842 25: 187, 468 188, 240 27: 188, 182 30: 187, 022 187, 213 187, 214 187, 215 187, 263 187, 733 187, 734 187, 735 187, 736 187, 737 187, 916 187, 981 187, 982 187, 983 188, 183 188, 317 188, 536 188, 537 188, 783 189, 085 189, 292 189, 475	1: 188, 656 188, 657 188, 658 188, 659 188, 721 188, 784 188, 843 188, 844 188, 895 188, 896 189, 026 189, 183 189, 240 189, 293 189, 294 189, 343 189, 344 189, 345 189, 346 189, 347 189, 348 189, 349 189, 476 3: 187, 864 188, 047 188, 048 6: 188, 660 8: 187, 265 187, 918 188, 185 188, 186 188, 416 188, 417 188, 758 188, 759 189, 132 189, 419 11: 187, 424 187, 790 187, 919 188, 049 188, 318 188, 319 188, 489 188, 490 188, 785 188, 786	2: 187, 471 187, 472 187, 528 187, 529 187, 585 187, 586 187, 644 187, 696 187, 697 187, 739 188, 187 188, 242 188, 320 188, 491 188, 598 188, 723 188, 846 188, 847 189, 029 189, 030 189, 031 189, 032 189, 033 189, 034 189, 035 189, 134 189, 135 189, 295 189, 296 189, 297 189, 449							
<b>Class D2</b>	3: 187, 014 187, 413 187, 414 187, 415 187, 416 187, 454 187, 905 187, 974 188, 527 188, 528 188, 650 188, 834 188, 889 189, 393	4: 187, 018 187, 127 187, 209 188, 175 188, 236 188, 838 189, 413 5: 187, 365 187, 854 188, 036 188, 091 188, 454 188, 750	6: 187, 367 187, 462 187, 639 187, 856 188, 096 188, 097 188, 593 188, 983	<b>Class D10</b>	6: 188, 715 7: 187, 580 189, 289 8: 187, 066 187, 130 187, 131 187, 259 187, 260 187, 261 187, 463 187, 521 187, 581 187, 908 187, 909 188, 040 188, 041 188, 042 188, 654 189, 084 189, 125 189, 126 189, 236 189, 340 189, 473 9: 187, 180 187, 262 188, 485	<b>Class D11</b>	1: 188, 486	<b>Class D12</b>	2: 187, 729 188, 179 188, 310 188, 655 189, 237 189, 341 4: 189, 341	<b>Class D13</b>	1: 186, 976 187, 067 187, 689 187, 782 187, 855 187, 976	<b>Class D4</b>	2: 187, 017 187, 420 187, 579 187, 635 188, 931



<b>Class D24</b>	13: 189, 452 14: 187, 074 187, 099 187, 182 187, 228 187, 229 187, 230 187, 273 187, 274 187, 329 187, 474 187, 592 187, 648 187, 649 187, 793 187, 794 187, 866 187, 924 187, 925 187, 926 187, 927 187, 987 187, 988 188, 111 188, 189 188, 246 188, 247 188, 326 188, 460 188, 461 188, 474 188, 494 188, 495 188, 539 188, 540 188, 541 188, 542 188, 725 188, 763 188, 764 188, 794 188, 795 188, 849 188, 850 188, 937 188, 984 188, 985 189, 037 189, 143 189, 144 189, 187 189, 188 189, 353 189, 354 189, 355 15: 188, 052 188, 248 188, 249 188, 250 189, 478 189, 479	23: 188, 940 188, 986 189, 038 189, 039 189, 189 189, 190 189, 191 189, 192 189, 193 189, 194 189, 195 189, 196 189, 480	<b>Class D30</b>  1: 187, 533 188, 193 188, 328 188, 382	<b>Class D31</b>  2: 187, 135 187, 534 187, 928 3: 188, 941 4: 187, 028 187, 136 187, 187 187, 276 187, 535 187, 650 187, 651 187, 795 187, 867 188, 055 188, 114 188, 194 188, 383 188, 602 188, 853 188, 942 188, 943 189, 091 189, 197	<b>Class D33</b>  2: 187, 700 187, 796 187, 929 3: 187, 029 187, 277 187, 278 187, 378 187, 379 187, 536 187, 701 188, 195 188, 603 188, 944 189, 244 189, 356 6: 187, 232 187, 652 188, 196 188, 197 188, 604 189, 040 189, 041 189, 092 7: 187, 188 187, 595 188, 605 189, 245 8: 187, 868 188, 279 188, 329 188, 668 9: 188, 198 10: 187, 030 11: 187, 137 188, 422 188, 899 189, 093 13: 188, 606 14: 186, 983 186, 984 186, 985 187, 233 187, 279 187, 741 187, 989 188, 327 188, 497 188, 601 188, 665 188, 666 188, 667 188, 852 188, 938 188, 939	14: 188, 058 188, 199 188, 200 188, 330 188, 331 188, 462 188, 543 188, 607 188, 727 188, 796 188, 797 188, 900 189, 094 189, 246 189, 357 189, 453 189, 454 17: 188, 115 18: 188, 332 19: 187, 537 188, 116 188, 117 188, 498 188, 499 188, 544 188, 608 189, 042 189, 247 189, 421	<b>Class D34</b>  2: 187, 031 187, 742 188, 059 188, 463 188, 798 189, 043 189, 095 4: 187, 703 187, 800 187, 869 188, 118 188, 945 188, 946 189, 455 5: 186, 986 187, 032 187, 033 187, 138 187, 139 187, 234 187, 235 187, 281 187, 282 187, 283 187, 330 187, 331 187, 380 187, 381 187, 428 187, 475 187, 476 187, 477 187, 538 187, 539 187, 540 187, 597 187, 598 187, 599 187, 600 187, 655 187, 656 187, 657 187, 658 187, 704 187, 705 187, 870 187, 871 187, 872 187, 930 187, 931 188, 060 188, 119 188, 120 188, 121 188, 122 188, 201 188, 202 188, 280 188, 333 188, 423 188, 424 188, 545 188, 546 188, 547 188, 548 188, 609 188, 609 188, 670 188, 671 188, 672 188, 673	5: 188, 674 188, 675 188, 676 188, 677 188, 678 188, 679 188, 728 188, 799 188, 854 188, 855 188, 856 188, 857 188, 858 188, 901 188, 902 188, 947 188, 948 188, 949 188, 950 188, 987 188, 988 188, 989 189, 044 189, 045 189, 096 189, 097 189, 198 189, 358 189, 359 189, 396 189, 397 189, 481 189, 482 189, 483 11: 187, 991 13: 188, 859 14: 189, 422 15: 186, 987 187, 034 187, 035 187, 036 187, 075 187, 100 187, 101 187, 140 187, 236 187, 254 187, 382 187, 383 187, 478 187, 479 187, 541 187, 601 187, 602 187, 603 187, 659 187, 660 187, 661 187, 662 187, 706 187, 743 187, 801 187, 802 187, 803 187, 804 187, 805 187, 806 187, 873 187, 932 187, 992 187, 993 188, 206 188, 681 188, 800 188, 863 188, 907 188, 955 189, 101	15: 189, 098 189, 099 189, 199 189, 301 189, 456 189, 457 189, 458 189, 484 189, 485	<b>Class D35</b>  2: 187, 285 187, 429 187, 744 187, 874 188, 500 3: 187, 480 187, 542 187, 807 188, 205 188, 384 188, 861 188, 862 188, 990 189, 100	7: 187, 334 187, 482 187, 608 187, 746 187, 935 187, 936 188, 061 188, 801 189, 200 189, 250 189, 251 189, 252 189, 303 189, 304 189, 305 189, 424 187, 142 188, 062	<b>Class D43</b>  1: 189, 147	<b>Class D44</b>  1: 187, 038 187, 609 187, 747 187, 809 187, 995 188, 283 188, 284 188, 386 188, 501 188, 553 188, 554 188, 555 188, 613 188, 730 188, 991 188, 992 189, 148 189, 201 189, 306 189, 307 189, 308 189, 309 4: 187, 748 188, 337 188, 612 187, 938 188, 125 189, 488 6: 187, 039 188, 429 9: 187, 544 187, 996 188, 614 188, 802 10: 186, 988 187, 077 187, 237 187, 545 188, 126 188, 285 188, 286 188, 430 188, 431 188, 556 188, 908 189, 050 189, 489 15: 187, 078 187, 143 187, 144 187, 145 187, 146 187, 147 187, 148 187, 149 187, 150 187, 151 187, 152 187, 153 187, 154 187, 155 187, 156 187, 157 187, 190 187, 191 187, 192 187, 192 187, 610 187, 611 187, 707 187, 810 187, 939 188, 127 188, 208 188, 339 188, 502 188, 503 188, 615 188, 616 188, 682																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
<b>Class D25</b>	1: 187, 218 187, 374 187, 865 188, 188 188, 376 188, 538 189, 450																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
<b>Class D26</b>	1: 187, 098 187, 133 187, 181 187, 219 187, 220 187, 269 187, 270 187, 271 187, 531 187, 740 187, 892 187, 985 188, 102 188, 103 188, 104 188, 105 188, 106 188, 107 188, 108 188, 109 188, 245 188, 419 188, 420 188, 493 188, 789 188, 848 189, 138 189, 139 189, 140 189, 141 5: 186, 981 187, 025 187, 221 187, 328 187, 593 187, 594 187, 646 187, 791 187, 792 188, 322 188, 377 188, 378 188, 379 188, 790 188, 936 189, 186 189, 350 6: 188, 110 188, 421 189, 299 7: 187, 026 187, 272 187, 699 188, 791 189, 300 8: 187, 647 10: 187, 073 188, 323 189, 090 13: 186, 982 187, 222 187, 223 187, 224 187, 225 187, 226 187, 227 187, 532 187, 921 187, 922 187, 923 187, 986 188, 051 188, 324 188, 325 188, 380 188, 663 188, 724 188, 792 188, 793 189, 142 189, 351 189, 352 189, 451																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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15: 188,683 188,731 188,803 188,993 189,051 189,202 189,253 189,254 189,293 189,310 189,440 188,287 188,432 188,684 189,204 22: 186,989 187,040 187,041 187,811 188,063 188,466 189,310 189,490 24: 188,655 26: 187,238 187,613 188,617 188,909 29: 187,042 187,079 187,290 187,430 187,431 187,614 187,708 187,709 187,749 187,877 187,941 187,942 187,943 187,944 188,064 188,065 188,254 188,433 188,504 188,557 188,618 188,619 188,620 188,686 188,804 188,864 188,910 188,994 189,102 189,149 189,150 189,205 189,255 189,311	19: 187,997 187,998 188,211 188,911 188,995  <b>Class D46</b> 1: 188,688  <b>Class D47</b> 6: 187,090 187,945 187,946 187,947 188,434 188,733 7: 187,711 187,882 188,255 189,206  <b>Class D48</b> 2: 187,081 188,689 189,053 189,103 4: 187,082 188,690 188,912 189,054 189,256 16: 187,291 188,067 188,212 188,388 188,435 188,558 188,559 188,913 188,914 189,257 20: 187,045 187,046 187,105 187,194 187,195 187,196 187,335 187,336 187,432 187,486 187,487 187,488 187,549 187,615 187,814 187,948 187,949 187,950 187,999 188,213 188,214 188,389 188,505 188,506 188,691 188,734 188,867 189,055 189,104 189,152 189,207 189,258 189,364 189,365 189,400 189,427 189,428 189,429 23: 187,337 188,215 188,436 188,467 188,621 188,915 189,208 189,313 189,430 189,431 24: 187,292 187,338 187,384 187,489 187,665 187,883 187,951 188,000 188,129 188,288 188,289	24: 188,956 189,492 189,493 189,494 27: 187,047 187,106 187,952 188,290 188,507 188,622 29: 189,056 31: 187,158 187,293 187,433 187,490 187,616 187,617 187,750 188,468 188,916 188,917 189,209 189,495 32: 187,157 187,751 188,508 188,996 189,314  <b>Class D49</b> 1: 186,992 186,993 186,994 186,995 186,996 187,294 187,339 187,666 188,001 188,068 188,256 188,291 188,692 188,693 188,694 188,695 188,868 189,153 189,154 189,432 189,496 189,497 6: 187,159 188,390  <b>Class D50</b> 3: 187,712 187,953 188,342 188,391 188,509 4: 187,083 188,343 5: 187,815 189,058 6: 187,491 7: 187,107 187,492 188,469 189,366  <b>Class D51</b> 1: 187,894 189,155 189,259 189,433  <b>Class D52</b> 1: 187,048 187,084 187,085 187,108 187,109 187,239 187,240 187,241 187,340 187,385 187,386 187,387 187,493 187,551 187,667 187,954 188,130 188,257 188,344 188,345	1: 188,560 188,806 188,997 189,059 189,060 189,210 189,211 189,212 189,260 189,315 189,434 2: 187,198 187,388 187,389 187,668 187,713 187,955 188,221 188,259 188,392 188,563 188,624 188,700 188,735 188,919 188,998 189,218 189,319 13: 187,295 187,341 187,618 188,258 188,346 188,510 188,696 188,807 189,062 189,106 189,214 189,262 4: 188,511 188,697 189,215 189,316 7: 186,997 187,110 187,199 187,296 187,390 187,669 187,714 187,816 188,218 188,219 188,347 188,698 189,263 189,367 189,368 189,498 10: 188,069 188,561  <b>Class D54</b> 2: 186,998 186,999 187,049 187,201 187,297 187,391 187,392 187,494 187,619 187,620 187,817 188,070 188,292 188,623 189,063 189,156 189,157 189,216 189,264 189,369 189,401 189,402 4: 189,499 5: 189,064 9: 187,818 11: 188,562 12: 187,000 187,160 187,242 187,552 187,885 188,002 188,220 188,293 188,437 188,699 188,767 188,808 188,809	12: 188,918 189,158 189,159 189,217 189,265 189,317 189,318 189,370 189,500 13: 187,243 187,495 187,553 187,907 188,003 188,004 188,071 188,221 188,259 188,392 188,563 188,624 188,700 188,735 188,919 188,998 189,218 189,319 14: 187,496 187,554 187,715 188,346 188,736 188,810 188,999 189,000 189,065 189,501 16: 188,005 188,072 189,001  <b>Class D55</b> 1: 187,434 187,555 187,556 187,621 187,716 187,717 187,957 187,958 188,006 188,131 188,294 188,295 188,564 188,625 188,701 188,702 188,768 188,811 188,812 189,403  <b>Class D56</b> 1: 187,001 188,348 188,349 188,438 189,107 2: 187,342 188,350 188,565 4: 187,002 187,111 187,298 187,343 187,344 187,393 187,557 187,718 187,819 188,132 188,296 188,351 188,703 188,769 188,813 189,160 189,161 189,162 189,435 189,502 189,503 9: 187,003 187,670  <b>Class D57</b> 1: 187,004 187,299 187,394	1: 187,558 187,752 188,007 188,008 188,393 188,394 188,626 188,704 188,814 189,066 189,163 189,371 189,436 189,504 189,505  <b>Class D58</b> 2: 187,005 187,497 188,352 188,627 188,870 189,404 4: 187,086 187,161 187,300 187,301 188,512 5: 187,050 187,053 188,073 188,395 188,770 189,067 189,506 6: 187,395 187,396 187,397 187,398 187,753 187,754 187,886 187,959 188,133 188,628 188,629 188,630 188,815 188,957 189,460 189,507 7: 189,372 8: 187,006 187,112 187,113 187,244 187,245 187,246 187,302 187,345 187,399 187,400 187,559 187,560 187,561 187,719 187,820 187,960 188,009 188,074 188,134 188,297 188,737 188,816 188,817 188,818 189,002 189,219 189,373 189,374 189,437 189,508 9: 187,401 187,435 188,353 188,354 188,566 188,958 189,375 189,376 189,377 189,378 10: 187,402 187,755 188,471 11: 187,303 187,403 187,961 188,135 188,222 188,223 189,266	12: 187,007 187,346 187,498 187,562 187,720 187,756 187,887 188,396 188,439 188,439 189,108 189,220 189,267 189,268 189,379 189,405 12.6: 187,087 187,962 188,075 12.7: 188,871 189,003 13: 187,051 187,052 187,304 187,499 188,472 188,819 188,820 188,959 17: 187,162 187,305 187,347 188,073 188,224 188,260 188,397 188,440 188,473 188,513 188,631 188,738 188,821 188,822 188,872 189,320 25: 187,202 187,348 187,888 188,137 188,138 189,321 26: 187,054 187,115 187,163 187,247 187,500 187,501 187,721 187,757 187,758 187,889 188,139 188,140 188,261 188,355 188,398 188,632 188,706 188,771 188,823 188,824 189,004 189,005 189,068 189,164 189,165 189,206  <b>Class D61</b> 1: 187,055 187,056 187,116 187,117 187,118 187,164 187,165 187,203 187,248 187,306 187,307 187,436 187,437 187,438 187,502 187,503 187,563 187,622 187,759 187,890 187,891 187,893
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**Class D61—Con.**

1: 188, 076  
188, 141  
188, 356  
188, 441  
188, 567  
188, 633  
188, 739  
188, 740  
188, 772  
188, 773  
188, 774  
188, 825  
188, 920  
188, 921  
188, 960  
188, 961  
189, 006  
189, 007  
189, 069  
189, 166  
189, 167  
189, 221  
189, 269  
189, 270  
189, 322  
189, 380  
189, 381  
189, 382  
189, 383

**Class D62**

2: 187, 308  
187, 439  
187, 504  
187, 564  
187, 671  
187, 672  
188, 142  
189, 271  
189, 323  
3: 189, 407  
4: 187, 505  
187, 565  
187, 623  
187, 821  
187, 822  
187, 894  
188, 077  
188, 225  
188, 357  
188, 568  
188, 569  
188, 826  
188, 962  
189, 070

**Class D64**

10: 189, 384  
11: 187, 119  
187, 760  
188, 010  
188, 514  
188, 570  
188, 571  
188, 827  
188, 873  
188, 874  
189, 385  
12: 187, 624  
187, 761  
188, 143  
188, 741

**Class D65**

1: 187, 088  
187, 550  
187, 673  
187, 674  
187, 762  
188, 442  
189, 109

**Class D66**

1: 188, 475  
189, 461

**Class D67**

2: 188, 078  
3: 187, 440  
188, 011  
188, 515  
188, 828  
189, 324  
4: 187, 309  
187, 404  
188, 572  
188, 634

**Class D70**

1: 188, 012  
188, 358  
189, 168  
2: 187, 506  
187, 566  
188, 963

**Class D71**

1: 187, 008  
187, 057  
187, 089  
187, 090  
187, 166  
187, 167  
187, 249  
187, 310  
187, 311  
187, 312  
187, 313  
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188, 922  
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188, 964  
188, 965  
189, 008  
189, 071  
189, 072  
189, 073  
189, 110  
189, 272  
189, 273  
189, 325  
189, 326  
189, 327  
189, 328  
189, 329  
189, 366  
189, 387  
189, 438  
189, 439  
189, 462

1: 189, 463  
189, 464  
189, 465  
189, 466

**Class D72**

1: 187, 508  
187, 569  
188, 518  
188, 830  
189, 222  
189, 223  
189, 388

**Class D74**

1: 187, 204  
187, 250  
187, 251  
187, 314  
187, 442  
187, 509  
187, 510  
187, 570  
187, 627  
187, 628  
187, 629  
187, 678  
187, 765  
187, 766  
187, 825  
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187, 897  
188, 150  
188, 151  
188, 264  
188, 445  
188, 446  
188, 519  
188, 636  
188, 709  
188, 710  
188, 831  
188, 966  
188, 967  
188, 968  
188, 969  
188, 970  
5: 187, 829  
188, 520  
188, 574  
189, 224  
9: 187, 443  
187, 444  
187, 830  
188, 832  
188, 169  
10: 188, 016  
188, 971  
17: 187, 252  
187, 253  
187, 254  
187, 255  
187, 315  
187, 445  
187, 831  
188, 265  
188, 266  
188, 267  
188, 575  
188, 576  
188, 637  
188, 778  
188, 972  
189, 170  
21: 187, 120  
187, 767

**Class D76**

1: 188, 638  
189, 274

**Class D77**

1: 187, 058  
187, 832  
188, 877  
188, 924  
189, 074  
  
1: 187, 091  
187, 316  
187, 833  
188, 878

**Class D79**

2: 187, 965

**Class D80**

1: 187, 009  
2: 188, 298

2: 188, 447  
188, 577  
5: 188, 299  
8: 187, 092  
188, 578  
9: 187, 093  
187, 511  
187, 571  
187, 679  
187, 768  
187, 966  
188, 152  
188, 399  
188, 400  
188, 401  
188, 478  
188, 639  
189, 146  
189, 171  
189, 467  
189, 509  
10: 187, 010  
187, 834  
188, 742  
189, 468  
189, 510  
11: 187, 317  
187, 572  
187, 769  
188, 082  
188, 268  
189, 408

**Class D81**

1: 187, 358  
187, 512  
187, 898  
187, 967  
189, 440  
2: 188, 640  
189, 225  
4: 187, 094  
187, 256  
7: 187, 770  
188, 973  
189, 275  
10: 187, 011  
187, 095  
187, 318  
187, 408  
187, 630  
187, 680  
187, 681  
187, 835  
187, 836  
187, 899  
187, 900  
187, 901  
187, 968  
188, 017  
188, 083  
188, 153  
188, 154  
188, 155  
188, 156  
188, 300  
188, 448  
188, 449  
188, 450  
188, 451  
188, 579  
188, 879  
188, 880  
188, 925  
188, 974  
188, 975  
188, 976  
189, 075  
189, 111  
189, 226  
189, 276  
189, 277  
189, 409  
189, 441  
189, 469  
18: 187, 409  
188, 743  
19: 187, 121  
187, 410  
187, 837  
188, 018  
188, 227  
188, 228  
188, 580  
189, 278  
20: 188, 926  
21: 187, 722  
189, 410  
24: 188, 581  
25: 187, 012  
187, 168

**Class D85**

2: 187, 361  
187, 446  
187, 447  
187, 448  
187, 514  
187, 969  
188, 085  
188, 452  
188, 711  
188, 928  
189, 114  
189, 511  
7: 188, 157  
8: 189, 331  
188, 019  
188, 158  
188, 363  
188, 479  
189, 391  
10: 187, 122  
187, 123  
187, 449  
187, 772  
187, 840  
188, 020  
188, 021  
188, 159  
188, 160  
188, 232  
188, 233  
188, 270  
188, 271  
188, 272  
188, 273  
188, 303  
188, 364  
188, 403  
188, 404  
188, 522  
188, 712  
189, 115

25: 187, 319  
187, 771  
187, 902  
188, 361  
188, 362  
188, 641  
188, 779  
188, 780  
189, 279

**Class D82**

2: 187, 838  
189, 123

**Class D83**

1: 187, 059  
187, 060  
187, 169  
187, 170  
187, 171  
187, 172  
187, 359  
187, 513  
187, 573  
187, 631  
187, 723  
187, 903  
188, 084  
188, 229  
188, 230  
188, 269  
188, 301  
188, 302  
188, 402  
188, 521  
188, 642  
188, 833  
188, 881  
188, 882  
189, 009  
189, 010  
189, 011  
189, 076  
189, 112  
189, 330  
189, 389  
189, 390  
8: 187, 360  
187, 839  
189, 012  
12: 187, 320  
188, 231  
188, 927  
189, 077  
189, 113  
189, 172

**Class D86**

2: 187, 361  
187, 446  
187, 447  
187, 448  
187, 514  
187, 969  
188, 085  
188, 452  
188, 711  
188, 928  
189, 114  
189, 511  
7: 188, 157  
8: 189, 331  
188, 019  
188, 158  
188, 363  
188, 479  
189, 391  
10: 187, 122  
187, 123  
187, 449  
187, 772  
187, 840  
188, 020  
188, 021  
188, 159  
188, 160  
188, 232  
188, 233  
188, 270  
188, 271  
188, 272  
188, 273  
188, 303  
188, 364  
188, 403  
188, 404  
188, 522  
188, 712  
189, 115

10: 189, 116  
189, 173  
189, 174  
189, 175  
189, 280  
189, 281  
189, 332  
189, 442  
189, 470  
189, 471

**Class D87**

2: 187, 515  
187, 682  
188, 405  
188, 523  
188, 524  
188, 582  
189, 227  
3: 187, 061  
187, 173  
187, 174  
187, 321  
187, 322  
187, 362  
187, 363  
187, 364  
187, 516  
187, 841  
188, 086  
188, 161  
188, 162  
188, 406  
188, 407  
188, 408  
188, 480  
188, 525  
188, 643  
188, 732  
188, 744  
188, 745  
188, 781  
188, 883  
189, 078  
189, 178  
189, 333  
189, 512  
189, 513  
5: 187, 632  
187, 773  
188, 583  
189, 176  
189, 177  
189, 282  
189, 443

**Class D88**

3: 187, 683  
4: 187, 450  
187, 842  
188, 163  
188, 887  
189, 230  
1: 187, 323  
187, 451  
187, 452  
187, 453  
187, 684  
188, 164  
188, 234

**Class D90**

3: 187, 725  
188, 274  
5: 188, 022  
20: 187, 175  
187, 411  
187, 574  
187, 575  
187, 685  
188, 165  
188, 166  
188, 167  
188, 168  
188, 169  
188, 304  
188, 305  
189, 013  
189, 228

**Class D91**

1: 187, 013  
187, 576  
187, 577  
187, 774  
187, 843  
188, 171  
188, 023  
188, 087  
188, 170  
188, 305  
188, 365

1: 188, 884  
188, 929  
189, 079  
189, 334  
189, 392  
189, 411

3: 187, 096  
187, 124  
187, 176  
187, 205  
187, 206  
187, 207  
187, 412  
187, 578  
187, 686  
187, 775  
187, 776  
187, 844  
187, 845  
187, 846  
187, 847  
187, 848  
187, 849  
187, 904  
187, 971  
188, 024  
188, 025  
188, 026  
188, 409  
188, 526  
188, 644  
188, 645  
188, 747  
189, 080  
189, 081  
189, 117  
189, 179  
189, 180  
189, 229  
189, 283  
189, 284  
189, 335

**Class D92**

1: 187, 097  
187, 208  
187, 324  
187, 777  
187, 880  
187, 972  
188, 366  
188, 367  
188, 584  
188, 585  
188, 586  
188, 587  
188, 646  
188, 713  
188, 748  
188, 885  
188, 886  
188, 887  
189, 230  
189, 336  
189, 337  
189, 338  
189, 514  
189, 515  
2: 187, 973  
4: 187, 062  
187, 850  
188, 235  
188, 588  
188, 647  
188, 888  
17: 187, 726  
187, 851  
188, 648  
188, 649  
189, 014  
189, 285  
189, 472  
26: 187, 125  
188, 171  
188, 172  
188, 304  
189, 015  
189, 016  
189, 017  
189, 118  
189, 119  
189, 231  
189, 232  
189, 286

**Class D93**

2: 188, 088  
3: 187, 063  
4: 187, 126  
187, 633  
187, 727  
188, 173



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Issue of	Vol.	No.	First Number in Issue			
			Patents	Designs	Plant Patents	Reissues
Jan. 5.....	750	1	2, 919, 443	186, 973	1, 893	24, 761
Jan. 12.....		2	2, 920, 324	187, 014	None	24, 763
Jan. 19.....		3	2, 921, 314	187, 064	1, 896	24, 766
Jan. 26.....		4	2, 922, 162	187, 098	None	None
Feb. 2.....	751	1	2, 923, 008	187, 127	1, 901	24, 772
Feb. 9.....		2	2, 923, 936	187, 177	None	24, 776
Feb. 16.....		3	2, 924, 825	187, 209	1, 905	24, 782
Feb. 23.....		4	2, 925, 600	187, 257	1, 911	24, 787
Mar. 1.....	752	1	2, 926, 352	187, 325	1, 919	None
Mar. 8.....		2	2, 927, 323	187, 365	None	24, 788
Mar. 15.....		3	2, 928, 093	187, 413	1, 920	24, 794
Mar. 22.....		4	2, 929, 066	187, 454	1, 922	24, 800
Mar. 29.....	753	5	2, 930, 041	187, 517	1, 924	24, 802
Apr. 5.....		1	2, 931, 038	187, 579	1, 926	None
Apr. 12.....		2	2, 932, 029	187, 634	1, 931	24, 806
Apr. 19.....		3	2, 932, 826	187, 687	1, 935	24, 810
Apr. 26.....	754	4	2, 933, 733	187, 728	1, 937	24, 814
May 3.....		1	2, 934, 766	187, 778	1, 938	24, 819
May 10.....		2	2, 935, 748	187, 852	1, 939	24, 823
May 17.....		3	2, 936, 454	187, 905	1, 942	24, 826
May 24.....	755	4	2, 937, 375	187, 974	1, 946	24, 828
May 31.....		5	2, 938, 212	188, 034	1, 948	24, 829
June 7.....		1	2, 939, 145	188, 089	1, 949	24, 834
June 14.....		2	2, 940, 079	188, 174	1, 950	24, 835
June 21.....	756	3	2, 941, 208	188, 236	1, 954	24, 841
June 28.....		4	2, 942, 267	188, 275	1, 955	24, 842
July 5.....		1	2, 943, 327	188, 306	1, 957	None
July 12.....		2	2, 944, 259	188, 368	1, 958	24, 843
July 19.....	757	3	2, 945, 235	188, 410	1, 960	24, 845
July 26.....		4	2, 946, 059	188, 453	1, 961	24, 847
Aug. 2.....		1	2, 947, 001	188, 481	None	None
Aug. 9.....		2	2, 947, 990	188, 527	1, 963	24, 851
Aug. 16.....	758	3	2, 948, 897	188, 589	1, 967	None
Aug. 23.....		4	2, 949, 609	188, 650	1, 968	24, 861
Aug. 30.....		5	2, 950, 480	188, 714	1, 969	24, 863
Sept. 6.....		1	2, 951, 249	188, 749	1, 970	24, 865
Sept. 13.....	759	2	2, 952, 020	188, 782	None	24, 868
Sept. 20.....		3	2, 952, 851	188, 834	1, 971	24, 870
Sept. 27.....		4	2, 953, 787	188, 889	1, 972	24, 871
Oct. 4.....		1	2, 954, 560	188, 930	1, 974	None
Oct. 11.....	760	2	2, 955, 290	188, 977	None	24, 883
Oct. 18.....		3	2, 956, 282	189, 018	1, 976	24, 886
Oct. 25.....		4	2, 957, 174	189, 082	None	24, 890
Nov. 1.....		1	2, 958, 082	189, 120	1, 978	None
Nov. 8.....	761	2	2, 958, 869	189, 181	1, 983	24, 893
Nov. 15.....		3	2, 959, 786	189, 233	1, 984	24, 895
Nov. 22.....		4	2, 960, 695	189, 287	1, 987	24, 896
Nov. 29.....		5	2, 961, 660	189, 339	1, 990	24, 899
Dec. 6.....	761	1	2, 962, 720	189, 393	1, 991	24, 901
Dec. 13.....		2	2, 963, 706	189, 412	1, 998	24, 905
Dec. 20.....		3	2, 964, 749	189, 444	None	24, 909
Dec. 27.....		4	2, 965, 900	189, 473	2, 008	24, 916
Last number of 1960.....			2, 966, 680	189, 515	2, 008	24, 917







## LIST OF DISCLAIMERS AND DEDICATIONS

1095



- Hobart, Edward A., William R. Schober, and John H. Blankenbuehler, Troy, Ohio. Disclaimer filed by the assignee, The Hobart Brothers Company. No. 2,882,478; disclaimer filed Jan. 29, 1960; v. 752; p. 516.
- Horwitz, Henry Leopold, Nutley, and Merle Edward Homan, Packanack Lake, N.J. Disclaimer filed by the assignee, International Telephone and Telegraph Corporation. No. 2,787,659; disclaimer filed Apr. 8, 1960; v. 754; p. 292.
- Jacoby, Arnold and Philip Jacoby, New York, N.Y. Dedication filed by the inventors. No. 2,888,815; dedication filed Jan. 4, 1960; v. 751; p. 523.
- Jendrassik, George, deceased, London, England, by Andre Gabor Tihamer Boszormenyi, and Clara Jendrassik, executors, London, England. Disclaimer filed by the assignee, Jendrassik Developments Limited; and the exclusive licensee, Power Jets (Research and Development) Limited. No. 2,800,120; disclaimer filed Mar. 4, 1960; v. 753; p. 2.
- Jensen, James Lee, St. Louis Park, Minn. Dedication filed by the assignee, Minneapolis-Honeywell Regulator Company. No. 2,774,878; dedication filed Feb. 3, 1960; v. 752; p. 795.
- Jolliffe, Charles B., Princeton, N.J. Disclaimer filed by the assignee, Radio Corporation of America. No. 2,857,455; disclaimer filed Apr. 1, 1960; v. 754; p. 773.
- Kamborian, Jacob S., West Newton, and Frank Kaszynski, Wilmington, Mass. Disclaimer filed by the assignee, International Shoe Machine Corporation. No. 2,668,967; disclaimer filed Mar. 3, 1960; v. 753; p. 295.
- Kauble, Howard B., Clyde, Ohio. Dedication filed by the assignee, The National Krant Packers Association, Incorporated. No. 2,804,010; dedication filed Sept. 12, 1960; v. 759; p. 512.
- Kauble, Howard B., Clyde, Ohio. Dedication filed by the assignee, The National Krant Packers Association, Incorporated. No. 2,804,390; dedication filed Sept. 12, 1960; v. 759; p. 512.
- Kohler, Fred, New York, N.Y. Disclaimer filed by the inventor. No. 2,896,055; disclaimer filed Jan. 26, 1960; v. 752; p. 1.
- Lauck, Albert G., Toledo, Ohio. Disclaimer filed by the assignee, Owens-Illinois Glass Company. No. 2,818,684; disclaimer filed June 28, 1960; v. 757; p. 1.
- Leiter, Howard A., Pittsburgh, Pa. Disclaimer filed by the assignee, Westinghouse Electric Corporation. No. 2,929,868; disclaimer filed Oct. 21, 1960; v. 761; p. 1.
- Lindemann, Howard C., Westbury, and Daniel Mindheim, Glen Cove, N.Y. Disclaimer filed by the inventors; the assignee, Lindly & Company, Inc., assenting. No. 2,803,106; disclaimer filed Nov. 3, 1960; v. 761; p. 577.
- Lubkin, Samuel, Bayside, N.Y. Disclaimer filed by the assignee, Curtiss-Wright Corporation. No. 2,801,344; disclaimer filed Apr. 20, 1960; v. 754; p. 1019.
- Mataré, Herbert F., West End, N.J. Disclaimer filed by the assignee, Tung-Sol Electric Inc. No. 2,854,365; disclaimer filed Oct. 19, 1960; v. 761; p. 1.
- Matthews, Ralph E., Jr., Philadelphia, Pa. Disclaimer filed by the assignee, California Packing Corporation. No. 2,696,297; disclaimer filed Mar. 1, 1960; v. 753; p. 2.
- Miller, Harry B., Cleveland Heights, Ohio. Disclaimer filed by the assignee, Cleveite Corporation. No. 2,930,912; disclaimer filed Apr. 15, 1960; v. 754; p. 773.
- Molotsky, Hyman M., and Edward G. Ballweber, Chicago, Ill. Disclaimer filed by the assignee, Velsicol Chemical Corporation. No. 2,795,608; disclaimer filed Jan. 26, 1960; v. 752; p. 515.
- Mrazek, James A., South Glastonbury, Conn. Disclaimer filed by the assignee, United Aircraft Corporation. No. 2,919,714; disclaimer filed Feb. 23, 1960; v. 752; p. 1079.
- Myerson, Richard L., Newton, Mass. Disclaimer filed by the assignee, Myerson Tooth Corporation. No. 2,724,166; disclaimer filed Dec. 23, 1959; v. 751; p. 265.
- Nelson, Earl W., and Albert Dietz, Lynchburg, and John P. Wikswo, Amherst, Va., and William E. Trees, Savannah, Ga. Disclaimer filed by the assignee, American Cyanamid Company. No. 2,849,083; disclaimer filed Feb. 1, 1960; v. 752; p. 795.
- O'Neill, John J., Jr., Roxana, Ill. Disclaimer filed by the assignee, Olin Mathieson Chemical Corporation, and the inventor. No. 2,759,417; disclaimer filed Dec. 31, 1959; v. 751; p. 523.
- Osten, Fred C., Sr., Detroit, Mich. Disclaimer filed by the inventor. No. 2,658,242; disclaimer filed Sept. 26, 1960; v. 760; p. 236.
- Parisoe, Wilbert, Highland Park, and James A. Dolesh, Chicago, Ill. Disclaimer filed by the assignee, Oak Manufacturing Co. No. 2,887,889; disclaimer filed July 18, 1960; v. 758; p. 229.
- Peterson, Forrest W., Burbank, Calif. Disclaimer filed by the assignee, Ferro Corporation. No. 2,729,872; disclaimer filed Sept. 19, 1960; v. 759; p. 775.
- Phil, George E., Abington, Mass. Disclaimer filed by the assignee, Acton Laboratories, Inc. No. 2,778,988; disclaimer filed Mar. 11, 1960; v. 753; p. 533.
- Reid, Ralph A., Beverly, and Vincent W. Leonard, Saugus, Mass. Disclaimer filed by the assignee, General Electric Company. No. 2,745,086; disclaimer filed Nov. 25, 1959; v. 750; p. 1.
- Rhyne, John W., Jr., Lancaster County, Pa. Disclaimer filed by the assignee, Hamilton Watch Company. No. 2,837,590; disclaimer filed Nov. 4, 1960; v. 761; p. 283.
- Rich, John P., and Oscar Luthi, Nashua, and Walter N. Thompson, Mont Vernon, N.H. Disclaimer filed by the assignee, Improved Machinery Inc. No. 2,908,226; disclaimer filed Aug. 26, 1960; v. 759; p. 1.
- Rueger, William J., Pleasant Valley, N.Y. Disclaimer filed by the assignee, International Business Machines Corporation. No. 2,820,956; disclaimer filed Nov. 25, 1960; v. 761; p. 899.
- Russell, Harvey W., Nyack, and Norman Wonnacott, Scarsdale, N.Y. Disclaimer filed by the assignee, Willcox & Gibbs Sewing Machine Company. No. 2,834,309; disclaimer filed July 13, 1960; v. 757; p. 553.
- Seif, Eric, Philadelphia, Pa. Disclaimer filed by the assignee, Burroughs Corporation. No. 2,899,551; disclaimer filed Aug. 11, 1960; v. 759; p. 1.
- Soderquist, Leslie E., Akron, Ohio. Disclaimer filed by the assignee, The McNeil Machine & Engineering Company. No. 2,812,544; disclaimer filed Apr. 1, 1960; v. 754; p. 292.
- Soderquist, Leslie E., Silver Lake, Ohio. Disclaimer filed by the assignee, The McNeil Machine & Engineering Company. No. 2,812,545; disclaimer filed Apr. 1, 1960; v. 754; p. 292.
- Thompson, Robert D., Sterling W. Alderfer, and Alfred Bossard, Akron, Ohio. Dedication filed by the assignee, The Kendall Company. No. 2,629,678; dedication filed Jan. 21, 1960; v. 752; p. 2.
- Toothman, Lawrence R., Houston, Pa., and Peter G. Kurch, Sanford, Fla. Disclaimer filed by the assignee, McGraw-Edison Company. No. 2,921,107; disclaimer filed Feb. 5, 1960; v. 752; p. 516.
- Tyler, Truman V., Palos Verdes Estates, Calif. Dedication filed by the assignee, North American Aviation, Inc. No. 2,739,637; dedication filed Dec. 30, 1959; v. 751; p. 523.
- Unger, Donald C., Grosse Pointe, Mich. Disclaimer filed by the inventor and assignee, General Motors Corporation. No. 2,807,245; disclaimer filed Apr. 20, 1960; v. 754; p. 1019.
- Wilson, Evelyn H., East Orange, and Max Tishler, Westfield, N.J. Disclaimer filed by the assignee, Merck & Co., Inc. No. 2,773,075; disclaimer filed Jan. 22, 1960; v. 752; p. 1.
- Woodbury, William W., San Jose, Calif. Disclaimer filed by the assignee, International Business Machines Corporation. No. 2,923,469; disclaimer filed Mar. 23, 1960; v. 753; p. 794.
- Zysset, Karl, Lyss, Switzerland. Disclaimer filed by the patentee; the licensee, New-Nel Kitchen Products Company, consenting and approving. No. 2,782,826; disclaimer filed July 12, 1960; v. 757; p. 765.



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## DECISIONS PUBLISHED IN THE OFFICIAL GAZETTE

- Adamson et al., In re. 755 O.G. 5.  
 Antonson, In re. 752 O.G. 287.  
 Application Papers of Shearer, In re. 759 O.G. 782.  
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 Balmer, James G., Jr., In re. 755 O.G. 628.  
 Bamberger, Steven H. v. Robert C. Watson, Commissioner of Patents. 751 O.G. 269.  
 Billingsley, William F., In re. 758 O.G. 489.  
 Braun, Jacob G., In re. 754 O.G. 778.  
 Campbell, Guy F., and American Machine and Foundry Company v. Robert C. Watson, Commissioner of Patents. 752 O.G. 799.  
 Cavallito, Chester John, and Allan Poe Gray, In re. 760 O.G. 239.  
 Charlton, Alexander E., In re. 758 O.G. 5.  
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 Cornish, In re. 756 O.G. 12.  
 Crawford v. Howard and Meyer. 752 O.G. 7.  
 Crockett, John M., et al., In re. 758 O.G. 244.  
 Crotty, In re. 751 O.G. 271.  
 Donnelly, Thomas S., Jr. v. Robert C. Watson, Commissioner of Patents. 754 O.G. 5.  
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 Doumani, Thomas F., and Hal C. Huffman, In re. 761 O.G. 580.  
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 Grimme et al., In re. 754 O.G. 6.  
 Harza, Leroy F. (Also Known as Leroy Francis Harza), Deceased (His Sole Heirs and Legatees, Zelma D. Harza, Richard D. Harza, and Arthur C. Hoffman), In re. 753 O.G. 5.  
 Hatten, Maurice E., In re. 760 O.G. 5.  
 Hegyl, Imre J., v. Ernst Albers-Schoenberg v. Pieter Geldermans and Pieter Van Den Ban. 761 O.G. 8.  
 Herrmann, Karl L., In re. 757 O.G. 558.  
 Hunter, Ex parte. 750 O.G. 773.  
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 Johnson, Arnold N., In re. 760 O.G. 1041.  
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 Leshin, In re. 756 O.G. 10.  
 Lighthall, Lyllian F., Administratrix, Estate of Albert C. Lighthall, Deceased, et al. v. Robert C. Watson, Commissioner of Patents. 754 O.G. 5.  
 Lorand, Eugene J., and John E. Reese (deceased) (Hercules Powder Company, Assignee, Substituted), In re. 757 O.G. 769.  
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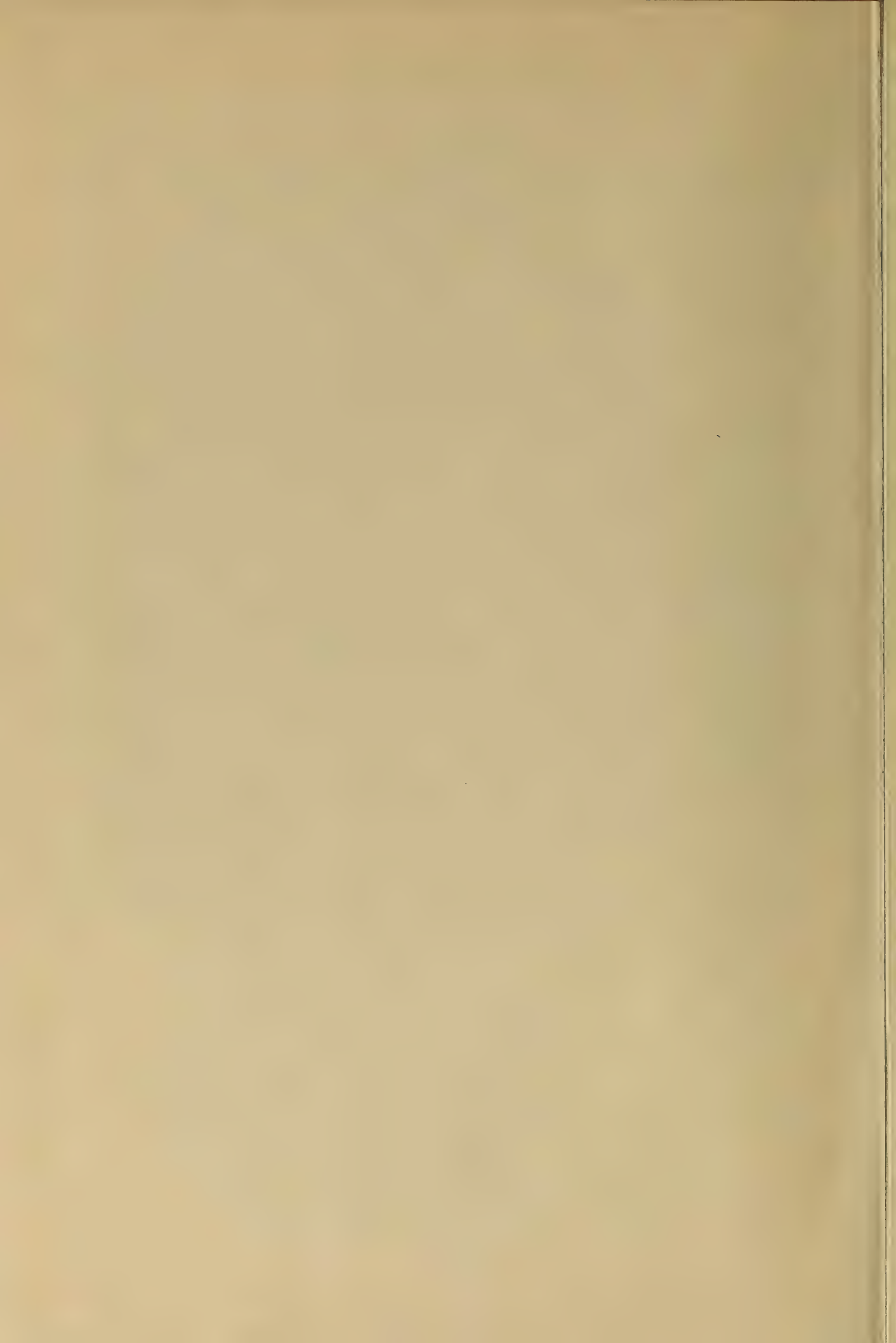








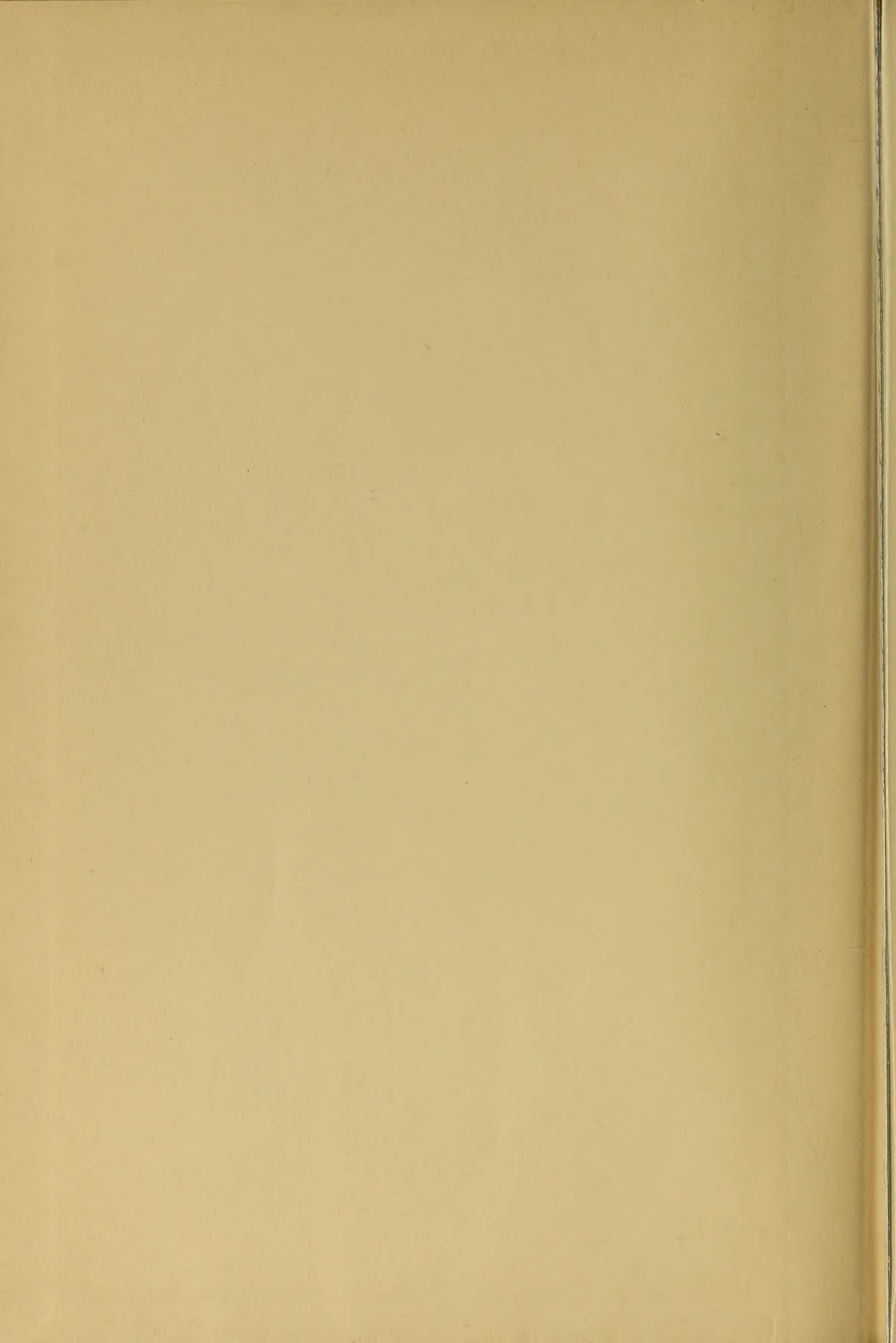


















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